



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

SELF ASSESSMENT REPORT (SAR)
FOR

B.Tech -COMPUTER SCIENCE AND ENGINEERING
(TIER-I)

Submitted to



Submitted by

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

School of Computing

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

Bharath Institute of Higher Education and Research

73, Agaram Road, Selaiyur, Chennai– 600073, India.

AUGUST 2021

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PART A: Institutional Information

1.Name and Address of Institution:

Bharath Institute of Science and Technology

173 Agaram road Selaiyur, Chennai - 73

2. Name and Address of Affiliating University :

Bharath Institute of Higher Education and Research

3.Year of establishment of Institution : 1985

4.Type of Institution :

Institute of National Importance

University

Deemed University

☒

Autonomous

Any other (Please Specify)

5.Ownership Status :

Central Government

State Government

Government Aided

Self Financing

☒

Trust Society

Section 25 Company

Any other (Please Specify)

Provide Details:

6. Other Academic Institutions of the Trust/Society/Company etc., if any:

7. Details of all the programs being offered by the institution under consideration:

S.NO	Program Name	Name of the Department	Year of Start	Intake	Increase/ Decrease in intake, if any	Year of Increase /Decrease	AICTE Approval	Accreditation Status*
1.	B.Tech (Civil Engineering)	Civil Engineering	1985	60	600	2018	Yes	ABET Accreditation (6 Years)
1.	B.Tech (Mechanical Engineering)	Mechanical Engineering	1985	60	840	2018	Yes	ABET Accreditation (6 Years)
2.	B.Tech (Aerospace Engineering)	Aeronautical Engineering	2016	60	60	***	Yes	Not Eligible for Accreditation
3.	B.Tech (Automobile Engineering)	Automobile Engineering	2003	50	60	2018	Yes	Eligible and Applied
4.	B.Tech (Aeronautical Engineering)	Aeronautical Engineering	2012	60	300	2018	Yes	Eligible and Applied
5.	B.Tech (Mechatronics)	Mechatronics	2008	30	60	2018	Yes	Eligible but not Applied
6.	B.Tech (Electrical & Electronics Engineering)	Electrical & Electronics Engineering	1992	60	120	2018	Yes	ABET Accreditation (6 Years)
7.	B.Tech (Electronics & Communication Engineering)	Electronics & Communication Engineering	1992	60	900	2018	Yes	ABET Accreditation (6 Years)
8.	B.Tech	Computer Science and	1985	60	1140	2018	Yes	Eligible and

	(Computer Science and Engineering)	Engineering)						Applied
9.	B.Tech (Information Technology)	Information Technology	2001	40	120	2018	Yes	Eligible but not Applied
10.	B.Tech (Industrial Bio Technology)	Industrial Bio Technology	2003	90	60	2018	Yes	Eligible but not Applied
11.	B.Tech (Bio Technology)	Industrial Bio Technology	2003	50	120	2018	Yes	Eligible but not Applied
12.	B.Tech (Biomedical Engineering)	Biomedical Engineering	2003	80	240	2018	Yes	Eligible but not Applied
13.	B.Tech (Nano Technology)	Nano Technology	2014	30	60	2018	Yes	Eligible but not Applied
14.	B.Tech (Agri Bio Technology)	Industrial Bio Technology	2017	120	240	2018	Yes	Eligible but not Applied
15.	B.Arch	Architecture	1992	40	60	2018	Yes	Eligible but not Applied
16.	M.Arch	Architecture	2015	20	20	***	Yes	Not Eligible for Accreditation
17.	M.Tech (Construction Engineering and Management)	Civil Engineering	2011	18	18	***	Yes	Eligible but not Applied
18.	M.Tech (Environmental Engineering)	Civil Engineering	2016	18	18	***	Yes	Eligible but not Applied
19.	M.Tech (Structural Engineering)	Civil Engineering	2003	25	18	2018	Yes	Eligible but not Applied
20.	M.Tech	Civil Engineering	2016	18	18	***	Yes	Not Eligible for

	(Geo Technology)							Accreditation
21.	M.Tech (Computer Aided and Design)	Mechanical Engineering	2001	18	18	***	Yes	Eligible but not Applied
22.	M.Tech (Machine Design)	Mechanical Engineering	2003	18	18	***	Yes	Eligible but not Applied
23.	M.Tech (Thermal Engineering)	Mechanical Engineering	2002	60	18	2018	Yes	Eligible but not Applied
24.	M.Tech (Automobile Engineering)	Automobile Engineering	2011	18	18	***	Yes	Eligible but not Applied
25.	M.Tech (Power Electronics and Drives)	Electrical & Electronics Engineering	2002	18	18	***	Yes	Eligible but not Applied
26.	M.Tech (Power Systems)	Electrical & Electronics Engineering	2003	30	18	2018	Yes	Eligible but not Applied
27.	M.Tech (Embedded Systems)	Electronics & Communication Engineering	2004	10	18	2018	Yes	Eligible but not Applied
28.	M.Tech (Digital and Communication and Networking)	Electronics & Communication Engineering	2004	10	18	2018	Yes	Eligible but not Applied
29.	M.Tech (Applied Electronics)	Electronics & Communication Engineering	2003	40	18	2018	Yes	Eligible but not Applied
30.	M.Tech (VLSI Design)	Electronics & Communication Engineering	2003	70	18	2018	Yes	Eligible but not Applied
31.	M.Tech (Computer Science	Computer Science and Engineering	2002	18	18	***	Yes	Eligible but not Applied

	and Engineering)							
32.	M.Tech (Information Technology)	Information Technology	2003	50	18	2018	Yes	Eligible but not Applied
33.	M.Tech (Industrial Bio Technology)	Industrial Bio Technology	2004	18	18	***	Yes	Eligible but not Applied
34.	M.Tech (Bio Informatics)	Industrial Bio Technology	2016	18	18	***	Yes	Eligible but not Applied
35.	M.Tech (Biomedical Engineering)	Biomedical Engineering	2011	18	18	***	Yes	Eligible but not Applied
36.	MBA	Management Studies	1992	60	120	2018	Yes	Granted Provisional accreditation for two/three years for the period (2002-2005)
37.	MCA	Computer Application	1995	60	60	***	Yes	Eligible but not Applied

8. Programs to be considered for Accreditation vide this application

S.NO	Program Name
1	B.Tech-Aeronautical Engineering
2.	B.Tech-Automobile Engineering
3.	B.Tech-Computer Science & Engineering
4.	B.Tech-Electronics& Communication Engineering
5.	Master of Business Administration

9. Total number of employees:

A. Regular Employees (Faculty and Staff):

Items	Gender	2018-2019		2017-2018		2016-2017	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	107	109	74	81	69	78
	F	133	136	86	91	82	91
Faculty in Maths, Science & Humanities Teaching in Engineering Programs	M	91	94	42	49	17	27
	F	165	169	79	85	32	39
Non Teaching Staff	M	89	97	79	94	54	69
	F	181	194	174	189	122	141

A. Contractual Staff Employees (Faculty and Staff): (Not Covered in Table A):

Items	Gender	2018-2019		2017-2018		2016-2017	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	5	5	2	2	1	1
	F	4	4	...	1	1	1
Faculty in Maths, Science & Humanities Teaching in Engineering Programs	M	11	11	5	5	2	2
	F	16	17	1	3	...	...
Non Teaching Staff	M	42	42	15	15	5	6
	F	36	39	18	21	11	12

10. Total number of Engineering Students:**Total number of Engineering (UG) Students**

Item	2018-2019	2017-2018	2016-2017
Total No. of Boys	1779	1998	817
Total No. of Girls	274	427	131
Total No. of Students	2053	2425	948

Total number of Engineering (PG) Students

Item	2018-2019	2017-2018	2016-2017
Total No. of Boys	72	31	108
Total No. of Girls	30	26	13
Total No. of Students	102	57	121

Total number of Management Students

Item	2018-2019	2017-2018	2016-2017
Total No. of Boys	65	82	63
Total No. of Girls	31	37	21
Total No. of Students	96	119	84

Total number of MCA Students

Item	2018-2019	2017-2018	2016-2017
Total No. of Boys	0	29	10
Total No. of Girls	0	7	8
Total No. of Students	0	36	18

11.Vision of the Institution:

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to inherit professional competence along with human dignity and transformation of community to keep pace with the global challenges so as to achieve holistic development.

12.Mission of the Institution:

- ❖ To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.
- ❖ To impart education and training to students for creating a better society with ethics and morals.
- ❖ To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry driven and institute oriented cooperation, globalization and international initiatives.
- ❖ To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value based education.
- ❖ To establish benchmark standards in professional practice in the fields of innovative and emerging areas in engineering, management, medicine, dentistry, nursing, physiotherapy and allied sciences.
- ❖ To imbibe human dignity and values through personality development and social service activities.

13. Contact Information of the Head of the Institution and NBA Coordinator, if designated:

(i) Name: Dr.J.Hameed Hussian

Designation: Dean Engineering

Mobile No:9444011127

E Mail Id: deanengg@bharathuniv.ac.in

(ii) NBA Coordinator: Dr.S.Neduncheliyan

Designation: Professor & Dean

Mobile No: 9994560523

E Mail Id: dean.cse@bharathuniv.ac.in

1.1 State the Vision and Mission of the Department and Institute Vision and Mission of the Institute

Vision:

“Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to inherit professional competence along with human dignity and transformation of community to keep pace with the global challenges so as to achieve holistic development.”

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- To establish benchmark standards in professional practice in the fields of innovative and emerging areas in engineering, management, medicine, dentistry, nursing, physiotherapy and allied sciences.
- To imbibe human dignity and values through personality development and social service activities.

Vision and Mission of the Department

Vision:

Department of Computer Science and Engineering envisions and constantly strives to provide an excellent academics and faculty to inherit a professional competence along with high technical knowledge, communication skills, human dignity and values cater to the needs of industries and research organization in global arena.

Mission:

M1: To mold the computer science and engineering graduates to global standards with expertise and knowledge to shoulder accountable position in the field.

M2: To provide hands-on experience in the advancements of the Computer Science and Engineering field which is required for the growing dynamic IT and ITES industries.

M3: To shape strong personal, technical, research, entrepreneurial, and leadership skills.

M4: To train knowledge in lifelong learning, professional ethics and contribution to the society.

Table 1.1.a Consistency of the Vision of Institute and Department

Components of Vision Statement of University	Components of Vision Statement of Department
“Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to inherit professional competence along with human dignity and transformation of community to keep pace with the global challenges so as to achieve holistic development.”	Department of Computer Science and Engineering envisions and constantly strives to provide an excellent academics and faculty to inherit a professional competence along with high technical knowledge, communication skills, human dignity and values cater to the needs of industries and research organization in global arena .

Table 1.1.b Consistency of Mission of the Institute with Department

Components of Mission Statement of University	Components of Mission Statement of Department
To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities .	To mold the computer science and engineering graduates to global standards with expertise and knowledge to shoulder accountable position in the field.
To impart education and training to students for creating a better society with ethics and morals.	To provide hands-on experience in the advancements of the Computer Science and Engineering field which is required for the growing dynamic IT and ITES industries.
To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry driven and institute-oriented cooperation, globalization and international initiatives.	To shape strong personal, technical, research, entrepreneurial, and leadership skills .
To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education .	
To establish benchmark standards in professional practice in the fields of innovative and emerging areas in engineering, management, medicine, dentistry, nursing, physiotherapy and allied sciences.	To provide hands-on experience in the advancements of the Computer Science and Engineering field which is required for the growing dynamic IT and ITES industries.

To imbibe human dignity and values through personality development and social service activities.	To train knowledge in lifelong learning, professional ethics and contribution to the society.

1.2. State the Program Educational Objectives (PEOs)

The Program Educational Objectives (PEOs) of the Computer Science and Engineering are listed below: The graduate after 3-5 years of programme completion will

PEO1: PREPARATION

To provide students with sound fundamental in Mathematical, Scientific and Engineering fundamentals necessary to formulate, analyse, and comprehend the fundamental concepts essential to articulate, solve and assess engineering problems and to prepare them for research & development and higher learning.

PEO2: CORE COMPETENCE

To apply critical reasoning, quantitative, qualitative, designing and programming skills, to identify, solve problems and to analyze the experimental evaluations, and finally making appropriate decisions along with knowledge of computing principles and applications and be able to integrate this knowledge in a variety of industry and inter-disciplinary setting.

PEO3: PROFESSIONALISM

To broaden knowledge to establish themselves as creative practicing professionals, locally and globally, in fields such as design, development, problem solving to production support in software industries and R&D sectors.

PEO4: SKILL

To provide better opportunity to become a future researchers / scientist with good communication skills so that they may be both good team-members and leaders with innovative ideas for a sustainable development.

PEO5: ETHICS

To be ethically and socially responsible solution providers and entrepreneurs in Computer Science and other engineering discipline.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders

The Vision and Mission are widely displayed at the following places:

- University website <https://www.bharathuniv.ac.in/>
- Curriculum / syllabus books

- HOD cabin
- Departmental Notice Boards
- Class Rooms
- Faculty Rooms
- Laboratories
- Lab Manual
- Display boards
- Brochures of National and International conferences, Seminars and Workshops
- Admission Brochures

The PEOs are displayed in:

- University websites (<https://www.bharathuniv.ac.in/>)
- Curriculum and Syllabus Copies
- Office of Dean / HoD
- Laboratories
- Laboratory Manuals
- Course Handout
- Prominent places in the department

Vision and Mission of the Department are conveyed to stakeholders as follows:

- Special sessions are organized before starting of the academic session, where faculty members and Lab staffs are explained the Vision and Mission.
- The Vision and Mission statements are explicitly communicated to the newly enrolled students and the parents during orientation and induction program.
- Alumni are updated about any changes during Alumni interaction.
- The statements are communicated to the industry/employers through presentations during industrial visits and with other industry-institute interactions.
- Additionally, dissemination of PEOs to various stakeholders of the program is done at the meetings of faculty members, Board of Studies (BOS) and Department Advisory Committee.

1.4. State the process for defining the Vision and Mission of the Department

The department establishes the vision and mission through a review process involving the stakeholders, the future scopes of the department and the societal requirements.

Step 1: Vision and Mission of the institution are taken as the guiding base.

Step 2: The Department Advisory Committee (DAC) collects data on current and future trends Related to the programs being run by the Department, and prepares a draft Vision / Mission statement.

Step 3: The draft statement is circulated among all stakeholders; students, alumni, employees, industry, management parents and professional bodies for suggestions.

Step 4: The views are analyzed and reviewed to check the consistency with the vision and mission of the institution as a whole.

Step 5: Departmental Advisory Committee (DAC) finalizes the Vision & Mission statements

Step 6: DAC endorses the final of vision and mission statements, and submits to the HOD with a copy to Dean CSE and PRO-VC office.

Departmental Advisory Committee (DAC) comprises the following members:

- Head of the Department - Chairperson
- Dean / School of Computing
- Professors, Associate Professors in the department associated with the program
- External Academicians - 1
- Industry Experts – 1

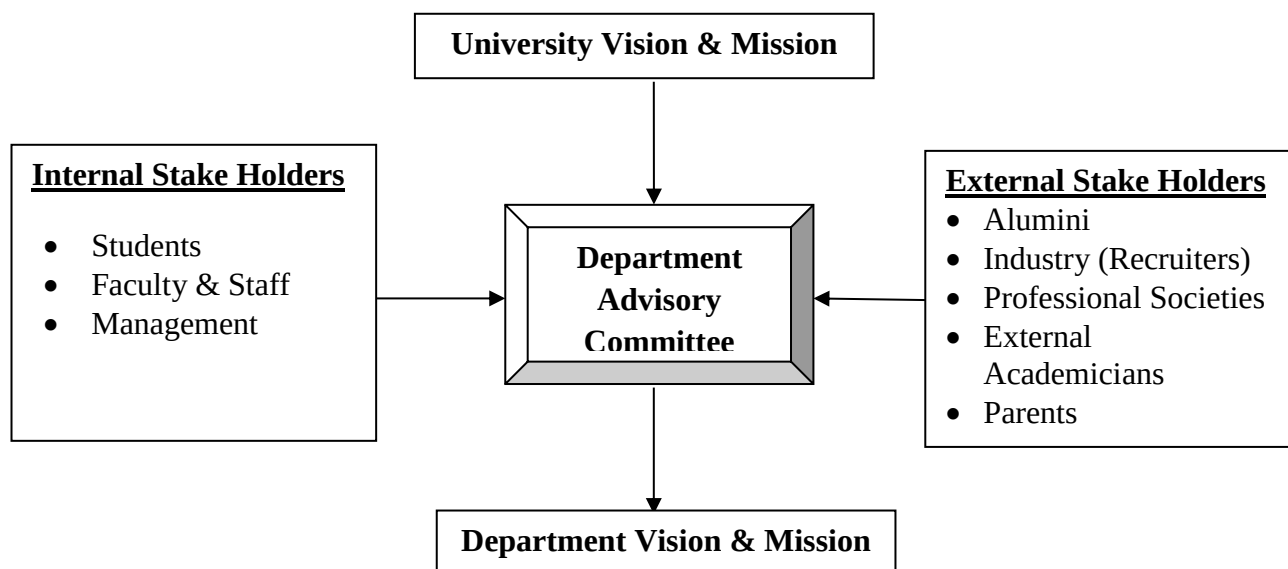


Figure 1.4.a Process for defining the Vision and Mission of the Department

(Articulate the process involved in defining the Vision and Mission of the department and PEOs of the program.)

- Department of Computer Science and Engineering defined the vision and mission involving all the stake holders, considering the vision and mission of the institute is finalized with Dean (School of Computing), Pro Vice Chancellor (Academics) and external experts.
- The process for defining the vision and mission of the department is as mentioned below; Series of meeting with students and staff, collecting feedback from industry, alumni parents are made. Discussion/meetings with Institutional members who are maintaining vision and mission to derive the department vision and mission.
- The process of defining vision and mission of Department of Computer Science & Engineering is shown in below figure.

State the process for defining PEOs of the Programme

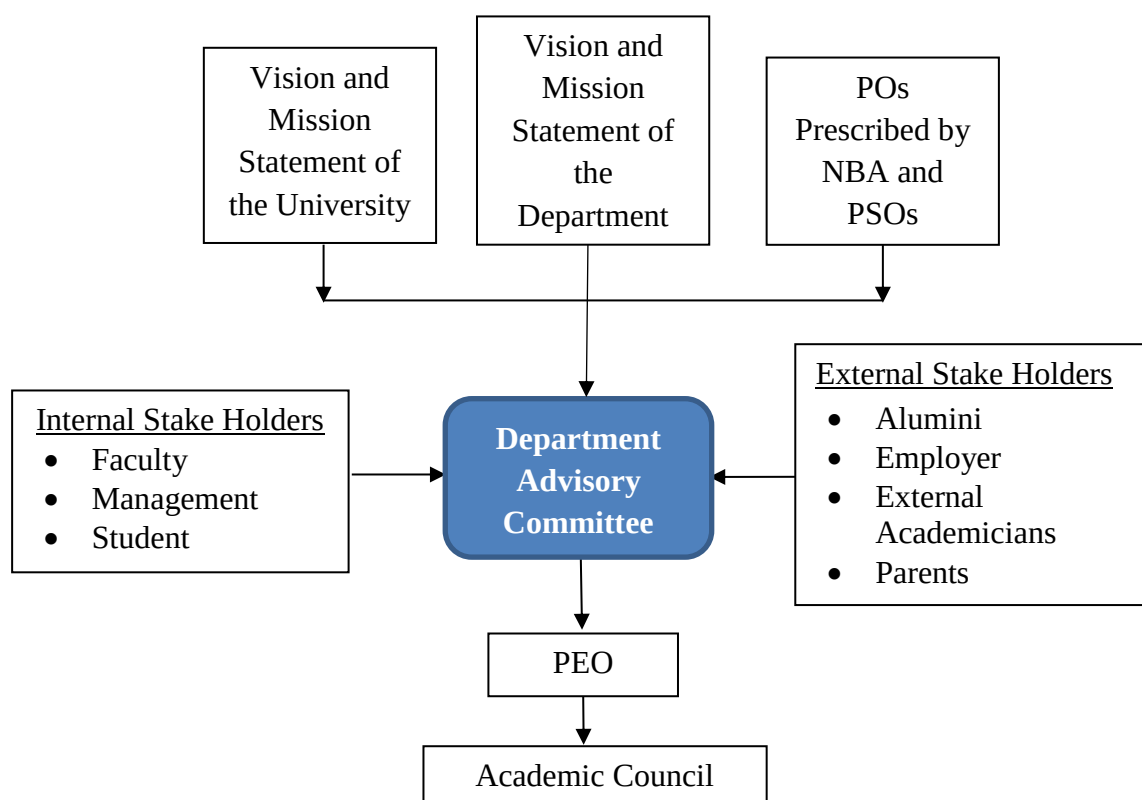


Figure 1.4.b Process for defining PEOs of the Programme

1.5. Establish consistency of PEOs with Mission of the Department

(Generate a “Mission of the Department – PEOs matrix” with justification and rationale of the mapping).

To make the PEO’s consistent with Mission of the department a balanced composition of basic sciences, professional core subjects, electives, laboratory and project work are

designed. Additional efforts are made to impart knowledge through covering aspects through contents beyond syllabi.

Table 1.5 Consistency of PEOs with Mission of the Department

	M1	M2	M3	M4
PEO1	√	√		
PEO2	√	√	√	
PEO3	√	√	√	
PEO4	√		√	√
PEO5				√

PEO1 maps substantially with **M1** in which the department has well qualified faculty members who impart knowledge aligned with choice-based credit system with outcome-based education through innovative teaching pedagogies.

PEO2 is concerned with the design of software system maps substantially with **M2** because most of the faculty members are involved in latest technologies and students are also encouraged to take up research by publishing papers, develop a new product and filing patents.

The department invites external experts to conduct interdisciplinary seminars /workshops, industry expert talks, and industrial visits makes **PEO2** to map substantially with **M2**.

PEO3 maps with **M2** and **M3** as students are given an opportunity to work in multi-discipline projects to work individually or as team members.

PEO4 maps with **M3** since the activities like **Industrial visit**, Internship, summer training helps students to work in multi-disciplinary projects with professional practices, Co-curricular and Extra-curricular activities maps **PEO5** substantially with **M4**.

PEO5 maps with **M4** as students exhibit professionalism, ethicality, team-work and leading qualities and interpersonal skills.



1.1 State the Vision and Mission of the Department and Institute Vision and Mission of the Institute

Vision

- Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

Missions

- To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.
- To impart education and training to students for creating a better society with ethics and morals.
- To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.
- To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.
- To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.
- To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.
- To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content



- Funding / incubation entrepreneurial ideas, Flipped class room – Integrated Courses & Need based learning.

Vision and Mission of the Department

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To imbibe human dignity and values through **personality development** and social service activities.

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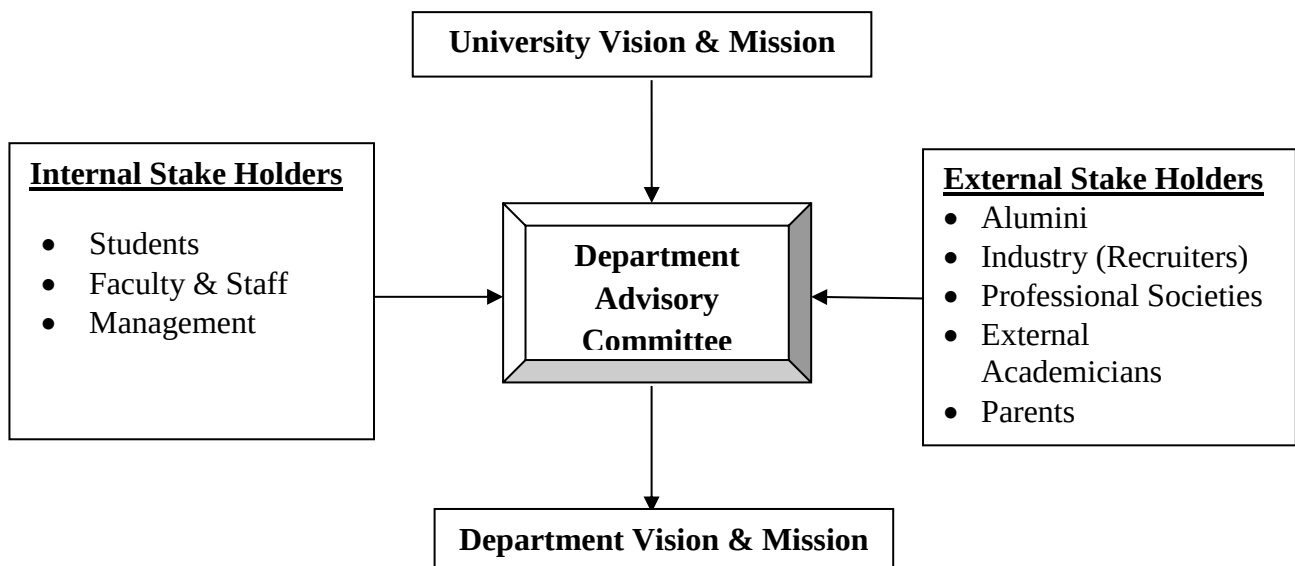


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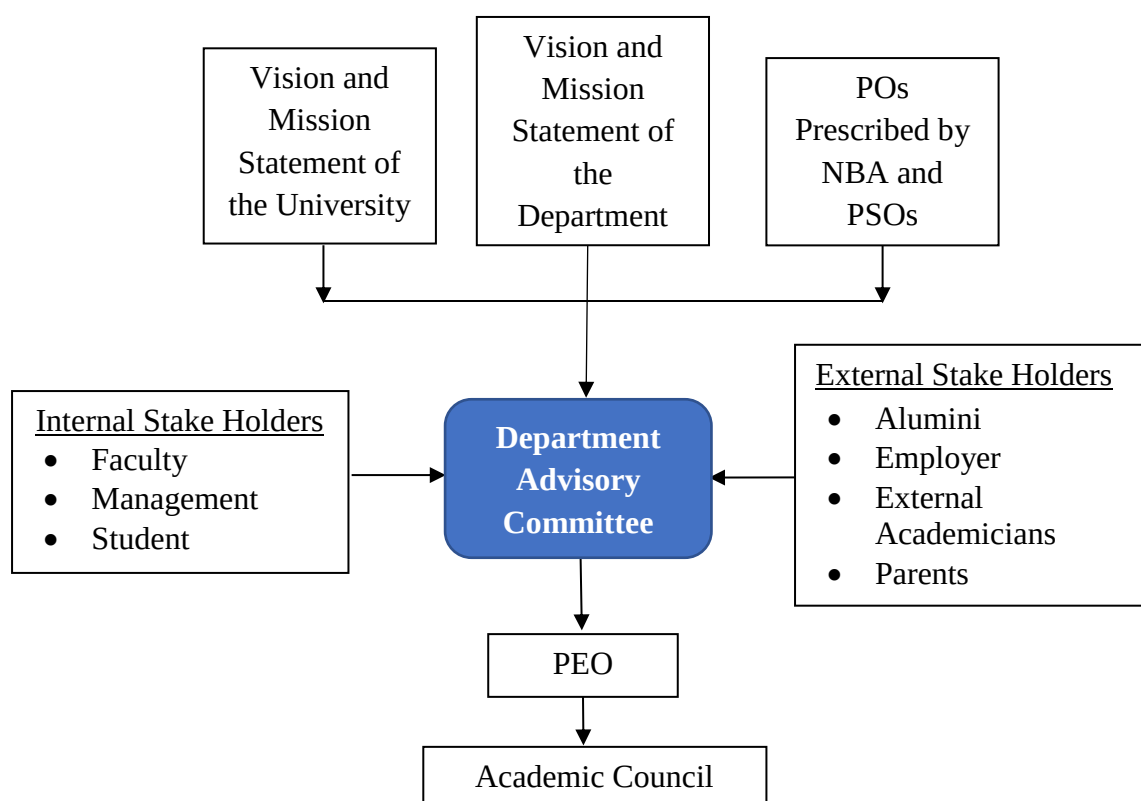


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1.5. Establish consistency of PEOs with Mission of the Department

(Generate a “Mission of the Department – PEOs matrix” with justification and rationale of the mapping).

To make the PEO’s consistent with Mission of the department a balanced composition of basic sciences, professional core subjects, electives, laboratory and project work are



designed. Additional efforts are made to impart knowledge through covering aspects through contents beyond syllabi.

Table 1.5 Consistency of PEOs with Mission of the Department

	M1	M2	M3	M4
PEO1	√	√		
PEO2	√	√	√	
PEO3	√	√	√	
PEO4	√		√	√
PEO5				√

- **PEO1** maps substantially with **M1** in which the department has well qualified faculty members who impart knowledge aligned with choice-based credit system with outcome-based education through innovative teaching pedagogies.
- **PEO2** is concerned with the design of software system maps substantially with **M2** because most of the faculty members are involved in latest technologies and students are also encouraged to take up research by publishing papers, develop a new product and filing patents.
- The department invites external experts to conduct interdisciplinary seminars /workshops, industry expert talks, and industrial visits makes **PEO2** to map substantially with **M2**.
- **PEO3** maps with **M2** and **M3** as students are given an opportunity to work in multi-discipline projects to work individually or as team members.
- **PEO4** maps with **M3** since the activities like **Industrial visit**, Internship, summer training helps students to work in multi-disciplinary projects with professional practices, Co-curricular and Extra-curricular activities maps **PEO5** substantially with **M4**.
- **PEO5** maps with **M4** as students exhibit professionalism, ethicality, team-work and leading qualities and interpersonal skills.



CRITERION 2	PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES	100

2.1 Program Curriculum

2.1.1 State the process for designing the Program Curriculum (10)

Bharath Institute of Science and Technology (BIST) is an autonomous institution affiliated under Bharath Institute of Higher Education and Research (BIHER), Chennai. The B.Tech Computer Science and engineering curriculum is framed as per the suggestions given by the expert members of board of studies and is approved by the same.

In general, Curriculum maintains the well balanced composition of Humanities and Social Sciences(HS): Soft skills, Value Education & Professional Ethics, Languages, Aptitude, Personality Development, NCC/NSS/NSO/ Yoga etc, Maths & Basic Sciences(BS): including Maths, Physics, Chemistry, Biology and Environmental Science, Engineering Sciences (ES): Basic Civil Engg, Electrical Engg, Mechanical Engg, Electronics Engg, Computer, etc., Professional Core (PC) & Core Electives (CE): subjects under Core Engg, relevant to the chosen specialization/branch, Non Major and Open Electives (NE & OE): relevant to the chosen specialization/branch, other Technical, emerging subject areas, etc., Project Work & Research (PR): includes Project work, Term Paper, Seminar and/or internship in industry or elsewhere, etc., Professional Elective (PE) and Engineering Electives (EE). The feedback from the alumni members, faculty, students, employers, industry experts and Government Agency were taken and the short-comings were identified along with the data collected from IIT's and other reputed National & International universities through their websites. Analysis is done for attaining the PO/PSO's through the curriculum. Then the curriculum and syllabus are presented to the Board of studies expert members for approval. The final approval of curriculum and syllabus is done by Institute academic council committee, as and when required.

Step-1: Program Assessment Committee (PAC) prepares draft curriculum / curricular changes based on the following:

- Department Vision and Mission
- Program Educational Objectives
- Inputs obtained from stakeholders
- Conclusions drawn from analysis of attainment of COs, POs, PSOs
- Benchmarking of curriculum against same/ similar program(s) run by leading educational institutions including IITs, NITs, Best Private and Foreign Universities.

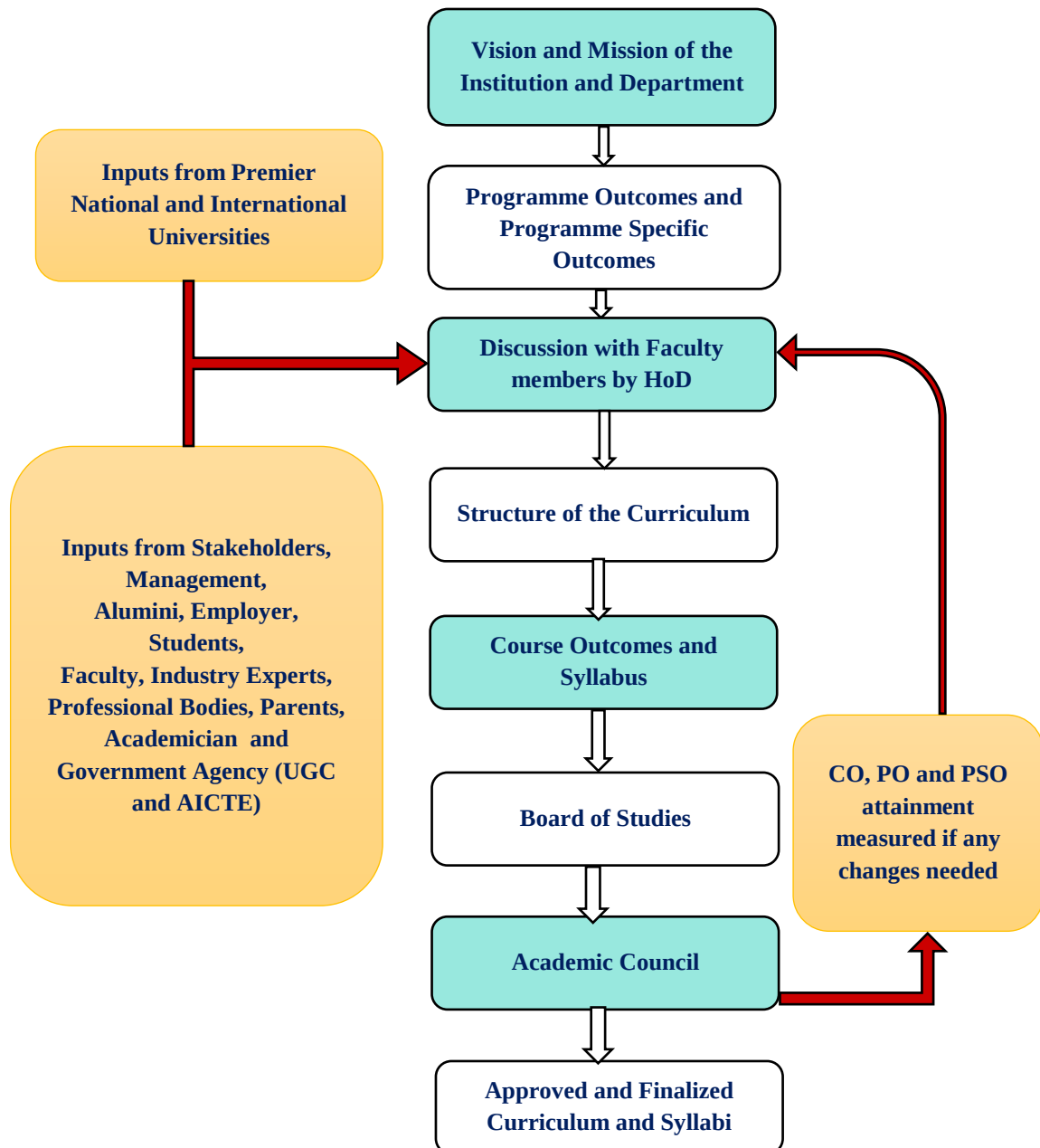
- Guidelines of statutory bodies, such as, AICTE / UGC

Step-2: Conduct pre-Board of Studies (pre-BoS) meeting to discuss the draft curriculum and recommend necessary changes.

Step-3: Conduct Board of Studies (BoS) meeting to finalize the curriculum and syllabi.

Step-4: Hold post BoS meeting to ensure the incorporation in curriculum and syllabi.

Step-5: Submit the final curriculum for approval to Academic Council.



Process for Designing the Program Curriculum

2.1.2 Structure of the Curriculum



Curriculum for the regulations 2020,2018 and 2015 are given below, as the latest graduated batch (2016-20) followed these regulations. The curriculums for the other regulations are given below.

S.NO	REGULATION	BATCH
1	2020	2020-2024
2	2018	2019-2023
		2018-2022
3	2015	2017-2021
		2016-2020
		2015-2019

CURRICULUM - 2015

SEMESTER I							
COURSE CODE	CC	COURSE TITLE	L	T	P	TCH	C
THEORY							
BEN101	HS	English – I	3	1	0	4	3
BMA101	BS	Mathematics – I	3	1	0	4	3
BPH101	BS	Engineering Physics - I	3	0	0	3	3
BCH101	BS	Engineering Chemistry – I	3	0	0	3	3
BCS101	ES	Fundamentals of Computing and Programming	3	0	0	3	3
BFI201	HS	Foreign/Indian Language	3	0	0	3	3
BME102	ES	Engineering Graphics – C	1	0	3	4	3
BEE101	ES	Basic Electrical and Electronics Engineering	2	0	0	2	2
PRACTICAL							
BCS1L1	ES	Computer Practice Laboratory –I	0	0	3	3	1
BEE1L1	ES	Basic Electrical and Electronics Engineering Practices Laboratory	0	0	3	3	1
BPC1L1/2L1	BS	Physics and Chemistry Laboratory	0	1	2	3	1
BSS1L7	HS	Yoga	0	0	3	3	0
						Total	38
							26
SEMESTER II							
THEORY							
BEN201	HS	English-II	3	1	0	4	3
BMA201	BS	Mathematics –II	3	1	0	4	3
BPH201	BS	Engineering Physics –II	3	0	0	3	3



BCH201	BS	Engineering Chemistry – II	3	0	0	3	3
BCS202	ES	Internet programming	2	0	0	2	2
BSS2L2	HS	Personality Development	2	0	0	2	2
BBT202	BS	Biology for Engineers	2	0	0	2	2
BME201	ES	Basic Mechanical Engineering	2	0	0	2	2
BCE201	ES	Basic Civil Engineering	2	0	0	2	2
PRACTICAL							
BCS2L1	ES	Internet Practices lab	0	0	3	3	1
BCM2L1	ES	Basic Civil & Mechanical Engg. Practices Lab	0	0	3	3	1
BPC2L1	BS	Physics and Chemistry Lab	0	0	3	3	1
BSS2L4/ BSS2L5/ BSS2L6	HS	NSS/NCC/NSO (to be conducted during weekends)	0	0	3	3	0
Total						36	26
SEMESTER- III							
THEORY							
BMA301	BS	Mathematics – III	3	2	0	5	4
BCS301	PC	Data Structures	3	0	0	3	3
BCS302	PC	System Modeling and Simulation	3	0	0	3	3
BCS303	PC	Computer Organization and Architecture	3	0	0	3	3
BCS304	PC	Digital Computer Fundamentals	3	0	0	3	3
BEC305	PC	Electronics Circuits	3	0	0	3	3
PRACTICAL							
BCS3L1	PC	Data Structures using C Laboratory	0	0	3	3	2
BCS3L2	PC	Object Oriented Programming using C++ Laboratory	0	0	3	3	2
BEC3L2	PC	Electronics Circuits Laboratory	0	0	3	3	2
BCS3S1	PR	Technical Seminar – I	0	0	2	2	1
Total						31	26
SEMESTER- IV							
THEORY							
BMA402	BS	Numerical Methods	3	2	0	5	4
BCS401	PC	Database Management System	3	0	0	3	3
BCS402	PC	Design and Analysis of Algorithm	3	0	0	3	3
BCS 403	PC	System Software	3	0	0	3	3
BCS405	PC	Operating Systems	3	0	0	3	3
BCE406	BS	Environmental Studies	3	0	0	3	3
PRACTICAL							
BCS4L1	PC	DBMS Laboratory	0	0	3	3	2
BCS4L2	PC	Operating Systems Laboratory	0	0	3	3	2
BCS4L3	PC	Computer Graphics and Multimedia Laboratory	0	0	3	3	2
BCS4S1	PR	Technical Seminar-II	0	0	2	2	1



							Total	31	26
SEMESTER-V									
THEORY									
BMA501	BS	Discrete Mathematics	4	0	0	4	4		
BCS501	PC	Software Engineering	3	0	0	3	3		
BEC501	PC	Microprocessors and its applications	3	0	0	3	3		
BCS502	PC	Computer Networks	3	0	0	3	3		
BCS5E1	CE	Core Elective-I	3	0	0	3	3		
BCS5E2	OE	Open Elective-I	3	0	0	3	3		
PRACTICAL									
BCS 5L1	PC	Networking Laboratory	0	0	3	3	2		
BEC5L1	PC	Microprocessor Laboratory	0	0	3	3	2		
BCS5L2	PC	Software Engineering Laboratory	0	0	3	3	2		
BCS5C1	PR	Comprehension I	0	0	2	2	1		
							Total	30	26
SEMESTER-VI									
THEORY									
BCS601	PC	Data Warehousing and Data Mining	3	0	0	3	3		
BSS601	HS	Value Education and Professional Ethics	3	0	0	3	3		
BCS602	PC	Distributed Computing	3	0	0	3	3		
BCS603	PC	Principles of Compiler Design	3	0	0	3	3		
BCS6E3	CE	Core Elective- II	3	0	0	3	3		
BCS6E4	NE	Non Major Elective-I	3	0	0	3	3		
PRACTICAL									
BCS6L1	PC	Data Warehousing and Data Mining Laboratory	0	0	3	3	2		
BCS6L2	PC	C # and .Net Laboratory	0	0	3	3	2		
BCS6L3	PC	Programming in Java Laboratory	0	0	3	3	2		
BCS6P1	PR	Mini Project	0	0	3	3	1		
							Total	30	25
SEMESTER-VII									
THEORY									
BCS701	PC	Grid and Cloud Computing	3	0	0	3	3		
BCS702	PC	Mobile and Pervasive Computing	3	0	0	3	3		
BCS703	PC	Web Technology	3	0	0	3	3		
BCS704	PC	Artificial Intelligence and Expert System	4	0	0	4	4		
BCS7E5	OE	Open Elective -II	3	0	0	3	3		
BCS7E6	NE	Non Major Elective- II	3	0	0	3	3		
PRACTICAL									
BCS7L1	PC	Grid and Cloud Computing Laboratory	0	0	3	3	2		
BCS7L2	PC	Web Technology Laboratory	0	0	3	3	2		
BCS7P1	PR	Term Paper	0	0	4	4	2		
							Total	35	25
SEMESTER-VIII									



THEORY							
BCS8E7	CE	Core Elective-III	3	0	0	3	3
BCS8E8	NE	Non Major Elective-III	3	0	0	3	3
PRACTICAL							
BCS8C1	PR	Comprehension II	0	0	2	2	1
BCS8P1	PR	Project Work	0	0	18	18	9
						Total	26 16
OVERALL CREDITS FOR THE PROGRAMME : 196							



LIST OF ELECTIVES						
CORE ELECTIVE(CE)- I						
COURSE CODE	COURSE NAME	L	T	P	TCH	CREDIT
BCS001	Parallel Computing	3	0	0	3	3
BCS002	Data Science	3	0	0	3	3
BCS003	Software Reliability	3	0	0	3	3
CORE ELECTIVE (CE)-II						
BCS004	VHDL	3	0	0	3	3
BCS005	Big Data Analytics	3	0	0	3	3
BCS006	Software Quality Assurance	3	0	0	3	3
CORE ELECTIVE(CE)- III						
BCS007	Computer Vision	3	0	0	3	3
BCS008	Bio Inspired Computing	3	0	0	3	3
BCS009	Real Time Software Testing	3	0	0	3	3
NON MAJOR ELECTIVE(NE)- I						
BET407	Digital Signal Processing	3	0	0	3	3
BET702	Cellular Mobile Communication	3	0	0	3	3
BBR701	Bio Safety, Bio Ethics, IPR Patents	3	0	0	3	3
BBM405	Biosensors and Transducer	3	0	0	3	3
BBM054	Bio Informatics	3	0	0	3	3
NON MAJOR ELECTIVE(NE)- II						
BET603	Telecommunication Switching Networks	3	0	0	3	3
BET605	Telecommunication Switching and System Modelling	3	0	0	3	3
BBA001	Principles of Management and Organizational Behaviour	3	0	0	3	3
BBM701	Digital and Medical Image Processing	3	0	0	3	3
BBM604	Medical Informatics	3	0	0	3	3
NON MAJOR ELECTIVE(NE)- III						
BET301	Principles of Analog and Digital System	3	0	0	3	3
BEC405	Linear Integrated Circuits	3	0	0	3	3
BET703	Satellite Communication	3	0	0	3	3
BBM055	Telemedicine	3	0	0	3	3
BBR 404	Genomics and Proteomics	3	0	0	3	3
OPEN ELECTIVE(OE) –I						
BCS010	TCP / IP Principles and Architecture	3	0	0	3	3
BCS011	Performance Evaluation in Computer Systems	3	0	0	3	3
BCS012	Advanced Computer Networks	3	0	0	3	3
BCS013	Mobile Communication	3	0	0	3	3
BCS014	High Speed Networks	3	0	0	3	3
BBA009	Intellectual Property Rights	3	0	0	3	3



BSS001	NSS Paper I	2	0	2	4	3
OPEN ELECTIVE(OE) –II						
BCS015	PHP Programming	3	0	0	3	3
BCS016	Virtual Reality	3	0	0	3	3
BCS017	E Commerce	3	0	0	3	3
BCS018	Advanced Web Design	3	0	0	3	3
BCS019	Object Oriented Database Design	3	0	0	3	3
BSS002	NSS Paper II	2	0	2	3	3
BMO001	Massive Open Online Course	3	0	0	3	3

CURRICULUM 2018

SEMESTER I

COURSE CODE	CC	COURSE TITLE	L	T	P	TCH	C
THEORY							
U18HSEN101	HS	Communicative English	3	0	0	3	3
U18BSMA101	BS	Engineering Mathematic- I	3	1	0	4	4
U18BSPH101	BS	Waves and Optics	3	0	0	3	3
U18BSCH101	BS	Engineering Chemistry	3	0	0	3	3
U18ESEE101	ES	Basic Electrical and Electronics Engineering	3	0	0	3	3
U18BSBT101	BS	Biology for Engineers	2	0	0	2	2
PRACTICAL							
U18BSPH2L2	BS	Wave Optics and Semi Conductor Physics Lab	0	0	2	2	0
U18BSCH2L4	BS	Chemistry Lab	0	0	2	2	0
U18ESME1L2	ES	Workshop/Manufacturing Practices Laboratory	3	0	0	3	3
U18ESEE1L3	ES	Basic Electrical and Electronics Engineering Practices Laboratory	0	0	4	4	2
ACTIVITY BASED COURSES							
U18MCAB203	MC	Yoga	0	0	2	2	0
U18MCAB204	MC	Physical health – NCC	0	0	2	2	0
						Total	33
							23

SEMESTER II

THEORY							
U18HSEN201	HS	Technical English	3	0	0	3	3
U18BSMA201	BS	Engineering Mathematics- II	3	1	0	4	4
U18BSPH202	BS	Semi Conductor Physics	3	0	0	3	3
U18BSCH201	BS	Environmental Sciences	3	0	0	3	3
U18ESCS101	ES	Problem Solving and Python Programming	3	0	0	3	3
U18ESME101	ES	Engineering Graphics & Design	3	0	0	3	3
PRACTICAL							
U18BSPH2L2	BS	Wave Optics and Semi Conductor Physics Lab	0	0	4	4	2
U18BSCH2L4	BS	Chemistry Lab	0	0	4	4	2
U18ESCS1L1	ES	Problem Solving and Python Programming Lab	0	0	4	4	2
ACTIVITY BASED COURSES							
U18MCAB102	MC	Yoga	0	0	2	2	0



U18MCAB101	MC	Physical health – NCC	0	0	2	2	0
Total						35	25
SEMESTER III							
THEORY							
U18BSMA303	BS	Probability and Statistics	3	1	0	4	4
U18PCCS301	PC	Data Structures & Algorithm	3	0	0	3	3
U18PCCS302	PC	Object Oriented Programming	3	0	0	3	3
U18PCCS303	PC	Computer Organization & Architecture	3	0	0	3	3
U18ESEC303	ES	Digital Electronics	3	0	0	3	3
PRACTICAL							
U18PCCS3L1	PC	Data Structures and Algorithm Laboratory	0	0	4	4	2
U18PCCS3L2	PC	Object Oriented Programming Lab	0	0	4	4	2
U18ESEC3L3	ES	Digital Electronics Laboratory	0	0	4	4	2
ACTIVITY BASED COURSES							
U18MCAB305	MC	Culture- Learning an art form	0	0	2	2	0
U18MCAB306	MC	Culture – Intangible Cultural, heritage(festivals, Food ways, Local games)	0	0	2	2	0
Total						32	22
SEMESTER IV							
THEORY							
U18BSMA403	BS	Discrete Mathematics	3	1	0	4	4
U18PCCS401	PC	Cloud Computing	3	0	0	3	3
U18PCCS402	PC	Design and Analysis of Algorithm	3	0	0	3	3
U18PCCS403	PC	Data Base Management System	3	0	0	3	3
U18PCCS404	PC	Operating Systems	3	0	0	3	3
U18PCCS405	PC	Formal Language and Automata Theory	3	0	0	3	3
U18MCTH502	MC	Universal Human Values	0	0	2	2	0
PRACTICAL							
U18PCCS4L1	PC	Operating System Laboratory	0	0	4	4	2
U18PCCS4L2	PC	Design and Analysis of Algorithm Laboratory	0	0	4	4	2
U18PCCS4L3	PC	DBMS Lab	0	0	4	2	2
ACTIVITY BASED COURSES							
U18MCAC407	MC	Literature & Media –Literature, Cinema & Media	0	0	2	2	0
U18MCAC408	MC	Literature & Media – Group Reading of Classics	0	0	2	2	0
Total						35	25
SEMESTER V							
THEORY							
U18PCCS501	PC	Artificial Intelligence	3	0	0	3	3
U18PCCS502	PC	Software Engineering	3	0	0	3	3
U18PCCS503	PC	Functional Programming	3	0	0	3	3
U18PCCS504	PC	Computer Networks	3	0	0	3	3
U18HSBA501	HS	Organizational Behaviour	3	0	0	3	3
U18BSCH501	MC	Constitution of India	0	0	2	2	0
U18PECS5E1	PE	Professional Elective-I	3	0	0	3	3



PRACTICAL									
U18PCCS5L1	PC	Software Engineering Laboratory	0	0	4	4	2		
U18PCCS5L2	PC	Network Programming Laboratory	0	0	4	4	2		
U18PCCS5L3	PC	Functional Programming Laboratory	0	0	4	4	2		
U18EECS5S1	PR	Comprehension-I	0	0	0	0	1		
ACTIVITY BASED COURSES									
U18MCAB509	MC	Self Development -Spriritual -Mindfulness & Meditation	0	0	2	2	0		
U18MCAB510	MC	Self Development-Religion and Inter-faith	0	0	2	2	0		
						Total	36	25	
SEMESTER VI									
THEORY									
U18PCCS601	PC	Compiler Design	3	0	0	3	3		
U18PCCS602	PC	Object Oriented Software Engineering	3	0	0	3	3		
U18PECS6E2	PE	Programme Elective-II	3	0	0	3	3		
U18PECS6E3	PE	Programme Elective-III	3	0	0	3	3		
U18PECS6E1	OE	Open Elective-I	3	0	0	3	3		
PRACTICAL									
U18PCCS6L1	PC	Compiler Design Laboratory	0	0	4	4	2		
U18PCCS6L2	PC	Object Oriented Software Engineering Laboratory	0	0	4	4	2		
U18PRCS6T1	EE	Term Paper	0	0	0	0	1		
U18EECS6S2	EE	Soft Skill	0	0	2	2	1		
ACTIVITY BASED COURSES									
U18MCAB609	MC	Social Service -Social Awareness	0	0	2	2	0		
U18MCAB610	MC	Social Service -NSS	0	0	2	2	0		
						Total	29	21	
SEMESTER VII									
THEORY									
U18PECS7E4	PE	Programme Elective-IV	3	0	0	3	3		
U18PECS7E5	PE	Programme Elective-V	3	0	0	3	3		
U18OECS7E2	OE	Open Elective-II	3	0	0	3	3		
U18PCCS701	PC	Big Data Analytics	3	0	0	3	3		
U18MCTH603	MC	Essence of Indian Knowledge Tradition	0	0	2	2	0		
PRACTICAL									
U18PRCS7P1	EE	Project-I	3	0	0	3	3		
U18PCCS7L1	PC	Big Data Analytics Lab	0	0	4	4	2		
ACTIVITY BASED COURSES									
U18MCAB713	MC	Behavioral and interpersonal skills	0	0	2	2	0		
U18MCAB714	MC	Nature – Nature club	0	0	2	2	0		
						Total	25	17	
SEMESTER VIII									
THEORY									
U18PECS8E3	PE	Programme Elective-VI	0	0	0	3	3		
U18OECS8E3	OE	Open Elective-III	3	0	0	3	3		



U180ECS8E4	OE	Open Elective-IV (MOOC)	2	0	0	2	2
PRACTICAL							
U18PRCS8P1	EE	Project-II	0	0	18	18	9
ACTIVITY BASED COURSE							
U18MCAB815	MC	Innovation – Project based – Sc., Tech, Social, Design & Innovation	0	0	2	2	0
TOTAL						28	17

**PROGRAMME ELECTIVE –I (Semester V)**

COURSE CODE	SPECIALIZATION	COURSE TITLE	L	T	P	TCH	C
U18PECS011	Artificial Intelligence	Natural Language Processing	3	0	0	3	3
U18PECS012	Cyber Security	Network Information Security	3	0	0	3	3
U18PECS013	Data Science	Data Warehousing and Data Mining	3	0	0	3	3
U18PECS014	Computer Vision	Digital Image Processing	3	0	0	3	3
U18PECS015	High Performance Computing	Multicore Architecture	3	0	0	3	3
U18PECS016	Digital Transformation Engineering	Service Oriented Architectures	3	0	0	3	3

PROGRAMME ELECTIVE –II (Semester VI)

U18PECS021	Artificial Intelligence	Neural Networks	3	0	0	3	3
U18PECS022	Cyber Security	Software and Application Security	3	0	0	3	3
U18PECS023	Data Science	Machine Learning	3	0	0	3	3
U18PECS024	Computer Vision	Pattern Recognition and Soft computing	3	0	0	3	3
U18PECS025	High Performance Computing	High performance Computer Architecture	3	0	0	3	3
U18PECS026	Digital Transformation Engineering	Software Process and Project Management	3	0	0	3	3

PROGRAMME ELECTIVE –III (Semester VI)

U18PECS031	Artificial Intelligence	Case based Reasoning	3	0	0	3	3
U18PECS032	Cyber Security	Cyber Forensics	3	0	0	3	3
U18PECS033	Data Science	Data Analytics	3	0	0	3	3
U18PECS034	Computer Vision	Augmented Reality	3	0	0	3	3
U18PECS035	High Performance Computing	Parallel and Distributed Computing	3	0	0	3	3
U18PECS036	Digital Transformation Engineering	Software Architecture Design	3	0	0	3	3

PROGRAMME ELECTIVE –IV (Semester VII)



U18PECS041	Artificial Intelligence	Advanced deep learning and computer vision	3	0	0	3	3
U18PECS042	Cyber Security	Ethical Hacking	3	0	0	3	3
U18PECS043	Data Science	Web Mining	3	0	0	3	3
U18PECS044	Computer Vision	Information Visualization	3	0	0	3	3
U18PECS045	High Performance Computing	Network Applications and Services	3	0	0	3	3
U18PECS046	Digital Transformation Engineering	Software Analysis and Testing	3	0	0	3	3
PROGRAMME ELECTIVE –V (Semester VII)							
U18PECS051	Artificial Intelligence	Cognitive modeling	3	0	0	3	3
U18PECS052	Cyber Security	Web Security	3	0	0	3	3
U18PECS053	Data Science	Data and Visual Analytics	3	0	0	3	3
U18PECS054	Computer Vision	Deep Learning in Computer Vision	3	0	0	3	3
U18PECS055	High Performance Computing	High Performance Computing Architecture	3	0	0	3	3
U18PECS056	Digital Transformation Engineering	Business Intelligence	3	0	0	3	3
PROGRAMME ELECTIVE –VI (Semester VIII)							
U18PECS061	Artificial Intelligence	Augmented Reality	3	0	0	3	3
U18PECS062	Cyber Security	Block Chain Technology	3	0	0	3	3
U18PECS063	Data Science	Big Data for Healthcare	3	0	0	3	3
U18PECS064	Computer Vision	Medical Imaging and Inverse Problems	3	0	0	3	3
U18PECS065	High Performance Computing	High Performance Computing Tools and Applications	3	0	0	3	3
U18PECS066	Digital Transformation Engineering	Enterprise Application Integration	3	0	0	3	3



2.1.3. State the components of the curriculum

REGULATION 2015

STRUCTURE OF PROGRAMME

- Every Programme will have curricula with syllabi consisting of theory and practical courses.
- The curriculum is structured to achieve the Programme Educational Objectives (PEOs) and the corresponding Programme Outcomes (POs).
- The syllabus for each course is designed based on Course Objectives and Course Outcomes (COs). COs are mapped with the POs in order to ensure the respective PO.

COMPONENTS OF THE CURRICULUM

- a. **Humanity and Social Studies:** Generally, a course in language, value education, Personality Development, Environmental Sciences and Ethics.
- b. **Basic Sciences:** Foundation courses like Maths, Physics, Chemistry, and Biology required to understand the Engineering Courses.
- c. **Engg Sciences:** Foundation courses like Basic Civil, Mechanical, Electrical, Electronics, Computer and Cell Biology to lay foundation to understand the core and other allied engineering & technology courses.
- d. **Professional Core Courses:** Courses which should compulsorily be studied by a candidate as core requirement are termed as Professional Core courses.
- e. **Core Elective Courses:** Generally a course which can be chosen from a pool of courses for specializing in a specific area within the discipline/domain of the core curriculum.
- f. **Non Major Elective Courses:** a course which can be chosen from a pool of courses supportive to the discipline or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill.
- g. **Open Elective Courses:** a course that would improve his/her employability such as advanced technology courses offered by the industries or a course which the student thinks that would add value for his/her career.
- h. **Projects & Research:** Project work/Dissertation and Term paper, Internship, Technical Seminar and Comprehension.

The details of credit allocation are given below :

Nature of the Course	Periods / Hours per Week	Credits
Theory	3	3
	4	4
Laboratory	2 or 3	1
Theory + Laboratory	2 + 2	3
Tutorial	2	1
Mini Project1	2	1
Term Paper	4	2

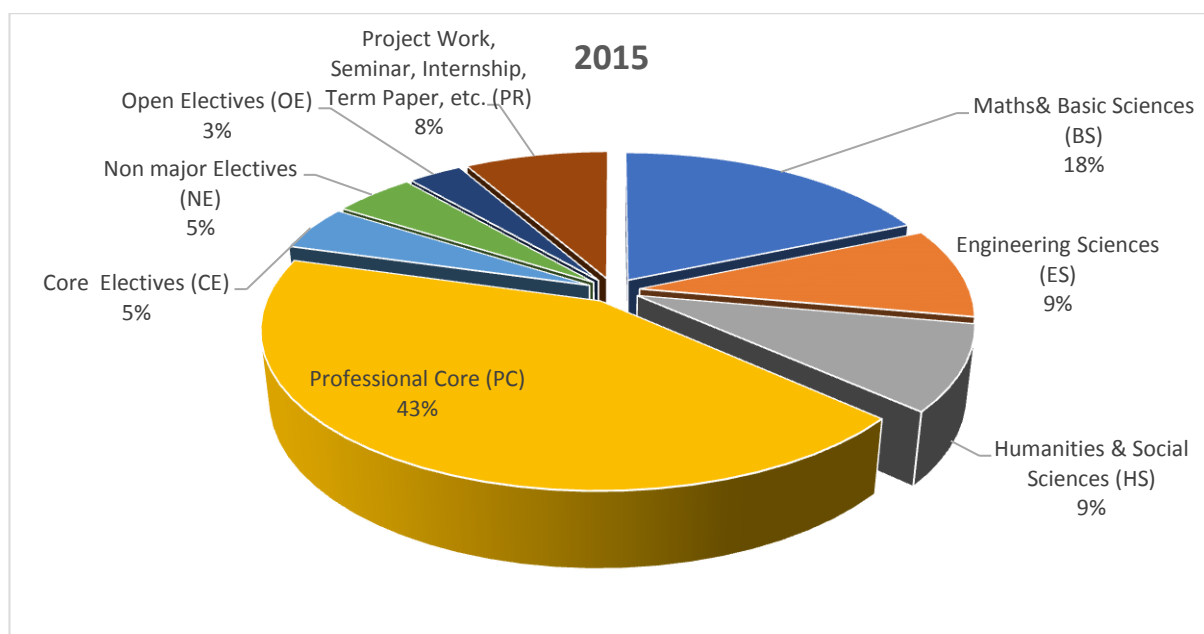
Tech Seminar/Industrial Training (2 weeks)	2	1
Project Work (Eighth Semester)	18 (Minimum)	9

- Mini project, Technical Seminar and Industrial Training are also given 1 to 2 credits depending on the amount of time allotted based on the specific requirement of the branch concerned.
- Each semester curriculum shall normally have a blend of theory courses not exceeding 7 and practical courses not exceeding 4. The students are permitted to register for a minimum of 16 credits and maximum of 30 credits in a semester.
- For the award of the degree, a student has to earn certain minimum total number of credits specified in the curriculum of the relevant branch of study. The minimum will be between 195-200 credits depending on the branch of study.
- The medium of instruction, examinations and project report will be English, except for courses on language other than English.

SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S.No	Sub Area	Credit As per Semester								No. of Credit	% of credit
		I	II	III	IV	V	VI	VII	VIII		
1	Humanities & Social Sciences (HS)	7	6	-	-	-	3	-	-	16	08.63
2	Maths & Basic Sciences (BS)	9	12	4	7	4	-	-	-	36	18.37
3	Engineering Sciences (ES)	10	8	-	-	-	-	-	-	18	09.18
4	Professional Core (PC)	-	-	21	15	15	15	17	-	83	42.35
5	Core Electives (CE)	-	-	-	-	3	3		3	9	04.59
6	Non major Electives (NE)	-	-	-	-	-	3	3	3	9	04.59
7	Open Electives (OE)	-	-	-	-	3	-	3	-	6	03.06
8	Project Work, Seminar, Internship, Term Paper, etc. (PR)	-	-	1	1	1	1	2	10	16	08.17
	Total Credit	26	26	26	26	26	25	25	16	196	100%
	Total Contact Hour	38	36	29	30	27	30	28	25	244 Hrs	

2015			
Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Maths& Basic Sciences (BS)	18.37	48	36
Engineering Sciences (ES)	09.18	27	18
Humanities & Social Sciences (HS)	08.63	22	16
Professional Core (PC)	42.35	100	83
Core Electives (CE)	04.59	9	9
Non major Electives (NE)	04.59	9	9
Open Electives (OE)	03.06	6	6
Project Work, Seminar, Internship, Term Paper, etc. (PR)	08.17	29	16
Total Number of Credits: 196			





STRUCTURE OF PROGRAMME

Range of Credits

A range of credits from 160 to 168 for a student to be eligible to get Under Graduate degree in Engineering. A student will be eligible to get Under Graduate degree with Honours, if he/she completes an additional 20 credits. These could be acquired through MOOCs.

Categorization of Courses

B. Tech. Programme has a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

Course Work – Subject Area	2018
	Distribution of Credits
Humanities and Social Sciences(HSS): Soft skills, Value Education & Professional Ethics, Languages, Aptitude, Personality Development, NCC/NSS/NSO/ Yoga etc	9
Maths & Basic Sciences(BS): including Maths, Physics, Chemistry, Biology and Environmental Science	38
Engineering Sciences (ES): Basic Civil Engg, Electrical Engg, Mechanical Engg, Electronics Engg, Computer, etc.	21
Professional Core (PC) & Core Electives (CE): subjects under Core Engg, relevant to the chosen specialization/branch	69
Non Major and Open Electives (NE & OE): relevant to the chosen specialization/branch, other Technical, emerging subject areas, etc.	8
Project Work & Research (PR): includes Project work, Term Paper, Seminar and/or internship in industry or elsewhere, etc.	13
Professional Elective	15
Engineering Electives	2
Total credits	175

Mandatory Courses & Activities (Non-Credit)

List of Activities and Mandatory Courses

The following physical activities shall be completed during the induction program which will be organized. List of Activities

- I. Physical and Health
 - I.1 Physical Activities
 - I.2 NCC
- II. Culture
 - II.1 Learning an art form
 - II.2 Heritage



- II.3 Intangible Cultural Heritage
- III. Literature & Media
 - III.1 Literature, Cinema and Media
 - III.2 Group reading of classics
- IV. Social Service
 - IV.1 Social Awareness
 - IV.2 Social Service
- V. Self Development
 - V.1 Spiritual, Mindfulness & Meditation
 - V.2 Religion and Inter-faith
 - V.3 Human Values
 - V.4 Behavioural and Interpersonal skills
 - V.5 Lectures
- VI. Nature
 - VI.1 Nature Club
 - VI.2 Environment Protection (non-credit course)
- VII. Innovation

Mandatory Courses (non-credit)

1. Constitution of India
2. Universal Human Values
3. Environment Science
4. Indian Traditional Knowledge
5. Learning an art form

Bridge Courses

Lecture based Modules for Bridge Courses – Physics, Chemistry and Mathematics developed by AICTE for students to help bridge the gap of their studies in Science at 10+2 and UG level are introduced in the First Semester after completing the Induction Program with the following Modules:

1. Physics - 9 Modules with 22 Lectures
2. Chemistry – 5 Modules with 20 Lectures
3. Mathematics – 9 Modules with 22 Lectures

Number of courses per semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding 7 and Laboratory courses and Employability Enhancement Course(s) not exceeding 4. Each Employability Enhancement Course may have credits assigned as per clause 4.5. However, the total number of courses per semester shall not exceed 10.

Credit Assignment

Each course is assigned certain number of credits based on the following:

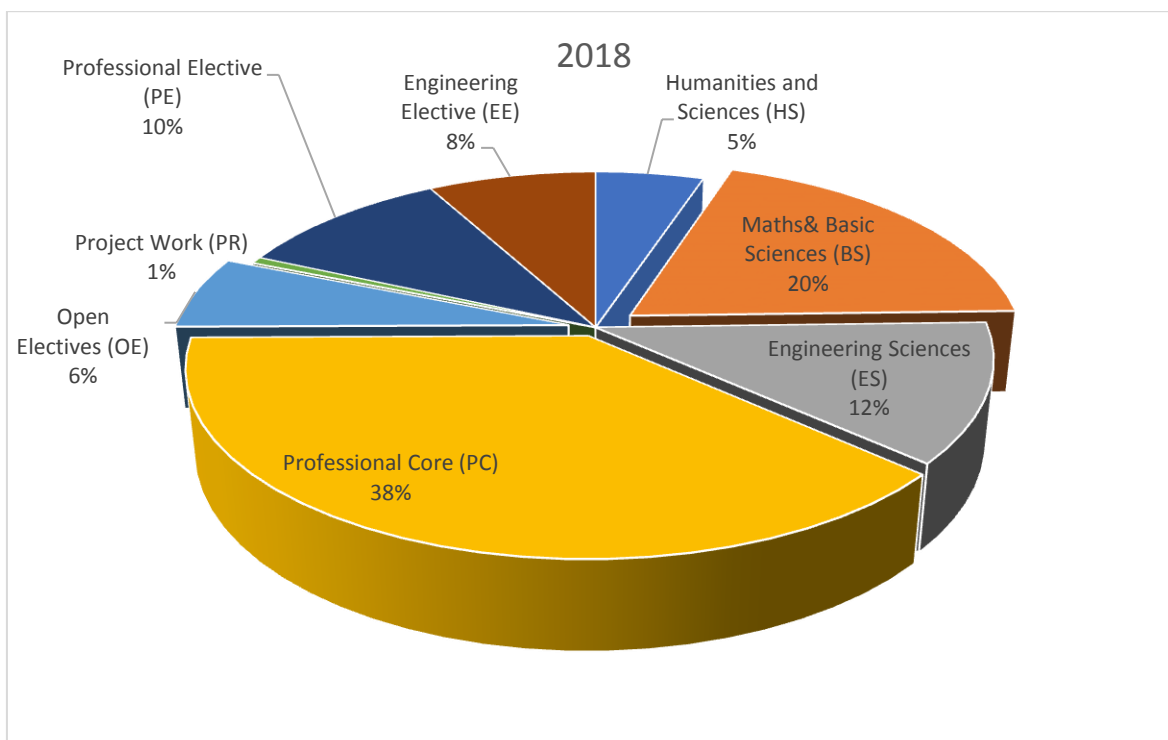
Contact period per week	Credits
1 Lecture period	1
1 tutorial Periods	1
2 Laboratory Periods (also for EE Courses like Seminar/project work/case study/etc.)	1



SUMMARY OF CURRICULUM STRUCTURE AND CREDIT & CONTACT HOUR DISTRIBUTION

S.No	Sub Area	Credit As per Semester								No. of Credit	% of credit
		I	II	III	IV	V	VI	VII	VIII		
1	Humanities & Social Sciences including Management Courses (HS)	3	3	-	-	3	-	-	-	9	5.39%
2	Maths&Basic Sciences (BS)	12	11	4	4	-	-	-	-	31	16.3%
3	Engineering Sciences (ES)	8	8	5	-	-	-	-	-	21	11.68%
4	Professional Core (PC)	-	-	11	21	20	12	5	-	69	36.83%
5	Professional Electives (PE)	-	-	-	-	3	6	6	3	18	10.78%
6	Open Electives (OE)	-	-	-	-	-	3	3	3	9	5.39%
7	Massive Open Online Course (MOOC)	-	-	-	-	-	-	-	2	2	1.20%
8	Employment Enhancement Courses (EEC)	-	-	-	-	1	2	3	9	15	8.98%
9	Mandatory courses(MC)	-	-	-	-	-	-	-	-	0	-
	Total Credit	23	25	22	25	25	21	17	17	175	-
	Total Contact Hour	34	35	32	35	36	29	25	28	-	-

2018			
Course Component	Curriculum Content (% of total number of credits of the programme)	Total number of contact hours	Total number of credits
Humanities and Sciences (HS)	5.14	9	9
Maths& Basic Sciences (BS)	19.42	38	34
Engineering Sciences (ES)	12	27	21
Professional Core (PC)	38.28	87	67
Open Electives (OE)	6.28	11	11
Project Work (PR)	0.57	0	1
Professional Elective (PE)	10.28	18	18
Engineering Elective (EE)	8	23	14
Mandatory Courses (MC)	0	36	0



2.1.4. State the process used to identify extent of compliance of the Curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I

Programme curriculum and syllabus is examined and approved by Board of Studies. It is then assessed by internal and external members of Board of Studies. Indirect assessment of programme curriculum and syllabus is performed using the feedback obtained from Students, Parents, Alumni, Recruiters, experts from Industry and Government Agency. Mapping is performed for each assessment with POs and PSOs. From the direct and indirect assessment POs and PSOs are calculated.

Regulation 2018	
POs	Correlated Course Code
PO1	U18PCCS301,U18PCCS302,U18PCCS303,U18PCCS3L1,U18PCCS3L2,U18PCCS401,U18PCCS402,U18PCCS403,U18PCCS404,U18PCCS405,U18PCCS4L1,U18PCCS4L2,U18PCCS4L3,U18PCCS501,U18PCCS502,U18PCCS503,U18PCCS504,U18PCCS5L1,U18PCCS5L2,U18PCCS601,U18PCCS602,U18PCCS6L1,U18PCCS6L2,U18PCCS701,U18PCCS7L1,U18PECS014,U18PECS023,U18PECS026,U18PECS036,U18PECS051,U18PECS055,U18PECS063.
PO 2	U18PCCS301,U18PCCS302,U18PCCS303,U18PCCS3L1,U18PCCS3L2,U18PCCS401,U18PCCS402,U18PCCS403,U18PCCS404,U18PCCS405,U18PCCS4L1,U18PCCS4L2,U18PCCS4L3,U18PCCS501,U18PCCS502,U18PCCS503,U18PCCS504,U18PCCS5L1,U18PCCS5L2,U18PCCS601,U18PCCS602,U18PCCS6L1,U18PCCS6L2,U18PCCS701,U18PCCS7L1,U18PECS023,U18PECS026,U18PECS036,U18PECS063,



PO 3	U18PCCS301,U18PCCS302,U18PCCS303,U18PCCS3L1,U18PCCS3L2,U18PCCS401,U18PCCS402,U18PCCS403,U18PCCS404,U18PCCS405,U18PCCS4L1,U18PCCS4L2,U18PCCS4L3,U18PCCS501,U18PCCS502,U18PCCS503,U18PCCS504,U18HSBA501,U18PCCS5L1,U18PCCS5L2,U18PCCS60,U18PCCS602,U18PCCS6L1,U18PCCS6L2,U18PCCS701,U18PCCS7L1,U18PECS014,U18PECS023,U18PECS026,U18PECS036,U18PECS051,U18PECS055,U18PECS063.
PO4	U18PCCS403,U18PCCS404,U18PCCS4L1,U18PCCS4L3,U18PCCS501,U18PCCS502,U18PCCS5L1,U18PCCS602,U18PCCS6L2,U18PCCS701,U18PCCS7L1,U18PECS014,U18PECS023,U18PECS026,U18PECS036,U18PECS051,U18PECS055,U18PECS063.
PO5	U18PCCS401,U18PCCS403,U18PCCS404,U18PCCS405,U18PCCS4L1,U18PCCS4L3,U18PCCS501,U18PCCS502,U18PCCS503,U18PCCS504,U18HSBA501,U18PCCS5L1,U18PCCS5L2,U18PCCS601,U18PCCS602,U18PCCS6L1,U18PCCS6L2,U18PCCS701,U18PCCS7L1,U18PECS014,U18PECS026,U18PECS036,U18PECS051,U18PECS055,U18PECS063.
PO 6	U18PCCS401,U18PCCS404,U18PCCS405,U18PCCS4L1,U18PCCS501,U18PCCS502,U18PCCS504,U18PCCS5L2,U18PCCS601,U18PCCS602,U18PCCS6L1,U18PCCS6L2,U18PCCS701,U18PCCS7L1,U18PECS026,U18PECS036,U18PECS063.
PO 7	U18PCCS502,U18HSBA501,U18PCCS5L1,U18PECS026,U18PECS036,U18PECS063.
PO 8	U18HSBA501, U18PECS063.
PO 9	U18PCCS403,U18PCCS4L3,U18PCCS501,U18PCCS502,U18HSBA501,U18PCCS5L1,U18PCCS701,U18PCCS7L1,U18PECS026,U18PECS036.
PO 10	U18PCCS502, U18HSBA501, U18PCCS5L1, U18PECS026, U18PECS036, U18PECS063.
PO 11	U18PCCS502, U18HSBA501, U18PCCS5L1, U18PECS026, U18PECS036, U18PECS063.
PO 12	U18PCCS502, U18HSBA501, U18PCCS5L1, U18PCCS701, U18PCCS7L1, U18PECS026, U18PECS036.

2.2. Teaching-Learning Processes (70)

2.2.1. Describe Processes followed to improve quality of Teaching & Learning (15)

(Processes may include adherence to academic calendar and improving instruction methods using pedagogical initiatives such as real world examples, collaborative learning, quality of laboratory experience with regard to conducting experiments, recording observations, analysis of data etc. encouraging bright students, assisting weak students etc. The implementation details and impact analysis need to be documented)

2.2.1. A) Adherence to Academic calendar (2):

Academic calendar of institution is prepared and circulated to the various departments. The department prepares the action plan for execution of major routine tasks to run the teaching/learning, evaluation and other academic activities smoothly and within the stipulated time frame. The academic calendar contains the detailed schedule, instructions and actions to be followed in the department such as course registration, the schedule of Internal Assessment examinations, end term examination, ERP updation and events for co-curricular and extra-



curricular activities planned by the department. The Academic calendar of the year 2018-2019 in Fig 2.2.1

SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC PLAN 2018 – 2019

Sl. No.	Academic Activity	Odd Sem	Even Sem
1.	Finalization of Workload / Time table	02.07.2018	07.01.2019
2.	Update of Course Delivery Plan, Assessment Plan	04.07.2018	09.01.2019
3.	Entry of Time Table in CAMU	09.07.2018	18.01.2019
4.	First Class committee meeting	09.07.2018	21.01.2019
5.	Internal Test 1	03.09.2018	18.02.2019
6.	Internal Test 1 completion status	10.09.2018	25.02.2019
7.	Display of Course wise and Consolidated attendance in the Notice Board for the month of July, August 2018	03.09.2018	28.02.2019
8.	Update of Course Delivery Plan and Assessment Plan.	11.09.2018	04.03.2019
9.	Second Class committee meeting	12.09.2018	08.03.2019
10.	Internal Test 2	08.10.2018	18.03.2019
11.	Internal Test 2 completion status	15.10.2019	25.03.2019
12.	Display of Course wise and Consolidated attendance in the Notice Board for the month of July, Aug, September 2018	03.10.2018	31.03.2019
14.	Update of Course Delivery Plan and Assessment Plan.	15.10.2018	04.04.2019
15.	Model Practical Exam	18.10.2018	10.04.2019
16.	Submission of Practical Exam Time table	22.10.2018	15.04.2019
17.	Result Analysis meeting of the Model Practical Exam / Assessment Report / CO attainment report	26.10.2018	26.04.2019
18.	Display of Course wise and Consolidated attendance in the Notice Board for the month of July, August, September, Oct 2018	31.10.2018	30.04.2019
19.	Feedback Form Students	02.11.2018	22.04.2019
20.	Commencement of Practical Exams	29.10.2018	23.04.2019
21.	Submission of Course wise Consolidated Attendance Statement	06.11.2018	30.04.2019
22.	End Semester Examination Starts	12.11.2018	08.05.2019
23.	End Semester Examination Ends	21.12.2018	12.06.2019

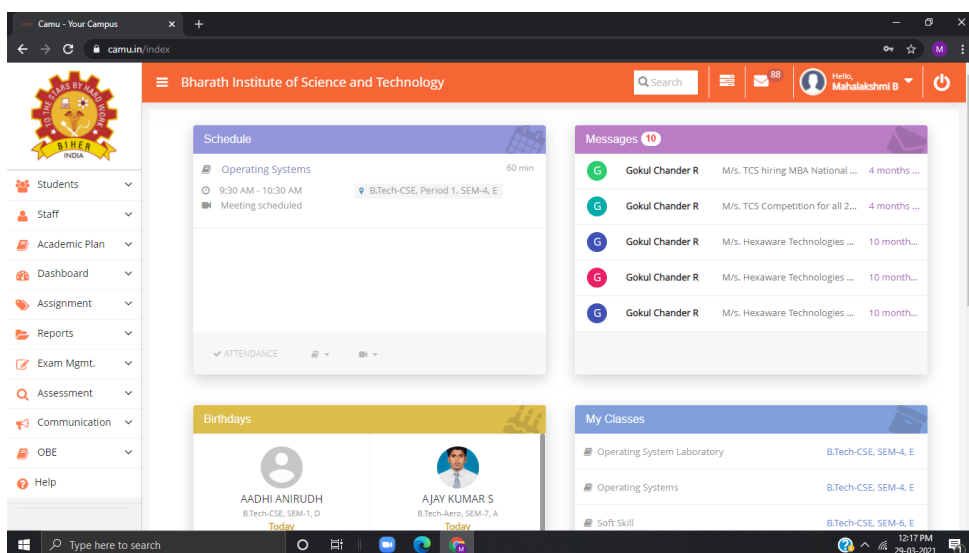
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Figure 2.2.1 Academic Plan Odd sem 2019-20

2.2.1. B) Pedagogical initiatives (2)

(i) Course allocation is made based on the choice/ expertise of the faculty members one month before the commencement of semester. Three to four choices are solicited from the faculty members. Once the courses are allocated, the faculty members prepare a detailed course plan, assignments questions, quiz questions etc. for a particular course. Course handout and materials are prepared, keeping in mind the lesson plan and course outcomes using CAMU software.

Faculty members use various pedagogical methods for effective teaching learning process. The time table of the programme is prepared and it is uploaded in CAMU as per the academic calendar. The classes for a day or a week are evenly distributed for the students as well as faculty members. Individual student can view the time-table, course handouts uploaded by the faculty members and course wise attendance in CAMU.





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Degree* Under Graduate Semester/Year* SEM-4

Program* B.Tech-Computer Science and...

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U18MCAB407 - Literature & Media -Literatur	+ Add New Chapter	Total - 0 Hrs
U18MCAB408 - Literature & Media -Group Re	+ Add New Chapter	Total - 0 Hrs
U18MCTH502 - Universal Human Values	+ Add New Chapter	Total - 0 Hrs
U18PCCS402 - Design and Analysis of Algoritl	+ Add New Chapter	Total - 45 Hrs
U18PCCS404 - Operating Systems	+ Add New Chapter	Total - 45 Hrs
U18PCCS4L1 - Operating System Laboratory	+ Add New Chapter	Total - 30 Hrs

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U18MCAB408 - Literature & Media -Group Re	+ Add New Chapter	Total - 0 Hrs
U18MCTH502 - Universal Human Values	+ Add New Chapter	Total - 0 Hrs
U18PCCS402 - Design and Analysis of Algoritl	+ Add New Chapter	Total - 45 Hrs
U18PCCS404 - Operating Systems	+ Add New Chapter	Total - 45 Hrs
U18PCCS4L1 - Operating System Laboratory	+ Add New Chapter	Total - 30 Hrs

UNIT 1 INTRODUCTION Total - 9 Hrs

UNIT 2 PROCESSES Total - 9 Hrs

UNIT 3 IPC AND DEADLOCK Total - 9 Hrs

UNIT 4 MEMORY MANAGEMENT Total - 9 Hrs

UNIT 5 FILE MANAGEMENT Total - 9 Hrs



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Reports

Exam Mgmt.

Assessment

Communication

OBE

U18MCAB408 - Literature & Media -Group Ri	+ Add New Chapter	Total - 0 Hrs
U18MCTH502 - Universal Human Values	+ Add New Chapter	Total - 0 Hrs
U18PCCS402 - Design and Analysis of Algorithm	+ Add New Chapter	Total - 45 Hrs
U18PCCS404 - Operating Systems	+ Add New Chapter	Total - 45 Hrs
UNIT 1 INTRODUCTION		Total - 9 Hrs
Concept of Operating Systems		1 Hrs
Generations of Operating systems		1 Hrs
Types of Operating Systems		1 Hrs
OS Services		1 Hrs
System Calls		1 Hrs
Structure of an OS - Layered, Monolithic, Mi		1 Hrs
Concept of Virtual Machine		1 Hrs
Case study on UNIX Operating System		1 Hrs
Case study on WINDOWS Operating System		1 Hrs
UNIT 2 PROCESSES		Total - 9 Hrs
UNIT 3 IPC AND DEADLOCK		Total - 9 Hrs

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Assessment

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U18MCAB408 - Literature & Media -Group Ri	+ Add New Chapter	Total - 0 Hrs
U18MCTH502 - Universal Human Values	+ Add New Chapter	Total - 0 Hrs
U18PCCS402 - Design and Analysis of Algorithm	+ Add New Chapter	Total - 45 Hrs
U18PCCS404 - Operating Systems	+ Add New Chapter	Total - 45 Hrs
U18PCCS4L1 - Operating System Laboratory	+ Add New Chapter	Total - 30 Hrs
Experiment I		Total - 6 Hrs
Experiment II		Total - 3 Hrs
Experiment III		Total - 3 Hrs
Experiment IV		Total - 3 Hrs
Experiment V		Total - 4 Hrs
Experiment VI		Total - 4 Hrs
Experiment VII		Total - 3 Hrs
Experiment VIII		Total - 1 Hrs
Experiment IX		Total - 1 Hrs
Experiment X		Total - 2 Hrs

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Periods : 55

Assigned Unassigned Show All

Week of dd-mm-yyyy

S.No.	Date	Start Time	Period	Sub-Chapter	Unassign
1	01-Feb-2021	9:30AM	Period 1	1.1 Concept of Operating Systems	✖
2	02-Feb-2021	10:45AM	Period 2	1.2 Generations of Operating systems, 1.3 Types of Operating Systems	✖
3	04-Feb-2021	2:00PM	Period 4	1.3 Types of Operating Systems	✖
4	08-Feb-2021	9:30AM	Period 1	1.4 OS Services	✖
5	09-Feb-2021	10:45AM	Period 2	1.5 System Calls	✖
6	11-Feb-2021	2:00PM	Period 4	1.6 Structure of an OS - Layered, Monolithic, Microkernel Operating Systems	✖
7	15-Feb-2021	9:30AM	Period 1	1.7 Concept of Virtual Machine	✖

Sub-Chapters

UNIT 1 INTRODUCTION

Name	Mins	Assigned Mins	Assigned Period	Status
1.1 Concept of Operating Systems	60	60	✖Assign	Completed 01-Feb-2021
1.2 Generations of Operating systems	60	30	✖Assign	Completed 02-Feb-2021
1.3 Types of Operating Systems	60	90	✖Assign	Completed 04-Feb-2021
1.4 OS Services	60	60	✖Assign	Completed 08-Feb-2021
1.5 System Calls	60	60	✖Assign	Completed 09-Feb-2021
1.6 Structure of an OS - Layered, Monolithic, Microkernel Operating Systems	60	60	✖Assign	Completed 11-Feb-2021
1.7 Concept of Virtual Machine	60	60	✖Assign	Completed

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Question Bank

✓ Selection (Under Graduate, B.Tech-Computer Science and Engineering, Computer Science and Engineering, SEM-4)

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Question Bank Name	Last Modified	Edit	Delete
DAA IA1 MCQ	23-Feb-2021	✓	✖
DAA_END SEMESTER_MCQ	28-Aug-2020	✓	✖
DAA_MCQ_UNIT_2_aa	26-Aug-2020	✓	✖
DAA - 1 - B1	26-Aug-2020	✓	✖
QB_DAA_UNIT_1	19-Aug-2020	✓	✖
DAA MCQ 11	05-Jun-2020	✓	✖
daa 1	04-Jun-2020	✓	✖
DAA MCQ 10	04-Jun-2020	✓	✖
DAA MCQ 9	03-Jun-2020	✓	✖
DAA - 2 - B2	03-Jun-2020	✓	✖
DAA MCQ 8	02-Jun-2020	✓	✖

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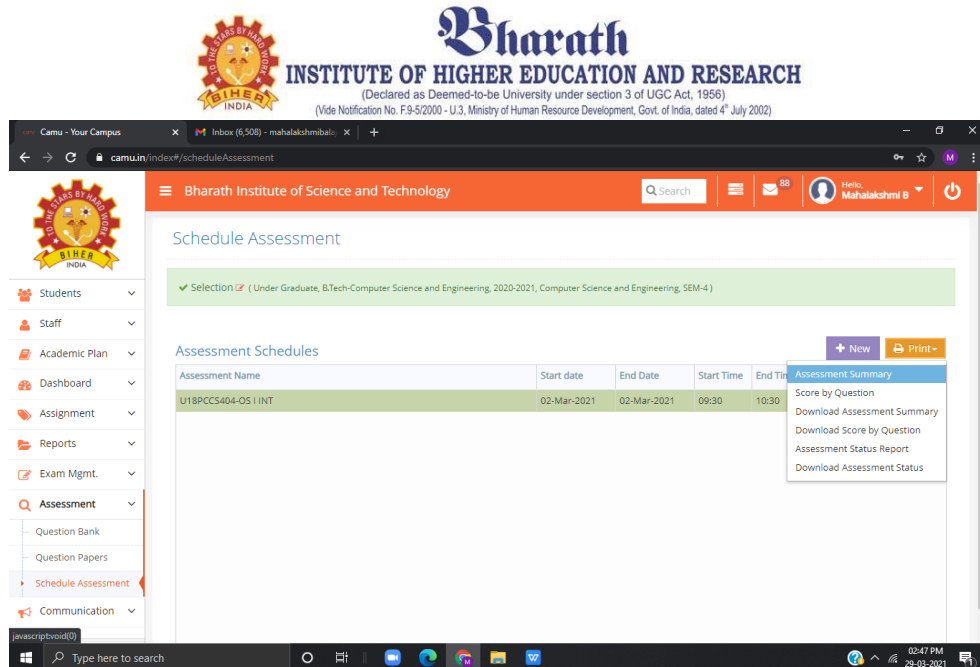
Operating System Assessment-4 - E

+ Add New Questions Back

Q.No	Question	Complexity	Marks	Time	Type	Edit	Delete
1	The aim of creating page replacement algorithms is to _____	3	1	1	MCQ	✓	✖
2	What is the Optimal page - replacement algorithm?	3	1	1	MCQ	✓	✖
3	A page fault occurs	2	1	1	MCQ	✓	✖
4	Operating system supports different page replacement policy. From the given below	3	1	1	MCQ	✓	✖
5	Operating System maintains the page table for	3	1	1	MCQ	✓	✖

Type here to search

02:47 PM 29-03-2021

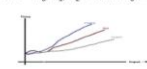
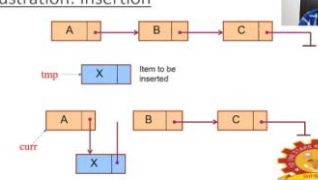
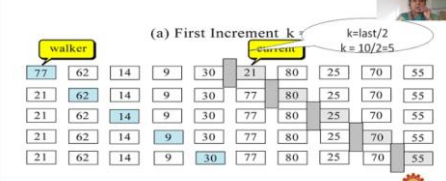


(ii) Best Practices

BEST PRACTICES	GOAL
Think-pair-share	Enhance the overall comprehension of students and allows teachers to present their content in a dynamic way.
Minute Paper	Get a immediate feedback about the understanding of the topic which are discussed in the same class/periods.
Question-and Answer Technique	Motivate students for self-study and group study.
Short Cases/Scenarios	Develop skills in interpersonal communication and in expressing views in a clear and concise manner
Brainstorming	improve verbal skills for effective public speaking.

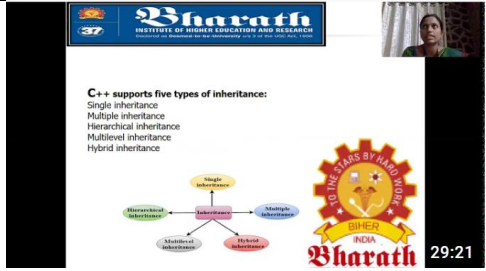
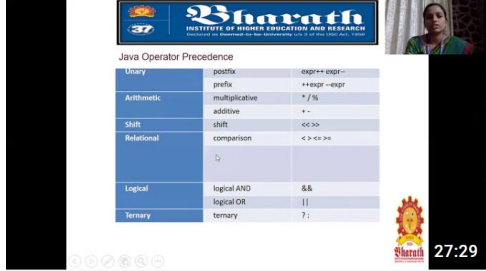
COURSE CODE	U18PCCS301
COURSE NAME	Data Structures & Algorithm
CATEGORY	PC
SEM	III

(iii) Videos

Video Link	Video thumbnail									
https://www.youtube.com/watch?v=-psGQvztl_M	Big - Theta Notation (Θ) - Big - Theta notation is used to define the average bound of an algorithm in terms of Time Complexity. - That means Big - Theta notation always indicates the average time required by an algorithm for all input values. - It describes the average case of an algorithm. - If $C_1 g(n) \leq f(n) \leq C_2 g(n)$ for all $n \geq n_0$, $C_1, C_2 > 0$ and $n_0 \geq 1$. Then we can represent $f(n)$ as $O(g(n))$.  34:24									
https://www.youtube.com/watch?v=3Pt1oPXzu5E	Stacks - Allows access to only the last item inserted. - An item is inserted or removed from the stack from one end called the "top" of the stack. - This mechanism is called Last-In-First-Out (LIFO).  30:20									
https://www.youtube.com/watch?v=iFaZQaN6Jz4	Illustration: Insertion  33:37									
https://www.youtube.com/watch?v=3SC8dlaDoKU	Sorting Classification <table><thead><tr><th colspan="2">In memory sorting</th><th>External sorting</th></tr><tr><th>Comparison sorting $\Omega(N \log N)$</th><th>Specialized Sorting</th><th># of tape accesses</th></tr></thead><tbody><tr><td>$O(N^2)$ • Bubble Sort • Selection Sort • Insertion Sort • Shell Sort</td><td>$O(N \log N)$ • Merge Sort • Quick Sort • Heap Sort</td><td>$O(N)$ • Bucket Sort • Radix Sort • Simple External Merge Sort • Variations</td></tr></tbody></table> 34:16	In memory sorting		External sorting	Comparison sorting $\Omega(N \log N)$	Specialized Sorting	# of tape accesses	$O(N^2)$ • Bubble Sort • Selection Sort • Insertion Sort • Shell Sort	$O(N \log N)$ • Merge Sort • Quick Sort • Heap Sort	$O(N)$ • Bucket Sort • Radix Sort • Simple External Merge Sort • Variations
In memory sorting		External sorting								
Comparison sorting $\Omega(N \log N)$	Specialized Sorting	# of tape accesses								
$O(N^2)$ • Bubble Sort • Selection Sort • Insertion Sort • Shell Sort	$O(N \log N)$ • Merge Sort • Quick Sort • Heap Sort	$O(N)$ • Bucket Sort • Radix Sort • Simple External Merge Sort • Variations								
https://www.youtube.com/watch?v=J-R7siWtv2o	(a) First Increment k $k = \text{last}/2$ $k = 10/2 = 5$  33:25									



COURSE CODE	U18PCCS302
COURSE NAME	Object Oriented Programming
CATEGORY	PC
SEM	III

Video Link	Video thumbnail
https://www.youtube.com/watch?v=qXhPkgzdFo	 A video thumbnail showing a presentation slide titled 'C++ supports five types of inheritance:'. The slide lists: Single inheritance, Multiple inheritance, Hierarchical inheritance, Multilevel inheritance, and Hybrid inheritance. Below the text is a diagram showing a central 'Inheritance' box with arrows pointing to these five types. The Bharath Institute logo is in the bottom right corner. A timestamp '29:21' is visible.
https://www.youtube.com/watch?v=s3NvjQ5XmFU	 A video thumbnail showing a presentation slide titled 'Java Operator Precedence'. It contains a table of operators categorized by precedence. The Bharath Institute logo is in the bottom right corner. A timestamp '27:29' is visible.
https://www.youtube.com/watch?v=7dOr0pFyEcQ&t=299s	 A video thumbnail showing a presentation slide titled 'Definition'. It contains bullet points defining a vector processor and its characteristics. The Bharath Institute logo is in the bottom right corner.



(iii) Maintenance of Course files:

2.2.1. C) Methodologies to support weak students and encourage bright students (2)

Faculty members identify the list of slow and fast learners of their respective courses. Broadly the identification based on student's assessment through Quizzes conducted after completion of 50% of each unit. Students are also assessed through lectures and lab classes, assignments, CAT-I and CAT-II results. Student identification of slow learners, fast learners and extra care taken for them are presented below.

Table 2.3 Categorization of slow and fast learners

Category of learners	Method of categorization	Extra Activities for Slow Learners
Slow learners	Current GPA <6.0	• Coaching for the current semester courses • Additional time is provided by the faculty member for better understanding and learning. • Extra counselling to motivate students and guide students for better preparation. • Mentors are facilitated to understand personal and professional difficulties of students. • Encourage students to ask questions in class, giving extra chances to weak students.
Fast learners	Current GPA >9	• Supplementary assignments are provided to develop skills on Code debugging. • Fast learners are given practical applications scenario to implement in the laboratory • Technical talk on advance topics/ application-based topics.

(ii) Support to Bright Students

Bright students are found on the basis of their class performances, involvement in classroom, internal assessments and grades. The following facilities are there for bright students to apply their learning on various platforms:

- Extra assignment to enhance complex problems solving skills.
- Extra counseling to motivate students to take up advanced study or take-up projects
- Involve fast learners for peer tutoring the slow learners or junior students
- Students motivated to take up one additional advanced level MOOC/SWAYAM in that course.
- They are encouraged to finding the solution of complex problem/innovative projects.
- Give open ended/challenging lab-based problem (to be approved by HoD/IQAC).
- Students are encouraged to take up competitive exams like GATE, GRE, TOEFL, IELTS, CAT, PG CET etc.
- Students are encouraged to be members of professional bodies like IET (India) and organize technical events.
- Bright and diligent students are motivated and inspired to get university ranks

Outcomes of action taken for slow learners students: Based on the extra care/ initiatives

taken for slow learner students the academic performance gets improved. Based on the action taken, not only the academic performance is improved but also they are employed by the recruiters. Care is taken by faculty in monitoring the performance of slow learners.

2.2.1. D).Quality of classroom teaching (Observation in a Class) (2):

Quality of content delivery in live lectures is evaluated randomly by visiting ongoing lecture classes. The senior faculty member/HOD is selected to visit the live classes for evaluation of quality content delivery in prescribed format. The evaluation parameters broadly include the plan of presentation, communication skill, delivery methods and awareness of students. On the basis evaluation report, necessary feedback is given to the faculty members to improve the quality of lectures. The Format for Evaluation of Class Room Teaching is given below.

Organization of Lecture		Delivery and Interaction	
1	Recap of previous lecture	20	Enthusiasm in speech and Energetic appearance
2	Outlines of current session.	21	Voice modulation & Pronunciation
3	Learning goals and focusing on related course outcomes of session	22	Maintain continuity of lecture content/Clarity linking between content (intra lecture content)
4	Revision of lecture	23	Interaction with students in the class, students questions are encouraged and appreciating students with novel ideas(helps them to pursue further)
Presentation		24	Showing the concern towards the students with equality and no criticisms for students misunderstanding during interaction.
5	Legibility in writing on the board (letter size and thickness)	25	Presentation of involved contents with many concepts is being explained differently for different learners.
6	Delivery pace and its balance with clarity	26	Gives online links for additional examples of own (Moodle) and others
7	Board Planning & Management - with static part holding important concepts	27	Broadcasting students questions/opinion when not audible.
8	Use of ICT tools in the classroom (% of ICT tools/% of board usage <0.5 for theory/analysis based course)	28	Starts on time and ends on time
9	Clarity in used terms and abbreviations		
10	Diagrams on the board (non-clutter)		
Content			
11	Illustration and use of relevant examples		
12	linking lecture with previous and next lectures		
13	Real life example or connect to topics to life problems (inter lecture linking)		
14	Apply theory to problem solving		
15	Proper explanation of terms and abbreviation		
16	Explain back ground ideas and concepts		
17	Giving short notes on lecture materials in the class and encourage notes taking but not dictating.		
18	Quiz for checking understanding, and assignments		
19	Summary and conclusion at the end of the lecture		

The Format for Evaluation of Online Teaching is given below.

Organization of Lecture		Delivery and Interaction	
1	Recap of previous lecture	20	Enthusiasm in speech
2	Outlines of current session.	21	Voice modulation & Pronunciation
3	Learning goals and focusing on related course outcomes of session	22	Maintain continuity of lecture content/Clarity linking between content (intra lecture content)
4	Revision of lecture	23	Interaction with students in the class, students questions are encouraged and appreciating students with novel ideas(helps them to pursue further)
Presentation		24	Showing the concern towards the students with equality and no criticisms for students misunderstanding during interaction.
5	PPT Preparation	25	Presentation of involved contents with many concepts is being explained differently for different learners.
6	Delivery pace and its balance with clarity	26	Gives online links for additional examples of own (Moodle) and others
7	Planning of the contents with the topic coverage	27	Broadcasting students questions/opinion when not audible.
8	Usage of video or any other ICT tools other than PPT	28	Starts on time and ends on time
9	Clarity in used terms and abbreviations		
10	Diagrams on the PPT		
Content			
11	Illustration and use of relevant examples		
12	linking lecture with previous and next lectures		
13	Real life example or connect to topics to life problems (inter lecture linking)		
14	Apply theory to problem solving		
15	Proper explanation of terms and abbreviation		
16	Explain back ground ideas and concepts		
17	Giving short notes on lecture materials in the class and encourage notes taking but not dictating.		
18	Quiz for checking understanding, and assignments		
19	Summary and conclusion at the end of the lecture		



2.2.1. E).Conduct of experiments (Observation in Lab) (2)

Lab Monitoring: To ensure the quality of conduct of laboratory classes in the Department, a Lab monitoring Committee monitors the readiness of laboratory, quality of student's laboratory experiments and practice of outcome based education. It also the regular report of the Lab monitoring Committee is useful to take runtime corrective measurement for improving the quality of experiments.

The Lab Monitoring Committee is constituted and the Monitoring Committee is expected to carry out the following regarding the lab.

- Conduction of Laboratory as per schedule
- Assessment of the Laboratory activities
- Record evaluation validation
- Model examination conduction
- Internal Assessment validation
- External Assessment validation

Continuously quality parameters of lab experiments defined in the laboratory handouts are monitored in the laboratory. Laboratory handouts are provided to the students before performing the experiments. Two faculty members and a technical staff are always present to help the students to perform the experiments. To ensure the quality of conduct of laboratory classes in the Department, a Lab monitoring Committee monitors the readiness of laboratory, quality of student's laboratory experiments and practice of outcome based education. The Lab monitoring Committee takes runtime corrective measures to ensure quality of experiments. Continuous evaluation of each laboratory experiment is done based on the following parameters. A faculty member must give marks to each student for the performance on each day and maintain records.

Laboratory Conduction – online

1	Individual / cycle of Programs
2	Prior preparation for lab conduction
3	Maintenance of lab assessment sheet
4	Record Evaluation
5	Error Correction Methodology
6	Viva Conduction
7	Decorum Maintained in Laboratory
8	Cleanliness in laboratory

1	Prior Preparation of Programs
2	Conduction methodology in online
3	Error Correction Methodology
4	Maintenance of lab assessment sheet
5	Viva Conduction
6	Record updation methodology

2.2.1. F). Continuous Assessment in the laboratory (3)

- Continuous evaluation i.e., evaluation of each laboratory experiment in the lab class is done by the students. A faculty member must give marks to each student for the performance on each day and maintain records.
- Committee shall also review the hand out of the Experiment whether it is prepared to



develop the design/synthesis/analysis skill of the students.



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
LABORATORY RUBRICS**

COURSE : Object Oriented Programming|using C++ Laboratory

COURSE CODE : BCS3L2

Artifacts	Preparation (02)	Coding Standards, Best Practices (02)	Debugging (02)	Results (02)	Viva voce (02)	Total (10)
Status / Marks awarded						

Status	Description	Marks awarded
Beginning	Several major aspects of the Experiment is/are missing	5
Developing	One or more major aspects of the Experiment is/are missing	7
Accomplished	Major aspects of the Experiment are addressed. However minor aspects are missing	8
Exemplary	All the aspects of the Experiment are addressed and well-articulated	10

Laboratory Conduction:

Course		Object Oriented Programming using C++ Laboratory	Course Code				BCS3L2		YEAR/SEM			II/III		
S.No	Regno	Student Name	EX1						EX2					
			P (2)	C (2)	D (2)	R (2)	V (2)	T (10)	P (2)	C (2)	D (2)	R (2)	V (2)	T (10)
1	U16CS175	CHALUVADI KALYAN	1	1	2	2	2	8	2	1	2	1	2	8
2	U16CS176	INDHUMATHI K	1	2	1	2	1	7	1	2	1	2	2	8
3	U16CS177	VAKA MAHENDRA REDDY	2	1	2	1	1	7	2	2	2	2	1	9
4	U16CS178	TIPPAREDDY NARENDRA REDDY	1	2	2	1	2	8	1	1	1	1	2	6
5	U16CS179	EDA MADANAMOHAN	2	2	1	1	2	8	2	2	2	1	1	8



		REDDY												

P-Preparation C- Coding Standards, Best Practices D- Debugging R- Results V- Viva voce T-Total

Record Evaluation:

Course		Object Oriented Programming using C++ Laboratory	Course Code				BCS3L2		YEAR/SEM			II/III		
S.No	Regno	Student Name	EX1						EX2					
			A (2)	P (2)	N (2)	O (2)	TS (2)	T (10)	A (2)	P (2)	N (2)	O (2)	TS (2)	T (10)
1	U16CS175	CHALUVADI KALYAN	2	1	2	1	2	8	1	1	2	2	1	7
2	U16CS176	INDHUMATHI K	1	2	1	2	2	8	2	1	2	1	2	8
3	U16CS177	VAKA MAHENDRA REDDY	2	2	2	2	1	9	1	2	1	2	2	8
4	U16CS178	TIPPAREDDY NARENDRA REDDY	1	1	1	1	2	6	2	2	2	2	1	9
5	U16CS179	EDA MADANAMOHAN REDDY	2	2	2	1	1	8	1	1	1	1	2	6

O- OUTPUT P-Program A- Algorithm N-Neatness TS-Timely Submission

Model Examination

Subject		Object Oriented Programming using C++ Laboratory		Course Code			BCS3L2		
YEAR/SEM		II/ III		SEC			D		
S.No	Regno	Student Name	Algorithm (20)	Program (20)	Error correction (20)	Results (20)	Vivavoce (20)	Total (100)	
1	U16CS175	CHALUVADI KALYAN	15	18	18	16	18	85	
2	U16CS176	INDHUMATHI K	17	20	20	19	15	91	
3	U16CS177	VAKA MAHENDRA REDDY	14	20	19	18	16	87	
4	U16CS178	TIPPAREDDY NARENDRA REDDY	18	20	16	15	19	88	
5	U16CS179	EDA MADANAMOHAN REDDY	20	20	17	17	17	91	

Internal Assessment

Course		Object Oriented Programming using C++ Laboratory	Course Code		BCS3L2
YEAR/SEM		II/ III	SEC		D
S.No	Regno	Student Name	Lab Assessment (20)	Model Exam (20)	Total (40)
1	U16CS175	CHALUVADI KALYAN	16	17	33
2	U16CS176	INDHUMATHI K	16	18	34
3	U16CS177	VAKA MAHENDRA REDDY	16	17	33
4	U16CS178	TIPPAREDDY NARENDRA REDDY	14	18	32



5	U16CS179	EDA MADANAMOHAN REDDY	16	18	34

2.2.1. G). Student Feedback of Teaching learning process and actions taken (2)

Students feedback is collected on the following aspects:

- Class Committee Meetings 1&2
- An End Semester feedback before (End Term) examination on teachinglearning.
- Course end survey on course outcomes.
- Program exit survey for final semester students for program outcomes.

The feedback on teaching learning is analyzed and corrective measures are taken. The results of course and survey are used to calculate the attainment of course outcomes. The program exit survey data is used to calculate the PO attainment.

(i) Class Committee Meeting

Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CLASS COMMITTEE MEETING CIRCULAR
23.09.2019

The 2nd class committee meeting for 2nd Year CSE A to be held on 24.09.19 in SA 302 at 10.30 to 11.30 A.M. The Class committee chairperson, class incharge and Subject handling faculty members along with the students of 2nd Year CSE A are requested to attend the meeting without fail.

Staff Members:

Subject Code	Subject Name	Name of the Faculty	Signature
UIBMSA301	PROBABILITY AND STATISTICS	Dr. RAMYA	<i>Ramya</i>
UIBPCCS301	DATA STRUCTURES & ALGORITHM	Dr. C.NALINI	<i>C. Nalini</i>
UIRESEC303	DIGITAL ELECTRONICS	Ms. RATHIKA	<i>Rathika</i>
UIBPCCS302	OBJECT ORIENTED PROGRAMMING	K. SHANMUGA PRIYA	<i>Shanmuga Priya</i>
UIBPCCS303	COMPUTER ORGANIZATION & ARCHITECTURE	LMARY LINDA	<i>Linda</i>
UIBPCCS3L1	DATA STRUCTURES AND ALGORITHM LAB	GOVINDARAJ	<i>Govindaraj</i>
UIBPCCS3L2	OBJECT ORIENTED PROGRAMMING LAB	LMARY LINDA	<i>Linda</i>
UIRESEC3L1	DIGITAL ELECTRONICS LAB	Ms. RATHIKA	<i>Rathika</i>

Student Members:

S.No	Name	Signature
1.	Kapil Bharath	<i>Kapil Bharath</i>
2.	Vishnu C	<i>Vishnu C</i>
3.	Prasanthan	<i>Prasanthan</i>
4.	Arjun Kumar	<i>Arjun Kumar</i>
5.	Sayaprashe	<i>Sayaprashe</i>

[Signature] Class Incharge *[Signature]* Class Committee Chairperson

Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MINUTES OF CLASS COMMITTEE MEETING
24.09.2019

1. Class chairperson started the meeting by welcoming the students for the first formal class committee meeting.
2. Dress code should be maintained.
3. Discipline should be maintained.
4. Students are identified for coaching based on arrears and E grades.
5. During assessment period, 1st two hours assessment will be conducted and in the remaining hours, regular classes will be held.
6. Students are asked to study properly at home.
7. Students were advised to take up certification courses to meet the industrial requirements due to the existence of high competition in the software industry.

[Signature] Class Incharge *[Signature]* Class Committee Chairperson

(ii) End Semester feedback before (End Term) examination on teachinglearning

Parameters Accessed

1. Arrives on time
2. Preparedness for class
3. Effective Communication & Teaching
4. Encourage participation
5. Innovative practice
6. Knowledge demonstration & Control
7. Citation of current technology
8. Tech Computer Science and Engineering
9. Quality of assessment/MCQ
10. Like another subject with same teacher

Sl. No	Parameter	1	2	3	4	5	6	7	8	9	10	Avg
1	Arrives on time	4	4	4	4	4	4	4	4	4	4	4
2	Preparedness for class	4	4	4	4	4	4	4	4	4	4	4
3	Effective Communication & Teaching	4	4	4	4	4	4	4	4	4	4	4
4	Encourage participation	4	4	4	4	4	4	4	4	4	4	4
5	Innovative practice	4	4	4	4	4	4	4	4	4	4	4
6	Knowledge demonstration & Control	4	4	4	4	4	4	4	4	4	4	4
7	Citation of current technology	4	4	4	4	4	4	4	4	4	4	4
8	Tech Computer Science and Engineering	4	4	4	4	4	4	4	4	4	4	4
9	Quality of assessment/MCQ	4	4	4	4	4	4	4	4	4	4	4
10	Like another subject with same teacher	4	4	4	4	4	4	4	4	4	4	4
Avg		4	4	4	4	4	4	4	4	4	4	4

Action Taken:
Improve Teaching
[Signature]
HOD



2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation

2.2.2 A. Process for internal semester question paper setting and evaluation and effective process implementation (3)

The Examination Review Committee for the Dept of Computer Science and Engineering is constituted. The responsibilities of Examination Review Committee members are as follows:

1. Define the process of question paper setting.
2. Obtain the question papers from course coordinators.
3. Review the question papers.
4. Ensure whether the questions are relevant to COs.
5. Define the process of exam conduction and ensure smooth conduction of exam.
6. Define the process of exam valuation.

Continuous assessment tests (CAT1 and CAT2) are conducted for theory courses. Questions are asked based on the Course Outcomes.

- Two Internal Examinations are Conducted per Semester
- Internal Assessment Question Paper is based on the Course outcomes and Bloom's Taxonomy of the individual Course and Course Weightage of individual Course and the pattern of the QP is as follows

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY Department of Computer Science and Engineering				
NAME OF THE TEST/EXAMINATIONS				
Course Code - Course Name				
Date	:			
Academic Year / Semester	:	2017-2018/EVEN		
Duration	:			
Instructions	:			

Q.No.	Question	Weightage	CO	Bloom's Level
1	Name any two....			
2	Explain the procedure of....			

CO	Weightage
CO1	
CO2	
CO3	
CO4	
CO5	
CO6	
Total	

Prepared by	Staff Name	Signature
Verified by		Signature

REGULATION 2015

Examination	Marks Conducted	Marks taken for Internal Marks Calculation

END SEMESTER EXAMINATION

REGULATION 2018

END SEMESTER EXAMINATION

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2.2.2 c. Evidence of COs coverage in class test/mid-term tests

CYCLE TEST I /2019

U18PCC302 – OBJECT ORIENTED PROGRAMMING

Date : 28/08/2019
 Academic Year / Semester : 2019-2020
 Duration : 1 hour 30 min
 Instructions : Answer all questions

Q.no	Question	Weightage	Co	Bloom's level
	Part-A			
1	Differentiate Pop & OOP	2	CO1	R
2	Define array with example	2	CO1	R
3	List out the storage classes	2	CO1	R
4	What is structure and union ? give examples	2	CO2	R
5	Define encapsulation and abstraction	2	CO2	R
6	Difference between call by value and call by reference	2	CO1	R
	Part-B			
7	Write a c++ program to get 10 numbers from user and display its sum using array	6	CO5	AP
8	Write a C++ program to find the largest of three numbers using nested if	6	CO5	AP
9	Explain about strings and its operations with sample program	6	CO2	AP
10	Explain about strings and its operations with sample examples	6	CO2	R
	Part-C			
11	Explain in detail about OOPS Concepts	10	CO3	AN
12	Explain about control structures	10	CO6	U
13	Explain about parameter passing methods with program (call by value and call by reference)	10	CO3	AN

CO	CO1	CO2	CO3	CO4	CO5	CO6	Total
Weightage	8	16	20	-	12	10	66

Prepared by	Staff Name	Signature



Verified by	HoD	Signature



2.2.2 D). Quality of Assignment and its relevance to Cos (5)

S.No	Question	CO
1	Write a Program to find transpose of a matrix.	CO2
2	Write a Program in C++ to search an element in array.	CO2
3	Write a program in C++ to find the solution of quadratic equation.	CO2
4	Find the largest of 3 numbers use if else if.	CO2
5	Read customer Number, units consumed and print EB bill (0-200) (201-400).	CO2

RUBRICS

Exploration (2)	Relevance to the topic (2)	Presentation (3)	Time of Submission (3)	Total

2.2.3. Quality of student projects (20)

The student's projects are selected in line with department Vision, Mission and Programme outcomes. HOD sends circular for identifying the domains after educating students about the following different verticals:

- Big Data Analytics
- Internet of Things
- Artificial Intelligence
- Image Processing
- Computer Networks
- Software Engineering
- Machine Learning
- Deep Learning
- Cloud Computing
- Data Mining
- Wireless sensor networks
- Data Security
- Data Visualization
- Neural Networks



- Network Security

2.2.3.A.) Identification of Projects and allocation methodology to Faculty Members (2)

- The Project Review Committee comprises of
 - Head of the Department
 - Project Coordinators
- PROFESSIONAL COMPETENCE of the faculty members are received from each faculty by circulation listing the various domains/ area of specialization in the field of Computer science and Engineering.
- Faculty wise Domain specialization is consolidated.
- Project Proposal Evaluation Report is obtained from each batch of students undergoing projects with the proposed title and methodology.
- Allocation of the Guide based on domain specialization

2.2.3 B. Types and Relevance of the projects and their contribution towards attainment of POs and PSOs (2)

List of Sample Projects (2017-2018)

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH					
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING					
PROJECT PO EVALUATION (BATCH: 2014 - 2018)					
S. No	Register Number	Student Name	Title of the Project	Area of Specialization	(PO) Program Outcomes
1	U14CS002	AAVULA DIXITH REDDY	PLACEMENT INFORMATION SYSTEM	WEB APPLICATION	PO1,PO2,PO3,PO4, PO5,PO6,PO9, PO10, PO11,PO12
	U14CS034	BOYAPATI VINAY			
2	U14CS004	ABDUL RAZVI .M.K	STOCK MARKET PREDICTION USING MACHINE LEARNING TECHNIQUES	MACHINE LEARNING	PO1,PO2,PO3,PO4, PO5,PO9, PO10,
	U14CS026	BALA MURUGAN .P			
3	U14CS005	ABDUR RASEED	COLLEGE DATABASE MANAGEMENT SYSTEM	WEB APPLICATION	PO1,PO2,PO3,PO4, PO5,PO6,PO9, PO10,
	U14CS018	ANWAR AHMED			
4	U14CS006	ABHIKAMALI .A	PREFDB: SUPPORTING PREFERENCES AS FIRST-CLASS CITIZENS IN RELATIONAL DATABASES	DATA ANALYTICS	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12
	U14CS014	ANGELIN .R			
5	U14CS007	ABHISHEK MANDURI	PRIVACY PROTECTION BASED ACCESS BASED CONTROL SCHEMES	NETWORK SECURITY	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12
	U14CS039	CHINTAGUNTA MARUTHI VENKATESWARA REDDY			



List of Sample Projects (2018-2019)

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH						
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING						
PROJECT PO EVALUATION (BATCH: 2015 - 2019)						
S. No	Register Number	Students Name	Title of the Project	Area of Specialization	Name of the Guide	(PO) Program Outcomes
1	U15CS052	GANGU BHAGYA	PREVENTION OF CYBER MENACE USING SUPPORT VECTOR MACHINE	CYBER SECURITY	Dr. K.P.KALIYAMURTHIE	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12
	U15CS048	GANDLUR REDDY GREESHMA				
2	U15CS706	AHENUO	PREDITION OF PARKINSON DISEASE BY BEST ACCURACY USING	DATA MINING	Dr. C.NALINI	PO1,PO2,PO3,PO4, PO5, PO7,PO9, PO10, PO11,PO12
	U15CS705	REEMA SHAH				
3	U15CS044	DIVYA VANI T	EFFECTIVE LINK DETECTION WITH DYNAMIC SOURCE	COMPUTER NETWORKS	Dr. C.RAJABHUSHANAM	PO1,PO2,PO3,PO4, PO5, PO9, PO10, PO11,PO12
	U15CS709	NINGANG PENLA				
4	U15CS050	GANGARAJU RAHUL	PUBLIC AUDITING FOR CLOUD DATA	CLOUD COMPUTING	Dr. R.KAVITHA	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12
	U15CS058	GUNDA VINAY KUMAR				
5	U15CS037	CHUNDI VENKATA SESHASAI RAMANAPATA NJALI	EARTH POLLUTION MONITORING USING INDEPENDENT WEBPAGE	WEB APPLICATION	Dr. G.MICHAEL	PO1,PO2,PO3,PO4, PO5,PO6,PO9, PO10, PO11,PO12
	U15CS038	CILLA SAI KISHORE				

List of Sample Projects (2019-2020)

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH					
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING					
PROJECT PO EVALUATION (BATCH: 2016 - 2020)					
S. No	Register Number	List of Students	Title of the Project	Area of Specialization	PO (Program Outcomes)
1	U16CS024	S.SRIMATHI	MULTIPLE IMAGE RECOGNITION MACHINE LEARNING MODEL USING	MACHINE LEARNING	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12,PS01,PS02,PS03
	U16CS002	V.M.APARNA			
2	U16CS076	S.ARVID	USER ONTOLOGY BASED RECOMMENDATIONS ENGINE USING MACHINE LEARNING TECHNIQUES	MACHINE LEARNING	PO1,PO2,PO3,PO4, PO5,PO6,PO9, PO10, PO11,PO12,PS01,PS02,PS03
	U16CS017	VARUN KANNA A			
3	U16CS056	G.PRASHANTH	CHESS USING ARTIFICIAL INTELLIGENCE	CLOUD COMPUTING	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12,PS01,PS02,PS03
	U16CS054	M.KAUSHIK			
4	U16CS006	R.SARAVANAN	DEFEATING JAMMING WITH THE POWER OF SILENCE : A GAME THEORETIC ANALYSIS	INTERNET OF THINGS	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12,PS01,PS02,PS03
	U16CS032	P.MUKESH			
5	U16CS012	FAYAZ AKIL S	EVENT MANAGEMENT USING ANDROID AND FIREBASE	ANDROID DEVELOPMENT	PO1,PO2,PO3,PO4, PO5,PO9, PO10, PO11,PO12,PS02,PS03
		SURYA SUNDARRAJ SRIRAM			

All projects carried out by the students are categorized on the basis of types of projects such as application based projects, products based, research based and review based



2.2.3 C. Project related to industry (3)

List Of Industrial Project(batch 2017-2021)

S.No	Register Number	List Of Students	Project Title	Name Of The Company
1	U17CN193 U17CN220 U17CN187 U17CN197	Arun Dammannapet Thallam Jaya Chandan Satya Revadi Mohan Pavan Kumar Akhil Asampally	Obstacle Avoiding Robot Using Arduino And Ultrasonic Sensor	Auxo Technology Labs Private Limited- System Design (IOT And Robotics)
2	U17CS065 U17CS070 U17CS002 U17CS046	Gude Khalendranath Gasi Venu Gopal Sarathik Manisai	Facial Emotional Recognition Using Deep Learning	Admatic Solutions – Deep Learning And Computer Vision Intern
3	U17CS088 U17CS129 U17CS122 U17CS151	Beeram Venkata Rohith Syed Murthuz Ali Aakula Rakesh Putta Sai Mahidhar Reddy	Smart Irrigation System Using Android	Rapportyk Technologies, Chennai, Tamil Nadu
4	U17CS165 U17CS168 U17CS185 U17CS209	Gowtham Kishore Panguluri Pikkili Pavan Attunuru Spandana Reddy Sure Harika	Face Recognition System Based On Door Lock System Using Embedded	Smartx Connected Products Private Limited Chennai, Tamil Nadu
5	U17CS278 U17CS290	Keshireddy Hemanth Reddy G Venkatesha Sai	Air Pollution Monitoring System	Synq Cloud, Inc – Software Development Intern
6	U17CS416 U17CS401 U17CS441 U17CS441	Motapothula Jhansi Aiswarya Lakshmi Sirigireddy Swayamkrutha Karubhagatha Geetha Madhavi Karry Sowmini Suma	Ease Of Purchase Using Rfid Tech	Symbionic Tech Private Limited, Chennai, Tamil Nadu
7	U17CS494 U17CN015 U17CN003 U17CN003	Hemalatha Bai. B Aruna. Y Hari Krishna Dora Sypireddy	Driverless cars using tensor flow and machine learning	Auxo technology labs private limited, software automation
8	U17CN082 U17CN041 U17CN086 U17CN094	Sai teja Lakshmi Narayana Pavan dunga Abhinav	Spammer detection and fake user identification on social networks	Software development tridentsqa, Chennai, tamil nadu
9	U17CN180 U17CN182	Gangumalla Durga Vinay Kethu Dilli Raja	Disease detection using image processing	Software developer intern – synq cloud, inc, Chennai, tamil nadu

LIST OF INDUSTRIAL PROJECT (BATCH: 2016 - 2020)

S. No	Register Number	List of Students	Title of the Project	Name of The Company
1	U16CS076	S.ARVIND	USER ONTOLOGY BASED RECOMMENDATIONS ENGINE USING MACHINE LEARNING TECHNIQUES	TENMILES TECHNOLOGIES
	U16CS017	VARUN KANNA A		
2	U16CS168	MALREDDY SATHWIK REDDY	CUSTOMER SEGMENTATION BASED IN A LIFE INSURANCE	IONIXX TECHNOLOGIES



	U16CS160	N.RAJESH	INDUSTRY USING MACHINE LEARNING ALGORITHMS	PRIVATE LIMITED
3	U16CS211	ARUL VIGNESH J	BI-DIRECTIONAL DERMOSCOPIC FEATURE LEARNING AND MULTI-SCALE CONSISTENT DECISION FUSION FOR SKIN LESION SEGMENTATION	UNIPHORE
	U16CS214	VIGNESH V		
4	U16CS190	KONDAMURI KIRAN KUMAR .	SECURE DATA GROUP SHARING AND CONDITIONAL DISSEMINATION WITH MULTI-OWNER IN CLOUD COMPUTING	INFOMETRICX TECHNOLOGIES PRIVATE LIMITED
	U16CS706	CHINTHAGUMPALA GANESH SAI .		
5	U16CS707	KUMMARA HANUMANTHU RAO	AN ADVANCED INFORMATION SECURITY SYSTEM USING IMAGE BASED GRAPHICAL PASSWORD SCHEME	HOURGLASS IT - MOBILE APP DEVELOPMENT
	U16CS702	MOHAN RAJ S		
6	U16CS188	DEBANJAN MANDAL	WEB PAGE CREATION USING HTML AND CSS	CODETEZ TECHNOLOGIES

LIST OF INDUSTRIAL PROJECT (BATCH: 2015 - 2019)

S. No	Register Number	List of Students	Title of the Project	Name of The Company
1	U15CS042	DILLIGANESH V	E-SC: COLLUSION-RESISTANT SECURE OUTSOURCING OF SEQUENCE COMPARISON ALGORITHM	kaashiv infotech
2	U15CS019	BANAVATH SUNIL NAIK	SIEVEQ: A LAYERED BFT PROTECTION SYSTEM FOR CRITICAL SERVICES	Sands
3	U15CS061	RUCHITHA.H	COST-EFFECTIVE GEO-REPLICATED CLOUD STORAGE WITH DYNAMIC ENFORCEMENT OF CAUSAL CONSISTENCY	8k miles software services
	U15CS030	KSHITHIJA.CH		
4	U15CS075	KADUMU MOUNIKA	REDUCE VM MIGRATION IN BANDWIDTH OVERSUBSCRIBED CLOUD DATA	Alfie incessant innovations
5	U15CS087	KARTHEESWARAN P	MAX -MIN FAIR RESOURCE ALLOCATION FOR STREAM BIG DATA ANALYTICS	Arrow Technologies Pvt Ltd
	U15CS008	MOHAMED SAJEEN N		
6	U15CS114	MANCHALA ROHITH	MULTICLOUD PERFORMANCE AND SECURITY DRIVEN FEDERATED WORKFLOW MANAGEMENT	Ameex Technologies Pvt Ltd
	U15CS123	MOHAMMAD ASLAM SHAREEF		
7	U15CS712	N VENKATA SUBHASH	CROWDSOURCING APPROACH FOR TRACKING PEOPLE IN HIGHLY DYNAMIC INDUSTRIES	Arinos Infosolutions Private Limited.
	U15CS179	CHAITANYA ARAVIND VISHNU VARDHAN		
8	U15CS188	CHANDRA TEJA	ANONYMOUS DATA SHARING SCHEME IN PUBLIC CLOUD AND ITS APPLICATION IN E HEALTH RECORDS	Effyiss Software Technologies
	U15CS175	LAKSHMAN AJAY		





LIST OF INDUSTRIAL PROJECT (BATCH: 2014 - 2018)

S. No	Register Number	Student Name	Title of the Project	Name of the Industry
1	U14CS091	MALLISETTI SAI SANDEEP	A SECURE DATA SHARING SCHEME FOR DYNAMIC GROUPS IN THE CLOUD	Sands Pvt Ltd
	U14CS092	MANDELA SAIKIRAN		
2	U14CS135	RAGAVENDRAN.R	A LIGHTWEIGHT SECURE DATA SHARING SCHEME FOR MOBILE CLOUD COMPUTING	Orangescape Technologies
	U14CS162	SANTHOSH KUMAR.N		
3	U14CS167	SHAIK AATIKA	CROSS-PLATFORM IDENTIFICATION OF ANONYMOUS IDENTICAL USERS IN MULTIPLE SOCIAL MEDIA NETWORKS	Fourkites
	U14CS169	SHAIK YASMIN		
4	U14CS188	SUSINDHAR .P	A SECURE AND DYNAMIC MULTI-KEYWORD RANKED SEARCH SCHEME OVER ENCRYPTED CLOUD DATA	Freshdesk
	U14CS193	THEJA.T		
5	U14CS210	YELLALA SANTHOSH REDDY	DYNAMIC AND PUBLIC AUDITING WITH FAIR ARBITRATION FOR CLOUD DATA	YELDI Softcom
	U14CS213	AKULA MOHITH		

2.2.3.D.) Process for monitoring and Evaluation (2)

PROCESS - PROJECT WORK - BY THE FINAL YEAR STUDENTS

- Carried out as an individual project or a team (2/3/4) and it carries 18 credits.
- The Project Review Committee comprises of
 - Head of the Department
 - Project Coordinators
 - Project Guide of the respective team

Students Batch formation

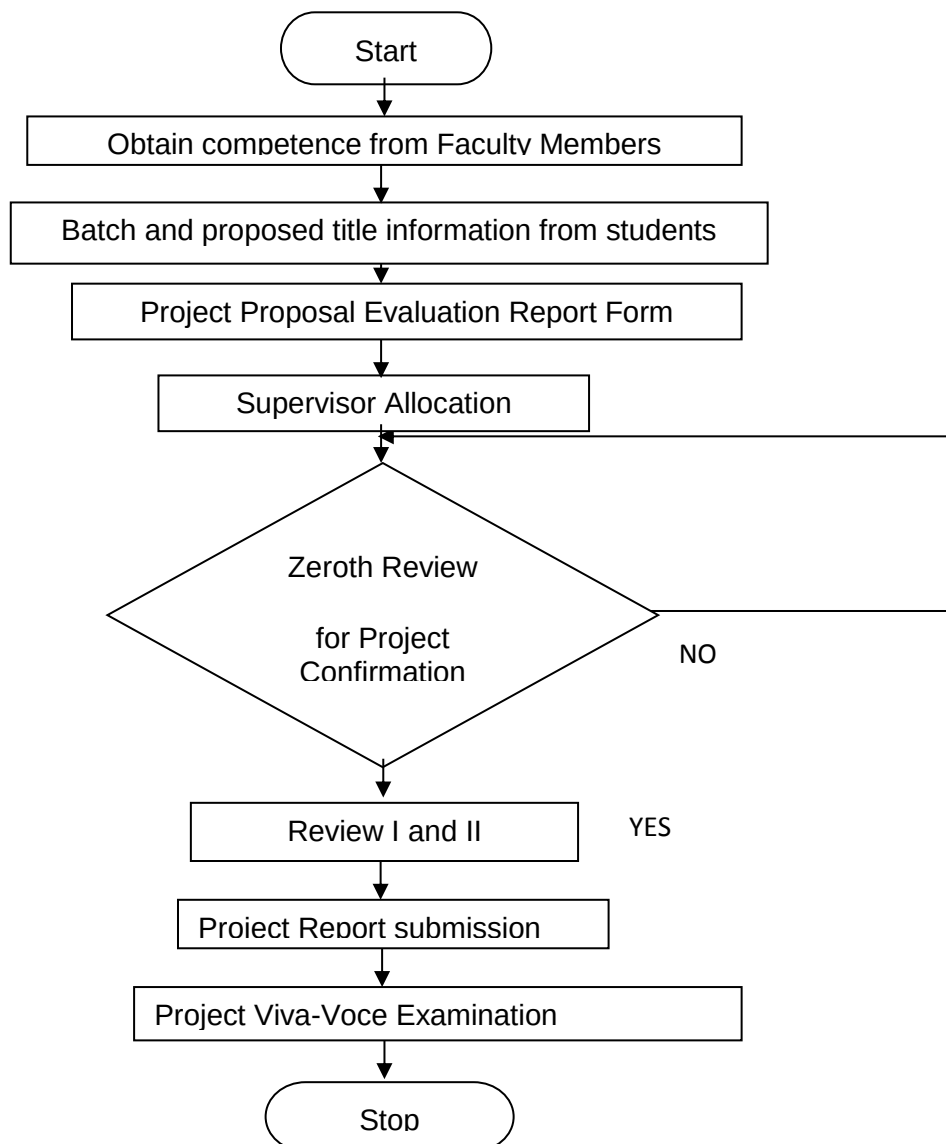
- Students are asked to form batches according to their area of interest with maximum of three students in each batch.



- Name of the students, batch wise along with domain interest is submitted to the project coordinator.
- **Project Guide allocation**
 - Project coordinator along with Head of the department appoints the Guide to the batches.
 - Guides are allotted according to their specialization

Identification of problem and conduction of Project

- The Guide is solely responsible for the ethical approval and project conduction and can be done with the discussion with Review Committee.





- **Project Proposal Form Submission**

- Proposed Title
- Objective
- Methodology



BIHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
PROJECT PROPOSAL EVALUATION REPORT
ACADEMIC YEAR: 2019-2020

PROJECT TITLE: SPATIAL HYBRID MODEL FOR RAINFALL PREDICTION

DOMAIN AREA: MACHINE LEARNING

OBJECTIVE OF THE PROJECT:

In recent years countries like United States of America, Japan, China, Taiwan etc, were suffering from extreme and dangerous natural disasters due to impact of climate. The flood is one of the main reasons for the damages caused in the Asian countries like, India, Bangladesh, Sri Lanka, China etc. These floods increase the risk of death by 75%. The advancement in the information technology, the need for easy accessibility of large cloud storage and processing power is available. Data mining technologies helps us to provide reference for decision makers as summarized information even from the large amount of data. Among many data mining techniques, classification is a widely used one. Past studies proposed many techniques that could be applied to classification, such as decision trees, neural networks, Bayesian classifiers, support vector machines.

STUDENT DETAILS

S. No.	Register number	Name of the Student
1	U16CS507	M Harsha Vardhan Reddy
2	U16CS505	A Sai Dinesh


PROJECT COORDINATOR


HOD

- **Project Confirmation- Zeroth Review -presentation**

- Confirmation of Title
- Objective
- Methodology



- Project preparation for each review and report related formats along with the detailed review schedule are prepared and communicated to the students well in advance.
- Log sheets are maintained by each team.
 - Log sheet is a record of the progress of the work which must be produced during each review.
- **First Review:** The team gives a detailed presentation on the problem identified based on the literature survey. The proposed system will be analyzed with the existing system and the list of modules and the work plan will be discussed.
- **Second Review:** The team gives a detailed presentation on the modules identified. The team is expected to present the simulation results and should explain the process the process of hardware implementation and report submission.
- **Final End Examination:** The team gives the entire project presentation. The team is expected to present the hardware results its consistency with simulation results and should demonstrate the project with conclusion and future work, if any.

2.2.3 E.) Process to assess individual and team performance

PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

Project Work

Project work may be assigned to a single student or to a group of students not exceeding 4 per group. For Project work out of 100 marks, the maximum marks for Continuous Assessment is fixed as 40. The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of 3 members in the review committee. The project Guide will be one of the members of the Review Committee.

There shall be two assessments (each 100 marks) during the semester by a review committee. The student shall make presentation on the progress made before the committee. The total marks obtained in the two assessment shall be 40 marks

The continuous assessment marks for Project Work will be distributed as given below:

Continuous Assessment 40 Marks	
Review I (20 Marks)	Review II (20 Marks)



Review Committee (excluding guide)	Guide	Review Committee (excluding guide)	Guide
14	6	14	6

END SEMESTER EXAMINATIONS:

PROJECT WORK

The student(s) is expected to submit the project report on or before the last working day of the semester. The University examination for the project work shall consist of evaluation of the final project report submitted by the student or students of the project group by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of an external examiner and an internal examiner. The Controller of Examinations shall appoint Internal and External Examiners from the panel of examiners recommended by the Head of the Department for the End Semester Examinations of the Project Work.

The End Semester Examination marks for the Project Work and for the Viva-Voce Examination will be distributed as given below.

End Semester Examination 60 Marks		
Report Evaluation (20 Marks)	Viva – Voce (40 Marks)	
External Examiner	External Examiner	Internal Examiner
20	20	20

If the project report is not submitted on or before the specified deadline, an extension of time up to a maximum of 30 days may be given for the submission of project work with due approval obtained from the Head of the Department. If the project report is not submitted even beyond the extended time then the student(s) is deemed to have failed in the Project Work. The failed student(s) shall register for the same in the subsequent semester and repeat the project work again.

PROJECT EVALUATION RUBRICS

Review	Agenda	Assessment	Review Assessment



			Weightage
Review 0	Project Title Selection & Proposal Evaluation	Rubric R1	-
Review 1	1 ST Term Project Evaluation	Rubric R2	20 (20%)
Review 2	2 nd Term Project Evaluation	Rubric R3	20 (20%)
Review 3	End Semester Project Evaluation & Project Report Evaluation and Evaluation by Guide	Rubric R4 & R5	60 (60%)
Total			100 (100%)

Rubric R1: Project Title Selection & Proposal Evaluation

S.No	Assessment Method	Level of Achievement			
		Excellent (5)	Good (4)	Average (3)	Poor (2)
a	Identification of Problem Domain and Detailed analysis of Feasibility, Objectives and Methodology of Project Proposal	- Detailed and extensive explanation of the purpose and need of the project - All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified - Detailed and extensive	- Good explanation of the purpose and need of the project - Collects a great deal of information and good study of the existing systems; - Good justification to the objectives; Methodology to be followed is specified	- Average explanation of the purpose and need of the project; - Moderate study of the existing systems; collects some basic information - Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives	- Moderate explanation of the purpose and need of the project - Explanation of the specifications and the limitations of the existing systems not very satisfactory; limited information - Only Some objectives of the proposed work are well defined; Steps to be followed to solve the defined



		explanation of the specifications and the limitations of the existing systems	but detailing is not done		problem are not specified properly

Rubric R2: 1st Term Project Evaluation (20 Marks)

S.No	Assessment Method	Level of Achievement				Score
		Excellent (5)	Good (4)	Average (3)	Poor (2)	
a	Incorporation of Suggestions	Changes are made as per modifications suggested during Proposal evaluation and new innovations added	Changes are made as per modifications suggested during Proposal evaluation and good justification	All major changes are made as per modifications suggested during Proposal evaluation	Suggestions during Proposal evaluation are not incorporated	
b	Design Methodology	- Division of problem into modules and good selection of computing framework - Appropriate design methodology and properly justification	- Division of problem into modules and good selection of computing framework - Design methodology not properly justified	- Division of problem into modules but inappropriate selection of computing Framework - Design methodology not defined properly	- Partial division of problem into modules and inappropriate selection of computing framework - Design methodology not defined properly	
c	Planning of Project Work	Time frame properly	Time frame properly	Time frame properly	Time frame not properly	



		specified and being followed	specified but being followed partly	specified, but not being Followed	specified	
d	Demonstration and Presentation	- Objectives achieved as per time frame - Contents of presentations are appropriate and well arranged - Proper eye contact with audience and clear voice with good spoken language	- Objectives achieved as per time frame - Contents of presentation s are appropriate but not well arranged - Satisfactory demonstrati on, clear voice with good spoken language but eye contact not proper	- Objectives achieved as per time frame - Contents of presentations are appropriate but not well Arranged - Eye contact with few people and unclear Voice	- Objectives not achieved as per time frame - Contents of presentations are not appropriate - Demonstratio n not satisfactory	
Total Score = (a+b+c+d)						

Rubric R3: 2nd Term Project Evaluation (20 Marks)

S.No	Assessment Method	Level of Achievement				Score
		Excellent (5)	Good (4)	Average (3)	Poor (2)	
a	Incorporation of Suggestions	Changes are made as per modifications suggested during 1st Term evaluation and new innovations added	Changes are made as per modificatio ns suggested during 1st Term	All major changes are made as per modifications suggested during 1st Term evaluation	Suggestions during 1st Term evaluation are not incorporated	



			evaluation and good justification			
b	Project Demonstration and Presentation	• All defined objectives are achieved • Each module working well and properly demonstrated • All modules of project are well integrated and system working is accurate • Contents of presentations are appropriate and well delivered	• All defined objectives are achieved • Each module working well and properly demonstrated • Integration of all modules not done and system working is not very satisfactory • Contents of presentations are appropriate and well delivered	• All defined objectives are achieved • Modules are working well in isolation and properly demonstrated • Modules of project are not properly integrated • Contents of presentations are appropriate but not well delivered	• Only some of the defined objectives are achieved • Modules are not in proper working form that further leads to failure of integrated system • Contents of presentations are not appropriate and not well delivered	
c	Description of Concepts and Technical Details	• Complete explanation of the key concepts and strong description of the technical requirements of the project	• Complete explanation of the key concepts but in-sufficient description of the technical requirement	• Incomplete explanation of the key concepts and in-sufficient description of the technical requirements of the project	• Inappropriate explanation of the key concepts and poor description of the technical requirement	



			s of the project		s of the project	
d	Conclusion and Discussion	- Results are presented in very appropriate manner - Project work is well summarized and concluded - Future extensions in the project are well specified	- Results are presented in good manner - Project work summary and conclusion not very appropriate - Future extensions in the project are specified	- Results presented are not much satisfactory - Project work summary and conclusion not very appropriate - Future extensions in the project are not specified	- Results are not presented properly - Project work is not summarized and concluded - Future extensions in the project are not specified	
Total Score = (a+b+c+d)						

Rubric R4: End Semester Project Evaluation & Project Report Evaluation (40 Marks)

S.No	Assessment Method	Level of Achievement				Score
		Excellent (10)	Good (8)	Average (6)	Poor (4)	
a	Project Demonstration	- All defined objectives are achieved - Each module working well and properly demonstrated - All modules of project are well integrated and system working is accurate	- All defined objectives are achieved - Each module working well and properly demonstrated - Integration	- All defined objectives are achieved - Modules are working well in isolation and properly demonstrated - Modules of project are not properly integrated	- Only some of the defined objectives are achieved - Modules are not in proper working form that further	



			of all modules not done and system working is not very satisfactory		leads to failure of integrated system	
b	Presentation	• Contents of presentations are appropriate and well delivered • Proper eye contact with audience and clear voice with good spoken language	• Contents of presentations are appropriate and well delivered • Clear voice with good spoken language but less eye contact with audience	• Contents of presentations are appropriate but not well delivered • Eye contact with only few people and unclear voice	• Contents of presentations are not appropriate and not well delivered • Poor eye contact with audience and unclear voice	
c	Project Report	• Project report is according to the specified format • References and citations are appropriate and well mentioned	• Project report is according to the specified format • References and citations are	• Project report is according to the specified format but some mistakes • In-sufficient references	• Project report not prepared according to the specified format • References and	



			appropriate but not mentioned well	and citations	citations are not appropriate	
d	Viva-Voce	• Good understanding of the relevance of the project • Extensive knowledge of not only the project but domain around • Technically correct and confident answers • Crisp to-the-point answers	• Fair understanding of the relevance of the project • Extensive knowledge of the project but not of the domain around • Most of the answers are technically correct but confidence not very good • Crisp to-the-point answers	• Fair understanding of the relevance of the project • Fair knowledge of the project and the domain around • Few of the answers are technically correct but confidence is not good • answers not to-the-point	• Poor understanding of the relevance of the project • Lacks sufficient knowledge of project • Poor technically knowledge of the subject and low on confidence • Vague answers	
Total Score = (a+b+c+d)						

Rubric R5: Evaluation by Guide (20 Marks)

S.No	Assessment Method	Level of Achievement	Score



		Excellent (10)	Good (8)	Average (6)	Poor (4)	
a	Technical Knowledge and Awareness related to the Project	Extensive knowledge and awareness related to the project	Fair knowledge and awareness related to the project	Lacks sufficient knowledge and Awareness	Poor knowledge and no awareness related to project	
b	Regularity and Attendance	Reports to the guide regularly and consistent in work	Reports to the guide very often but not very consistent	Reports to the guide but lacks Consistency	Irregular and inconsistent in work	
Total Score = (a+b)						



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)
173, Agharam Road, Selaiyur, Chennai – 600 073. Ph. 044 – 22290742/0125

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATE: 13.01.2020

CIRCULAR

SUB: Tentative Schedule for Project Reviews for 2016 – 2020 Batch Students – Reg

All the Final Year Students and Faculty Members are hereby informed that Project Reviews to be conducted accordingly on the respective dates scheduled below.

The Tentative Schedule for conducting Project Reviews is:

S.No	Review #	Date	Progress
1	Review 0	27.01.2020 – 30.01.2020	Project Topic Selection & Proposal Evaluation
2	Review 1	17.02.2020 – 20.02.2020	1 st Term Evaluation – Demonstration of Partial Modules.
3	Review 2	16.03.2020 – 19.03.2020	2 nd Term Evaluation – Complete Project Demonstration

All the Students should attend all the Reviews along with the necessary documents on respective dates without fail.

Copy To:
All Faculty Members, Students of Final Year.


HOD
HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U.S.3 of UGC Act, 1956)
Chennai-600 073, INDIA



**BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Final Year Project Review Status Reports

Batch No:		
Students Name :	1. G. Praveen	2. V. Balaji
Register No. :	1. U16CS063	2. U16CS064
Project Title :	Face + Vehicle Number Detection using open cv.	
Guide :	S. Jayapriyanga	

Sl.No	Review	Date	Suggestions by Panel members	Status
1	Zeroth Review	26.01.2020	Presentation is not clear Novelty is not there	
			Abstract is not clearly explained	
2	First Review	19.02.2020	Not enough survey papers	clearly identified given the novelty
			Not clearly identified the proposed system	Presentation is improved.
3	Second Review	17.3.2020	presentation of the proposed work is not clear	Taken relevant research works is carried out
			Implementation of proposed work is not clear	Identified the proposed system
4	Report Submission	26.3.2020	Report formatting is to improve	

S. Jayapriyanga

Guide

C. S. S. S.

Project Coordinator

K. S. S. S.

HOD



2.2.3. F. Quality of completed projects /working prototypes

Category Analysis of Projects

All projects carried out by the students are categorized on the basis of types of projects such as industry, application based projects, prototype/products based, research based and review based.

The summary of analysis report of the projects is given in the following table.

Analysis support of projects

Number of projects completed by students of batch 2014-2018, 2015-2019 and 2016-2020, 2017-2021 categorized as Industry based, application based, prototype based and research based etc..

Batch	Software Development	Application				Industry	Prototype	Research
		Network	Web	Security	Societal			
2017-2021	25	48	21	20	27	9	48	0
2016-2020	31	10	27	21	20	6	9	6
2015-2019	11	23	25	11	19	8	9	1
2014-2018	23	28	8	30	19	5	2	0

Best Project Evaluation scheme

- Projects based on the category: ☐ Industry projects ☐ Prototype projects
- Performance of the batch in ☐ Reviews I and II ☐ VIVA-VOCE Examination
- Publication of the Project ☐ Conferences ☐ Journals

2017-2021

S. No	Register Number	Student Name	Title of the Project	Category	Performance		
					Review1 (20)	Review 2 (20)	ESE (60)
1	U17CS187	KOMMERA SANATH REDDY	COVID – 19 FUTURE FORECASTING USING SUPERVISED MACHINE LEARNING MODELS	Software Development	20	20	56
	U17CS193	DONGA THANMAYA SREE NAGA MANIKANTA			20	20	58
	U17CS194	PRATIK RAJ			20	20	57



	U17CS205	ATTULURI VENKATA NAGA SRI SATYA SAI PAVAN KALYAN			20	20	56
2	U17CS209	S. HARIKA	FACE RECOGNITION BASED DOOR LOCK SYSTEM USING EMBEDDED C	Security Application	20	20	57
	U17CS185	A. SPANDANA REDDY			20	20	57
	U17CS165	P. GOWTHAM KISHORE			20	20	56
	U17CS168	P. PAVAN			20	20	56
3	U17CS235	M.ABDULLA	DETECTION OF ANIMALS INTRUSION IN AGRICULTURAL LAND USING IOT	Prototype	20	20	58
	U17CS284	M.V.SURENDRA			20	20	57
	U17CS228	M.ALEX			20	20	58
	U17CS227	S.KHADAR VALI			20	20	57
4	U17CS166	POTTIMURTHY SAI JASWANTH	INTELLIGENT AMBULANCE WITH AUTOMATIC TRAFFIC CONTROL	Network Application	20	20	58
	U17CS175	VAKA NARAYANA			20	20	56
	U17CS221	SUDDALA OMKAR			20	20	57
	U17CS169	GONTU VIJAY BHASKAR REDDY			20	20	56
5	U17CS230	A.PRATHIMA YADAV	UNMANNED AERIAL SHIP MONITORING SYSTEM USING IOT	Prototype	20	20	58
	U17CS262	K.BAVANA DURGA			20	20	57
	U17CS268	K.VASAVI			20	20	56
	U17CS229	S.MOUNIKA REDDY			20	20	57

2016-2020

S. No	Register Number	Student Name	Title of the Project	Category	Performance		
					Review1 (20)	Review 2 (20)	ESE (60)
1	U16CS188	DEBANJAN MANDAL	Designing A Static E-Commerce Website For Better User Experience Using Html , CSS	Industry -Web Application	20	19	55
2	U16CS110	TEJASREE	Artificial Intelligence Based BOT to manage and administer cloud services	Networking Application	19	18	55
3	U16CS012	FAYAZ AKIL S	EVENT MANAGEMENT USING ANDROID AND FIREBASE	Software Development	20	19	55
	U16CS013	SURYA SUNDARRAJ SRIRAM			20	19	54
4	U16CS018	JUPAKA SAIVARUN	INTRUSION DETECTION AND INTRUSION PREVENTION SYSTEM BASED ON SECURE HASHING TECHNIQUES	Security Application	20	19	55
	U16CS046	MARELLA VENKATA SUNEEL			19	18	55
5	U16CS112	Inturi Raghu Babu	Policy Management with AI based records management	Software Development	16	16	49
	U16CS117	S Yugandhar			20	19	56

2015-2019

S. No	Register	Student Name	Title of the Project	Category	Performance



	Number			/Publication	Review1 (20)	Review 2 (20)	ESE (60)
1	U15CS010	A DIVYA	SMART SERVER IOT BASED TEMPERATURE MONITORING	Prototype	19	18	58
	U15CS118	MANUGUNTA BHARGAVI			20	19	56
2	U15CS079	KANCHARLAPALLI LOKESHWAR RAO	RASPERRY PI AND OPEN SOURCE OCR BASED AUTOMATIC BOOK READER	Prototype	19	16	50
	U15CS080	KANCHUMARTHI BHUVANESWAR VINAY			20	19	57
3	U15CS083	KANDI MOUNIKA	SMART INTELLIGENT SECURITY SYSTEM FOR WOMEN	Prototype	19	18	56
	U15CS104	KUNISETTY JYOTHSNA			19	18	57
4	U15CS712	N VENKATA SUBHASH	CROWDSOURCING APPROACH FOR TRACKING PEOPLE IN HIGHLY DYNAMIC INDUSTRIES	Industry (Arinos Infosolutions Private Limited)	19	18	55
	U15CS179	CHAITANYA ARAVIND VISHNU VARDHAN			19	19	55
5	U15CS006	ANBUMANI S	PERSONALIZED KEYWORD SEARCH FOR PATIENT HEALTHCARE RECORD USING SECURE ENCRYPTION IN CLOUD	Security Application	18	16	52
	U15CS013	ARAVINDHAN K R			18	16	50

2014-2018

S. No	Register Number	Student Name	Title of the Project	Category /Publication	Performance		
					Review1 (20)	Review 2 (20)	ESE (60)
1	U14CS091	MALLISETTI SAI SANDEEP	A SECURE DATA SHARING SCHEME FOR DYNAMIC GROUPS IN THE CLOUD	Industry (Sands Pvt Ltd)	19	19	56
	U14CS092	MANDELA SAIKIRAN			19	18	56
2	U14CS167	SHAIK AATIKA	CROSS-PLATFORM IDENTIFICATION OF ANONYMOUS IDENTICAL USERS IN MULTIPLE SOCIAL MEDIA NETWORKS	Industry (Fourkites)	14	14	44
	U14CS169	SHAIK YASMIN			18	16	51
3	U14CS210	YELLALA SANTHOSH REDDY	DYNAMIC AND PUBLIC AUDITING WITH FAIR ARBITRATION FOR CLOUD DATA	Industry (YELDI Softcom)	20	19	55
	U14CS213	AKULA MOHITH			19	18	58
4	U14CS159	SANASAM VEDRAJ SINGH	SMART HOME AUTOMATION USING IOT	Prototype	14	14	44
	U14CS160	SANDEEP INGUVA			18	16	51
5	U14CS113	CHARADHAR NALLAJARLA	DISEASE PREDICTION USING MACHINE LEARNING OVER BIG DATA	Software Development	19	16	51

2.2.3.G. Evidences of papers published / Awards received by projects etc.

S.No	Students Name	Conference Name	Paper Title



1	Mr. Shaik Nagur Basha	National E-Conference on Unconventional Computational Intelligence (NCUCI-2020)	Data Curation with Deep Learning
2	Mr. Pranay Reddy.S	National E-Conference on Unconventional Computational Intelligence (NCUCI-2020)	Smart Parking System Based On Iot
3	Ms. B.N. Swarna Jyothi	National E-Conference on Unconventional Computational Intelligence (NCUCI-2020)	Analyzing and Estimating the Performance of Weka Classifiers on Significant Diseases
4	Mr. Vennakula Saivarun	National E-Conference on Unconventional Computational Intelligence (NCUCI-2020)	Review of The Use of Ai Techniques in Serious Games: Decision Making and Machine Learning
5	Ms. Pothana Bhavya	National E-Conference on Unconventional Computational Intelligence (NCUCI-2020)	Emotion Player with Music
6	Mr. Abdul Sameer	National E-Conference on Unconventional Computational Intelligence (NCUCI-2020)	Sports Fantasy

2.2.4. Initiatives related to industry interaction:

2.2.4.A. Industry supported laboratories

S.No	Name of the Laboratory	Supported by
1	Networking Laboratory	Hexaware Technologies Limited, chennai
2	Database Management Systems	Amtex Software Solutions Pvt Ltd, chennai
3	Operating Systems Laboratory	Bright Star Telecom, chennai
4	Software Engineering Laboratory	IBM, chennai

2.2.4. B. Industry involvement in the program design and Curriculum. (3)

BOARD OF STUDIES (2019-20)		
Name	Designation	
INTERNAL MEMBERS		
Dr.S.Neduncheliyan	Chairman,Professor & Dean / School of Computing, BIHER	
Dr.K.P.Kaliyamurthie,	Prof.& Head/CSE, BIHER	
Dr.A.Kumaravel,	Professor & Head/IT, BIHER	
Dr.C.Nalini,	Professor / CSE, BIHER	
Dr.C.Rajabhushanam,	Professor/CSE, BIHER	
Dr.S.Sadagopan,	AssociateProfessor/CSE, BIHER	
EXTERNAL MEMBERS		
ACADEMIC EXPERT	Dr. S.Thamarai Selvi	Centre for Technology Development and Transfer, Madras Institute of Technology, Anna University, Chennai-44
	Dr.D.Janakiraman	Senior Professor Dept. of CSE IIT Madras
	Dr.P.Yogesh,Professor	Department of Information Science & Technology, CEG , Anna University, Chennai-25
	Dr.P.Aruna (Alumini)	Professor & Head, Department of CSE, Annamalai University
	INDUSTRY EXPERT	Dr.R.Thamizharasan

2.2.4. C. Industry involvement in partial delivery of any regular courses for students



Various Regular courses are handled partially by the experts from the industry as a industry academia relationship

Course Code:	BCS009	sem :	VIII
Course Name:	RealTime Software Testing	Year:	2018-2019

S.No	Topics Covered	DATE	No. Of Hours
1	Controlling and Monitoring	22/10/2018	1
2	Measurements and milestones for controlling and monitoring	22/10/2018	1
3	Status meeting	23/10/2018	2
4	Reports and control issues	24/10/2018	1
5	Criteria for test completion	25/10/2018	2
6	SCM –Types of reviews	25/10/2018	1
7	Developing a review program	26/10/2018	1
8	Components of review plans – Reporting review results	26/10/2018	1
			10

Resource

Person :

Bharaneedharan

T M

Data Analyst

JEGAN RESEARCH ASSOCIATES PRIVATE LID

Chennai



2.2.4. D. Impact Analysis of industry institute interaction and actions taken thereof



Bharath Institute of Science and Technology

Resource Person (Industry) Feedback Form

Department of Computer Science and Engineering

Name of Student:	Year/Sec:
	Reg. No.:
3. Strongly agree	2. Agree
1. Disagree	0.NA
1. How would you rate the sessions based on acquiring knowledge on basic engineering fundamentals or an engineering specialization to the solution of complex engineering problems?	
2. Were you able to identify or formulate any complex engineering problems ?	
3. Did the sessions give you any idea about design solutions to complex engineering problems existing in our environment now?	
4. Did the sessions help you to <u>analyse</u> and <u>interpret data</u> used in the organization to apply in research methods?	
5. Were the sessions helpful to you in creating awareness about the Modern tool usage to apply and model complex engineering activities?	
6. Were you able to apply the reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues of the organization towards our society as a responsible engineer ?	
7. Were you able to understand the impact of the professional engineering solutions in societal and environmental contexts for a sustainable development ?	
8. Were you able to observe the ethical principles, professional ethics , responsibilities and norms of the engineering practice at the organization?	
9. Did you attain confidence to function effectively as an individual or as a member or leader in diverse teams after attending the sessions?	
10. Did the sessions help you learn to communicate effectively on complex engineering activities with the engineering community?	
11. At the end of the sessions, have you attained self-confidence to demonstrate knowledge and engineering principles to one's own work, or as a member and leader in a team to manage projects ?	
12. Do you think the future Industrial person's interaction will help you in life-long learning in the broadest context of technological change?	

Signature of the Student



2.2.5. Initiatives related to industry internship/summer training :

(Mention the initiatives, implementation details and impact analysis)

The Industrial Institute Interaction Committee for the Academic Year 2017 – 2018 is constituted and the Committee is expected to carry out the following regarding the Industrial / Internship / in plant/summer training.

Industrial Visit:

- Identification of Industry and requesting permission for visit.
- Receiving permission letter from the industry.
- Planning and conduction of Industrial Visit.
- Reports of Assessment to be submitted after the Completion of Visit

Other Industrial Training:

- Receiving permission letter from industry through student.
- Allotting OD to the student.
- Receiving the Certificate.
- Reports of Assessment to be submitted after the Completion of Training.

A. Industrial training / tours of students:

2.2.5.1. Industry visit (2017 - 2018)

S.No	Name of the Industry	Date Of Permission	Date of Acceptance	Date of Visit	Year	Batch	Staff Incharge	Students Count
1	Redhat Linux	18-07-2017	23-07-2017	22-08-2017	III	2014	Mr.B.Sundarraja n Mrs. Geetha	35

Industry visit (2018 - 2019)

S.No	Name of the Industry	Date Of Permission	Date of Acceptance	Date of Visit	Year	Batch	Staff Incharge	Students Count
1	Signals and System (SANDS)	09-07-2018	17-08-2018	12-09-2018	III	2016	Mrs.C.Anuradha, Mrs.N.Priya	75



2	Signals and System (SANDS)	09-07-2018	24-08-2018	20-09-2018	II	2014	Mrs.C.Anuradha, Mrs.N.Priya	75

Industry visit (2019 - 2020)

S.No	Name of the Industry	Date Of Permission	Date of Acceptance	Date of Visit	Year	Batch	Staff Incharge	Students Count
1	KaaShiv InfoTech	08-07-2019	07-08-2019	16-09-2019	III	2016	Dr.G Michael ,Mr.Allin Geo	75
2	KaaShiv InfoTech	08-07-2019	21-08-2019	23-09-2019	IV	2015	Dr.G Michael ,Mrs. Kavitha G	75

2.2.5 B. Industrial / internship / summer training of more than 2 weeks and post training Assessment

Industrial internship (2020 - 2021)

S.No	Reg No	Name	Year	SEM	Duration	Domain	Company
1	U18CS199	Indu Mouli Mahamkali	III	V	1/12/2020-31/01/2021	Data Science with Python	Verzeo
2	U18CS212	Devanaboina Dinesh	III	IV	04/01/2021-15/02/2021	Software Development	Festo Technologies
3	U18CS179	chillamcharla saiteja	III	IV	04/01/2021-15/02/2022	Software Development	Festo Technologies
4	U18CN105	KENGUVA VENKATA SAI NITHIN	III	VI	04/01/2021-15/02/2023	Software Development	Festo Technologies
5	U18CN127	Nakula Abhiram	III	VI	04/01/2021-15/02/2023	Software Development	Festo Technologies
6	U18CS007	Burra PranayKumar	III	V	02/07/2021-20/08/2020	Web Development	Mekvahan(Udyamat MA Viramasva Pvt.Ltd.)
7	U17CS397	Devineni Ganesh	IV	VIII	25/09/2020-25/01/2021	Associate CS Internet	Sutherland
8	U18CN034	Vastav Chandrakesh	III	V	01-07-2020	Cloud Computing	Deloitte
9	U18CS099	Abhishek Reddy	III	V	01/09/2020- 31/10/2020	Campus Ambassador	Verzeo
10	U18CN049	Sai Vikas	III	VI	19-01-2021	Mobile Application Development	Phoenix Softech Limited
11	U18CS279	Avula Krishna Reddy		V	01/12/2020-31/01/2021	Mahine Learning with Python	Verzeo



12	U18CS077	M Sai Subbaraju	III	VI	04/01/2021-15/02/2023	Software Development	Festo Technologies
13	U18CS077	M Sai Subbaraju	III	VI	12/10/2020-20/11/2020	Ethical Learner	Ethical Learner Pvt.Ltd

Industrial internship (2019- 2018)

S.No	Reg No	Name	Year	SEM	Duration	Domain	Company
1	U17CN146	N. Anuradha	III	II	21/09/2019 - 27/10/2019	Associate IT Helpdesk	Sutherland
2	U18CN030	Kilari Sujana	II	II	09/12/2019-09/01/2020	Python	VSS Innovative Technologies
3	U18CN256	Prathanavasumathi	II	III	02/01/2020-06/01/2020	web development	CodeBind Technologies,Trichy
4		Mr. Somashekar			18/04/2020-25/04/2020	Python for Data Science	Forsk Coding School
5	U17CS048	Hemanth Vupalapatti	III	II	21/09/2019-27/10/2019	Associate IT Helpdesk	Sutherland
6		Vasudeva Reddy Muthyala			17/08/2019-02/10/2019	Associate IT Helpdesk	Sutherland
7	U17CS367	Palla Venkateswarlu	III	II	21/05/2020-18/06/2020	Full Stack Developer	Learnticks
8	U17CS061	Shaik Rowfa	III	II	21/09/2019-27/10/2019	Associate IT Helpdesk	Sutherland

Industrial internship (2017 - 2018)

S.No	Reg No	Name	Year	SEM	Duration	Domain	Company
1	U17CN146	N. Anuradha	III	II	21/09/2019 - 27/10/2019	Associate IT Helpdesk	Sutherland



2	U18CN030	Kilari Sujan	II	II	09/12/2019-09/01/2020	Python	VSS Innovative Technologies
3	U18CN256	Prathanavasumathi	II	III	02/01/2020-06/01/2020	web development	CodeBind Technologies, Trichy
4		Mr. Somashekar			18/04/2020-25/04/2020	Python for Data Science	Forsk Coding School
5	U17CS048	Hemanth Vupalapatti	III	II	21/09/2019-27/10/2019	Associate IT Helpdesk	Sutherland
6		Vasudeva Reddy Muthyala			17/08/2019- 02/10/2019	Associate IT Helpdesk	Sutherland
7	U17CS367	Palla Venkateswarlu	III	II	21/05/2020-18/06/2020	Full Stack Developer	Learnticks
8	U17CS061	Shaik Rowfa	III	II	21/09/2019-27/10/2019	Associate IT Helpdesk	Sutherland

2.2.5 C. Impact Analysis of Industrial Training (2)

Academic year 2017-2018 - Impact Analysis - Red Hat Linux

S.No	Industrial Visit Feedback form 3. Strongly agree 2. Agree 1. Disagree 0.NA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	AVG
1	How would you rate the visit based on acquiring knowledge on basic engineering fundamentals or an engineering specialization to the solution of complex engineering problems?	3	2	1	2	3	2	3	2	1	2	2	3	2	2	1	3	3	2	3	3	2	3	2
2	Were you able to identify or formulate any complex engineering problems?	2	3	2	2	3	3	3	1	2	1	2	1	2	2	2	2	3	3	2	3	2	2	2
3	Did the visit give you any idea about design solutions to complex engineering problems existing in our environment now?	2	3	2	3	3	3	2	3	0	2	1	2	3	2	3	3	2	2	3	3	2	3	2
4	Did the visit help you to analyse and interpret data used in the organization to apply in research methods?	2	2	1	3	3	3	3	2	3	2	2	3	2	2	2	2	1	3	3	3	3	1	2



5	Was the visit helpful to you in creating awareness about the Modern tool usage to apply and model complex engineering activities?	2	1	3	3	3	3	2	1	2	2	2	2	1	2	2	3	2	3	2	3	3	3	2
6	Were you able to apply the reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues of the organization towards our society as a responsible engineer?	3	2	3	2	3	2	3	2	1	2	3	1	2	1	2	2	2	2	3	3	1	2	2
7	Were you able to understand the impact of the professional engineering solutions in societal and environmental contexts for a sustainable development?	1	1	3	3	3	1	2	2	2	3	2	2	3	2	3	2	2	2	2	3	2	3	2
8	Were you able to observe the ethical principles, professional ethics, responsibilities and norms of the engineering practice at the organization?	2	2	1	2	2	3	2	3	3	2	2	2	1	2	2	1	3	2	1	2	1	2	2
9	Did you attain confidence to function effectively as an individual or as a member or leader in diverse teams after visiting the organization?	3	3	1	3	3	2	3	3	0	3	1	1	2	2	3	3	2	3	2	2	2	1	2
10	Did the visit help you learn to communicate effectively on complex engineering activities with the engineering community?	1	2	2	3	2	2	3	2	2	2	2	3	3	2	3	2	2	3	1	1	3	3	2
11	At the end of the visit, have you attained self-confidence to demonstrate knowledge and engineering principles to one’s own work, or as a member and leader in a team to manage projects?	1	3	2	3	3	3	3	2	3	2	2	3	3	1	2	2	2	2	3	2	1	3	2
12	Do you think the future Industrial visits will help you in life-long learning in the broadest context of technological change?	1	3	1	3	3	3	2	3	3	2	2	3	3	1	3	1	3	1	3	1	2	2	2

2.2.5 D. Student Feedback on Initiative

 Bharath INSTITUTE OF SCIENCE AND TECHNOLOGY Established in the year 1983 and affiliated to Anna University, Chennai		
Bharath Institute of Science and Technology		
Industrial Visit Feedback Form		
Department of Computer Science and Engineering		
Name of Student: <u>Nagendra Kumar</u>	Year/Sec: <u>B/E</u>	
Name and Address of Industrial Visit Organization: <u>Kaplan Infosys Avenue</u>	Reg. No.: <u>VLS/CS/1</u>	
	<u>Chennai</u>	
3. Strongly agree	2. Agree	1. Disagree
1. How would you rate the visit based on acquiring knowledge on basic engineering fundamentals or an engineering specialization to the solution of complex engineering problems? 2 2. Were you able to identify or formulate any complex engineering problems? 3 3. Did the visit give you any idea about design solutions to complex engineering problems existing in our environment now? 1 4. Did the visit help you to analyze and interpret data used in the organization to apply research methods? 2 5. Was the visit helpful to you in creating awareness about the Modern tool usage to apply and model complex engineering activities? 2 6. Were you able to apply the reasoning informed by the contextual knowledge to assess health, safety, legal, cultural issues of the organization towards our society as a responsible engineer? 3 7. Were you able to understand the impact of the professional engineering solutions in societal and environmental contexts for a sustainable development? 3 8. Were you able to observe the ethical principles, professional ethics, responsibilities and norms of the engineering practice in the organization? 2 9. Did you attain confidence or function effectively as an individual or a member or leader in diverse teams after visiting the organization? 2 10. Did the visit help you learn to communicate effectively on complex engineering activities with the engineering community? 1 11. At the end of the visit, have you attained self-confidence to demonstrate knowledge and engineering principles to one's own work, or as a member and leader in a team to manage projects? 2 12. Do you think the future Industrial visits will help you life-long learning in the broadest context of technological change? 3		
<u>M. S. Senthil</u> Signature of the Student		

 Bharath INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Recognized as deemed to be university under section 3 of UGC Act 1956, vide notification No.F 3/32009 U-3) 173, Aghazam Road, Selaiyur, Chennai – 600 073. Ph. 044 – 22296742/0315					
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Online Industrial Training Assessment Form					
Name of Student: <u>Indu Mouli Mahankali</u>	Year/Sem: <u>III/V</u> Reg. No.: <u>U18CS199</u>				
Name and Address of Industrial Training : <u>VERZEO</u>					
<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">3. Strongly agree</td> <td style="width: 25%;">2. Agree</td> <td style="width: 25%;">1. Disagree</td> <td style="width: 25%;">0.NA</td> </tr> </table>		3. Strongly agree	2. Agree	1. Disagree	0.NA
3. Strongly agree	2. Agree	1. Disagree	0.NA		
1. How would you rate the training based on acquiring knowledge on basic engineering fundamentals or an engineering specialization to the solution of complex engineering problems?	3				
2. Were you able to identify or formulate any complex engineering problems?	3				
3. Did the training give you any idea about design solutions to complex engineering problems existing in our environment now?	3				
4. Did the training help you to analyze and interpret data used in the organization to apply in research methods?	2				
5. Was the training helpful to you in creating awareness about the Modern tool usage to apply and model complex engineering activities?	2				
6. Were you able to apply the reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues of the organization towards our society as a responsible engineer?	2				
7. Were you able to understand the impact of the professional engineering solutions in societal and environmental contexts for a sustainable development?	0				
8. Were you able to observe the ethical principles, professional ethics, responsibilities and norms of the engineering practice at the organization?	0				
9. Did you attain confidence to function effectively as an individual or as a member or leader in diverse teams after getting training the organization?	2				
10. Did the training help you learn to communicate effectively on complex engineering activities with the engineering community?	2				
11. At the end of the training, have you attained self-confidence to demonstrate knowledge and engineering principles to one's own work, or as a member and leader in a team to manage projects?	2				
12. Do you think the future Industrial trainings will help you in life-long learning in the broadest context of technological change?	3				



CRITERION 3	COURSE OUTCOMES AND PROGRAM OUTCOME	175

3. COURSE OUTCOMES AND PROGRAM OUTCOMES

3.1. Establish the correlation between the courses and the program Outcomes (POs) and Program Specific Outcomes (PSOs)

PROGRAM OUTCOMES (POs)

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 Problem analyses Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions



PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1 : The computer science and engineering graduates are to apply standard Software Engineering practices and strategies like analysis, develop, test apply in projects and other technologies to deliver quality product.

(with the above knowledge and skills students can get more opportunities to get placed in local companies in India like PixelCrayons, Micropyramid, Mobiloitte, valuecoders, Algotech Solution, Paragytes, Fusionbox, MindBrowser, N-Ix, C-DOT, etc)

PSO2 : Design and develop computer programs/computer-based system in the areas related to algorithms, networking protocol application, web design and cloud with intelligent computing of varying complexity

(Based on the above program specific outcomes a students may get placed in any of the National and International level companies like Cisco IBM India Pvt Ltd, TATA Consultancy Service, Larsen and Toubro, Infosys Technologies, Wipro, TATA Communication, Veizon, AR&T ,Dimension Data, Velocis ,Oragne, BT India Pvt, Bharati Airtel, Sophos, etc..)

PSO 3 : Acquaint with the contemporary skills in Artificial Intelligence, Machine Learning and data Analytics projects industrial/research setting and thereby innovate novel solutions to existing problems

(With the above mentioned skills students can be placed in intentional companies like Cartesian Consulting, Bridgei2i, Fractal Analytics, Oracle Cloud Solution Hubs, Accenture, Latent View, Crayon Data ,Hansa Cequity, etc ... as well as startups in India and abroad)

CO-PO Articulation Matrix 2018

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
U18HSEN101 / COMMUNICATIVE ENGLISH															
CO 1								2		3	2	2			
CO 2								2		2	2	3			



CO 3										3	2				
CO 4								2		3	2	2			
CO 5								2		3	2	2			
CO 6								2		3	2	2			
U18BSMA101 / ENGINEERING MATHEMATICS – I															
CO 1	3	3		3											
CO 2	3	3		3											
CO 3	3	3		3											
CO 4	3	3		3											
CO 5	3	3		3											
CO 6	3	3		3											
U18BSPH101 / WAVES AND OPTICS															
CO 1	3	2													
CO 2	3	2													
CO 3	3	2													
CO 4	3	2													
CO 5	3	2													
CO 6	3	2													
U18BSCH101 / ENGINEERING CHEMISTRY															
CO	3	2													



1															
CO 2	3	2													
CO 3	3	2													
CO 4	3	2													
CO 5	3	2													
CO 6	3	2													
U18ESEE101 / BASIC ELECTRICAL & ELECTRONICS ENGINEERING															
CO 1	3	2	3						2						
CO 2	3	2	3						2						
CO 3	3	2	3						2						
CO 4	3	2	3						2						
CO 5	3	2	3						2						
CO 6	3	2	3						2						
U18BSBT101 / BIOLOGY FOR ENGINEERS															
CO 1	3	2	2												
CO 2	3	2	2												
CO 3	3	2	2												
CO 4	3	2	2												
CO 5	3	2	2												
CO	3	2	2												



6																	
U18BSPH2L2 / WAVE OPTICS AND SEMI CONDUCTOR PHYSICS LABORATORY																	
CO 1	3	2															
CO 2	3	2															
CO 3	3	2															
CO 4	3	2															
CO 5	3	2															
CO 6	3	2															
U18BSCH2L4 / CHEMISTRY LABORATORY																	
CO 1	3	2															
CO 2	3	2															
CO 3	3	2															
CO 4	3	2															
CO 5	3	2															
CO 6	3	2															
U18ESME1L2 / WORKSHOP/MANUFACTURING PRACTICES LAB (THEORY & LAB.)																	
CO 1	3	2	2														
CO 2	3	2	2														
CO 3	3	2	2														
CO	3	2	2														



4															
CO 5	3	2	2												
CO 6	3	2	2												
U18ESEE1L3 / BASIC ELECTRICAL AND ELECTRONIC ENGINEERING LABORATORY															
CO 1	3	2	3						2						
CO 2	3	2	3						2						
CO 3	3	2	3						2						
CO 4	3	2	3						2						
CO 5	3	2	3						2						
CO 6	3	2	3						2						
U18HSEN201 / TECHNICAL ENGLISH															
CO 1									2		3	2	2		
CO 2									2		3	2	2		
CO 3									2		3	2	2		
CO 4									2		3	2	2		
CO 5									2		3	2	2		
CO 6									2		3	2	2		
ENGINEERING MATHEMATICS -II															
CO 1	3	3		3											
CO	3	3		3											



2															
CO 3	3	3		3											
CO 4	3	3		3											
CO 5	3	3		3											
CO 6	3	3		3											
U18BSPH202 / SEMICONDUCTOR PHYSICS															
CO 1	3	2	2												
CO 2	3	2	2												
CO 3	3	2	2												
CO 4	3	2	2												
CO 5	3	2	2												
CO 6	3	2	2												
U18BSCH201 / ENVIRONMENTAL SCIENCE															
CO 1	3	2	2												
CO 2	3	2	2												
CO 3	3	2	2												
CO 4	3	2	2												
CO 5	3	2	2												
CO 6	3	2	2												
U18ESCS101/ PROBLEM SOLVING AND PYTHON PROGRAMMING															



CO 1	2		2		2				2				3	
CO 2	2		2	3	2				2				3	
CO 3	2		2	3	2				2				3	3
CO 4	2		2		2				2				3	3
CO 5	2		2		2				2				3	3
CO 6	2		2	3	2				2				3	3
U18ESME101 / ENGINEERING GRAPHICS & DESIGN														
CO 1	2		2											
CO 2	2		2											
CO 3	2		2											
CO 4	2		2											
CO 5	2		2											
CO 6	2		2											
U18ESCS1L1 / PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY														
CO 1	2		2		2				2				3	3
CO 2	2		2	3	2				2				3	3
CO 3	2		2	3	2				2				3	3
CO 4	2		2		2				2				3	3
CO 5	2		2		2				2				3	3



CO 6	2		2	3	2				2					3	
U18BSMA303 / PROBABILITY AND STATISTICS															
CO 1	3	3		3										3	
CO 2	3	3		3									2	2	
CO 3	3	3		3										3	
CO 4	3	3		3										2	
CO 5	3	3		3										2	
CO 6	3	3		3									2	2	
U18PCCS301 / DATA STRUCTURES& ALGORITHM															
CO 1	3	2	2											2	
CO 2	3	2	2										2	3	
CO 3	3	2	2											2	
CO 4	3	2	2										3	3	
CO 5	3	2	2										2	3	
CO 6	3	2	2										2	3	
U18PCCS302 / OBJECT ORIENTED PROGRAMMING															
CO 1	3	3	2											2	
CO 2	3	3	2											2	
CO 3	3	3	2											2	
CO	3	3	2											2	



4															
CO 5	3	3	2											2	
CO 6	3	3	2											2	
U18PCCS303 / COMPUTER ORGANIZATION AND ARCHITECTURE															
CO 1	3	3	3											2	
CO 2	3	3	3											2	
CO 3	3	3	3											2	
CO 4	3	3	3												
CO 5	3	3	3											2	
CO 6	3	3	3											2	
U18ESEC303 / DIGITAL ELECTRONICS															
CO 1	2	2	3	2									2	3	
CO 2	2	2	3	2										3	
CO 3	2	2	3	2										3	
CO 4	2	2	3	2										3	
CO 5	2	2	3	2									3	3	
CO 6	2	2	3	2									3	3	
U18PCCS3L1 / DATA STRUCTURES & ALGORITHM LABORATORY															
CO 1	3	2	2											3	
CO 2	3	2	2										3	3	



CO 3	3	2	2											3	
CO 4	3	2	2										3	3	
CO 5	3	2	2										3	3	
CO 6	3	2	2										3	3	
U18PCCS3L2 / OBJECT ORIENTED PROGRAMMING LAB															
CO 1	3	3	2												
CO 2	3	3	2											2	
CO 3	3	3	2											2	
CO 4	3	3	2											2	
CO 5	3	3	2											2	
CO 6	3	3	2											2	
U18ESEC3L3 / DIGITAL ELECTRONICS LABORATORY															
CO 1	2	2	3	2											
CO 2	2	2	3	2											
CO 3	2	2	3	2											
CO 4	2	2	3	2											
CO 5	2	2	3	2											
CO 6	2	2	3	2											
U18BSMA401 / DISCRETE MATHEMATICS															
CO	3	3		3											



1															
CO 2	3	3		3											
CO 3	3	3		3											
CO 4	3	3		3											
CO 5	3	3		3											
CO 6	3	3		3											
U18PCCS401 / CLOUD COMPUTING															
CO 1	3	3	3		2	2									2
CO 2	3	3	3		2	2									2
CO 3	3	3	3		2	2									2
CO 4	3	3	3		2	2									2
CO 5	3	3	3		2	2									2
CO 6	3	3	3		2	2									2
U18PCCS402 / DESIGN AND ANALYSIS OF ALGORITHMS															
CO 1	3	2	2										2	2	
CO 2	3	2	2										2	2	
CO 3	3	2	2											2	
CO 4	3	2	2											2	
CO 5	3	2	2											2	
CO	3	2	2										2	2	



6															
U18PCCS403 / DATABASE MANAGEMENT SYSTEM															
CO 1	3	3	3	2	2				2						
CO 2	3	3	3	2	2				2						
CO 3	3	3	3	2	2				2						
CO 4	3	3	3	2	2				2						
CO 5	3	3	3	2	2				2						
CO 6	3	3	3	2	2				2				3	2	
U18PCCS404 / OPERATING SYSTEMS															
CO 1	3	2	3	2	2	2									
CO 2	3	2	3	2	2	2								3	
CO 3	3	2	3	2	2	2							2	3	
CO 4	3	2	3	2	2	2							2		
CO 5	3	2	3	2	2	2									
CO 6	3	2	3	2	2	2							2	3	
U18PCCS405 / FORMAL LANGUAGES & AUTOMATA THEORY															
CO 1	3	3	3		2	2									
CO 2	3	3	3		2	2									
CO 3	3	3	3		2	2									
CO 4	3	3	3		2	2									



CO 5	3	3	3		2	2									
CO 6	3	3	3		2	2									
U18PCCS4L1 / OPERATING SYSTEM LABORATORY															
CO 1	3	2	3	2	2	2								3	
CO 2	3	2	3	2	2	2								3	
CO 3	3	2	3	2	2	2								3	
CO 4	3	2	3	2	2	2								3	
CO 5	3	2	3	2	2	2							2	3	
CO 6	3	2	3	2	2	2							2	3	
U18PCCS4L2 / DESIGN AND ANALYSIS OF ALGORITHMS LABORATORY															
CO 1	3	2	2										2	3	
CO 2	3	2	2										2	3	
CO 3	3	2	2										2	3	
CO 4	3	2	2										2	3	
CO 5	3	2	2										2	3	
CO 6	3	2	2										2	3	
U18PCCS4L3 / DBMS LAB															
CO 1	3	3	3	2	2				2				2	3	
CO 2	3	3	3	2	2				2				2	3	
CO	3	3	3	2	2				2				2	3	



3															
CO 4	3	3	3	2	2			2				2	3		
CO 5	3	3	3	2	2			2				2	3		
CO 6	3	3	3	2	2			2				2	3		
U18PCCS501 / ARTIFICIAL INTELLIGENCE															
CO 1	3	3	3	3	3	3		3			2			3	
CO 2	3	3	3	3	3	3		3			2			3	
CO 3	3	3	3	3	3	3		3			2			3	
CO 4	3	3	3	3	3	3		3			2			3	
CO 5	3	3	3	3	3	3		3			2			3	
CO 6	3	3	3	3	3	3		3			2			3	
U18PCCS502 / SOFTWARE ENGINEERING															
CO 1	2	3	3	3	2	1	2		2	3	2	3	3		
CO 2	2	3	3	3	2	2					2	2	3		
CO 3	2	3	3	3	2	2					2	2	3		
CO 4	2	3	3	3	2	2					2	2	3		
CO 5	2	3	3	3	2	2					2	2	3		
CO 6	2	3	3	3	2	2					2	2	3		
U18PCCS503 / FUNCTIONAL PROGRAMMING															
CO 1	3	3	2		2										



CO 2	3	3	2		2										
CO 3	3	3	2		2								2	3	
CO 4	3	3	2		2								2	3	
CO 5	3	3	2		2										
CO 6	3	3	2		2										
18PCCS504 / COMPUTER NETWORKS															
CO 1	3	3	3		2	2									
CO 2	3	3	3		2	2								2	
CO 3	3	3	3		2	2								2	
CO 4	3	3	3		2	2								2	
CO 5	3	3	3		2	2								2	
CO 6	3	3	3		2	2								2	
U18HSBA501 / ORGANIZATIONAL BEHAVIOR															
CO 1			2		3		2	3	2	1	1	2			
CO 2			2		3		2	3	2	1	1	2			
CO 3			2		3		2	3	2	1	1	2			
CO 4			3		3		2	3	2	1	1	2			
CO 5			3		3		2	3	2	1	1	2			
CO 6			3		3		2	3	2	1	1	2			



U18PCCS5L1 / SOFTWARE ENGINEERING LABORATORY															
CO 1	2	3	3	3	2	1	2		2	3	2	3	2	3	
CO 2	2	3	3	3	2	2					2	2	2	3	
CO 3	2	3	3	3	2	2					2	2	2	3	
CO 4	2	3	3	3	2	2					2	2	2	3	
CO 5	2	3	3	3	2	2					2	2	2	3	
CO 6	2	3	3	3	2	2					2	2	2	3	
U18PCCS5L2 / NETWORK PROGRAMMING LABORATORY															
CO 1	3	3	3		2	2							3	3	
CO 2	3	3	3		2	2							3	3	
CO 3	3	3	3		2	2							3	3	
CO 4	3	3	3		2	2							3	3	
CO 5	3	3	3		2	2							3	3	
CO 6	3	3	3		2	2							3	3	
U18PCCS601 / COMPILER DESIGN															
CO 1	3	3	3		2	2									
CO 2	3	3	3		2	2								2	2
CO 3	3	3	3		2	2								2	2
CO 4	3	3	3		2	2									
CO	3	3	3		2	2									



5															
CO 6	3	3	3		2	2									
U18PCCS602 / OBJECT ORIENTED SOFTWARE ENGINEERING															
CO 1	2	3	3	3	2	2							3		
CO 2	2	3	3	3	2	2							3		
CO 3	2	3	3	3	2	2							3		
CO 4	2	3	3	3	2	2							3		
CO 5	2	3	3	3	2	2							3		
CO 6	2	3	3	3	2	2							3		
U18PCCS6L1 / COMPILER DESIGN LABORATORY															
CO 1	3	3	3		2	2							2	3	
CO 2	3	3	3		2	2								3	
CO 3	3	3	3		2	2								3	
CO 4	3	3	3		2	2							2	3	
CO 5	3	3	3		2	2								3	
CO 6	3	3	3		2	2								3	
U18PCCS6L2 / OBJECT ORIENTED SOFTWARE ENGINEERING LABORATORY															
CO 1	2	3	3	3	2	2							2	3	
CO 2	2	3	3	3	2	2							2	3	
CO 3	2	3	3	3	2	2								3	



CO 4	2	3	3	3	2	2								3	
CO 5	2	3	3	3	2	2							2	3	
CO 6	2	3	3	3	2	2								3	
U18PCCS701 / BIG DATA ANALYTICS															
CO 1	3	3	3	3	3	2			2			2			3
CO 2	3	3	3	3	3	2			2			2			3
CO 3	3	3	3	3	3	2			2			2			3
CO 4	3	3	3	3	3	2			2			2			3
CO 5	3	3	3	3	3	2			2			2			3
CO 6	3	3	3	3	3	2			2			2			3
U18PCCS7L1 / BIG DATA ANALYTICS LAB															
CO 1	3	3	3	3	3	2			2			2		3	3
CO 2	3	3	3	3	3	2			2			2	2	3	3
CO 3	3	3	3	3	3	2			2			2	2	3	3
CO 4	3	3	3	3	3	2			2			2		3	3
CO 5	3	3	3	3	3	2			2			2	2	3	3
CO 6	3	3	3	3	3	2			2			2		3	3
U18PECS011 / NATURAL LANGUAGE PROCESSING															
CO 1	3	3	3	3	3	2			2			2			
CO	3	3	3	3	3	2			2			2			



2															
CO 3	3	3	3	3	3	2			2			2			
CO 4	3	3	3	3	3	2			2			2			
CO 5	3	3	3	3	3	2			2			2			
CO 6	3	3	3	3	3	2			2			2			
U18PECS012 / NETWORK INFORMATION SECURITY															
CO 1	3	3	3	3	3	3			3			2			
CO 2	3	3	3	3	3	3			3			2			
CO 3	3	3	3	3	3	3			3			2			
CO 4	3	3	3	3	3	3			3			2			
CO 5	3	3	3	3	3	3			3			2			
CO 6	3	3	3	3	3	3			3			2			
U18PECS013 / DATA WAREHOUSING AND DATA MINING															
CO 1	2	2	3		3							3			
CO 2	2		3			2						3			
CO 3			3	2	3				3		3	3			
CO 4	2	2	3		3	2						3			
CO 5					3							2			
CO 6					2				2		3	3			
U18PECS014 / DIGITAL IMAGE PROCESSING															



CO 1	3														
CO 2	3		3												
CO 3				3											
CO 4	3			3											
CO 5			3												
CO 6			3		3										
U18PECS015 / MULTICORE ARCHITECTURE															
CO 1	2	2	1		1										
CO 2	1	2	2												
CO 3	2	2	2	1											
CO 4	1	2	1												
CO 5	1	1	1		1										
CO 6	2	2	2												
U18PECS016 / SERVICE ORIENTED ARCHITECTURE															
CO 1	2														
CO 2		1													
CO 3	1														
CO 4		2													
CO 5	1														



CO 6		2													
U18PECS021 / NEURAL NETWORKS															
CO 1	3					3									
CO 2	3				2	2									
CO 3	3	3				3									
CO 4		3		3											
CO 5	2		3	3											
CO 6	3		3												
U18PECS022 / SOFTWARE AND APPLICATION SECURITY															
CO 1	2	2		2											
CO 2	2	2		3	3										
CO 3	3	3		2											
CO 4	3														
CO 5	3	3	3	2	3										
CO 6	2	2		2											
U18PECS023 / MACHINE LEARNING															
CO 1	3														
CO 2	3														
CO 3		3													
CO			2												



4																
CO 5				2												
CO 6			3													
U18PECS024 / PATTERN RECOGNITION AND SOFT COMPUTING																
CO 1	2	2														
CO 2	3															
CO 3	3	2	3													
CO 4	3	3														
CO 5	2															
CO 6	2			2	2											
U18PECS025 / HIGH PERFORMANCE COMPUTER ARCHITECTURES																
CO 1	2					2										
CO 2	2					2										
CO 3	2					2										
CO 4	2					2										
CO 5	2					2										
CO 6	2					2										
U18PECS026 / SOFTWARE PROCESS AND PROJECT MANAGEMENT																
CO 1	2	3	3	3	2	1	2		2	3	2	3				
CO 2	2	3	3	3	2	2					2	2				



CO 3	2	3	3	3	2	2					2	2			
CO 4	2	3	3	3	2	2					2	2			
CO 5	2	3	3	3	2	2					2	2			
CO 6	2	3	3	3	2	2					2	2			
U18PECS031 / CASE BASED REASONING															
CO 1	3	3	3	3	3				3			2			
CO 2	3	3	3	3	3				3			2			
CO 3	3	3	3	3	3				3			2			
CO 4	3	3	3	3	3				3			2			
CO 5	3	3	3	3	3				3			2			
CO 6	3	3	3	3	3				3			2			
U18PECS032 / CYBER FORENSICS															
CO 1	2	2	2												
CO 2	2	2	1					1							
CO 3	1	2	3					2							
CO 4	2	3	3												
CO 5	1	1	2					2							
CO 6	1	1	2					2							
U18PECS033 / DATA ANALYTICS															
CO	3	3	3	3		2						2			



1															
CO 2	3	2		1	1							2			
CO 3	2	2	1	2		1									
CO 4	3	3	2	1								1			
CO 5	2		3	2	2							1			
CO 6	3			3								2			
U18PECS034 / AUGMENTED REALITY															
CO 1	2		2		2										
CO 2	2		2	3	2										
CO 3	2		2	3	2										
CO 4	2		2		2										
CO 5	2		2		2										
CO 6	2		2	3	2										
U18PECS035 / PARALLEL AND DISTRIBUTED COMPUTING															
CO 1		3	2	3		2				2					
CO 2	1	2		3				2				2			
CO 3						1			2						
CO 4		2	3	2						3					
CO 5	2		2	3								3			
CO	2	3		3								3			



6															
U18PECS036 / SOFTWARE ARCHITECTURE DESIGN															
CO 1	2	3	3	3	2	1	2			2	3	2	3		
CO 2	2	3	3	3	2	2						2	2		
CO 3	2	3	3	3	2	2						2	2		
CO 4	2	3	3	3	2	2						2	2		
CO 5	2	3	3	3	2	2						2	2		
CO 6	2	3	3	3	2	2						2	2		
U18PECS041 / ADVANCED DEEP LEARNING AND COMPUTER VISION															
CO 1		3	2	3		2				2					
CO 2	1	2		3				2					2		
CO 3						1			2						
CO 4		2	3	2						3					
CO 5	2		2	3									3		
CO 6	2	3		3									3		
U18PECS042 / ETHICAL HACKING															
CO 1	2			2		2		3							
CO 2	3	3		3	3	2		2							
CO 3	3	2		2											
CO 4	2	2		3	2	2									



CO 5					3										
CO 6				3											
U18PECS043 / WEB MINING															
CO 1	3	3		3	3	2									
CO 2		3			3		2			2	2				
CO 3		3		3		2									
CO 4			3				2	2				2			
CO 5		3			3										
CO 6	3	3		3											
U18PECS044 / INFORMATION VISUALIZATION															
CO 1	2	3	2		2										
CO 2	2	3	2	3	2										
CO 3	2	3	2	3	2										
CO 4	2	3	2		2										
CO 5	2	3	2		2										
CO 6	2	3	2	3	2										
U18PECS045 / NETWORKED APPLICATIONS AND SERVICES															
CO 1	2		2		3										
CO 2	2		2		3										
CO	2		2		3										



3															
CO 4	2		2		3										
CO 5	2		2		3										
CO 6	2		2	2	3										
U18PECS046 / SOFTWARE ANALYSIS AND TESTING															
CO 1	2	3	3	3	2	2					2	2			
CO 2	2	3	3	3	2	2					2	2			
CO 3	2	3	3	3	2	2					2	2			
CO 4	2	3	3	3	2	2					2	2			
CO 5	2	3	3	3	2	2					2	2			
CO 6	2	3	3	3	2	2					2	2			
U18PECS051 / COGNITIVE MODELING															
CO 1	3														
CO 2	3		3												
CO 3				3											
CO 4	3			3											
CO 5			3												
CO 6			3		3										
U18PECS052 / WEB SECURITY															
CO 1	1	3	3	3	1	2					2	2			



CO 2	1	3	3	3	1	2					2	2			
CO 3	1	3	3	3	1	2					2	2			
CO 4	1	3	3	3	1	2					2	2			
CO 5	1	3	3	3	1	2					2	2			
CO 6	1	3	3	3	1	2					2	2			
U18PECS053 / DATA AND VISUAL ANALYTICS															
CO 1			3		3							3			
CO 2		2									2				
CO 3		2			3							3			
CO 4	2					3					2				
CO 5			2		2							2			
CO 6					3							2			
U18PECS054 / DEEP LEARNING IN COMPUTER VISION															
CO 1	2		2		2				2						
CO 2	2		2	3	2				2						
CO 3	2		2	3	2				2						
CO 4	2		2		2				2						
CO 5	2		2		2				2						
CO 6	2		2	3	2				2						



U18PECS055 / HIGH PERFORMANCE COMPUTING ARCHITECTURES														
CO 1	3													
CO 2	3		3											
CO 3				3										
CO 4	3			3										
CO 5			3											
CO 6			3		3									
U18PECS056 / BUSINESS INTELLIGENCE														
CO 1	3	2												
CO 2	2													
CO 3	3													
CO 4		2												
CO 5	2		2											
CO 6														
U18PECS061 / AUGMENTED REALITY														
CO 1	3	3	3	3	3				3			2		
CO 2	3	3	3	3	3				3			2		
CO 3	3	3	3	3	3				3			2		
CO 4	3	3	3	3	3				3			2		
CO	3	3	3	3	3				3			2		



5															
CO 6	3	3	3	3	3				3			2			
block chain															
CO 1	1	3	3	3	1	2					2	2			
CO 2	1	3	3	3	1	2					2	2			
CO 3	1	3	3	3	1	2					2	2			
CO 4	1	3	3	3	1	2					2	2			
CO 5	1	3	3	3	1	2					2	2			
CO 6	1	3	3	3	1	2					2	2			
U18PECS063 / BIG DATA FOR HEALTHCARE															
CO 1	2	3				3	2	3		3	2				
CO 2	3		3	3	3										
CO 3	3		3	3	3										
CO 4	3		3	3	3										
CO 5	3	3	2		3										
CO 6			3	3	3										
U18PECS064 / MEDICAL IMAGING AND INVERSE PROBLEMS															
CO 1			1												
CO 2	2		1		2										
CO 3	2		2	1							1				



CO 4	3	2	2	1	2						1				
CO 5	1		2		1										
CO 6		2		2											
HIGH PERFORMANCE COMPUTING TOOLS AND APPLICATIONS															
CO 1	3	3	3	3	1										
CO 2	3	3	3	3	2	1									
CO 3	3	3	3	3	3						2	3			
CO 4	3	3	3	3	3						2	3			
CO 5	3	3	3	3	3	1			2		2	3			
CO 6	3	3	3	3	3				2		2	3			
U18PECS066 / ENTERPRISE APPLICATION INTEGRATION															
CO 1	2														
CO 2		S													
CO 3	S														
CO 4		2													
CO 5	S														
CO 6		2													
U18OECS001 / MOBILE APPLICATION DEVELOPMENT															
CO 1	2		3		2										
CO	2		3		2										



2															
CO 3	2		3		2										
CO 4	2		3		2										
CO 5	2		3		2										
CO 6	2		3		2										
U18OECS002 / SYSTEM MODELLING AND SIMULATION															
CO 1	2		2												
CO 2	2		2												
CO 3	2		2												
CO 4	2		2												
CO 5	2		2												
CO 6	2		2												
U18OECS003 / WEB PROGRAMMING															
CO 1	2		3		2										
CO 2	2		3		2										
CO 3	2		3		2										
CO 4	2		3		2										
CO 5	2		3		2										
CO 6	2		3		2										
U18OECS004 / VIRTUAL REALITY															



CO 1	1	3	3	3	1	2					2	2			
CO 2	1	3	3	3	1	2					2	2			
CO 3	1	3	3	3	1	2					2	2			
CO 4	1	3	3	3	1	2					2	2			
CO 5	1	3	3	3	1	2					2	2			
CO 6	1	3	3	3	1	2					2	2			
U18OECS005 / E COMMERCE															
CO 1							3	2			2				
CO 2							3	2			2				
CO 3							3	2			2				
CO 4							3	2			2				
CO 5							3	2			2				
CO 6							3	2			2				

CURRICULUM 2015 CO - PO ARTICULATION MATRIX

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
BEN101 / ENGLISH - I															
CO1	3	3	3	3	3	2	1	1	3	3	3	3			
CO2							1								
CO3	3						3		3			3			



CO4	3	2				2	1	3	3			3			
CO5							1								
CO6	3		3	3	3	3	1		3	3	2	3			
BMA101 / MATHEMATICS I															
CO1	3														
CO2			2		3										
CO3		3				2									
CO4								1							
CO5							3			1					
CO6											1				
PH101 / ENGINEERING PHYSICS I															
CO1	3						2			3					
CO2		1	3		2				2		1	3			
CO3															
CO4	3		2	1						1		2			
CO5		1	1								1	1			
CO6															
BCH101 / ENGINEERING CHEMISTRY - I															
CO1	3						3								
CO2		1	3		2										
CO3		2		3											
CO4	3		2	1			3								
CO5		1	1												
CO6	3						3								
BCS101 / FUNDAMENTALS OF COMPUTING AND PROGRAMMING															
CO1	3					3								2	
CO2		1	3		2									2	
CO3		1		2										2	
CO4	2		2	2		2								2	



CO5		1	1											2	
CO6	3					3								2	
BFR 101 / FRENCH															
CO1	3	1													
CO2			3	1				3	3	2	1	1			
CO3			3	1				3	3	2	1	1			
CO4			3					3	3	2	1	1			
CO5			3	1				3	3	2		1			
CO6			3					3	3	2		1			
BGM101 / GERMAN															
CO1	3	1													
CO2			3	1				3	3	2	1	1			
CO3			3	1				3	3	2	1	1			
CO4			3					3	3	2	1	1			
CO5			3	1				3	3	2		1			
CO6			3					3	3	2		1			
BJP 101 / JAPANESE															
CO1	3	1													
CO2			3	1				3	3	2	1	1			
CO3			3	1				3	3	2	1	1			
CO4			3					3	3	2	1	1			
CO5			3	1				3	3	2		1			
CO6			3					3	3	2		1			
BKR 101 / KOREAN															
CO1	3	1													
CO2			3	1				3	3	2	1	1			
CO3			3	1				3	3	2	1	1			
CO4			3					3	3	2	1	1			
CO5			3	1				3	3	2		1			



CO6			3					3	3	2		1			
BCN 101 / CHINESE															
CO1	3	1													
CO2			3	1				3	3	2	1	1			
CO3			3	1				3	3	2	1	1			
CO4			3					3	3	2	1	1			
CO5			3	1				3	3	2		1			
CO6			3					3	3	2		1			
BME 102 / ENGINEERING GRAPHICS - C															
CO1	3											3			
CO2	2	3										2			
CO3			1									2			
CO4						1		3	3			1			
CO5			1						3			1			
CO6			1							3		1			
BEE 101 / BASIC ELECTRICAL AND ELECTRONICS ENGINEERING															
CO1	2	3	2			1		1	1						
CO2		3	2			1		1	1						
CO3		3	2			1		1							
CO4	2	3	2			1		1	1						
CO5	2	3	2			1		1							
CO6		3				1		1	3						
BCS 1L2 / COMPUTER PRACTICE LABORATORY															
CO1	3	3	1	3		3		1		3	3	3		3	
CO2						3	3	1						3	
CO3						3	3	1		2				3	
CO4						3	3	1		2				3	
CO5						3	3	1		2				3	
CO6						3	3	1		2				3	



BEE1L1 / BASIC ELECTRICAL AND ELECTRONIC ENGINEERING PRACTICES LABORATORY															
CO1	2	3	2			1		1	1	2	3				
CO2		3	2			1		1	1		3				
CO3		3	2			1		1			3				
CO4	2	3	2			1		1	1	2	3				
CO5	2	3	2			1		1		2	3				
CO6		3				1		1	3		3				
BPC 1L1/2L1 / PHYSICS AND CHEMISTRY LABORATORY															
CO1	2	3	2			1		1	1	2	3	2			
CO2		3	2			1		1	1		3				
CO3		3	2			1		1			3				
CO4	2	3	2			1		1	1	2	3	2			
CO5															
CO6		3				1		1	3		3				
BEN 201 / ENGLISH II															
CO1	2	1	3	1	2			3		2	1				
CO2			3	1				3		2	1				
CO3			3	1	2			3		3	1				
CO4			3	1	2			3		2	1				
CO5			3	1	2			3		2	1				
CO6			3	1	2			3		2	1				
BMA 201 / MATHEMATICS – II															
CO1	3		1												
CO2		3				3		1	1		2				
CO3		3				3		1	1		2				
CO4					2						2				
CO5										2	2				
CO6										2					
BPH201 / ENGINEERING PHYSICS -II															



CO1	3														
CO2		1	3		2										
CO3		2		3											
CO4	3		2	1											
CO5		1	1												
CO6	3														
BCH 201 / ENGINEERING CHEMISTRY-II															
CO1	3	3	1		3		3				2				
CO2		3			3		3								
CO3	3		1		3		3				2				
CO4			1		3		3								
CO5			1		3		3								
CO6			1		3		3		3		2				
BCS 202 / INTERNET PROGRAMMING															
CO1	2	2	2	3	2		2			1	1	2			
CO2	3	2	2	3	3		2			1	1	2			
CO3	3	2		3	3		2			1	1	2			
CO4	3	2		3	3		2			1	1	2			
CO5	3	2	2	3	3		2			1	1	2			
CO6	3			3	3		2			1	1	2			
BSS201 / PERSONALITY DEVELOPMENT															
CO1	1		3				2								
CO2		3	3				2								
CO3							2	3							
CO4									3	3					
CO5							2			3	3				
CO6							2					1			
BBT202 / BIOLOGY FOR ENGINEERS															
CO1	3						2								



CO2		3							3						
CO3			3							2					
CO4										3					
CO5															
CO6						3						2			
BME201 / BASIC MECHANICAL ENGINEERING															
CO1	2	2	2	3	2		2			1	1	2			
CO2	3	2	2	3	3		2			1	1	2			
CO3	3	2		3	3		2			1	1	2			
CO4	3	2		3	3		2			1	1	2			
CO5	3	2	2	3	3		2			1	1	2			
CO6	3			3	3		2			1	1	2			
BCE 201 / BASIC CIVIL ENGINEERING															
CO1	3	3			3		1								
CO2					3	3									
CO3							3	1							
CO4									1						
CO5										3	1				
CO6															
BCS2L1 / INTERNET PRACTICES LABORATORY															
CO1	2	2	2	3	2		2			1	1	2			
CO2	3	2	2	3	3		2			1	1	2			
CO3	3	2		3	3		2			1	1	2			
CO4	3	2		3	3		2			1	1	2			
CO5	3	2	2	3	3		2			1	1	2			
CO6	3			3	3		2			1	1	2			
BCM1L1 / BASIC CIVIL & MECHANICAL ENGINEERING PRACTICES LABORATORY															
CO1	3	1													
CO2				3											



CO3					3	1	1								
CO4		3				2		1				3			
CO5		3				2		1				3			
CO6		3				2		1				3			
BPC 1L1/2L1 /PHYSICS AND CHEMISTRY LABORATORY															
CO1	2	3	2			1		1	1	2	3	2			
CO2		3	2			1		1	1		3				
CO3		3	2			1		1			3				
CO4	2	3	2			1		1	1	2	3	2			
CO5		3				1		1	3		3				
CO6															
BMA301 / MATHEMATICS – III															
CO1	2														
CO2		2	3		3										
CO3		2		3											
CO4	3			2											
CO5	3			2	3										
CO6															
BCS301 / DATA STRUCTURES															
CO1	2	3	3	3	2	2		2			2	3		3	
CO2			3		3	2							2	2	
CO3	2				3									3	
CO4		3	2	2				2					3	2	
CO5	1		3		3	2					2	2	2	2	
CO6			2	2	3	1		1			2	3	2	2	
BCS302 / SYSTEM MODELLING AND SIMULATION															
CO1	2	3	3	3	2	2		2			2	3	2		
CO2			3		3	2							2		
CO3	2				3								2		



CO4		3	2	2				2					2		
CO5	1		3		3	2					2	2	2		
CO6			2	2	3	1		1			2	3	2		
BCS303 / COMPUTER ORGANIZATION AND ARCHITECTURE															
CO1	2	3	3	3	2	2		2			2	3			
CO2			3		3	2									
CO3	2				3									2	
CO4		3	2	2				2							
CO5	1		3		3	2					2	2		2	
CO6			2	2	3	1		1			2	3			
BCS304 / DIGITAL COMPUTER FUNDAMENTALS															
CO1	3	3	3	2	2	2	3	3	2		2	3		2	
CO2	2	3	2	3						2					
CO3	2		3	3	3	1	3	2			2	2			
CO4	3	2							2	2	3	2			
CO5	3		3	2		3	2	2			2			2	
CO6	2	3	2		2				1	1		2			
BEC305 / ELECTRONICS CIRCUITS															
CO1	3	3		3	2	2	2	2	2	1	3	2		2	
CO2	3	3	2	3	3	2				2		3			
CO3	3	2		3				2							
CO4	3	3	2				3	1	2	2	2	2			
CO5	3	3		3	3	2								2	
CO6	3	2		3	3	2	2	2	2	1	2	3			
BCS3L1 / DATASTRUCTURES USING C LAB															
CO1	2	2	2	3	2		2		3	1	1	2	2	3	
CO2	3	2	2	3	3		2	2		1	1	2	2	3	
CO3				3	3				2				2	3	
CO4	3				2							1	2	3	



CO5		2	2	3	3		2	3		1	1	2	2	3	
CO6	3			3	3		2	2	3	1	1	2	2	3	
BEC3L2 / ELECTRONICS CIRCUITS LABORATORY															
CO1	3	3		3	2	2	2	2	2	1	3	2		3	
CO2	2	3	2	3	3	2				2		3		3	
CO3		2		3				2						3	
CO4	3	3	2				3	1	2	2	2	2		3	
CO5		3		3	3	2							2	3	
CO6	2	2		3	3	2	2	2	2	1	2	3		3	
BCS3L2 / OBJECT ORIENTED PROGRAMMING LAB															
CO1	2	3	3		3	2	2	2	3	3	3	3		2	
CO2									2						
CO3		3	3	2	2		3		3		3	3			
CO4	2					1		2		2					
CO5			2		3		2		2		2	2		2	
CO6	1	2	2		2	2		1	2	2	3				
BMA402 / NUMERICAL METHODS															
CO1	3	3	2	3	2			2				3			
CO2	3	3													
CO3	3	3	1	2	2							2			
CO4	2	2						2							
CO5	3	3	1	3	3										
CO6	2	2						3				3			
BCS401 / DATABASE MANAGEMENT SYSTEM															
CO1			S									S	2	2	
CO2		2	2		3	1		2	2	1		S	2	2	
CO3		S	S	2			2					2		2	
CO4					2									2	
CO5			S						2	2		2		2	



CO6	2	S		1	2			2			2				
BCS402 / DESIGN AND ANALYSIS OF ALGORITHM															
CO1	2	2	2	3	2		2			1	2	2			
CO2	3	2	2	3	3		2		2			2			
CO3				3	3			2						2	
CO4	2										2	1		2	
CO5		2	2	3	3		2			2		2			
CO6	1			3	3		2		2			2		2	
BCS403 / SYSTEM SOFTWARE															
CO1	3	3		3								3			
CO2	3	3	3	3				2		2				2	
CO3	2	3	3	2							2			2	
CO4	3	3	3	3		1				2		2			
CO5	1	3	3	3											
CO6			2	2								2		2	
BCS405 / OPERATING SYSTEMS															
CO1	2		3			3	1		2	1	2	3		2	
CO2		3	3		3	2						3		2	
CO3						3		2				2		2	
CO4		2	3	3	2	3	2			2	3	3			
CO5	2	2	3			2			2			2			
CO6		2	2					3			2	1		2	
BCE406 / ENVIRONMENTAL STUDIES															
CO1						3	3	3				3			
CO2						3	3	2				2			
CO3							2	3				3			
CO4							3	3				3			
CO5						3		2				2			
CO6							2	3							



BCS4L1 / DBMS LABORATORY														
CO1			S									S	2	3
CO2		2	2		3	1		2	2	1		S	2	3
CO3		S	S	2			2					2	2	3
CO4					2								2	3
CO5			S						2	2		2	2	3
CO6	2	S		1	2			2			2		2	3
BCS4L2 / OPERATING SYSTEM LABORATORY														
CO1		3	3		3				2			3	2	3
CO2		3	3		3								2	3
CO3		3	3		2							2		3
CO4		2			3							3		3
CO5		3	2		2									3
CO6		3	2		2				2			3		3
BCS4L3 / COMPUTER GRAPHICS AND MULTIMEDIA LABORATORY														
CO1		3	3		3							3	3	3
CO2		3	2		3								3	3
CO3		3			2							2	3	3
CO4		2	3		3							3	3	3
CO5		3	2		2								3	3
CO6		3	2		3							3	3	3
BMA501 / DISCRETE MATHEMATICS														
CO1	3	3		3								2		
CO2	3	3		3										
CO3	3	2		3					2					
CO4	3	3		3								2		
CO5	2													
CO6	3			2										
BCS501 / SOFTWARE ENGINEERING														



CO1	2	3	3	3	3	2		2	3	2	3	3	3		
CO2		3			3								3		
CO3			3	3				3	2	3	2	2	3		
CO4					2								3		
CO5	2	2	2	2		2		2	3		3		3		
CO6		2	3		3				3	2		3	3		
BEC501 / MICROPROCESSOR AND ITS APPLICATIONS															
CO1	2		2	2	3									2	
CO2		2												2	
CO3							2								
CO4	2				2	1									
CO5				2											
CO6	2	1	1												
BCS502 / COMPUTER NETWORKS															
CO1	F		3	3	2	1	2	2	2	1	2	S	2		
CO2			3	3		2		2			2				
CO3	2		2	3				2				2			
CO4			3	3	3		3		2		2				
CO5			2	2		2		3		2					
CO6	1		3	3								2	2		
BCS5L1 / NETWORKING LABORATORY															
CO1			3	3	2	1	2	2	2	1	2	S	2	3	
CO2			3	3		2		2			2		2	3	
CO3	2		2	3				2				2	2	3	
CO4			3	3	3		3		2		2		2	3	
CO5			2	2		2		3		2			2	3	
CO6	1		3	3								2	2	3	
BEC5L2 / MICROPROCESSOR LABORATORY															
CO1	2		2	2	3									2	



CO2		2												2	
CO3							2							2	
CO4	2		3		2	1								2	
CO5				2										2	
CO6	2	1	2											2	
BCS 5L2 / SOFTWARE ENGINEERING LABORATORY															
CO1	2	3	3	3	3	2		2	3	2	3	3	2		
CO2		3			3								2		
CO3			3	3				3	2	3	2	2	2		
CO4					2								2		
CO5	2	2	2	2		2		2	3		3		2		
CO6		2	3		3				3	2		3	2		
BCS601 / DATA WAREHOUSING AND DATA MINING															
CO1	2	2	3		3							3			
CO2	2		3			2						3	2		
CO3			3	2	3				3		3	3			
CO4	2	2	3		3	2						3			
CO5					3							2			
CO6					2				2		3	3			
BSS601 / VALUE EDUCATION AND PROFESSIONAL ETHICS															
CO1			2		3		2	3	2	1	1	2			
CO2			2		3		2	3	2	1	1	2			
CO3			2		3		2	3	2	1	1	2			
CO4			3		3		2	3	2	1	1	2			
CO5			3		3		2	3	2	1	1	2			
CO6			3		3		2	3	2	1	1	2			
BCS602 / DISTRIBUTED COMPUTING															
CO1		3	2	2	2						3				
CO2			3					2	2			3	2		



CO3	2														
CO4		2	2							3					
CO5				2	2						2				
CO6	2	2	3					2			2				
BCS603 / PRINCIPLES OF COMPILER DESIGN															
CO1	F	3		3							3				
CO2	3	3	3	3								2	2		
CO3	2	3	3	2								2	2		
CO4	3	3	3	3							2				
CO5	1	3	3	3											
CO6			2	2							2				
BCS6L1 / DATA WAREHOUSING AND DATA MINING LABORATORY															
CO1	2	2	3		3						3		2		
CO2	2		3			2					3	2	2		
CO3			3	2	3			3		3	3		2		
CO4	2	2	3		3	2					3		2		
CO5					3						2		2		
CO6					2			2		3	3		2		
BCS6L2 / C# AND .NET LABORATORY															
CO1		3	3		3			3			3		2	3	
CO2		3	3		3			3			3		3	3	
CO3		3	3		3			3			3		3	3	
CO4		3	3		3			3			3		3	3	
CO5		2									2		2	3	
CO6			3		2			2			3		2	3	
BCS6L3 / PROGRAMMING IN JAVA LABORATORY															
CO1		3	3	3	3				3		3	2		2	
CO2														2	
CO3	2	2	3	3	3			2		2	3			2	



CO4									3			3		2	
CO5		3	3	2										2	
CO6	1	3	2		2			3	2		2	2		2	
BCS701 / GRID AND CLOUD COMPUTING															
CO1		3	2	2	2						3				3
CO2			3					2	2			3		2	3
CO3	2														3
CO4		2	2								3				3
CO5				2	2							2			3
CO6	2	2	3					2			2				3
BCS702 / MOBILE AND PERVASIVE COMPUTING															
CO1	2		3									2			
CO2	2		3										2		
CO3			3					2							
CO4			3									2			
CO5	2		2										2		
CO6								2							
BCS 703 / WEB TECHNOLOGY															
CO1			3											2	
CO2	2		3		2							2		2	
CO3			3										2	2	
CO4			3									2		2	
CO5	2				3									2	
CO6	1		2		2							2		2	
BCS704 / ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS															
CO1		3		3											3
CO2	2			3		2						2			3
CO3				3		2	2								3
CO4		2		3								2			3



CO5	2			3		3								3
CO6	1	2		2		2						3		3
BCS7L1 / GRID AND CLOUD COMPUTING LABORATORY														
CO1		3	2	2	2						3		3	3
CO2			3					2	2			3	3	3
CO3	2												3	3
CO4		2	2								3		3	3
CO5				2	2							2	3	3
CO6	2	2	3					2			2		3	3
BCS7L2 / WEB TECHNOLOGYLABORATORY														
CO1			3										2	3
CO2	2		3		2							2	2	3
CO3			3										2	3
CO4			3									2	2	3
CO5	2				3								2	3
CO6	1		2		2							2	2	3
BCS7P1 / TERM PAPER														
CO1	3	3	3	3	2	2	2	3	3		2	3		
CO2		3	3	3	3			3	3			3		
CO3		3	2	3	2			3	3		2	3		
CO4	2	2	2	3	2	3	1	3	3			2		
CO5		3		3	2			2	2		3	3		
CO6	2	2	3	3	3	2	2	3	3		2	2		
BCS001 / PARALLEL COMPUTING														
CO1	2	3		3								3		
CO2		3	2	3										
CO3	1	2		3								2		
CO4														
CO5		2	3	2										



CO6	2		2	3							3			
BCS002 / DATA SCIENCE														
CO1	2	3	2		3				2		3	3		
CO2								2						
CO3	2				3				2		3	3		
CO4		2	3						2					
CO5					2							2		
CO6	1	2	3		3			2	3		2	3		
BCS003 / SOFTWARE RELIABILITY														
CO1	2	3	3	3	3	2		2	3	2	3	3		
CO2		3			3									
CO3			3	3				3	2	3	2	2		
CO4					2									
CO5	2	2	2	2		2		2	3		3			
CO6		2	3		3				3	2		3		
BCS004 / VHDL														
CO1	2	3		3								3		
CO2		3	2	3		2								
CO3	1	2		3				2	2			2		
CO4							1							
CO5		2	3	2		1				2				
CO6	2		2	3								3		
BCS005 / BIG DATA ANALYTICS														
CO1			3		3							3		
CO2		2									2			
CO3		2			3							3		
CO4	2					3					2			
CO5			2		2							2		
CO6					3							2		



BCS006 / SOFTWARE QUALITY ASSURANCE															
CO1	2	3	3	3	3	2		2	3	2	3	3			
CO2		3			3										
CO3			3	3				3	2	3	2	2			
CO4					2										
CO5	2	2	2	2		2		2	3		3				
CO6		2	3		3				3	2		3			
BCS007 / COMPUTER VISION															
CO1	2	3		3								3			
CO2		3	2	3		2				2					
CO3	1	2		3				2				2			
CO4						1			2						
CO5		2	3	2						3					
CO6	2		2	3								3			
BCS008 / BIO INSPIRED COMPUTING															
CO1			3		3			2		2		3			
CO2		2									2				
CO3		2			3		1		2			3			
CO4	2					3		2			2				
CO5			2		2					2		2			
CO6					3							2			
BCS009 / REAL TIME SOFTWARE TESTING															
CO1	2	3	3	3	3	2		2	3	2	3	3			
CO2		3			3										
CO3			3	3				3	2	3	2	2			
CO4					2										
CO5	2	2	2	2		2		2	3		3				
CO6		2	3		3				3	2		3			
BET407 / DIGITAL SIGNAL PROCESSING															



CO1	2	1													
CO2	3		2	1											
CO3	3			2											
CO4	3	2													
CO5	2		2												
CO6	3	2		2											
BET702 / CELLULAR MOBILE COMMUNICATION															
CO1	W														
CO2	3	2													
CO3	2														
CO4	3	2		2											
CO5															
CO6	2			2											
BBR701 / BIOSAFETY, BIOETHICS, IPR & PATENTS															
CO1	2					2			3		3				
CO2															
CO3	3	3		2	3					2		2			
CO4															
CO5	3	2	3							3					
CO6	2			2	3							2			
BBM405 / BIOSENSORS AND TRANSDUCERS															
CO1	2	3	2	3	3	2	3			1	2				
CO2	2	3	2	3	3	2	3			1	2				
CO3	2	3	2	3	3	2	3			1	2				
CO4	2	3	2	3	3	2	3			1	2				
CO5	2	3	2	3	3	2	3			1	2				
CO6	2	3	2	3	3	2	3			1	2				
BBM054 / BIOINFORMATICS															
CO1			3												



CO2			3	3		2									
CO3		2		3		3									
CO4	3	2		3											
CO5			3		3										
CO6															
BET603 / TELECOMMUNICATION SWITCHING NETWORKS															
CO1	2	2	2												
CO2	3	3	1	1											
CO3	2	2	3	2	1										
CO4	2		1												
CO5	3	2													
CO6	2		2		2										
BET605 / TELECOMMUNICATION SWITCHING AND SYSTEM MODELLING															
CO1	2	1													
CO2	3	2													
CO3	2	1													
CO4	2	3	2	1											
CO5	3	2	2	3											
CO6	2	2	1	2											
BBA001 / PRINCIPLES OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOUR															
CO1	3					3					3				
CO2		3		2					3						
CO3	2							2		3					
CO4			2	3							3				
CO5								2							
CO6				3								1			
BBM604 / DIGITAL AND MEDICAL IMAGE PROCESSING															
CO1	3			S	2			2				2			
CO2		3	2												



CO3	2			3					3					
CO4			3		3		2							
CO5		3	2						3					
CO6	2				3							2		
BBM604 / MEDICAL INFORMATICS														
CO1	3				2			2				2		
CO2			2											
CO3	2			3										
CO4					3		2			3				
CO5	2		2			2								
CO6			2							2		2		
BET301 / PRINCIPLES OF ANALOG AND DIGITAL SYSTEM														
CO1	3	2												
CO2	3	2	S	1										
CO3	3	3												
CO4	3	2	2											
CO5	2	2												
CO6	3													
BEC405 / LINEAR INTEGRATED CIRCUITS														
CO1	2	1												
CO2	2													
CO3	3	2	2											
CO4	2													
CO5	2													
CO6		2	2											
BET703 / SATELLITE COMMUNICATION														
CO1	2			3										
CO2	2	3	2											
CO3	3	2	2	1										



CO4	1	2		2											
CO5															
CO6	2	3	2	2											
BBM055 / TELEMEDICINE															
CO1				2											
CO2		3	3	2		2									
CO3		2				3			2			3			
CO4	3			3					3			`			
CO5			3		3										
CO6						2						2			
BBR404 / GENOMICS AND PROTEOMICS															
CO1	3														
CO2		1	3		2										
CO3		2		3											
CO4	3		2	1											
CO5					2										
CO6	2		2	1											
BCS010 / TCP/IP PRINCIPLES AND ARCHITECTURE															
CO1	1					3						2			
CO2		2				3									
CO3	1	2										2			
CO4	2					2									
CO5	1	2				2						2			
CO6		3				2						2			
BCS011 / PERFORMANCE EVALUATION IN COMPUTER SYSTEMS															
CO1	2											3			
CO2	1	2													
CO3		2	2					2	2						
CO4	2											2			



CO5	2				2							3			
CO6															
BCS012 / ADVANCED COMPUTER NETWORKS															
CO1	2		3												
CO2	1	2	2	3								2			
CO3	2	2	2	2											
CO4	2		3									2			
CO5	1			3	2										
CO6															
BCS013 / MOBILE COMMUNICATION															
CO1	F		3									2			
CO2	2		3												
CO3			3				2								
CO4			3									2			
CO5	2		2												
CO6							2								
BCS014 / HIGH SPEED NETWORKS															
CO1	2	2	3	3											
CO2		2	3	3											
CO3			3	3											
CO4			3	3											
CO5		3													
CO6	2	2	3	2											
BBA009 / INTELLECTUAL PROPERTY RIGHTS															
CO1	3					3					3				
CO2		3		2				3							
CO3	2						2		3						
CO4			2	3							3				
CO5							2								



CO6	3			3					2			1			
BCS015 / PHP PROGRAMMING															
CO1			3												
CO2	2		3		2							2			
CO3			3												
CO4			3									2			
CO5	2				3										
CO6	1		2		2							2			
BCS016 / VIRTUAL REALITY															
CO1	3	3		3	3										
CO2	3	3		3								2			
CO3		2													
CO4	3			2	2										
CO5												2			
CO6	2	3		3	2										
BCS017 / E COMMERCE															
CO1								3							
CO2	2				2			3							
CO3	2							3			3				
CO4	2							3							
CO5					2						2				
CO6	2							3			2				
BCS018 / ADVANCED WEB DESIGN															
CO1			3												
CO2			3		3										
CO3			3		2						2				
CO4															
CO5															
CO6			2		3						2				



BCS019 / OBJECT ORIENTED DATA BASE DESIGN

CO1			3								3			
CO2		2	3							2	3			
CO3		2	3							2	3			
CO4														
CO5		3	2											
CO6										3	2			

3.2. Attainment of Course Outcomes (75)

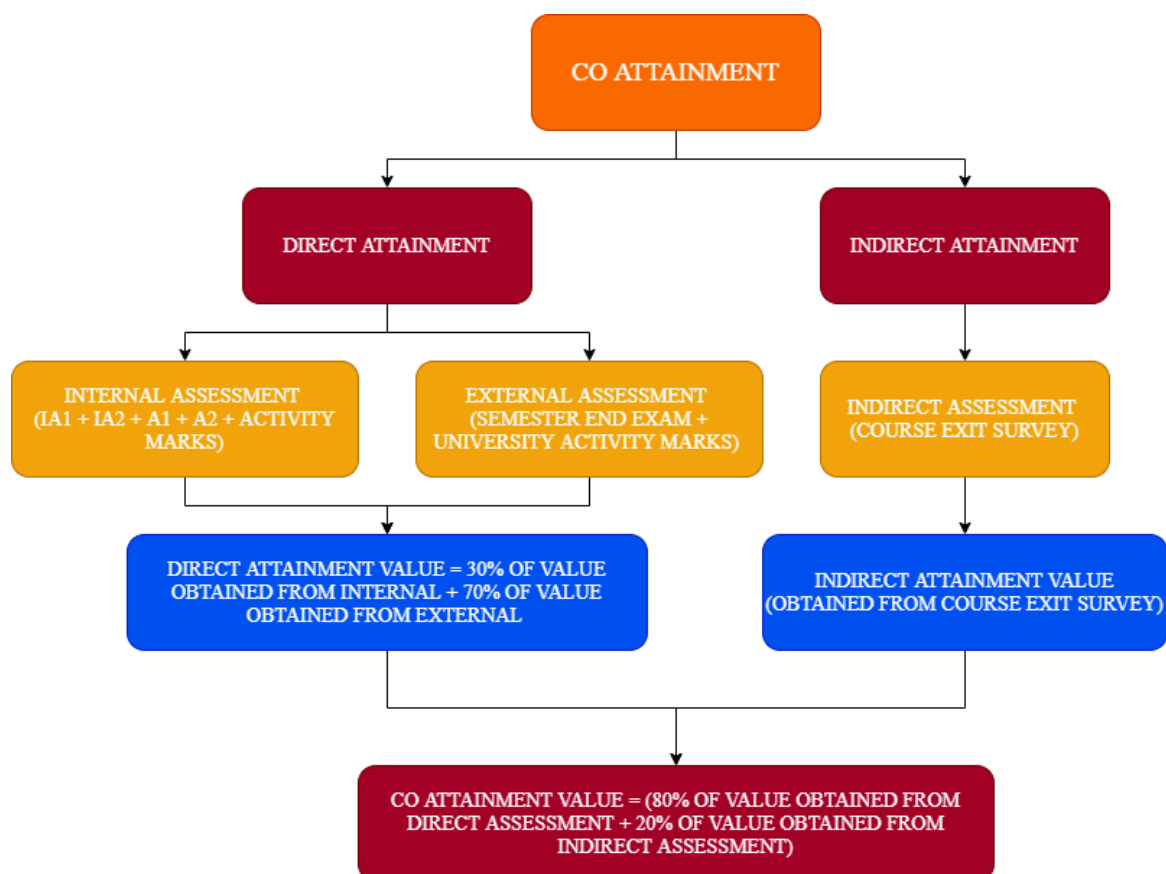
3.2.1 Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Table 3.2.1 Assessment Tools

Assessment Tool	Assessment Tool Title	Tool Description
Direct Assessment	Continuous Assessment Tests (CAT)	This performance assessment tool is used to evaluate attainment of COs through direct questions related to the specific topics covered during a designated period. CAT is conducted for all the courses which are delivered through lectures and/or tutorials.
	Assignment	Attainment of Course Outcomes (COs) is measured through questions prepared by faculty to critically test strength of. This tool is useful to test the responsiveness of the student in identifying, formulating and solving problems given by the faculty. It also helps to gauge written presentation skills of the students.
	End Semester Examinations	This tool examines at all cognitive levels the ability and understanding of the Examinations students with respect to the concepts taught and their applicability in solving complex engineering problems. The ability of the students to understand and apply knowledge of mathematics, science and engineering concepts in solving engineering problems is keenly evaluated.
Indirect Assessment	Course Exit Survey	Towards the end of the course, course exit survey on a 5-point scale is conducted by the faculty member offering the course to obtain student feedback about



		attainment of Course outcome. Students are required to provide their views on the methods adopted by faculty member for delivering the course content and the assessment tools used for evaluating performance. Sample format for Course Exit Survey is presented in Annexure.



CO Attainment Calculation

Regulation 2018

Direct Attainment = 30% internal attainment + 70% university attainment

$$\text{Internal Attainment} = \frac{\text{Marks obtained in AT1+AT2+A1+A2}}{\text{Marks allotted for AT1+AT2+A1+A2}} * 100$$

$$\text{University Attainment} = \frac{\text{Marks obtained}}{\text{Marks Allotted}} * 100$$

Regulation 2015

Direct Attainment = 40% internal attainment + 60% university attainment



$$\text{Internal Attainment} = \frac{\text{Marks obtained in AT1 + AT2 + A1 + A2}}{\text{Marks allotted for AT1 + AT2 + A1 + A2}} * 100$$

$$\text{University Attainment} = \frac{\text{Marks obtained}}{\text{Marks Allotted}} * 100$$

Indirect Attainment IDA(CO_i) - Course Exit Survey Report

Total Attainment = 80% Direct attainment + 20% Indirect attainment

$$Att(CO_i) = 0.8 * DA(CO_i) + 0.2 * IDA(CO_i)$$

Theory Courses Assessment Pattern-Regulation 2015

S.No	Components for Internal Assessment	Syllabus Coverage for the test / exam	Duration of the test in Minutes.	Marks (max.)
01.	Internal Test – I	2.5 Units of the Syllabus	90	15
02.	Internal Test – II	Next 2.5 Units of the Syllabus	90	15
03	Seminar/Assignment/Online Test/Quiz	-	-	10
Total				40

Practical Courses Assessment Pattern-Regulation 2015

Items	Marks (Maximum)
Observation	10
Record	10
Viva	10
Model Practical	10
Total	40

Theory Courses Assessment Pattern-Regulation 2018

S.No	Components for Internal	Syllabus Coverage for the	Duration of the	Marks



	Assessment	test / exam	test in Minutes.	(max.)
01	Internal Test – I	2.5 Units of the Syllabus	90	10
02	Internal Test – II	Next 2.5 Units of the Syllabus	90	10
03	Seminar /Assignment /Online Test /Quiz	-	-	10
Total				30

Practical Courses Assessment Pattern-Regulation 2018

Items	Marks (Maximum)
Observation	10
Viva	5
Record	5
Model Practical	10
Total	30

The End Semester Examination question paper pattern is given below:

Syllabus Coverage	Duration of the Exam in Hours	Question Pattern
Full Syllabus	3	Part – A, 10x2 = 20 Short answer Type, 10 questions each carrying 2 marks. 2 questions from each unit. Part – B, 5x6 = 30 Para /Analytical Type, 5 questions, one from each unit EITHER - OR type. Part – C, 5x10 = 50 Essay/Design/Analytical Type, 5 questions out of 7 covering the full syllabus
		Max mark = 100

GRADE POINTS AND ITS DESCRIPTION



Mark Range	Grade	Points	Results
90-100	S	10	Pass
80-89	A	9	Pass
70-79	B	8	Pass
60-69	C	7	Pass
55-59	D	6	Pass
50-54	E	5	Pass
0-49	U	0	Reappear
W	W	-	Withdrawn
I	I	-	Incomplete

MEASURING TOOLS

All COs are equally distributed.

Assessment Tools	CO1	CO2	CO3	CO4	CO5	CO6
CAT 1	✓	✓	✓			
CAT 2				✓	✓	✓
Assignment 1	✓	✓	✓			
Assignment 2				✓	✓	✓
University Theory Exam	✓	✓	✓	✓	✓	✓



3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels

BCS301 - Data Structures																	
	MARKS ALLOTTED				MARKS OBTAINED				CO ATTAINMENT AVERAGE FROM	END SEMESTER EXAM		CO ATTAINMENT AVERAGE FROM END SEMESTER EXAM	DIRECT CO ATTAINMENT	INDIRECT CO ATTAINMENT (OBTAINED FROM EXIT	TOTAL CO ATTAINMENT (%)	TARGET [CLASS AVERAGE] (%)	CO ATTAINMENT GAP [TARGET - ATTAINMENT](%)
CO	AT1	AT2	A1	A2	AT1	AT2	A1	A2		MARKS ALLOTTED	MARKS OBTAINED						
CO1	18		5		13		3.89		73.43	16.00	14.00	87.50	81.87	93	84	83	-1
CO2	20				14				70.00	20.00	16.00	80.00	76.00	92	79	78	-1
CO3	12				9				75.00	16.00	14.00	87.50	82.50	83	83	80	-3
CO4		20				18			90.00	16.00	14.00	87.50	88.50	96	90	88	-2
CO5		12		5		11		4.25	89.71	16.00	14.00	87.50	88.38	94	90	88	-2
CO6		18				14			77.78	16.00	14.00	87.50	83.61	98	86	85	-1
BCS301 - Data Structures																	
CO1	16				12				75.00	16.00	13.00	81.25	78.75	90	81	78	-3
CO2	16				13				81.25	20.00	17.00	85.00	83.50	95	86	84	-2
CO3	8		5		6		4.1		77.69	16.00	13.00	81.25	79.83	86	81	80	-1
CO4		12		5		10		4.35	84.41	16.00	12.00	75.00	78.76	89	81	80	-1



CO5		20				16			80.00	16.00	13.00	81.25	80.75	92	83	80	-3
CO6	10	18			8	15			82.14	16.00	13.00	81.25	81.61	84	82	80	-2

BCS502 - Computer Networks																	
CO	MARKS ALLOTTED				MARKS OBTAINED				CO ATTAINMENT AVERAGE FROM	END SEMESTER EXAM		CO ATTAINMENT AVERAGE FROM END SEMESTER EXAM	DIRECT CO ATTAINMENT	INDIRECT CO ATTAINMENT (OBTAINED FROM EXIT)	TOTAL CO ATTAINMENT (%)	TARGET [CLASS AVERAGE] (%)	CO ATTAINMENT GAP [TARGET - ATTAINMENT] (%)
	AT1	AT2	A1	A2	AT1	AT2	A1	A2		MARKS ALLOTTED	MARKS OBTAINED						
CO1	16				13				81.25	16.00	13.00	81.25	81.25	90	83	82	-1
CO2	18		5		16		4.6		89.57	16.00	14.00	87.50	88.33	95	90	88	-2
CO3	16				13				81.25	16.00	14.00	87.50	85.00	86	85	84	-1
CO4		12		5		10		4.25	83.82	20.00	18.00	90.00	87.53	89	88	85	-3
CO5		20				18			90.00	16.00	14.00	87.50	88.50	92	89	87	-2
CO6		18				16			88.89	16.00	14.00	87.50	88.06	84	87	85	-2



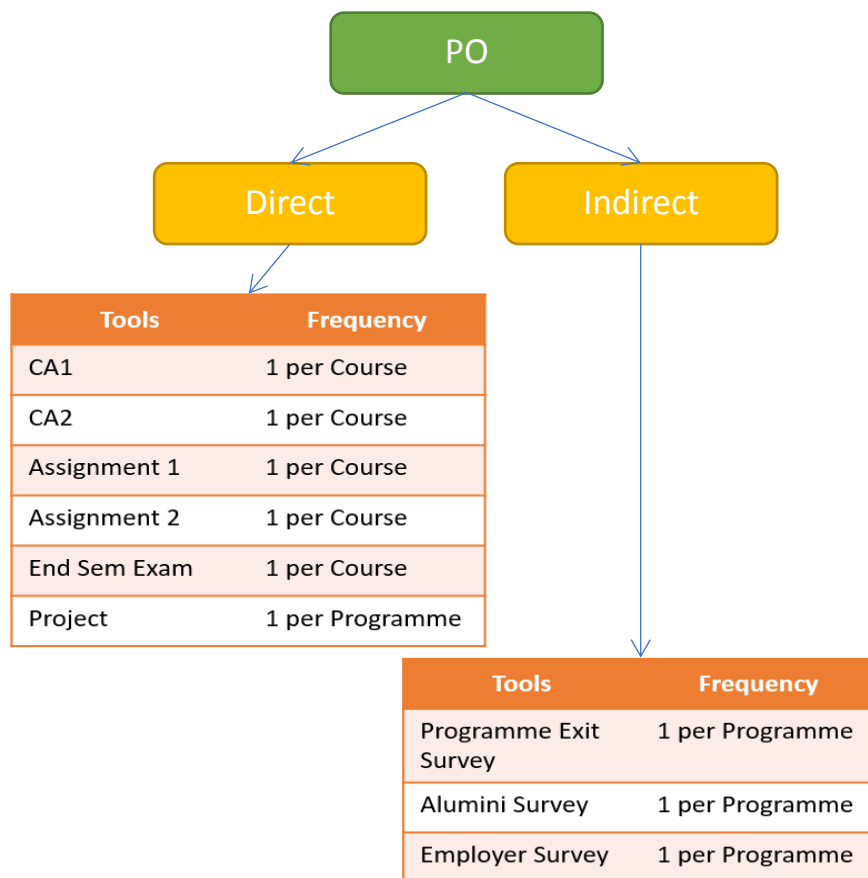
BCS602 - Distributed Computing

BCS602 - Distributed Computing																	
CO1	20				17				85.00	16.00	12.00	75.00	79.00	92	82	80	-2
CO2	18				14				77.78	16.00	14.00	87.50	83.61	88	84	83	-1
CO3	12		5		9		4.35		78.53	16.00	11.00	68.75	72.66	95	77	75	-2
CO4		22		5		19		4.1	85.56	20.00	16.00	80.00	82.22	99	86	85	-1
CO5		10				8			80.00	16.00	14.00	87.50	84.50	97	87	84	-3
CO6		18				16			88.89	16.00	12.00	75.00	80.56	90	82	78	-4



3.3. Attainment of Program Outcomes and Program Specific Outcomes

3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the program outcomes and program specific outcomes PO & PSO Assessment Methodology and Tools (Indirect Assessment)



Direct Attainment of PO/PSO for a course
= *Average Attainment of relevant COs * Scaling Factor*

$$\lim_{1 \leq n \leq 12} PO_n = \frac{\sum_{i=0}^6 Att(CO_i)}{6} * scaling\ factor$$

$$Scaling\ Factor = \frac{Actual\ Mapping\ Strength}{Maximum\ possible\ mapping\ Strength}$$

If number of sessions devoted $\geq 40\%$ Mapping Strength = 3
If number of sessions devoted = 25% to 40% Mapping Strength = 2
If number of sessions devoted = 5% to 25% Mapping Strength = 1



$$\text{Mapping Strength} = \begin{cases} 1 & 5\% < \text{sessions devoted} \leq 25\% \\ 2 & 26\% \leq \text{sessions devoted} < 40\% \\ 3 & \text{sessions devoted} \geq 40\% \end{cases}$$

Direct Attainment of PO for a batch

$$= \frac{\text{sum of PO/PSO attainment for all courses}}{\text{Number of Courses mapped with the PO/PSO}} * 100$$

Indirect Attainment – Program End Survey Report

Total Attainment = 80% Direct attainment + 20% Indirect attainment

Table 3.3.1.A. Indirect Attainment for PO Attainment

Events	Assessment tool	Assessment frequency
Programme End Survey	Feedback, interviews and group discussion for the betterment of the department	Once after the programme completion
Alumni Survey	Feedback for the improvement of infrastructure, library, placement activities, industry-academic interaction	Annually
Employer survey	Expectations and the requirements to bridge the industry-academic gap	Annually

3.3.2 Provide results of evaluation of each PO & PSO

Table 3.3.2.A. PO Articulation Matrix (Regulation 2015)

2015 Regulation																
Cou rse Cod e	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BC S10 1	Funda mentals of Compu ting and progra mming	3	3	3	2	1	3	-	-	-	-	-	-	-	3	-
BC S1L 1	Compu ter Practic e Laborat ory I	1	1	1	1	-	3	3	3	-	3	1	1	-	3	-
BC S20 2	Internet Progra mming	3	3	3	3	3	-	3	-	-	3	3	3	-	-	-
BC S2L 1	Internet Practic es lab	3	3	3	3	3	-	3	-	-	3	3	3	-	-	-
BC S30 1	Data Structu res	3	2	3	3	-	-	-	-	-	-	-	-	3	3	-
BC S30 2	System Modell ing and Simulat ion	3	2	3	3	3	-	-	-	-	-	-	-	3	-	-
BC S30	Compu ter Organi	3	2	1	-	-	-	-	-	-	-	-	-	-	3	-



3	zation and Archite cture															
BC S30 4	Digital Compu ter Funda mentals	3	2	1	-	-	-	-	-	-	-	-	-	-	2	-
BE C30 5	Electro nics Circuit s	3	3	2	3	3	-	-	-	-	-	-	-	-	2	-
BC S3L 1	Data Structu res Using C Laborat ory	3	3	3	3	3	-	-	-	-	-	-	-	3	3	-
BC S3L 2	Object Oriente d Progra mming using C++ Laborat ory	3	3	3	1	3	-	-	-	-	-	-	-	1	2	-
BE C3 L2	Electro nics Circuit s Laborat ory	3	3	2	3	3	-	-	-	-	-	-	-	-	2	-
BC S40 1	Databa se Manag ement	2	1	1	1	1	-	-	-	-	-	-	-	1	1	-

	System															
BC S40 2	Design and Analysis of Algorithms	3	3	3	3	-	-	-	-	-	-	-	-	3	3	-
BC S40 3	System Software	3	3	2	3	1	-	-	-	-	-	-	2	-	2	-
BC S40 5	Operating systems	2	3	3	1	2	-	-	-	-	-	-	-	-	3	-
BC S4L 1	DBMS Laboratory	1	3	3	2	3	-	-	-	-	-	-	-	3	3	-
BC S4L 2	Operating Systems Laboratory	-	3	3	-	3	-	-	-	-	-	-	3	2	3	-
BC S4L 3	Computer Graphics and Multimedia Laboratory	-	3	3	-	3	-	-	-	-	-	-	3	3	3	-
BC S50 1	Software Engineering	2	3	3	3	3	-	-	-	-	-	-	3	3	-	-
BE C50	Microp rocesso r and	3	2	2	2	2	-	-	-	-	-	-	-	-	2	-



1	its applica tions															
BC S50 2	Compu ter Networ ks	3	-	3	3	-	-	-	-	-	-	-	-	1	3	-
BC S5L 1	Networ king Laborat ory	2	-	3	3	2	3	-	-	-	2	-	3	3	3	-
BE C5 L1	Microp rocesso r laborat ory	3	1	2	1	-	-	-	-	-	-	-	-	-	3	-
BC S5L 2	Softwa re Engine ering Laborat ory	2	3	3	3	3	-	-	-	-	-	-	-	3	1	-
BC S60 1	Data Wareh ousing and Data Mining	3	2	3	1	3	-	-	-	-	-	-	-	1	-	-
BC S60 2	Distrib uted Compu ting	2	3	3	2	2	-	-	-	-	-	-	-	1	-	-
BC S60 3	Princip les of Compil er Design	2	1	1	1	1	-	-	-	-	-	-	-	2	3	-



BC S6L 1	Data Warehousing and Data Mining Laboratory	3	2	3	1	3	2	-	-	-	-	-	-	1	3	-
BC S6L 2	C # and .Net Laboratory	-	3	3	-	3	-	-	-	-	-	-	-	3	3	-
BC S6L 3	Programming in Java Laboratory	2	3	3	3	3	-	-	-	-	-	-	-	-	3	-
BC S70 1	Grid and Cloud Computing	2	3	3	2	2	-	-	2	1	-	3	2	-	1	3
BC S70 2	Mobile and Pervasive Computing	3	-	3	-	-	-	-	2	-	-	-	2	2	2	-
BC S70 3	Web Technology	2	2	3	1	-	-	-	-	-	-	-	-	3	1	3
BC S70 4	Artificial Intelligence and Expert System	3	1	-	1	-	-	-	-	-	-	-	-	-	1	3



BC S7L 1	Grid and Cloud Compu ting Laborat ory	2	3	3	2	2	-	-	2	1	-	3	2	-	3	3
BC S7L 2	Web Techno logy Laborat ory	3	-	3	-	3	-	-	-	-	-	-	3	3	3	-

Table 3.3.2.B. PO Attainment for the Batch 2016-20 (Regulation 2015)



PO ATTAINMENT FOR THE BATCH 2016-2020

Cours e Code	Course Name	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O1 0	P O1 1	P O1 2	PS O1	PS O2	PS O3
BCS101	Fundamentals of Computing and programming	0.83	0.8	0.83	0.55	0.25	0.83	-	-	-	-	-	-	-	0.82	-
BCS1L1	Computer Practice Laboratory I	0.25	0.25	0.25	0.25	-	0.77	0.78	0.77	-	0.78	0.25	0.25	-	0.77	-
BCS202	Internet Programming	0.79	0.79	0.79	0.79	0.79	-	0.79	-	-	0.79	0.79	0.79	-	-	-
BCS2L1	Internet Practice lab	0.77	0.76	0.76	0.77	0.77	-	0.77	-	-	0.77	0.77	0.77	-	-	-
BCS301	Data Structures	0.83	0.55	0.83	0.41	-	-	-	-	-	-	-	-	0.83	0.83	-
BCS302	System Modelling and Simulation	0.88	0.6	0.88	0.88	0.87	-	-	-	-	-	-	-	0.88	-	-
BCS303	Computer Organization and Architecture	0.83	0.54	0.29	-	-	-	-	-	-	-	-	-	-	0.84	-



BCS304	Digital Computer Fundamentals	0.84	0.51	0.29	-	-	-	-	-	-	-	-	-	-	0.56	-
BEC305	Electronics Circuits	0.79	0.79	0.53	0.79	0.79	-	-	-	-	-	-	-	-	0.52	-
BCS3L1	Data Structures Using C Laboratory	0.79	0.78	0.78	0.79	0.79	-	-	-	-	-	-	-	0.79	0.79	-
BCS3L2	Object Oriented Programming using C++ Laboratory	0.81	0.8	0.81	0.26	0.81	-	-	-	-	-	-	-	0.28	0.54	-
BEC3L2	Electronics Circuits Laboratory	0.87	0.86	0.57	0.86	0.87	-	-	-	-	-	-	-	-	0.59	-
BCS401	Database Management System	0.52	0.26	0.26	0.27	0.26	-	-	-	-	-	-	-	0.26	0.26	-
BCS402	Design and Analysis of Algorit	0.83	0.83	0.83	0.83	-	-	-	-	-	-	-	-	0.82	0.83	-



	hms															
BCS403	System Software	0.81	0.84	0.58	0.85	0.27	-	-	-	-	-	-	0.56	-	0.53	-
BCS405	Operating systems	0.59	0.89	0.88	0.3	0.59	-	-	-	-	-	-	-	-	0.85	-
BCS4L1	DBMS Laboratory	0.28	0.79	0.78	0.53	0.79	-	-	-	-	-	-	-	0.79	0.79	-
BCS4L2	Operating Systems Laboratory	-	0.8	0.8	-	0.8	-	-	-	-	-	-	0.8	0.52	0.8	-
BCS4L3	Computer Graphics and Multimedia Laboratory	-	0.86	0.87	-	0.86	-	-	-	-	-	-	0.86	0.86	0.86	-
BCS501	Software Engineering	0.52	0.8	0.78	0.78	0.79	-	-	-	0.9	-	-	0.78	0.79	-	-
BEC501	Microprocessor and its applications	0.91	0.6	0.6	0.61	0.61	-	-	-	-	-	-	-	-	0.6	-
BCS502	Computer Networks	0.86	-	0.88	0.88	-	-	-	-	-	-	-	-	0.3	0.88	-



BCS5 L1	Network ing Laborat ory	0. 56	-	0. 86	0. 86	0. 57	0. 87	-	-	-	0.5 9	-	0.8 6	0.8 6	0.8 6	-
BEC5 L1	Micropr ocessor laborato ry	0. 86	0. 29	0. 58	0. 3	-	-	-	-	-	-	-	-	-	0.8 6	-
BCS5 L2	Softwar e Enginee ring Laborat ory	0. 59	0. 88	0. 87	0. 86	0. 86	-	-	-	0. 9	-	-	-	0.8 6	0.2 8	-
BCS60 1	Data Wareho using and Data Mining	0. 83	0. 54	0. 83	0. 27	0. 82	-	-	-	-	-	-	-	0.2 8	-	-
BCS60 2	Distribu ted Comput ing	0. 53	0. 83	0. 84	0. 56	0. 56	-	-	-	-	-	-	-	0.2 8	-	-
BCS60 3	Principl es of Compil er Design	0. 61	0. 29	0. 31	0. 29	0. 3	-	-	-	-	-	-	-	0.5 9	0.8 9	-
BCS6 L1	Data Wareho using and Data Mining Laborat ory	0. 85	0. 57	0. 84	0. 27	0. 86	0. 56	-	-	-	-	-	-	0.2 8	0.8 6	-
BCS6	C # and	-	0.	0.	-	0.	-	-	-	-	-	-	-	0.8	0.8	-



L2	.Net Laboratory		85	85		85								6	6	
BCS6 L3	Programming in Java Laboratory	0.56	0.87	0.87	0.86	0.86	-	-	-	-	-	-	-	-	0.86	-
BCS701	Grid and Cloud Computing	0.57	0.86	0.87	0.57	0.57	-	-	0.59	0.3	-	0.86	0.59	-	0.3	0.87
BCS702	Mobile and Pervasive Computing	0.78	-	0.78	-	-	-	-	0.52	-	-	-	0.52	0.53	0.52	-
BCS703	Web Technology	0.6	0.59	0.89	0.3	-	-	-	-	-	-	-	-	0.89	0.29	0.87
BCS704	Artificial Intelligence and Expert System	0.92	0.32	-	0.29	-	-	-	-	-	-	-	-	-	0.31	0.92
BCS7 L1	Grid and Cloud Computing Laboratory	0.6	0.91	0.91	0.6	0.6	-	-	0.61	0.3	-	0.91	0.6	-	0.9	0.9
BCS7 L2	Web Technology	0.87	-	0.85	-	0.87	-	-	-	-	-	-	0.85	0.86	0.86	-



	Laboratory															
Number of non zero entries		34	33	36	30	27	4	3	4	4	4	5	12	21	31	4
Direct Attainment		0.72	0.68	0.72	0.58	0.69	0.76	0.78	0.62	0.60	0.7	0.7	0.6	0.6	0.6	0.8
Indirect Attainment		0.95	0.98	0.97	0.98	0.93	0.95	0.96	0.95	0.95	0.9	0.9	0.9	0.9	0.9	0.9
Target		74	73	75	65	73	78	80	67	65	70	75	73	69	73	90
Attainment		76	74	77	66	74	80	82	69	67	78	77	74	70	74	91
Attained / Not Attained		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A



CRITERION 4	STUDENTS' PERFORMANCE	100

4.1 Enrolment Ratio (20)

Enrolment Ratio = $N1/N$

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018 – 19)
Sanctioned intake of the program(N)	1140	1140	1140
Total number of students admitted in first year minus number of students migrated to other programs/institutions, Plus No.of Students migrated to this program (N1)	1128	1133	824
Number of students admitted in 2 nd year in the same batch via lateral entry (N2)	-	-	16
Separate division students, if applicable (N3)	-	-	5
Total number of students admitted in the Program (N1 + N2 + N3)	1128	1133	845

Item	CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018 – 19)
Sanctioned intake of the program (N)	1140	1140	1140
Total number of students admitted in first year minus number of students migrated to other programs/institutions, plus no. of students migrated to this program (N1)	1128	1133	845
Enrolment Ratio	98.95 %	99.39 %	74.12 %
Students enrolled at the First year level on average basis	90.82 %		

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

LYG – Last Year Graduate minus 1

LYGm1 – Last Year Graduate minus 1



LYGm2 – Last Year Graduate minus 2

4.2 Success Rate in the stipulated period of the program (13.2/20)

4.2.1. Success rate without backlogs in any semester / year of study (15)

SI= (Number of students who have graduated from the program without backlog)/(Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = Mean of Success Index (SI) for past three batches Success rate without backlogs in any semester/year of study = $15 \times 0.31 = 13.2$

Year of Entry	N1 + N2 + N3 (As Defined Above)	Number of Students who have Successfully Graduated without Backlogs in any Semester/ Year of Study (Without Backlogs means no Compartment or Failures in any Semester/ Year of Study)			
		I Year	II Year	III Year	IV Year
CAY 2020-21	1128 (1128+0+0)	1003			
CAYm1 2019-20	1133 (1133+0+0)	994	979		
CAYm2 2018-19	845 (824+16+5)	763	762	751	
CAYm3 2017-18	718 (698+8+12)	676	673	662	653
CAYm4 2016-17 LYG	235 (203+8+24)	189	189	183	178
CAYm5 2015-16 (LYGm1)	240 (240+0+0)	197	181	168	156
CAYm6 2014-15 (LYGm2)	225(225+0+0)	188	172	159	151

Item	CAY (2020 – 2021)	CAYm1 (2019 – 2020)	CAYm2 (2018 – 2019)
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if applicable	1128	1133	845



Number of students who have graduated without backlogs in the stipulated period	1003	979	751
Success Index (SI)	0.89	0.86	0.89
Average SI	0.88		

4.2.2 Success Rate with backlog in stipulated period of study

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = mean of Success Index (SI) for past three batches **Success rate** = $5 \times 0.12 = 0.6$

Year of Entry	N1 + N2 + N3 (As Defined Above)	Number of Students who have Successfully Graduated (Students with Backlog in Stipulated Period of Study)			
		I Year	II Year	III Year	IV Year
CAY 2020-21	1128(1128+0+0)	125			
CAYm1 2019-20	1133 (1133+0+0)	139	154		
CAYm2 2018-19	845(824+16+5)	61	83	94	
CAYm3 2017-18	718 (698+8+12)	22	45	56	65
CAYm4 2016-17 LYG	235 (203+8+24)	14	46	52	57
CAYm5 2015-16 (LYGm1)	240 (240+0+0)	43	59	72	84
CAYm6 2014-15 (LYGm2)	225(225+0+0)	37	53	66	74

Item	CAY 2020 – 21	CAYm1 2019 – 20	CAYm2 2018 – 19
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if applicable	1128	1133	845
Number of students who have graduated with backlogs in the stipulated period	125	154	94
Success Index (SI)	0.11	0.14	0.11
Average Success Index	0.12		



4.3 Academic Performance in Second Year (7.65/10)

Academic Performance = Average API (Academic Performance Index), where
API = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination) Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAYm1 (2019 – 20)	CAYm2 (2018– 19)	CAYm3 (2017 – 18)
Mean of CGPA (X)	9.12	8.58	8.32
Total no. of successful students (Y)	762	673	189
Total No. of students appeared in the examination (Z)	845	718	235
API = X * (Y/Z)	8.22	8.04	6.69
Average API = (AP1 + AP2 + AP3) / 3	7.65		

4.4 Placement, Higher Studies and Entrepreneurship

Assessment Points = 30 × average placement

Item	2020 – 21	2019 –20	2018 – 19
Total No. of Students (N)	718	235	240
No. of Students placed in companies or Government Sector (X)	637	212	203
No. of Students admitted to higher studies with valid qualifying scores (GATE or equivalent State of National Level Tests, GRE, GMAT etc.) (Y)	38	15	23
No. of Students turned entrepreneur in engineering/technology (Z)	00	08	14
Others	43	00	00
X + Y + Z =	675	235	240
Placement Index : (X + Y + Z) / N	0.94	1.0	1.0
Average Placement = (P1 + P2 + P3) /3	0.98		
Assessment Points = 30 X average placement	29.4		



Details of the Placements

S.NO	NAME OF THE STUDENT PLACED	REG.NO.	NAME OF THE EMPLOYER	APPOINTMENT LETTER WITH DATE
1.	JUPAKA SAIVARUN	U16CS018	M/S. TCS & ARMSOFT-TECH	16.09.2019, 25.04.2020
2.	SURYA SUNDARRAJ SRIRAM.	U16CS013	M/S. TCS & LTI	17.09.2019, 30.08.2019
3.	DEBANJAN MANDAL	U16CS188	M/S. TCS, LTI & M/S.HEXAWARE	17.09.2019, 30.08.2019 & 16.09.2019
4	GANGUMALLA GANGA SUNIL	U16CS099	M/S. LTI	30.08.2019
5	RAJESH KUMAR G	U16CS122	M/S. LTI	30.08.2019
6	TUFAN NARZARI	U16CS213	M/S. LTI	30.08.2019
7	BHUMIREDDY MAHITHA	U16CS115	M/S. HEXAWARE & BHARTIAXA	16.09.2019 & 19.09.2020
8	PESARU SANDEEP REDDY	U16CS509	M/S. BYJU'S, MAINTTEC TECHNOLOGIES	15.05.2020, 27.02.2020 & 05.02.2020
9	PULLAGANTI VISWANADH	U16CS108	M/S. INTEGRA SOFTWARE	17.02.2020
10	PALLE SUDHEER KUMAR REDDY	U16CS113	M/S. INTEGRA SOFTWARE	17.02.2020
11	THUMMALA CHALLA MANOJ	U16CS125	M/S. INTEGRA SOFTWARE	17.02.2020
12	RIK ROY	U16CS156	M/S. INTEGRA SOFTWARE	17.02.2020
13	MOKA BALAJI VARMA	U16CS157	M/S. INTEGRA SOFTWARE	17.02.2020
14	VAKA MAHENDRA REDDY	U16CS177	M/S. INTEGRA SOFTWARE	17.02.2020
15	PERUGU KALYAN CHAKRAVARTHI	U16CS186	M/S. INTEGRA SOFTWARE	17.02.2020
16	SHAIK AFRIDI	U16CS191	M/S. INTEGRA SOFTWARE	17.02.2020



17	MEESALA SIVAJI	U16CS200	M/S. INTEGRA SOFTWARE	17.02.2020
18	NIKUNJ KUMAR SINGH	U16CS215	M/S. INTEGRA SOFTWARE	17.02.2020
19	NIVEDITHA K	U16CS217	M/S. INTEGRA SOFTWARE	17.02.2020
20	SAI ROSHAN BABU	U16CS501	M/S. INTEGRA SOFTWARE	17.02.2020
21	SUMANTH SAI M	U16CS504	M/S. INTEGRA SOFTWARE	17.02.2020
22	SHASHANK P R	U16CS512	M/S. INTEGRA SOFTWARE	17.02.2020
23	R SREE BHARADWAJ	U16CS513	M/S. INTEGRA SOFTWARE	17.02.2020
24	SATYAM SRI HARSHA	U16CS523	M/S. INTEGRA SOFTWARE	17.02.2020
25	PRATIKSHA RAJESH PUJARI	U16CS705	M/S. INTEGRA SOFTWARE	17.02.2020
26	KUMMARA HANUMANTHU RAO	U16CS707	M/S. INTEGRA SOFTWARE	17.02.2020
27	SARAVANAKUMAR S	U16CS016	M/S. SOFTPRO GLOBAL	25.07.2019
28	POOJALAKSHMI N	U16CS033	M/S. SOFTPRO GLOBAL	25.07.2019
29	RAHUL TIWARI	U16CS045	M/S. SOFTPRO GLOBAL	25.07.2019
30	NALLAMOTHU TARUN KUMAR	U16CS062	M/S. SOFTPRO GLOBAL	25.07.2019
31	PONDURU JAGADEESH	U16CS085	M/S. SOFTPRO GLOBAL	25.07.2019
32	JOGA KANNABABU	U16CS087	M/S. SOFTPRO GLOBAL	25.07.2019
33	SAPPIDI MUKHESH REDDY	U16CS096	M/S. SOFTPRO GLOBAL	25.07.2019
34	RAHUL P	U16CS102	M/S. SOFTPRO GLOBAL	25.07.2019
35	SHAIK ARSHAD	U16CS145	M/S. SOFTPRO GLOBAL	25.07.2019



36	THANUBUDDI RAJASHEKAR REDDY	U16CS148	M/S. SOFTPRO GLOBAL	25.07.2019
37	SHAIK NAGUL MEERAVALI	U16CS150	M/S. SOFTPRO GLOBAL	25.07.2019
38	JANA ARAVIND KUMAR	U16CS159	M/S. SOFTPRO GLOBAL	25.07.2019
39	YEMIREDDY SRINIVASA REDDY	U16CS162	M/S. SOFTPRO GLOBAL	25.07.2019
40	NALLABOTHU VENKATESH	U16CS187	M/S. SOFTPRO GLOBAL	25.07.2019
41	TANIRU SATISH	U16CS210	M/S. SOFTPRO GLOBAL	25.07.2019
42	VIGNESH V	U16CS214	M/S. SOFTPRO GLOBAL	25.07.2019
43	JOSHUA JOSHILINE VARGHESE	U16CS510	M/S. SOFTPRO GLOBAL	25.07.2019
44	SAI SANJEEV BALAJI	U16CS515	M/S. SOFTPRO GLOBAL	25.07.2019
45	ANJITH	U16CS516	M/S. SOFTPRO GLOBAL	25.07.2019
46	SAIKUMAR M V	U16CS518	M/S. SOFTPRO GLOBAL	25.07.2019
47	ADARSH BARANWAL	U16CS044	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
48	SARATH P M	U16CS049	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
49	YEDDULA SAIRAKESH	U16CS051	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
50	KASANI AKHIL YADAV	U16CS074	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
51	KARANAM NAVANEETH RAO	U16CS091	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
52	KISHAN KUMAR	U16CS097	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
53	GALLA BHUCHANDRA	U16CS100	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
54	VALETI SRIKANTH	U16CS104	M/S. 1 POINT 1 SOLUTIONS	22.04.2020



55	YUGANDHAR S	U16CS117	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
56	KAKUNURI BRAHMA REDDY	U16CS128	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
57	NANDALLURI REDDYBASI REDDY	U16CS130	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
58	MACHUNURU SYAM KUMAR REDDY	U16CS136	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
59	SHAIK ABBAS	U16CS139	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
60	MANDALAPU VENGALA REDDY	U16CS146	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
61	PREM KUMAR MISHRA	U16CS147	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
62	NARLA RAJESH	U16CS160	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
63	RAVILLA HARSHITHA	U16CS169	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
64	TIPPAREDDY NARENDRA REDDY	U16CS178	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
65	MUNAGANURU SAI ANUDEEP	U16CS193	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
66	MADATHALA HARINDRA REDDY	U16CS219	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
67	HARSHA VARDHA REDDY M	U16CS507	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
68	SRIRAM RAJESWARAN	U16CS511	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
69	ARNAV RAI	U16CS520	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
70	HARVINDER SINGH	U16CS703	M/S. 1 POINT 1 SOLUTIONS	22.04.2020
71	MOHAMMED KHIZER HUSSIAN N	U16CS029	M/S. AMTEX	24.07.2020
72	VINOOTHNA	U16CS077	M/S. AMTEX	24.07.2020
73	RAMADUGU ANUSHA	U16CS196	M/S. AMTEX, & MOBIUS KNOWLEDGE	24.07.2020 & 03.02.2020



74	SANAM NAGA VENKATA SAI	U16CS007	M/S. ARMSOFT- TECH	25.04.2020
75	CHEEMIREDDIGARI ANKITHAREDDY	U16CS008	M/S. ARMSOFT- TECH	25.04.2020
76	RAVURI MOUNIKA	U16CS011	M/S. ARMSOFT- TECH	25.04.2020
77	SOMA BHARATH KUMAR	U16CS014	M/S. ARMSOFT- TECH	25.04.2020
78	JAISON B J	U16CS015	M/S. ARMSOFT- TECH	25.04.2020
79	PALLE NAZEER VALI	U16CS037	M/S. ARMSOFT- TECH	25.04.2020
80	KAUSHIK SUDHAN M	U16CS054	M/S. ARMSOFT- TECH	25.04.2020
81	KONAKALLA BHARATH	U16CS057	M/S. ARMSOFT- TECH	25.04.2020
82	NAGIREDDY GARI SANJUNATH REDDY	U16CS061	M/S. ARMSOFT- TECH	25.04.2020
83	AMARNATH REDDY M	U16CS064	M/S. ARMSOFT- TECH	25.04.2020
84	BANDIATMAKUR MADANMOHAN	U16CS070	M/S. ARMSOFT- TECH	25.04.2020
85	BASA RAMANJI NAIDU	U16CS075	M/S. ARMSOFT- TECH	25.04.2020
86	VEGI BALAJI SATYA SAI GANESH	U16CS079	M/S. ARMSOFT- TECH	25.04.2020
87	KADIVETI AJAY REDDY	U16CS081	M/S. ARMSOFT- TECH	25.04.2020
88	ADURI SHYAM SAI KUMAR	U16CS082	M/S. ARMSOFT- TECH	25.04.2020
89	ARUNACHALAM R	U16CS103	M/S. ARMSOFT- TECH	25.04.2020
90	BODAKUNTALA AKHIL	U16CS111	M/S. ARMSOFT- TECH	25.04.2020
91	NULAKA RAJGOPAL REDDY	U16CS127	M/S. ARMSOFT- TECH	25.04.2020
92	MANDIPALLI CHIDANANDA	U16CS129	M/S. ARMSOFT- TECH	25.04.2020



93	MAGULURI PAVAN	U16CS131	M/S. ARMSOFT-TECH	25.04.2020
94	CHANDRAPATI VENKATA DHANUSH	U16CS137	M/S. ARMSOFT-TECH	25.04.2020
95	JAGARLAMUDI YESWANTH	U16CS141	M/S. ARMSOFT-TECH	25.04.2020
96	CHIRUMAMILLA VAMSI KRISHNA.	U16CS143	M/S. ARMSOFT-TECH	25.04.2020
97	GANGISETTI MANEESHA	U16CS153	M/S. ARMSOFT-TECH	25.04.2020
98	MANGALURE KISHOR KUMAR	U16CS154	M/S. ARMSOFT-TECH	25.04.2020
99	BIJJAM THIRUPATHI REDDY	U16CS161	M/S. ARMSOFT-TECH	25.04.2020
100	MANDAVA MANOJ	U16CS164	M/S. ARMSOFT-TECH	25.04.2020
101	MEKALA PANDU PREM KUMAR	U16CS165	M/S. ARMSOFT-TECH	25.04.2020
102	SEELAM HARITHA SAI PRIYA	U16CS172	M/S. ARMSOFT-TECH	25.04.2020
103	GUNTUPALLI AKHILA	U16CS174	M/S. ARMSOFT-TECH	25.04.2020
104	CHALUVADI KALYAN	U16CS175	M/S. ARMSOFT-TECH	25.04.2020
105	MADDULA SUDHAKARA REDDY	U16CS182	M/S. ARMSOFT-TECH	25.04.2020
106	AJAY KUMAR S	U16CS184	M/S. ARMSOFT-TECH	25.04.2020
107	CHAUHAN MAYANK SUNILKUMAR	U16CS189	M/S. ARMSOFT-TECH	25.04.2020
108	BOLLAM MANINDRA	U16CS195	M/S. ARMSOFT-TECH	25.04.2020
109	NETHI TEJA	U16CS216	M/S. ARMSOFT-TECH	25.04.2020
110	MUMMADI PAVAN KUMAR REDDY	U16CS508	M/S. ARMSOFT-TECH	25.04.2020



111	MD TAJUDDIN HAWARI	U16CS185	M/S. ARMSOFT- TECH & IGT	25.04.2020 & 07.09.2019
112	GOLUSULA SAI KUMAR.	U16CS038	M/S. ARMSOFT- TECH &	25.04.2020 & 19.9.2020
113	CHOKKAM NAGARAJU	U16CS118	M/S. ARMSOFT- TECH &	25.04.2020 & 19.9.2020
114	ARIKATLA PAVITHRA	U16CS119	M/S. ARMSOFT- TECH &	25.04.2020 & 19.9.2020
115	PATIBANDLA SRI NAVEEN	U16CS166	M/S. ARMSOFT- TECH & FIRST-	25.04.2020 & 24.02.2020
116	TRIPURANENI ROHITH	U16CS140	M/S. ARMSOFT- TECH & IGT	25.04.2020 & 07.09.2019
117	DIVYA K	U16CS218	M/S. ARMSOFT- TECH & MAINTEC TECHNOLOGIES	25.04.2020 & 27.02.2020
118	NAVULURI RAJENDRA MOHAN	U16CS133	M/S. ARMSOFT- TECH & SOFTPRO GLOBAL	25.04.2020 & 25.07.2019
119	BHAVANAM SAI KRISHNA REDDY	U16CS068	M/S. ARMSOFT- TECH, BHARTIAXA &	25.04.2020, 19.09.2020 & 05.02.2020
120	BANDI THARUN KUMAR	U16CS167	M/S. ARMSOFT- TECH, BHARTIAXA,	25.04.2020 , 19.09.2020,5.2.2020 & 24.02.2020
121	INTURI RAGHU BABU	U16CS112	M/S. ATOS SYNTEL &	24.12.2019 & 20.11.2019
122	AKSHAY KOTI CHIMATA	U16CS092	M/S. ATOS SYNTEL & FIRST	24.12.2019 & 24.02.2020
123	GADDAM THRISHUL	U16CS138	M/S. ATOS SYNTEL, ARMSOFT-TECH	24.12.2019, 25.04.2020 & 19.09.2020
124	APARNA V M	U16CS002	M/S. BHARTIAXA	19.09.2020
125	ABDUL KHADIR L	U16CS004	M/S. BHARTIAXA	19.09.2020
126	SRIMATHI S	U16CS024	M/S. BHARTIAXA	19.09.2020
127	PATTAN FEROUZ KHAN	U16CS039	M/S. BHARTIAXA	19.09.2020
128	PARUCHURU JYOTHI SATYA SIVA NAGA	U16CS060	M/S. BHARTIAXA	19.09.2020



129	AISHWARYA KUSHWAHA	U16CS078	M/S. BHARTIAXA	19.09.2020
130	GUGULOTH ANVESH	U16CS094	M/S. BHARTIAXA	19.09.2020
131	BANGARAPU MANOJ KUMAR REDDY	U16CS114	M/S. BHARTIAXA	19.09.2020
132	GAIKOTI MADHAVA RAO	U16CS132	M/S. BHARTIAXA	19.09.2020
133	PRADEEP SURIYA S	U16CS701	M/S. BHARTIAXA	19.09.2020
134	NARRAVULA TEJASREE	U16CS110	M/S. BHARTIAXA & AVASOFT	19.09.2020 & 20.11.2019
135	FAYAZ AKIL S	U16CS012	M/S. BHARTIAXA & M/S.QSPIDERS	19.09.2020 & 08.02.2020
136	SANTHOSHKUMAR S	U16CS025	M/S. CMO AXIS MARKETING OUTSOURCING	14.08.2019
137	AJAY KUMAR R	U16CS026	M/S. CMO AXIS MARKETING OUTSOURCING	14.08.2019
138	KOTHAKOTA SAI SIRISHA	U16CS083	M/S. CMO AXIS MARKETING OUTSOURCING	14.08.2019
139	NITHISHVAR S	U16CS101	M/S. CMO AXIS MARKETING OUTSOURCING	14.08.2019
140	SRAVANI GADIPARTHI	U16CS059	M/S. HCL, ATOS SYNTEL, AMTEX, MAINTTEC TECHNOLOGIES, BHARTIAXA &	21.08.2020, 06.02.2020, 24.7.2020, 27.2.2020, 19.09.2020 &
141	NALAMOTHU SRIKANTH	U16CS003	M/S. HCL, CAPE GEMINI & ARMSOFT-TECH	21.8.2020, 24.03.2020 & 25.04.2020
142	SARAVANAN R	U16CS006	M/S. IGT SOLUTIONS PVT	07.09.2019
143	RITIK RAJ	U16CS009	M/S. IGT SOLUTIONS PVT	07.09.2019
144	GAJJI SOMA SREEKAR	U16CS088	M/S. IGT SOLUTIONS PVT	07.09.2019



145	GANNAMANI PRAVEEN	U16CS063	M/S. IGT SOLUTIONS PVT	07.09.2019
146	ABDUL HASEEB	U16CS067	M/S. IGT SOLUTIONS PVT	07.09.2019
147	GUDELLI SANDHYA RANI	U16CS093	M/S. IGT SOLUTIONS PVT	07.09.2019
148	HEMA S	U16CS134	M/S. IGT SOLUTIONS PVT	07.09.2019
149	HARI S	U16CS135	M/S. IGT SOLUTIONS PVT	07.09.2019
150	GUDDU KUMAR	U16CS170	M/S. IGT SOLUTIONS PVT	07.09.2019
151	GOGA VAMSI	U16CS171	M/S. IGT SOLUTIONS PVT	07.09.2019
152	GANAMANTHU SUBBARAYUDU	U16CS203	M/S. IGT SOLUTIONS PVT	07.09.2019
153	MANIKANTAN	U16CS208	M/S. IGT SOLUTIONS PVT	07.09.2019
154	DIPANJAN DAS	U16CS209	M/S. IGT SOLUTIONS PVT	07.09.2019
155	SIMRAN ALIZA NISAR	U16CS708	M/S. IGT SOLUTIONS PVT	07.09.2019
156	AFREEN M	U16CS220	M/S. IGT SOLUTIONS PVT LTD & SCOTLINE	07.09.2019 & 27.2.2020
157	ARVIND S	U16CS076	M/S. IGT SOLUTIONS PVT LTD, BHARTIAXA	10.09.2019, 19.09.2020 & 28.11.2019
158	MUKESH M	U16CS503	M/S. IGT SOLUTIONS PVT LTD, BHARTIAXA,	07.09.2019, 19.09.2020, 05.2.2020 & 17.2.2020
159	MAHESH R	U16CS020	M/S. MAINTEC TECHNOLOGIES	27.02.2020
160	PADILAM JAYANTH YADAV	U16CS028	M/S. MAINTEC TECHNOLOGIES	27.02.2020
161	LAKSHMI NARAYANAN A	U16CS036	M/S. MAINTEC TECHNOLOGIES	27.02.2020
162	ANIL MAURYA	U16CS053	M/S. MAINTEC TECHNOLOGIES	27.02.2020



163	MEGANATHAN G	U16CS055	M/S. MAINTec TECHNOLOGIES	27.02.2020
164	MULINTY PRASHANTH REDDY	U16CS071	M/S. MAINTec TECHNOLOGIES	27.02.2020
165	GAVIREDDY SIVAMOHAN REDDY	U16CS072	M/S. MAINTec TECHNOLOGIES	27.02.2020
166	VEERELLA PRAVEEN	U16CS198	M/S. MAINTec TECHNOLOGIES	27.02.2020
167	BADINENI SRI KANTH	U16CS199	M/S. MAINTec TECHNOLOGIES	27.02.2020
168	BATTULA KALYAN	U16CS201	M/S. MAINTec TECHNOLOGIES	27.02.2020
169	SHAIK MOHAMMAD WASEEM	U16CS202	M/S. MAINTec TECHNOLOGIES	27.02.2020
170	GADDALA UDAY KIRAN	U16CS204	M/S. MAINTec TECHNOLOGIES	27.02.2020
171	YENUGU KASI GOVARDHAN REDDY	U16CS207	M/S. MAINTec TECHNOLOGIES	27.02.2020
172	BAIRISETTI VENKATESH	U16CS084	M/S. MAINTec TECHNOLOGIES LTD & QSPIDERS	27.02.2020 & 05.02.2020
173	LADEVANYA G A	U16CS041	M/S. MAINTec TECHNOLOGIES LTD & VIRTUSA	27.02.2020 & 12.2.2020
174	DHRUBAJYOTI MAJI	U16CS021	M/S. QSPIDERS	08.02.2020
175	MUGESH P	U16CS032	M/S. QSPIDERS	08.02.2020
176	KOTTE BALAJI	U16CS066	M/S. QSPIDERS	08.02.2020
177	ABDUL SAMEER	U16CS086	M/S. QSPIDERS	08.02.2020
178	DEEPAK BHOLA	U16CS106	M/S. QSPIDERS	08.02.2020
179	YELLAPUREDDY REPARENDAR	U16CS116	M/S. QSPIDERS	08.02.2020
180	ROSHAN KUMAR RAJ	U16CS120	M/S. QSPIDERS	08.02.2020
181	SURLA SRINUVASU	U16CS124	M/S. QSPIDERS	08.02.2020



182	MADDINENI PRANEETH SAI	U16CS142	M/S. QSPIDERS	08.02.2020
183	NAVEEN BALAJI P	U16CS144	M/S. QSPIDERS	08.02.2020
184	PODAPATI ASMITHA	U16CS151	M/S. QSPIDERS	08.02.2020
185	NALLAPU RAJESH	U16CS152	M/S. QSPIDERS	08.02.2020
186	JEFFRIN RAJAN M	U16CS155	M/S. QSPIDERS	08.02.2020
187	NIMBAGALLU KURUBA	U16CS158	M/S. QSPIDERS	08.02.2020
188	DAKA AKSHUTH KUMAR	U16CS163	M/S. QSPIDERS	08.02.2020
189	NALLATI JAYA LAKSHMI DURGA	U16CS173	M/S. QSPIDERS	08.02.2020
190	EDA MADANAMOHAN	U16CS179	M/S. QSPIDERS	08.02.2020
191	THATI RAGHAVA	U16CS180	M/S. QSPIDERS	08.02.2020
192	ARAVINDASAMY R	U16CS183	M/S. QSPIDERS	08.02.2020
193	KONDAMURI KIRAN KUMAR	U16CS190	M/S. QSPIDERS	08.02.2020
194	GANTLA VASU	U16CS192	M/S. QSPIDERS	08.02.2020
195	GADDAM AMARA HARSHAVARDHAN	U16CS194	M/S. QSPIDERS	08.02.2020
196	PATHAN SALMANKHAN	U16CS206	M/S. QSPIDERS	08.02.2020
197	ARUL VIGNESH J	U16CS211	M/S. QSPIDERS	08.02.2020
198	SRIKRISHNA M	U16CS212	M/S. QSPIDERS	08.02.2020
199	ARUNKUMAR G	U16CS502	M/S. QSPIDERS	08.02.2020
200	SAI DINESH A	U16CS505	M/S. QSPIDERS	08.02.2020



201	LOKESH VALLANKI	U16CS506	M/S. QSPIDERS	08.02.2020
202	NALLAPA REDDY SAI KIRAN	U16CS514	M/S. QSPIDERS	08.02.2020
203	KOVVURI SRI VAMSI REDDY	U16CS517	M/S. QSPIDERS	08.02.2020
204	CHANDRAMOULI V	U16CS519	M/S. QSPIDERS	08.02.2020
205	NARAYANAN P	U16CS521	M/S. QSPIDERS	08.02.2020
206	DAMERA NAGA VENKATA RANGA	U16CS524	M/S. QSPIDERS	08.02.2020
207	MOHAN RAJ S	U16CS702	M/S. QSPIDERS	08.02.2020
208	HARISHKUMAR R	U16CS704	M/S. QSPIDERS	08.02.2020
209	PRAVEENRAJ R M	U16CS197	M/S. QSPIDERS & INTEGRA SOFTWARE	05.02.2020 & 17.2.2020
210	KALAHASTI MUNIJYOSHNA	U16CS080	M/S. SCOTLINE TECHNOLOGIES	27.02.2020
211	CHITTALA HARIKA	U16CS109	M/S. SCOTLINE TECHNOLOGIES	27.02.2020
212	CHINTHAGUMPALA GANESH SAI	U16CS706	M/S. SCOTLINE TECHNOLOGIES & IMAGE GRAFIX	27.02.2020 & 25.03.2020

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S.NO	NAME OF THE STUDENT PLACED	REG.NO.	NAME OF THE EMPLOYER	APPOINTMENT LETTER DATE
1.	BIKKI KUMAR SHA	U15CS024	M/S. AMAZON	10.04.2019
2.	MALKANNAGARI HARSHA VARDHAN	U15CS236	M/S. AMAZON	10.04.2019
3.	YANAMANDRA VENKATA RAMANA	U15CS229	M/S. AMAZON	10.04.2019



4	SAI RAMANA S M	U15CS186	M/S. BYJU'S	26.12.2018
5	GORRE THIRUPATHI REDDY	U15CS056	M/S. HCL	16.08.2019
6	M. DINESH REDDY	U15CS110	M/S. HCL	16.08.2019
7	MANOJ KUMAR R	U15CS117	M/S. HCL	16.08.2019
8	DODDI PUJITHA	U15CS045	M/S. HCL	16.08.2019
9	INAPARTHI RAGHAVA	U15CS063	M/S. HCL & TOPPRS	16.08.2019 and 27.08.2018
10	ANJAR ALI	U15CS007	M/S. HCL, QSPIDERS, MAINTEC TECHNOLOGIES, GIRETAIL PVT	16.08.2019, 26.02.2019, 21.03.2019, 18.03.2019, 20.03.2019
11	MANCHIKANTI RAJITHA	U15CS115	M/S. HCL & GI RETAIL PVT LTD	16.08.2019, 18.03.2019
12	ABHIJIT KUMAR GUPTA	U15CS002	M/S. HCL, PMS BAZAAR, MAINTEC TECHNOLOGIES, GIRETAIL PVT	16.08.2019, 13.12.2018, 21.03.2019, 18.03.2019, 20.03.2019
13	PADMAVATY V	U15CS145	M/S. HCL, QSPIDERS, GI RETAIL PVT LTD, & VP CAREERZ	16.08.2019, 26.02.2019, 18.03.2019, 20.03.2019
14	KONATALA PUSHPA	U15CS095	M/S. HCL. QSPIDERS, MAINTEC TECHNOLOGIES, HAVENFLOYD &	16.08.2019, 26.02.2019, 21.03.2019, 18.03.2019
15	NARENDULA NIREESHA	U15CS135	M/S. HEXAWARE	10.10.2018
16	MURARI KUMAR CHAUDHARY	U15CS128	M/S. HEXAWARE & FULL CREATIVE	10.10.2018, 19.10.2018
17	TANGELLAPALLY KRANTHIKUMAR	U15CS210	M/S. HEXAWARE & QSPIDERS	10.10.2018, 26.02.2019
18	NIKHIL KUMAR	U15CS139	M/S. LTI	31.10.2018



19	PEDDAPALLY SAI VINAY	U15CS152	M/S. LTI	31.10.2018
20	SOMESH.C	U15CS248	M/S. LTI	31.10.2018
21	NIKITA SHARMA	U15CS232	M/S. LTI & TOPPRS	31.10.2018, 27.08.2018
22	PULUKURI SASIDHAR	U15CS167	M/S. LTI, TOPPERS & INTERGLOBE TECHNOLOGIES	31.10.2018, 27.08.2018, 29.09.2018
23	HASTHI RUCHITHA	U15CS061	M/S. LTI, HEXAWARE & FULL CREATIVE	31.10.2018, 10.10.2018, 09.10.2018
24	KANDI MOUNIKA	U15CS083	M/S. LTI, HEXAWARE, INTERGLOBE TECHNOLOGIES PVT. LTD &	31.10.2018, 10.10.2018, 29.09.2018, 21.03.2019
25	PUTLURI ANURADHA	U15CS169	M/S. LTI, MAINTEC TECHNOLOGIES & GI RETAIL PVT LTD	31.10.2018, 21.03.2019, 18.03.2019
26	BIRADAVOLU SUCHARITHA	U15CS026	M/S. LTI, PROTECH SOFT TECHNOLOGIES, MAINTEC	31.10.2018, 21.03.2019, 18.03.2019
27	GUNDA VINAY KUMAR	U15CS058	M/S. WIPRO	09.02.2019
28	RAKESH RATHI	U15CS173	M/S. WIPRO & LTI	14.12.2018, 31.10.2018
29	DEEPAK KUMAR SINGH	U15CS041	M/S. WIPRO & COGNIZANT	09.02.2019, 26.02.2019
30	VUPPALA SUJITH	U15CS227	M/S. GLOBAL ENGILSH	21.03.2019
31	PERAM VENKATA KRISHNA REDDY	U15CS155	M/S. GLOBAL ENGILSH & FULL	21.03.2019, 09.10.2018
32	ADITYA	U15CS255	M/S. GLOBAL ENGLISH	21.03.2019
33	AVINASH KUMAR	U15CS239	M/S. GLOBAL ENGLISH	21.03.2019



34	GOWTHAMAN.S	U15CS702	M/S. GLOBAL ENGLISH	21.03.2019
35	HARI HARAN M	U15CS060	M/S. GLOBAL ENGLISH	21.03.2019
36	JOEL PRAKASH.J	U15CS253	M/S. GLOBAL ENGLISH	21.03.2019
37	KARAN PRINCY.P	U15CS233	M/S. GLOBAL ENGLISH	21.03.2019
38	M UTTEJ	U15CS109	M/S. GLOBAL ENGLISH	21.03.2019
39	MARRIBOYINA GOVARDHAN YADAV	U15CS119	M/S. GLOBAL ENGLISH	21.03.2019
40	MARRIPUDI KRISHNA CHAITANYA	U15CS120	M/S. GLOBAL ENGLISH	21.03.2019
41	NARESH K	U15CS136	M/S. GLOBAL ENGLISH	21.03.2019
42	P.KHAJA KHAN	U15CS149	M/S. GLOBAL ENGLISH	21.03.2019
43	RAMACHANDRAN J	U15CS174	M/S. GLOBAL ENGLISH	21.03.2019
44	RAVANAM CHAITANYA	U15CS179	M/S. GLOBAL ENGLISH	21.03.2019
45	RICHARD WUMBRAND J	U15CS182	M/S. GLOBAL ENGLISH	21.03.2019
46	SANTHOSH RAJ M	U15CS189	M/S. GLOBAL ENGLISH	21.03.2019
47	SHATRUGHAN SUHAN.S	U15CS197	M/S. GLOBAL ENGLISH	21.03.2019
48	SINGALA VENKATA SAI RAM TEJESHWAR	U15CS198	M/S. GLOBAL ENGLISH	21.03.2019
49	SUDALAGUNTA GOPI	U15CS205	M/S. GLOBAL ENGLISH	21.03.2019
50	SWARNA LAKSHMI PRIYANKA	U15CS207	M/S. GLOBAL ENGLISH	21.03.2019
51	VEERELLA RUPAS CHOWDARY	U15CS214	M/S. GLOBAL ENGLISH	21.03.2019
52	VISNESH.B	U15CS219	M/S. GLOBAL ENGLISH	21.03.2019



53	YUGESH.S	U15CS240	M/S. GLOBAL ENGLISH	21.03.2019
54	KARUTURI SREE RAM	U15CS089	M/S. FULL CREATIVE PVT.	09.10.2018
55	THARAN RAVI CHANDRU	U15CS230	M/S. FULL CREATIVE PVT.	09.10.2018
56	ALLU SAI SIVA PRIYANKA NAIDU	U15CS004	M/S. MAINTEC TECHNOLOGIES	21.03.2019
57	CHAKKA KSHITHIJA	U15CS030	M/S. MAINTEC TECHNOLOGIES	21.03.2019
58	CHINTAGINJALA VENKATA SRI SAI	U15CS035	M/S. MAINTEC TECHNOLOGIES	21.03.2019
59	VUNDAVELLI VEERAVENKATA	U15CS226	M/S. MAINTEC TECHNOLOGIES	21.03.2019
60	RAJULA SREEVANI	U15CS172	M/S. MAINTEC TECHNOLOGIES & GI RETAIL PVT	21.03.2019, 18.03.2019
61	ANKAM MANJUNATH	U15CS008	M/S. GI RETAIL PVT LTD	18.03.2019
62	ARAVAPALLI SIVA VINAYA	U15CS012	M/S. GI RETAIL PVT LTD	18.03.2019
63	ARAVINDHAN K R	U15CS013	M/S. GI RETAIL PVT LTD	18.03.2019
64	ARVIND KUMR YADAV	U15CS014	M/S. GI RETAIL PVT LTD	18.03.2019
65	ARYAN SAHU	U15CS015	M/S. GI RETAIL PVT LTD	18.03.2019
66	ATTANTI RAVIKANTH	U15CS018	M/S. GI RETAIL PVT LTD	18.03.2019
67	BANAVATH SUNIL NAIK	U15CS019	M/S. GI RETAIL PVT LTD	18.03.2019
68	BANDARU RAMESH	U15CS020	M/S. GI RETAIL PVT LTD	18.03.2019
69	BATTA SIVA PRASAD	U15CS021	M/S. GI RETAIL PVT LTD	18.03.2019
70	BHARATH K	U15CS022	M/S. GI RETAIL PVT LTD	18.03.2019
71	BHARATHI V	U15CS023	M/S. GI RETAIL PVT LTD	18.03.2019



72	CHIDIPOTHU PRATHYUSHA	U15CS034	M/S. GI RETAIL PVT LTD	18.03.2019
73	CHUNDI VENKATA SESHASAI RAMANAPATANJALI	U15CS037	M/S. GI RETAIL PVT LTD	18.03.2019
74	D N S HRUDAY BHARADWAJ	U15CS039	M/S. GI RETAIL PVT LTD	18.03.2019
75	DILLIGANESH V	U15CS042	M/S. GI RETAIL PVT LTD	18.03.2019
76	DOOLIGANTI AKHIL REDDY	U15CS046	M/S. GI RETAIL PVT LTD	18.03.2019
77	GANDLUR REDDY GREESHMA	U15CS048	M/S. GI RETAIL PVT LTD	18.03.2019
78	GLADSON J	U15CS053	M/S. GI RETAIL PVT LTD	18.03.2019
79	GOLI SUDEEP KRISHNA	U15CS054	M/S. GI RETAIL PVT LTD	18.03.2019
80	GOLLAPUDI KALYAN KUMAR	U15CS055	M/S. GI RETAIL PVT LTD	18.03.2019
81	INJE RAVI TEJA	U15CS064	M/S. GI RETAIL PVT LTD	18.03.2019
82	JANAKI RAMAN V	U15CS069	M/S. GI RETAIL PVT LTD	18.03.2019
83	JOHN PARAM JYOTHI JYOTHULA	U15CS071	M/S. GI RETAIL PVT LTD	18.03.2019
84	K THULASIRAM	U15CS073	M/S. GI RETAIL PVT LTD	26.02.2019
85	KUNISSETTY JYOTHSNA	U15CS104	M/S. GI RETAIL PVT LTD	18.03.2019
86	MAILE ARUN KUMAR	U15CS112	M/S. GI RETAIL PVT LTD	18.03.2019
87	MOLAPANTI SIVA KALPANA	U15CS125	M/S. GI RETAIL PVT LTD	18.03.2019
88	PUJALA NARENDRA BABU	U15CS164	M/S. GI RETAIL PVT LTD	18.03.2019
89	RAMIREDDY SURENDRA REDDY	U15CS176	M/S. GI RETAIL PVT LTD	18.03.2019
90	SHAIK AFRIDI	U15CS193	M/S. GI RETAIL PVT LTD	18.03.2019



91	VIGNESHWARAN.M	U15CS221	M/S. GI RETAIL PVT LTD	18.03.2019
92	THARUN PRANAV K.S.	U15CS211	M/S. GI RETAIL PVT LTD & VR	18.03.2019, 20.03.2019
93	KANDI ASHOKA REDDY	U15CS082	M/S. BOSTON HARBOR CONSULTING &	19.07.2019, 21.03.2019
94	NITIN SINGH	U15CS141	M/S. INDUSIND BANK	20.02.2019
95	ABISHEK AJAY	U15CS070	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
96	ANBUMANI S	U15CS006	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
97	ANNADI DHANUSH	U15CS009	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
98	CHIMALAMUDI VINEEL	U15CS247	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
99	CHOWDHARY PRASANNA KUMAR	U15CS036	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
100	DIVYA	U15CS010	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
101	DUVVURU SUNESSH	U15CS234	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
102	GANESH BAGU	U15CS049	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
103	GANGARAJU RAHUL	U15CS050	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
104	GANGU BHAGYA	U15CS052	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
105	HEMA NARAYANAN R	U15CS062	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
106	J.SAI RAM MADHAV	U15CS246	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
107	KOTAGIRI SAI CHAND	U15CS242	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
108	LALJEE	U15CS105	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
109	MANCHALA ROHITH	U15CS114	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018



110	MANUGUNTA BHARGAVI	U15CS118	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
111	MOORABOINA NARESH	U15CS126	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
112	MUTHULAKSHMI.M	U15CS250	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
113	RANDHIR KUMAR	U15CS243	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
114	RANGISETTY KARTHIK	U15CS177	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
115	SADHOLLA PRANAY REDDY	U15CS185	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
116	SANAYAGARI JAYA CHANDRA REDDY	U15CS187	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
117	SIRI GIRI HAREESH	U15CS199	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
118	SITARAJ SRIKANTH	U15CS200	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
119	SUBHAM RAY	U15CS204	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
120	SUBHAN KUMAR SHAH	U15CS249	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
121	TAGORE S	U15CS208	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
122	TAKKELLA AJITH CHOWDARY	U15CS209	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
123	VERISETTY SUBBARAO	U15CS217	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
124	VIGNESH KUMAR R.J	U15CS220	M/S. INTERGLOBE TECHNOLOGIES	29.09.2018
125	ABHIJEET KUMAR	U15CS001	M/S. NET AXIS	31.01.2019
126	BUDDI VAMSI	U15CS237	M/S. NET AXIS	31.01.2019
127	FRANKLIN.S	U15CS703	M/S. NET AXIS	31.01.2019
128	JOTHI R	U15CS072	M/S. NET AXIS	31.01.2019



129	KARAM	U15CS704	M/S. NET AXIS	31.01.2019
130	KONGARA KIRAN KUMAR	U15CS097	M/S. NET AXIS	31.01.2019
131	LOHESH WARAN S	U15CS107	M/S. NET AXIS	31.01.2019
132	M SHIVA PRAKASH	U15CS108	M/S. NET AXIS	31.01.2019
133	MD MINHAZ RAZA HASHMI	U15CS121	M/S. NET AXIS	31.01.2019
134	MOHAMMAD ASLAM SHAREEF	U15CS123	M/S. NET AXIS	31.01.2019
135	PRAVEEN RAJ.V	U15CS701	M/S. NET AXIS	31.01.2019
136	RAJESH.D	U15CS244	M/S. NET AXIS	31.01.2019
137	S. PUNITHA	U15CS183	M/S. NET AXIS	31.01.2019
138	SANDANAMUDI CHANDRA TEJA	U15CS188	M/S. NET AXIS	31.01.2019
139	SESHA SRUJAN.B	U15CS192	M/S. NET AXIS	31.01.2019
140	SHARYARAI.S	U15CS196	M/S. NET AXIS	31.01.2019
141	SMITHA C.S	U15CS201	M/S. NET AXIS	31.01.2019
142	VADLAMUDI HARISH KUMAR	U15CS213	M/S. NET AXIS	31.01.2019
143	VEESA SUDDEP	U15CS215	M/S. NET AXIS	31.01.2019
144	VINOTHKUMAR.J	U15CS225	M/S. NET AXIS	31.01.2019
145	PRASAD ABHISHEK KUMAR	U15CS160	M/S. NETTY FISH NETWORKS & INDUSIND BANK	31.01.2019, 20.02.2019
146	N SWAPNA RAAGA	U15CS129	M/S. NTT DATA	08.04.2019
147	PAVANI M.J	U15CS252	M/S. NTT DATA & MAINTTEC	08.04.2019, 21.03.2019



148	M.YESHWITHA REDDY	U15CS111	M/S. NTT DATA, MAINTEC TECHNOLOGIES &	08.04.2019, 21.03.2019, 18.03.2019
149	YADIKI VEMANA BUJJI	U15CS228	M/S. NTT DATA, PROTECH SOFT TECHNOLOGIES,	08.04.2019, 21.03.2019,
150	ABHISHEK KUMAR SINGH	U15CS003	M/S. QSPIDERS	26.02.2019
151	AISHWARYA	U15CS251	M/S. QSPIDERS	26.02.2019
152	AMBIKE KUMAR SINGH	U15CS005	M/S. QSPIDERS	26.02.2019
153	ANUMOLU YESWANTH	U15CS011	M/S. QSPIDERS	26.02.2019
154	ASHISH RANJAN	U15CS017	M/S. QSPIDERS	26.02.2019
155	BINGEWAR SAISHARAN	U15CS025	M/S. QSPIDERS	26.02.2019
156	BODA AKHIL WESLEY	U15CS027	M/S. QSPIDERS	26.02.2019
157	BRYAN STEVE PUSHPARAJ I	U15CS029	M/S. QSPIDERS	26.02.2019
158	CHANDRA KANT CHOUDHARY	U15CS032	M/S. QSPIDERS	26.02.2019
159	DADAM CHAITHRA	U15CS040	M/S. QSPIDERS	26.02.2019
160	DIVYA VANI T	U15CS044	M/S. QSPIDERS	26.02.2019
161	DUPUGUNTALA BHANU SIVA KASINADH	U15CS047	M/S. QSPIDERS	26.02.2019
162	GUJJETI MAHESH	U15CS057	M/S. QSPIDERS	26.02.2019
163	HANUMAN B	U15CS059	M/S. QSPIDERS	26.02.2019
164	JAGADEESH K	U15CS066	M/S. QSPIDERS	26.02.2019
165	JAGADEESWARA RAO JADDU	U15CS067	M/S. QSPIDERS	26.02.2019
166	JAGATH RAJAH.R	U15CS254	M/S. QSPIDERS	26.02.2019



167	JAICHAND KUMAR	U15CS068	M/S. QSPIDERS	26.02.2019
168	KADALI VINAYNARASIMHA	U15CS074	M/S. QSPIDERS	26.02.2019
169	LINGAMPELLY SANNITH REDDY	U15CS106	M/S. QSPIDERS	26.02.2019
170	MAMUNDURU BHARATH KUMAR	U15CS113	M/S. QSPIDERS	26.02.2019
171	MOHANKUMAR J	U15CS124	M/S. QSPIDERS	26.02.2019
172	PRASHANT PATHAK	U15CS161	M/S. QSPIDERS	26.02.2019
173	RAMIREDDY LAKSHMAN AJAY	U15CS175	M/S. QSPIDERS	26.02.2019
174	RAVURI SRIKANTH	U15CS180	M/S. QSPIDERS	26.02.2019
175	RUPESH KUMAR ROY	U15CS241	M/S. QSPIDERS	26.02.2019
176	SHAIK SABIR	U15CS194	M/S. QSPIDERS	26.02.2019
177	SODISETTY SANDEEP	U15CS202	M/S. QSPIDERS	26.02.2019
178	SUJEET KRISHNA KUMAR K	U15CS206	M/S. QSPIDERS	26.02.2019
179	UTTAM KUMAR	U15CS212	M/S. QSPIDERS	26.02.2019
180	VEMSETTY ARUN SAHADEV	U15CS216	M/S. QSPIDERS	26.02.2019
181	VETCHA VENKATA KRISHNA TEJA	U15CS218	M/S. QSPIDERS	26.02.2019
182	ASHISH AGARWAL	U15CS016	M/S. QSPIDERS	26.02.2019
183	KARTHICK S	U15CS088	M/S. QSPIDERS	26.02.2019
184	KANDUKURI JESHWANTH	U15CS084	M/S. QSPIDERS	26.02.2019
185	GANGARAPU UKESH	U15CS051	M/S. QSPIDERS & MAINTEC	26.02.2019, 21.03.2019



186	SEETAPTI HEMA SEKHAR	U15CS191	M/S. QSPIDERS & MAINTEC	26.02.2019, 21.03.2019
187	PULIMUNI HIMAJA	U15CS166	M/S. QSPIDERS, MAINTEC TECHNOLOGIES &	26.02.2019, 21.03.2019, 18.03.2019
188	SUBASH CHANDRAN.V	U15CS203	M/S. QSPIDERS, MAINTEC TECHNOLOGIES &	26.02.2019, 21.03.2019, 18.03.2019
189	KM AYUSHI JAISWAL	U15CS093	M/S. QSPIDERS, MAINTEC TECHNOLOGIES, HAVENFLOYD &	26.02.2019, 21.03.2019, 18.03.2019
190	BONALA SRIDHAR RAO	U15CS028	M/S. RED CARPET	21.02.2019
191	CHAMARTHI LAKSHMI NARAYANA	U15CS031	M/S. RED CARPET	21.02.2019
192	INNURU SWATHI	U15CS065	M/S. SOFTCRYLIC	04.05.2019
193	KADUMU MOUNIKA	U15CS075	M/S. TOPPRS	27.08.2018
194	KANCHUMARTHI BHUVANESWAR	U15CS080	M/S. TOPPS	27.08.2018
195	KARAPAREDDY BHARGAVI	U15CS086	M/S. TOPPRS	27.08.2018
196	RAPARTHY SAI KIRAN	U15CS178	M/S. TOPPRS & PMS BAZAAR	27.08.2018, 13.12.2018
197	PULAGAM SAI PRATHAP REDDY	U15CS165	M/S. TOPPRS, QSPIDERS, MAINTEC TECHNOLOGIES &	27.08.2018, 26.02.2019, 21.03.2019, 18.03.2019
198	CILLA SAI KISHORE	U15CS038	M/S. VR CAREERZ	20.03.2019
199	SATHISH S	U15CS190	M/S. VR CAREERZ	20.03.2019
200	SHAIK YASMEEN	U15CS195	M/S. VR CAREERZ	20.03.2019
201	S. SAI SHRUTHI	U15CS184	M/S. VR CAREERZ & GI RETAIL PVT	20.03.2019, 18.03.2019
202	KOLUKULURI ADITHYA RAGHAV	U15CS094	M/S. W2S SOLUTIONS	06.03.2019



203	KAIPU PRANAY REDDY	U15CS076	M/S. W2S SOLUTIONS, GI RETAIL PVT LTD &	06.03.2019, 18.03.2019, 20.03.2019

2017 – 18				
S.NO	NAME OF THE STUDENT PLACED	REG.NO	NAME OF THE EMPLOYER	APPOINTMENT LETTER DATE
1	GARLAPATI HEMA SAI KRISHNA	U14CS052	M/S. AMAZON	11.04.2018
2	BISHAL BANIK	U14CS031	M/S. AMAZON	11.04.2018
3	MEKA VIVEK REDDY	U14CS099	M/S. BYJU'S	21.03.2018
4	SASHAANK.S	U14CS163	M/S. BYJU'S & IRIS TECHNOLOGIES	21.03.2018, 11.04.2018
5	CHIDIRALA.SAI SHANKAR	U14CS038	M/S. HITACHI PAYMENT SOLUTIONS	26.04.2018
6	K.SIVA SUBRAMANIAN	U14CS177	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
7	MARAM REDDY RAJASEKHAR	U14CS230	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
8	NAGA TEJA.K	U14CS110	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
9	RAFTEN WANCHU	U14CS706	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
10	RAMYA.B	U14CS148	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
11	SANTHOSH KUMAR.N	U14CS162	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
12	SAURAV SINGH	U14CS165	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018



13	SUSMITA MOG	U14CS70 8	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
14	VISHAL SAI TEJ REDDY.V	U14CS20 6	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
15	NAYANA.P. BALA CHANDRAN	U14CS11 6	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
16	SANDEEP INGUVA	U14CS16 0	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
17	SOURABH PRIYADARSHI	U14CS18 1	M/S. GAVS TECHNOLOGIES PVT. LTD.	01.06.2018
18	CHILLIMUNTA VENKATESH	U14CS21 7	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
19	GODJSELA SRINATH	U14CS05 3	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
20	GONTLA KARTHIK	U14CS05 4	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
21	HARI TEJA.G	U14CS05 8	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
22	JASIMKHAN.J.	U14CS06 0	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
23	JENNIFER.S	U14CS06 1	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
24	K. LAKSHMI NARAYANA REDDY	U14CS06 5	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
25	KARAN KUMAR CHETTRI	U14CS06 6	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
26	KARTHIKEYAN SURESH	U14CS22 0	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
27	KARTIK YADAV	U14CS07 1	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018



28	KATKURI.KUMAR	U14CS07 2	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
29	KATTA DINESH KUMAR	U14CS07 3	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
30	KESHAVAPRIYA .S	U14CS07 4	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
31	KILARI LAXMI SUDHA	U14CS07 6	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
32	KISHORE KUNAL	U14CS07 7	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
33	RAGUL TIGER	U14CS70 9	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
34	RANGAPUR VIKAS REDDY	U14CS14 9	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
35	S.KUMARAN	U14CS70 2	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
36	SIREESHA.M	U14CS17 6	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
37	SK MD TAUQEER	U14CS17 8	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
38	SUNDAR.V.	U14CS21 6	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
39	SURENDAR.K	U14CS18 5	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
40	THARIGOPULA LOKESH	U14CS19 2	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
41	VADLAMUDI KOWSHIK	U14CS19 8	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
42	YASVAND CUMAAR .S	U14CS20 9	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018



43	K. LAKSHMIKANTH REDDY	U14CS06 4	M/S. MAINTEC TECHNOLOGIES PVT LTD	20.02.2018
44	SRI DHARSHINI .P	U14CS18 2	M/S. MAINTEC TECHNOLOGIES PVT LTD & GAVS	20.02.2018, 01.06.2018
45	RAHUL GOUD.P	U14CS13 6	M/S. MAINTEC TECHNOLOGIES PVT LTD & IRIS	20.02.2018, 11.04.2018
46	VIVEK.G	U14CS20 8	M/S. MAINTEC TECHNOLOGIES PVT LTD & IRIS	20.02.2018, 11.04.2018
47	SUSINDHAR .P	U14CS18 8	M/S. MAINTEC TECHNOLOGIES PVT LTD &	20.02.2018, 01.12.2017
48	SWEETY SHIMAL	U14CS19 0	M/S. MAINTEC TECHNOLOGIES PVT LTD &	20.02.2018, 19.12.2017
49	HARISH.V	U14CS05 9	M/S. MAINTEC TECHNOLOGIES PVT LTD, IDBI FEDERAL &	20.02.2018, 12.04.2018, 05.01.2018
50	VENKATA KRISHNAN.R	U14CS20 3	M/S. MAINTEC TECHNOLOGIES PVT LTD., IDBI FEDERAL & IRIS	20.02.2018, 12.04.2018 & 11.04.2018
51	JERIPOTHULA SURESH GOUD	U14CS06 2	M/S. MAINTEC TECHNOLOGIES PVT LTD.. &	20.02.2018, 03.11.2017
52	ARUN	U14CS22 3	M/S. SIMPLILEARN	19.12.2017
53	DANDU MOHAN RAJENDRA VARMA	U14CS23 4	M/S. SIMPLILEARN	19.12.2017
54	I.SUKAPATLA AVINASH	U14CS22 7	M/S. SIMPLILEARN	19.12.2017
55	MEDARAMETLA BRAHMA RAO	U14CS09 7	M/S. SIMPLILEARN	19.12.2017
56	P.UPENDRA VARMA	U14CS23 3	M/S. SIMPLILEARN	19.12.2017



57	SARAVANAN.B	U14CS22 6	M/S. SIMPLILEARN	19.12.2017
58	SAURAV KUMAR	U14CS16 4	M/S. SIMPLILEARN	19.12.2017
59	SHOP MINISTER	U14CS71 0	M/S. SIMPLILEARN	19.12.2017
60	VASANTHAN.N	U14CS70 3	M/S. SIMPLILEARN	19.12.2017
61	VIVEK KUMAR	U14CS20 7	M/S. SIMPLILEARN	19.12.2017
62	BALAJI SINGH. T	U14CS02 7	M/S. AMTEX SYSTEMS PVT. LTD.	02.09.2017
63	BALAJI.S	U14CS02 8	M/S. AMTEX SYSTEMS PVT. LTD..	02.09.2017
64	NEERAJAN SAHA	U14CS11 7	M/S. AMTEX SYSTEMS PVT. LTD..	02.09.2017
65	PANKAJ SARKAR	U14CS12 3	M/S. AMTEX SYSTEMS PVT. LTD..	02.09.2017
66	BALAKRISHNAN.T	U14CS02 9	M/S. AMTEXSYSTEMSP VT. LTD..	02.09.2017
67	KOUSHIK SUBRAMANIAM.Y	U14CS07 9	M/S. AMTEX SYSTEMS PVT. LTD. & DATA64	02.09.2017, 03.11.2017
68	MEDIGA UDAYA KUMAR	U14CS09 8	M/S. CRANES SOFTWARE	02.03.2018
69	NANDALA SWETHA	U14CS11 4	M/S. CRANES SOFTWARE	02.03.2018
70	MADDIPATI BHARAT	U14CS08 8	M/S. CYBER SECURITY WORKS PVT. LTD..	29.01.2018
71	MADIYAL ANJAY	U14CS08 9	M/S. CYBER SECURITY WORKS PVT. LTD..	29.01.2018



72	VIJAY KUMAR .M.R	U14CS20 5	M/S. CYBER SECURITY WORKS PVT. LTD..	29.01.2018
73	AREEF SYED	U14CS02 1	M/S. DATA64	03.11.2017
74	KODALI AKHIL	U14CS07 8	M/S. DATA64	03.11.2017
75	KOVURI BALASUBHAKAR REDDY	U14CS08 0	M/S. DATA64	03.11.2017
76	KRISHNANDAN YADAV	U14CS08 2	M/S. DATA64	03.11.2017
77	LAKKAMPALLY SHIVA KUMAR	U14CS08 4	M/S. DATA64	03.11.2017
78	LAKSHMI PRIYA.A	U14CS08 5	M/S. DATA64	03.11.2017
79	PAYAL SINGH	U14CS12 6	M/S. OLIVEWEAR	22.06.2017
80	BACHU HARISH	U14CS02 5	M/S. EDUFIC DIGITAL MEDIA PVT. LTD.	29.07.2017
81	NANDIPALLI MOUNICA	U14CS11 5	M/S. EDUFIC DIGITAL MEDIA PVT. LTD.	29.07.2017
82	NIRUPAMA CHAKRABORTY .S	U14CS12 0	M/S. GEEKSUP	29.03.2018
83	POOJA KUMARI	U14CS13 0	M/S. GEEKSUP	29.03.2018
84	ARAMBAKAM,YASWAN TH	U14CS01 9	M/S. GEOME0 INFORMATICS	11.09.2017
85	ARNISHA DAS	U14CS70 7	M/S. GEOME0 INFORMATICS	11.09.2017
86	B.BALAKUMARAN	U14CS23 2	M/S. GEOME0 INFORMATICS	11.09.2017



87	CHINTAPANTI SRIKANTH	U14CS04 0	M/S. GEOMEO INFORMATICS	11.09.2017
88	ELACATI JAGANNADHA HARSHITHA	U14CS22 8	M/S. GEOMEO INFORMATICS	11.09.2017
89	GYANA PRASANNA S	U14CS50 1	M/S. GEOMEO INFORMATICS	11.09.2017
90	INDHU GOPALAKRISHNAN	U14CS22 9	M/S. GEOMEO INFORMATICS	11.09.2017
91	MAKKAPTI SIDDHARDHA	U14CS21 8	M/S. GEOMEO INFORMATICS	11.09.2017
92	MURALI .S	U14CS10 8	M/S. GEOMEO INFORMATICS	11.09.2017
93	R.SINDHU	U14CS22 4	M/S. GEOMEO INFORMATICS	11.09.2017
94	VENKATA SUDHEER VAMSHI KRISHNA.K	U14CS20 4	M/S. GEOMEO INFORMATICS	11.09.2017
95	BODA VEERA VENKATA RAVI TEJA	U14CS03 2	M/S. GEOMEO INFORMATICS	11.09.2017
96	BOORAGADDA VAMSI KRISHNA	U14CS03 3	M/S. GEOMEO INFORMATICS	11.09.2017
97	NITISH SINGH CHAUHAN	U14CS12 1	M/S. GEOMEO INFORMATICS	11.09.2017
98	MANIMALA.G	U14CS09 3	M/S. IDBI FEDERAL	12.04.2018
99	MANISH SHARMA	U14CS09 4	M/S. IDBI FEDERAL	12.04.2018
100	MD. ARSHAD	U14CS09 6	M/S. IDBI FEDERAL	12.04.2018
101	AADHITYA MALLIKA ARJUN	U14CS00 1	M/S. IDBI FEDERAL	12.04.2018



102	AAVULA DIXITH REDDY	U14CS00 2	M/S. IDBI FEDERAL	12.04.2018
103	ABDUL RAHIM.M	U14CS00 3	M/S. IDBI FEDERAL	12.04.2018
104	ABDUL RAZVI .M.K	U14CS00 4	M/S. IDBI FEDERAL	12.04.2018
105	ABDUR RASEED	U14CS00 5	M/S. IDBI FEDERAL	12.04.2018
106	ABHIKAMALI .A	U14CS00 6	M/S. IDBI FEDERAL	12.04.2018
107	ABHISHEK MANDURI	U14CS00 7	M/S. IDBI FEDERAL	12.04.2018
108	AJAY.D	U14CS00 8	M/S. IDBI FEDERAL	12.04.2018
109	AKASH CHANDRA AMBASTHA	U14CS00 9	M/S. IDBI FEDERAL	12.04.2018
110	AKHIL REDDY.G	U14CS01 0	M/S. IDBI FEDERAL	12.04.2018
111	AKSHAY.R	U14CS01 1	M/S. IDBI FEDERAL	12.04.2018
112	AMAR BASUMATARY	U14CS01 2	M/S. IDBI FEDERAL	12.04.2018
113	ANDREW JOSEPH.V	U14CS01 3	M/S. IDBI FEDERAL	12.04.2018
114	ANGELIN .R	U14CS01 4	M/S. IDBI FEDERAL	12.04.2018
115	ANKITA	U14CS01 5	M/S. IDBI FEDERAL	12.04.2018
116	ANNILKRISHNAN .K	U14CS01 6	M/S. IDBI FEDERAL	12.04.2018



117	ARUN KUMAR SINGH	U14CS02 2	M/S. IDBI FEDERAL	12.04.2018
118	NITYANAND BHARDWAJ	U14CS12 2	M/S. IDBI FEDERAL	12.04.2018
119	SAJJA. SURENDRA PRASAD	U14CS15 7	M/S. IDBI FEDERAL	12.04.2018
120	YELLALA SANTHOSH REDDY	U14CS21 0	M/S. IDBI FEDERAL	12.04.2018
121	RAMANATHAN.J	U14CS14 7	M/S. IDBI FEDERAL	12.04.2018
122	VASI KARTHIK	U14CS20 1	M/S. IDBI FEDERAL	12.04.2018
123	KRISHNA SRIVASTAV.S.K	U14CS08 1	M/S. IDBI FEDERAL	12.04.2018
124	FAZIL AHAMED.J	U14CS05 0	M/S. IN22LABS	18.02.2018
125	GANESH RAJ .L	U14CS05 1	M/S. IN22LABS	18.02.2018
126	KEVIN ARNOLD THAKUR	U14CS07 5	M/S. IN22LABS	18.02.2018
127	BALA MURUGAN .P	U14CS02 6	M/S. IN22LABS & CYBER SECURITY WORKS PVT. LTD.	18.02.2018, 29.01.2018
128	DARA DEEPTHI	U14CS04 4	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
129	DEEPAKSANKAR REDDY.M	U14CS04 5	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
130	DEVARAPALLI HIMAKAR	U14CS04 6	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
131	DEVULAPALLY NAGARAJU	U14CS04 7	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017



132	DIVYA RUPINI.B	U14CS04 8	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
133	EVELIN JUGI.R	U14CS04 9	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
134	M.RAVISANKAR	U14CS23 6	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
135	MOLUGURI PRADEEP CHANDRA	U14CS10 4	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
136	MUGANTH.R.	U14CS10 6	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
137	PARVATHA NIRANJAN REDDY	U14CS12 4	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
138	PRANJAL BHASHKAR	U14CS21 5	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
139	RAJNISH RANJAN PANDEY	U14CS14 3	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
140	SANJAY KUMAR YADAV	U14CS16 1	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
141	SATHISH RAJ	U14CS23 5	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
142	SHABEEK ABUTHAHIR.S	U14CS70 5	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
143	TWINKLE	U14CS19 7	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
144	SHUBHAM	U14CS17 5	M/S. INTERGLOBE TECHNOLOGIES	29.11.2017
145	PRINCE RAJ	U14CS13 4	M/S. WORKFREAKS	05.01.2018
146	ARJHUN KUMAR.K	U14CS22 5	M/S. WORKFREAKS	05.01.2018



147	CHARAN KUMAR	U14CS23 7	M/S. WORKFREAKS	05.01.2018
148	CHINTAGUNTA MARUTHI VENKATESWARA	U14CS03 9	M/S. WORKFREAKS	05.01.2018
149	GOTTIPATI KARTHIK	U14CS05 5	M/S. WORKFREAKS	05.01.2018
150	M.GANESH RAJAN	U14CS22 2	M/S. WORKFREAKS	05.01.2018
151	MOOTHI LAKSHMI PRASANNA	U14CS10 5	M/S. WORKFREAKS	05.01.2018
152	N.UMA VENKATA MAHESHWARA SWAMY	U14CS10 9	M/S. WORKFREAKS	05.01.2018
153	NAGINENI SRIKANTH CHOWDARY	U14CS11 1	M/S. WORKFREAKS	05.01.2018
154	NAGIREDDY MOHAN KRISHNA REDDY	U14CS11 2	M/S. WORKFREAKS	05.01.2018
155	NALLAJARLA CHAKRADHAR	U14CS11 3	M/S. WORKFREAKS	05.01.2018
156	NETHI MUKESH	U14CS11 8	M/S. WORKFREAKS	05.01.2018
157	GOVIND KUMAR	U14CS05 7	M/S. IRIS TECHNOLOGIES	11.04.2018
158	MANDELA SAIKIRAN	U14CS09 2	M/S. IRIS TECHNOLOGIES	11.04.2018
159	MUGUNTHANATHAN.G	U14CS10 7	M/S. IRIS TECHNOLOGIES	11.04.2018
160	PRAGYA ADITI	U14CS13 1	M/S. IRIS TECHNOLOGIES	11.04.2018
161	PRASHANTH.B	U14CS13 2	M/S. IRIS TECHNOLOGIES	11.04.2018



162	PRATEEP ANAND	U14CS13 3	M/S. IRIS TECHNOLOGIES	11.04.2018
163	RAHUL HAWAIBAM	U14CS13 7	M/S. IRIS TECHNOLOGIES	11.04.2018
164	RAHUL KUMAR	U14CS13 8	M/S. IRIS TECHNOLOGIES	11.04.2018
165	RAHUL KUMAR SINGH	U14CS13 9	M/S. IRIS TECHNOLOGIES	11.04.2018
166	RAHUL SARDAR	U14CS14 1	M/S. IRIS TECHNOLOGIES	11.04.2018
167	RAJA S.V	U14CS14 2	M/S. IRIS TECHNOLOGIES	11.04.2018
168	RAKHI PRASAD	U14CS14 5	M/S. IRIS TECHNOLOGIES	11.04.2018
169	RONU SHARMA	U14CS15 3	M/S. IRIS TECHNOLOGIES	11.04.2018
170	RUSHIKA TIWARI	U14CS15 4	M/S. IRIS TECHNOLOGIES	11.04.2018
171	SABUJ BARMAN	U14CS18 0	M/S. IRIS TECHNOLOGIES	11.04.2018
172	SAGI AKSHAY KUMAR	U14CS15 6	M/S. IRIS TECHNOLOGIES	11.04.2018
173	SHAFAN HASIM.N	U14CS16 6	M/S. IRIS TECHNOLOGIES	11.04.2018
174	SHAIK AATIKA	U14CS16 7	M/S. IRIS TECHNOLOGIES	11.04.2018
175	SHAIK MEERA SHARIF	U14CS16 8	M/S. IRIS TECHNOLOGIES	11.04.2018
176	SHAIK YASMIN	U14CS16 9	M/S. IRIS TECHNOLOGIES	11.04.2018



177	SHANKAR KUMAR GUPTA	U14CS17 0	M/S. IRIS TECHNOLOGIES	11.04.2018
178	SHASHI BHUSHAN BHAGAT	U14CS17 2	M/S. IRIS TECHNOLOGIES	11.04.2018
179	SHEKH ADNAN NIYARIYA	U14CS17 3	M/S. IRIS TECHNOLOGIES	11.04.2018
180	SHIVANI GUPTA.M	U14CS17 4	M/S. IRIS TECHNOLOGIES	11.04.2018
181	THEJA.T	U14CS19 3	M/S. IRIS TECHNOLOGIES	11.04.2018
182	THOTA SHIVA SAI KRISHNA	U14CS19 5	M/S. IRIS TECHNOLOGIES	11.04.2018
183	TAMMINANA SAGAR	U14CS15 5	M/S. IRIS TECHNOLOGIES & DATA64	11.04.2018, 03.11.2017
184	SUNITA.S	U14CS18 4	M/S. IRIS TECHNOLOGIES & IDBI FEDERAL	11.04.2018, 12.04.2018
185	RAM KUMAR PANDEY	U14CS14 6	M/S. IRIS TECHNOLOGIES & WORKFREAKS	11.04.2018, 05.01.2018
186	VARSHITH REDDY.T	U14CS20 0	M/S. IRIS TECHNOLOGIES & IDBI FEDERAL	11.04.2018 , 12.04.2018
187	ATUL ANAND	U14CS02 4	M/S.IRIS TECHNOLOGIES & DATA64	11.04.2018, 03.11.2017
188	BALAJI	U14CS70 1	M/S. KRITIDIGITECHPVT . LTD..	11.01.2018
189	PIYALI CHAKRABORTHY.M	U14CS12 9	M/S. KRITIDIGITECHPVT . LTD..	11.01.2018
190	SULEKHA KUMARI	U14CS18 3	M/S. KRITIDIGITECHPVT . LTD..	11.01.2018
191	TUMU SRINIKHIL	U14CS19 6	M/S. KRITIDIGITECHPVT . LTD..	11.01.2018



192	LOKESHWARAN.A.	U14CS08 6	M/S. LOBBYNOTE	01.12.2017
193	GYANA PRASANNA	U14CS23 1	M/S. OLIVEWEAR	22.06.2017
194	MAL REDDY GANESH REDDY	U14CS09 0	M/S. OLIVEWEAR	22.06.2017
195	MALLISETTI SAI SANDEEP	U14CS09 1	M/S. OLIVEWEAR	22.06.2017
196	BOYAPATI VINAY	U14CS03 4	M/S. WEBTOALL	11.09.2017
197	BYSANI VENKAT SANDEEP	U14CS03 5	M/S. WEBTOALL	11.09.2017
198	CHARAN.G	U14CS03 6	M/S. WEBTOALL	11.09.2017
199	JOHN DALTON .H	U14CS06 3	M/S. WEBTOALL & GEEKSUP	11.09.2017, 29.03.2018
200	MOHAMED SALMAN.R	U14CS10 0	M/S. WEBTOALL, GEEKSUP & DATA64	11.09.2017, 29.03.2018, 03.11.2017

4.5 Professional Activities

4.5.1 Professional Societies/Chapters and Organizing Engineering Events

PROFESSIONAL SOCIETIES	ESTABLISHING YEAR
Computer Society of India (CSI)	December 2012
Institution of Engineering Technology (IET)	December 2018
Indian Society for Technical Education (ISTE)	March 2021

PROFESSIONAL SOCIETIES/CHAPTER	NAME OF THE MEMBER	MEMBERSHIP NUMBER



CSI	Dr.K.P.Kalliyamoorthy	N1186603
CSI	Mr.RajabhushanamCheruki	10174068
IET	Dr.K.P.Kalliyamoorthy	1100745921
	Dr. S.Nedunchellian	1100745920
ISTE	Dr.K.P.Kalliyamoorthy	LM101531
ISTE	Ms.N.Raji	LM 58876
ISTE	Ms.K.AnitaDavamani	LM77473
ISTE	Ms.E.Srividhya	LM125503
ISTE	Ms.R.Jagadeeswari	LM86835
ISTE	Ms.G.UmaraniSrikanth	LM32118
ISTE	Ms.M.K.Vidhyalakshmi	LM06514

Table 4.5.1c: Details for events organized in association with Professional Societies/Chapters

NAME OF PROFESSIONAL SOCIETIES / CHAPTERS	ORGANIZED EVENT AND TITLE	ORGANIZED DATE/PERIOD	NUMBER OF PARTICIPANTS
CAY 2020-21			
CSI	Virtual National Webinar on IoT Based Industrial Health Monitoring System COVID19	24.02.2021	125
	Virtual National Webinar on Recent Research Trends in Image Processing	31.05.2021	189
	Virtual National Webinar on Significance of Cyber Security	02.06.2021	162
	Virtual National Webinar	07.06.2021	81



	on Server Technologies		
IOT & CSI	Virtual International Webinar on Information Technology and Global Employment Opportunities	26.06.2021	184
	Virtual International Webinar on US Healthcare IT : A Career Perspective	27.06.2021	173
	Virtual International Webinar on “International Technology and Global Employment Opportunities	28.06.2021	253
	Virtual International Webinar on Information Technology and Global Employment Opportunities	29.06.2021	253
	Virtual International Webinar on Understanding Information Technology	01.07.2021	142
CAYm1 2019-20			
IET	Workshop on Machine Learning	16-01-2020 to 18-01-2020	167
	Seminar on Artificial Intelligence and Expert Systems	08-07-2019	200
CAYm2 018-19			
CSI	Workshop On Microwave Remote Sensing And Agriculture	28-03-2019	180
	Workshop on Internet of Things(IoT) Using Arduino	14/11/2018 to 15/11/2018	212
	Technical Seminar on An Introduction And New Trends, Research Scope In Control Systems	24-09-18	200
CAYm3 2017-18			
CSI	Technical Seminar on	23/02/2018	217



	Ethical Hacking		
	Technical Seminar on Cloud Computing	27/12/2017	170
	Technical Seminar On Cyber Physical System	25-09-2017	120

4.5.2 Publication of Technical Magazines, Newsletters, etc.

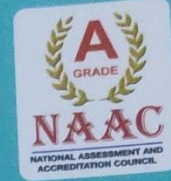
CATEGORY	NAME	FREQUENCY	YEAR
Newsletter	TECHINFO 19B	Half-Yearly	2019
Newsletter	TECHINFO 19A	Half-Yearly	2019
Magazine	TECHASTRA T19- National level technical symposium	Yearly	2019
Newsletter	TECHINFO 18B	Half-Yearly	2018
Newsletter	TECHINFO 18A	Half-Yearly	2018
Magazine	CONTINUUM V18 - National level technical symposium	Yearly	2018
Newsletter	TECHINFO 17B	Half-Yearly	2017
Newsletter	TECHINFO 17A	Half-Yearly	2017
Magazine	EKALAVYA 2K17 - National level technical symposium	Yearly	2017
Newsletter	THRIVE 16A	Half-Yearly	2016
Newsletter	THRIVE 16B	Half-Yearly	2016



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)
(Vide Notification No. F9-S/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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பாரத் உயர் கல்வி மற்றும் ஆராய்ச்சி நிறுவனம்



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TECHNICAL MAGAZINE

TECHINFO - 17

NEWSLETTER - 2017-2018

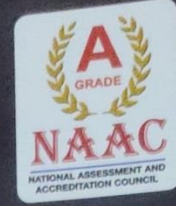
(JANUARY - JUNE)



Bharath
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TECHNICAL MAGAZINE

TECHINFO - 19

NEWSLETTER - 2019-2020

(JANUARY - JUNE)



4.5.3 Participation in Inter-Institute events by Students of the Program of Study

ACADEMIC YEAR	NO OF STUDENTS PARTICIPATED IN THE INTER-INSTITUTE EVENTS	NO OF STUDENTS PARTICIPATED IN THE WORKSHOP / WEBINAR	NO OF STUDENTS PARTICIPATED IN THE SYMPOSIUM	NO OF STUDENTS AWARDED	NO OF STUDENTS OUTSIDE THE STATE
CAYm1 2019-20	89	76	13	-	24
CAYm2 2018-19	89	83	6	2	33
CAYm3 2017-18	102	50	52	1	66

ACADEMIC YEAR 2019 - 20					
NAME	YEAR OF STUDY	EVENT NAME	INSTITUTION NAME	DATE	PRIZE WON
Varun Kumar Medam	II	WORKSHOP ON "GOOGLE CLOUD STUDY JAM"	SRMIST	29/4/19	Participation
Ch.Jayakrishna	II	WORKSHOP ON "#ML101 WITH TENSORFLOW"	SRMIST	06/4/19	Participation
Ch.Jayakrishna	II	WORKSHOP ON "GOOGLE CLOUD STUDY JAM"	SRMIST	29/04/19	Participation
R. Jagathrajah	IV	WORKSHOP	Blue Chip Technologies Pvt Ltd	25/03/2019	Participation



Sri Krishna M	III	NETBALL	Koramangala Indoor Stadium, Bangalore	15/03/2019 TO 21/03/2019	Participation
Varun Kumar Medam	II	WORKSHOP ON “APPDEV101 USING FLUTTER”	SRMIST	23/02/19	Participation
Ch.Jayakrishna	II	WORKSHOP ON “APPDEV101 USING FLUTTER”	SRMIST	23/02/19	Participation
Varun Kumar Medam	II	WORKSHOP ON “MAGIC OF FIREBASE”	SRMIST	06/2/19	Participation
Ch.Jayakrishna	II	WORKSHOP ON “MAGIC OF FIREBASE”	SRMIST	06/2/19	Participation
Gowthaman S	III	CONNECTIONS IN KRATOS’18 NATIONAL LEVEL TECHNICAL	Easwari Engineering College	02/02/18	Participation
Gowthaman S	III	MIDCITY MADNESS IN KRATOS’18 NATIONAL LEVEL	Easwari Engineering College	02/02/18	Participation
Gowthaman S	III	IPL AUCTION IN KRATOS’18 NATIONAL LEVEL TECHNICAL	Easwari Engineering College	02/02/18	Participation
Arvind Kumar Yadav	IV	TRAINING (JAVA TECHNOLOGY)	OOPS Info solutions	09/08/2018 TO 10/10/2018	Trainee



Gangu Bhagya	IV	RESEARCH EXPO	IIIT, Sri City, Chittoor	06/10/2018	Participation
Varun Kumar Medam	II	WORKSHOP ON “WEB-DEV 101”	SRMIST	29/8/18	Participation

ACADEMIC YEAR 2017-18					
NAME	YEAR OF STUDY	EVENT NAME	INSTITUTION NAME	DATE	PRIZE WON
Gowthaman S	II	SAMHITA’17 NATIONAL LEVEL TECHNICAL SYMPOSIUM	Anna University	10/02/2017 & 11/02/2017	Participation
Gowthaman S	II	SEQUEL SCHOLAR IN SAMHITA’17 NATIONAL LEVEL TECHNICAL SYMPOSIUM	Anna University	10/02/2017 & 11/02/2017	Participation
Gowthaman S	II	MATH O MANIA IN SAMHITA’17 NATIONAL LEVEL TECHNICAL SYMPOSIUM	Anna University	10/02/2017 & 11/02/2017	Participation
Sanjay Kumar	IV	JAVA TRAINING	OOPS Info Solutions	9/10/2017 TO 20/02/2018	Trainee
Rahul Kumar	IV	JAVA TRAINING	OOPS Info Solutions	7/09/2017 TO 28/02/2018	Trainee
Vivek Kumar	IV	JAVA TRAINING	OOPS Info Solutions	7/09/2017 TO 28/02/2018	Trainee
Sri Krishna M	II	NETBALL	Netball Association, Ariyalur District	08/03/2018 TO 18/03/2018	Participation
Jagathrajah R	III	ETHICAL HACKING	IIT-Madras	07/04/2018 TO 08/04/2018	Participation



Jagathrajah R	III	MONSOON CAMP 2017	IP Man Wing Chun India Association, Salem	12/08/2017 TO 13/08/2017	Participation	
ACADEMIC YEAR 2016 - 2017						
S.NO	NAME	YEAR OF STUDY	EVENT NAME	INSTITUTION NAME	DATE	PRIZE WON
1	Kevin Thakur	III	WORKSHOP ON AUTOMOTIVE EMBEDDED SYSTEMS AND COMMUNICATION PROTOCOLS	PSG College Of Technology	09/07/2016	Participation
2	Pavani MJ	II	HACKTRACK – ETHICAL TRACKING	SRMIST	28/09/2016 & 29/09/2016	Participation
3	Nikita Sharma	II	HACKTRACK – ETHICAL TRACKING	SRMIST	28/09/2016 & 29/09/2016	Participation
4	Vemana Bujji Y	II	HACKTRACK – ETHICAL TRACKING	SRMIST	28/09/2016 & 29/09/2016	Participation
5	Ch. Saishankar	II	WORKSHOP ON ANDROID	UNIQ Technologies	22/10/2016	Participation
6	Nikitha Sharma	II	WORKSHOP ON WEB DEVELOPMENT	VIT	11/03/2016	Participation
7	Vemana Bujji Y	II	WORKSHOP ON WEB DEVELOPMENT	VIT	11/03/2016	Participation
8	Aryan Sahu	II	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 TO 10/04/2017	Participation
9	Bikki Kumar Sha	II	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 TO 10/04/2017	Participation
10	Ashutosh Srivastava	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation



11	Areef Syed	III	BOOT CAMP	Google Developer Group,	03/04/2017 to 10/04/2017	Participation
12	Bala Murugan	III	BOOT CAMP	Google Developer Group,	03/04/2017 to 10/04/2017	Participation
13	Karan Kumar Chettri	III	BOOT CAMP	Google Developer Group,	03/04/2017 to 10/04/2017	Participation
14	Kevin Thakur	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation
15	Nitish Singh Chauhan	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation
16	Pragya Aditi	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation
17	Sashank S	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation
18	Sashi Bhushan	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation
19	Shekh Adnan	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation
20	Sweetly Shimal	III	BOOT CAMP	Google Developer Group, Bangalore	03/04/2017 to 10/04/2017	Participation
21	Jagathraja h R	II	ANNUAL HUNG KUEN MONSOON CAMP	Hung Kuen Association, Salem	14/08/2016 to 15/08/2016	Participation
22	Jagathraja h R	II	2 ND NATIONAL LEVEL OPEN CHANPIONSHIP	National Martial Arts & Yoga Association	10/07/2016	Second Prize



CRITERION 5	FACULTY INFORMATION AND CONTRIBUTIONS	200

5.1 Student-Faculty Ratio (SFR)

No. of UG Programs in the Department (n): 01

No. of PG Programs in the Department (m): 01

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

(To be calculated at Department Level)

No. of UG Programs in the Department (n): 02

No. of PG Programs in the Department (m): 02

No. of Students in UG 2nd Year= u1

No. of Students in UG 3rd Year= u2

No. of Students in UG 4th Year= u3

No. of Students in PG 1st Year= p1

No. of Students in PG 2nd Year= p2

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1+UG2+UG3+PG1+PG2

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Faculty Ratio (SFR) = S / F

Table 5.1

Year	CAY (2020-2021)	CAY m1 (2019-2020)	CAY m2 (2018-2019)
U1.1	1140	1140	720
U1.2	1140	720	240
U1.3	720	240	240
UG 1	3000	2100	1200
P1.1	18	18	18
P1.2	18	18	18
PG 1	36	36	36
Total No. of Students in the Department (S)	3036	2136	1236
No. of Faculty in the Department (F)	203	143	83
Student Faculty Ratio (SFR)	14.9	14.9	14.8



Average SFR	SFR=(SFR1+SFR2+SFR3)/3	14.8

5.1.1. Provide the Information about the Regular and Contractual Faculty as per the format mentioned below:

Table 5.1.1

Year	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY (2020-2021)	203	-
CAY m1 (2019-2020)	143	-
CAY m2 (2018-2019)	83	-

5.2. Faculty Cadre Proportion

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = $1/9 \times$ Number of Faculty required to comply with 15:1 Student Faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required = $2/9 \times$ Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required = $6/9 \times$ Number of Faculty required to comply with

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2020-2021)	22	22	44	44	137	137
CAYm1(2019-2020)	16	16	32	32	95	95
CAYm2(2018-2019)	9	9	18	18	56	56
Average Numbers	RF1=15.6	AF1=15.6	RF2=31.3	AF2=31.3	RF3=96	AF3=96

15:1 Student-Faculty ratio based on no. of students (N) as per 5.1

$$\text{Cadre Ratio Marks} = \frac{\text{AF1}}{\text{X10}} + \left(\frac{\text{AF2}}{\text{RF2}} \times 0.6 \right) + \left(\frac{\text{AF3}}{\text{RF3}} \times 0.4 \right)$$



Case 2: limited to 20

$$\text{Cadre Ratio} = ((15.6/15.6) + ((31.3/31.3)*0.6) + ((96/96)*0.4))*10$$
$$= 20$$

5.3. Faculty Qualification

$$\text{FQ} = 2.0 \times [(10X + 4Y)/F]$$

Table 5.3

Year	X	Y	F	FQ = 2.0 x [(10X + 4Y)/F]
CAY(2020-2021)	66	137	203	11.9
CAYm1(2019-2020)	46	97	143	11.8
CAYm2(2018-2019)	25	58	83	11.6
Average Assessment				11.7

5.4. Faculty Retention

No. of regular faculty members in CAYm2 (2019-2020) =143

No. of regular faculty members in CAYm (2018-2019) =83

No. of regular faculty members in CAYm1 (2017-2018) =46

YEARS	RETAINED	Percentage %
CAYm (2019-2020)	93/143	65%
CAYm1 (2018-2019)	55/83	62%
CAYm2 (2017-2018)	31/50	59%
AVG		62%



*-Due to increase in student intake, new recruits are added in the CAY

Item (% of faculty retained during the period of assessment keeping CAYm2 as base year)	Marks
>= 90% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	10
>=75% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	08
>= 60% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	06
>= 50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	04
< 50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year	0



CSE-Faculty Faculty Retention (2019-2020)

bS.No	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case)	Nature of Association (Regular/Contract)
		Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the		
1.	Dr.K.P.Kaliyamurt hie	Ph.D .	BIHER	30/1/2014	2007	Professor & Head	10/4/2010	10/4/2010	CSE	Appl ied Scie nce	60	15	No	Yes	Regular
2.	Dr.V.Khanaa	Ph.D .	BIHER	26/9/2011	1986	Professor	10/1/2011	12/15/198 6	CSE	IT	94	19	No	Yes	Regular
3.	Dr.R.Udayakumar	Ph.D .	BIHER	27/9/2011	2005	Professor	10/18/2016	7/1/2005	CSE	IT	21	6	No	Yes	Regular
4.	Dr.A.Kumaravel	Ph.D .	Anna University	2/3/1992	2010	Professor	10/4/2010	10/4/2010	CSE	Appl ied Scie nce	60	15	No	Yes	Regular



5.	Dr.C.Nalini	Ph.D	BIHER	19/12/2011	2005	professor	11/7/2017	1/12/2005	CSE	CSE	63	7	No	Yes	Regular
6.	Dr.C.Rajabhushanam	Ph.D	Louisiana State University (USA)	19/12/1997	2015	professor	9/26/2015	26/9/2015	CSE	CSE	10	8	No	Yes	Regular
7.	Dr.Sreenivasulu	Ph.D	MS University	1/07/2015	2018	Professor	10/7/2015	11/2/2018	CSE	CSE	12	-	No	Yes	Regular
8.	Dr.M.ChandreaNai k	Ph.D	Andhra University	10/4/2014	2018	Professor	9/3/2015	11/2/2018	CSE	CSE	24	-	No	Yes	Regular
9.	Dr.G.S.S.Rao	Ph.D	Nagarjuna University	10/4/2007	2019	Professor	15/7/2015	15/7/2019	CSE	CSE	24	-	No	Yes	Regular
10.	Dr.KuppalaKondai ah	PhD	University of Allahabad	10/12/2012	2019	Professor	10/12/2012	11/02/2019	CSE	CSE	12	-	No	Yes	Regular
11.	Dr.Prabakaran.P	Ph.D	MS.Univers ity	15/12/2012	2019	Professor	10/12/2012	11/02/2019	CSE	CSE	12	-	No	Yes	Regular
12.	Dr.S.K. Moulali	Ph.D	Singhania University	12/3/2010	2019	Professor	10/12/2019	11/02/2019	CSE	CSE	22	-	No	Yes	Regular
13.	Dr.Ramesh Kumar	Ph.D	AlagappaU niversitu	14/2/2011	2019	Professor	18/6/2014	11/02/2019	CSE	CSE	16	-	No	Yes	Regular
14.	Dr.S.Chakkaravarth	PhD	Anna	11/9/2015	2019	Professor	22/3/2017	22/3/2019	CSE	CSE	45	5	No	Yes	Regular



	y		University												
15.	Dr.KuppalaKondai ah	PhD	University of Allahabad	10/12/201 2	2019	Professor	10/12/2012	11/02/201 9	CSE	CSE	12	-	No	Yes	Regular
16.	Dr. R. Soniypriyadarshin i	Ph.D	BIHER	26/6/2015	2016	Professor	7/15/2016	7/15/2016	CSE	CSE	2	-	No	Yes	Regular
17.	Dr.R.SoniaPriyadar shini	Ph.D .	BIHER	26/6/2015		Associate Professor	7/15/2016	7/15/2016	CSE	CSE	2	-	No	Yes	Regular
18.	Dr.R.Kavitha	Ph.D .	Saveetha university	22/2/2018	2014	Associate Professor	3/1/2018	8/13/2014	CSE	CSE	11	2	No	Yes	Regular
19.	Dr.R.Karthikeyan	Ph.D .	BIHER	10/4/2017	2007	Associate Professor	5/1/2017	7/9/2007	CSE	CSE	22	-	No	Yes	Regular
20.	Dr.G.Michael	PhD	BIHER	2/6/2018	2015	Associate Professor	2/6/2018	10/6/2015	CSE	CSE	60	-	No	No	Regular
21.	Dr.M.Sriram	Ph.D .	BIHER	19/12/201 8	2014	Associate Professor	1/1/2019	8/4/2014	CSE	CSE	11	-	No	Yes	Regular
22.	Dr.Iyappan T G	Ph.D .	BIHER	11/7/2018	2009	Associate Professor	8/1/2018	9/2/2009	CSE	IT	23	-	No	Yes	Regular
23.	Dr.Thirunavukaras u	Ph.D	Anna university	28/5/2019	2019	Associate Professor	28/5/2019	9/3/2012	CSE	IT	12	-	No	Yes	Regular



24.	Dr. T Lavanya	Ph.D	Anna University	2019	2019	Associate Professor	3/1/2019	8/2/2017	CSE	CSE	6	-	No	Yes	Regular
25.	Dr.KeranaHanirex	Ph.D	BIHER	6/6/2017	2009	Associate Professor	6/26/2017	13/7/2009	CSE	CSE	13		No	Yes	Regular
26.	Dr.BrinthaRajkumari	Ph.D	BIHER	6/2/2018	2007	Associate Professor	6/22/2018	7/9/2007	CSE	CSE	5		No	Yes	Regular
27.	Dr.VenkataRamana	PhD	Annamalai University	2/9/2017	2018	Associate Professor	2/9/2017	27/1/2018	CSE	CSE	10	-	No	Yes	Regular
28.	Dr.SambasivaRao. Pedapudi	PhD	GITAM University	3/1/2019	2018	Associate Professor	3/1/2019	27/1/2018	CSE	CSE	5	-	No	Yes	Regular
29.	Dr.J.Vanithavani	PhD	Karunya University	1/07/2015	2018	Associate Professor	1/07/2015	22/1/2018	CSE	CSE	5	-	No	Yes	Regular
30.	Dr.Y.Ravikumar	M.Tech	JNT University	04/5/2012	2018	Associate Professor	04/5/2012	27/1/2018	CSE	CSE	18	-	No	Yes	Regular
31.	Dr.K.B.JagadishkumarKrishnaiah	PhD	Karunya University	25/6/2017	2018	Associate Professor	25/6/2017	11/4/2018	CSE	CSE	07	-	No	Yes	Regular
32.	Dr.MithunChakravarthiKatroth	PhD	Sunrise University	13/8/2018	2018	Associate Professor	10/12/2012	11/2/2018	CSE	CSE	42	-	No	Yes	Regular
33.	Dr.MohanaSuganthi.N	PhD	Karunya University	11/8/2017	2018	Associate Professor	10/12/2018	11/2/2018	CSE	CSE	42	-	No	Yes	Regular
34.	Dr.T.Krishna	Ph.D	BIHER	26/8/2018	2018	Associate	26/10/2018	26/10/201	CSE	CSE	10	5	No	Yes	Regular



	Kumar	.				Professor		8								
35.	Dr.M.Pavan Kumar	PhD	VTU, Karnataka	12/3/2012	2019	Associate Professor	-	9/2/2018	CSE	CSE	22	-	No	Yes	Regular	
36.	Dr.T.Nedunchelian	PhD	Hindustan University	11/8/2016	2019	Associate Professor	-	11/2/2018	CSE	CSE	42	-	No	Yes	Regular	
37.	Dr.KarunakarRedd y.P	Ph.D	University of Allahabad	10/4/2018	2019	Associate Professor	-	11/02/201 9	CSE	CSE	12	-	No	Yes	Regular	
38.	Dr.K.Navaz	Ph.D	MS.Univers ity	12/3/2018	2019	Associate Professor	-	11/02/201 9	CSE	CSE	12	-	No	Yes	Regular	
39.	Dr.S.Kannan	Ph.D	Anna University	7/08/2017	2018	Associate Professor	-	11/02/201 9	CSE	CSE	42	-	No	Yes	Regular	
40.	Dr.SenthilKumar.P	Ph.D	Anna University	13/08/201 8	2019	Associate Professor	-	11/02/201 9	CSE	CSE	42	-	No	Yes	Regular	
41.	Dr.KeranaHanirex	Ph.D .	BIHER	20/6/2017	2009	Associate Professor	6/26/2017	21/12/202 0	CSE	CSE	13		No	Yes	Regular	
42.	M Sivachandran	PhD	BIHER	2/6/2017	2013	Associate Professor	-	10/26/200 9	CSE	CSE	23	-	No	No	Regular	
43.	Mrs.S.Pothumani	M.E	Anna University	2010	2011	Associate Professor	-	11.08.201 1	CSE	CSE	2	-	No	Yes	Regular	
44.	Mrs.C.Anuradha	M. E	Sathyabam a	2008	2009	Associate	-	13.07.200	CSE	CSE	2		No	Yes	Regular	



			University			Professor		9							
45.	Dr.G. Kesava Kumar	PhD	Annamalai University		2019	Associate Professor	-	25/02/2019	CSE	CSE			No	Yes	Regular
46.	Dr.K.Rajakumari	Ph.D	BIHER	6/6/2017	2009	Associate Professor	6/26/2017	09/07/2007	CSE	CSE	13		No	Yes	Regular
47.	Dr.Jagadeesan. U	PhD	Karuniya University	05/07/2019	2020	Associate Professor		19/10/2020	CSE	CSE			No	Yes	Regular
48.	Dr.Rajesh. K	PhD	Anna University	2012	2020	Associate Professor		20/07/2020	CSE	CSE			No	Yes	Regular
49.	Mr.K.Sivaraman	M.Tech	BIHER	5/7/2012	2012	Assistant Professor	-	5/7/2012	CSE	CSE	4	-	No	Yes	Regular
50.	Mrs.N.Priya	M.Tech	Kalasalinga muniversity	9/8/2012	2012	Assistant Professor	-	9/17/2012	CSE	CSE	1	-	No	Yes	Regular
51.	Mr.B.Sundarraaj	M.Tech	BIHER	19/12/2011	2013	Assistant Professor	-	7/11/2013	CSE	CSE	1	-	No	Yes	Regular
52.	Mr.S.SriGowtham	M.Tech	BIHER	19/10/2013	2014	Assistant Professor	-	3/1/2014	CSE	CSE	-	-	No	Yes	Regular
53.	Mr.K.M.AzaraffAli	M.Tech	BIHER	3/6/2016	2011	Assistant Professor	-	01.05.2011	CSE	CSE	2	-	No	Yes	Regular
54.	Mr.P.Arumugam	M.Tech	BIHER	3/6/2016	2014	Assistant Professor	-	5/13/2014	CSE	CSE	2	-	No	Yes	Regular



55.	Mrs.G.Kavitha	M.E	Anna University	2014	2014	Assistant Professor	-	19.08.2014	CSE	CSE	2	-	No	Yes	Regular
56.	Mr.C.Senthil Kumar	M.Tech	BIHER	19/10/2012	2012	Assistant Professor		10/24/2012	CSE	IT	-	-	No	Yes	Regular
57.	Mrs.R.Velvizhi	M.E	Anna University	17/11/2014	2015	Assistant Professor	-	8/3/2015	CSE	CSE	-	-	No	Yes	Regular
58.	Mr.A.V.Allin Geo	M.Tech	BIHER	31/1/2015	2017	Assistant Professor	-	2/4/2017	CSE	CSE	-	-	No	Yes	Regular
59.	Mrs.P.Nandhini	M.E	Anna university	11/4/2013	2017	Assistant Professor	-	7/5/2017	CSE	CSE	-	-	No	Yes	Regular
60.	Mrs.S.Kavitha	M.E	Anna university	19/12/2016	2017	Assistant Professor	-	7/5/2017	CSE	CSE	1	-	No	Yes	Regular
61.	Ms.I.Mary Linda	M.E	Anna university	7/10/2014	2017	Assistant Professor	-	7/5/2017	CSE	CSE	1	-	No	Yes	Regular
62.	Mrs.K.Shanmugapriya	M.Tech	Anna university	21/2/2011	2017	Assistant Professor	-	7/5/2017	CSE	IT	2	-	No	Yes	Regular
63.	Mrs.C.Geetha	M.Tech	SathyamabamaUniversity	18/4/2009	2017	Assistant Professor	-	7/5/2017	CSE	IT	18	-	No	Yes	Regular
64.	Ms.S.R.SriVidhya	M.E	Anna university	10/10/2015	2017	Assistant Professor	-	7/5/2017	CSE	CSE	12	-	No	Yes	Regular



65.	Mrs.D.Vimala	M.E	Anna university	11/10/2014	2017	Assistant Professor	-	7/5/2017	CSE	CSE	2	-	No	Yes	Regular
66.	M. Sivachandran	M. Tech	BIHER	2012	2012	Assistant Professor	-	13/07/2011	CSE	CSE			No	Yes	Regular
67.	Mrs.D.Jeyapriya	M.E	Anna university	17/11/2014	2017	Assistant Professor	-	7/14/2017	CSE	CSE	-	-	No	Yes	Regular
68.	Ms.AnitaDavamani	M.E	Anna University	7/15/2009	2018	Assistant Professor	-	8/3/2018	CSE	CSE	3	-	No	Yes	Regular
69.	Ms.S.Amudha	M.E	SathyabamaUniversity	7/10/2017	2018	Assistant Professor	-	8/9/2018	CSE	CSE	2	-	No	Yes	Regular
70.	Mr.M.Ramamoorthy	M.E	Anna university	6/10/2009	2018	Assistant Professor	-	11/16/2018	CSE	CSE	2	-	No	Yes	Regular
71.	Mr. P.Jeyakrishnan	M.E	Anna University	04/06/2012	2019	Assistant Professor	-	02/07/2019	CSE	CSE	3	-	No	Yes	Regular
72.	Mr.J.Sridhar	M.E	Anna university	12/11/2014	2015	Assistant Professor	-	8/3/2015	CSE	CSE	6	-	No	Yes	Regular
73.	Ms.R.Sivaranjani	M.E	Anna University	15/6/2015	2018	Assistant Professor	-	12/03/2018	CSE	CSE	3	-	No	Yes	Regular
74.	Ms.G.Jeevitha	M.Tech	BIHER	6/10/2013	2014	Assistant Professor	-	8/4/2014	CSE	CSE	-	-	No	No	Regular



75.	Mr. P Vinoth	M.Tech	BIHER	2/6/2017	2018	Assistant Professor	-	4/20/2017	CSE	CSE	4	-	No	Yes	Regular
76.	Ms. S Keerthikha	M.E	Anna University	2/6/2017	2018	Assistant Professor	-	2/9/2015	CSE	CSE	8	-	No	No	Regular
77.	Ms.G.Visalaxi	M.E	Anna University	17/6/2015	2018	Assistant Professor	-	18/3/2018	CSE	CSE	4	-	No	Yes	Regular
78.	Mr.S.Karthikeyan	M.E	Anna University	17/6/2015	2018	Assistant Professor	-	24/3/2018	CSE	CSE	1	-	No	Yes	Regular
79.	Ms.Anupriya	M.E	Anna University	17/11/2015	2018	Assistant Professor	-	27/3/2018	CSE	CSE	1	-	No	Yes	Regular
80.	Ms.SelvaJothi.R.D	M.E	Anna University	10/6/2014	2018	Assistant Professor	-	12/03/2018	CSE	CSE	3	-	No	Yes	Regular
81.	Ms.Nirosha.S	M.E	St.Peter's University	11/4/2014	2018	Assistant Professor	-	12/04/2018	CSE	CSE	3	-	No	Yes	Regular
82.	Mr.Praheep.V.R	M.E	Anna University	6/11/2014	2018	Assistant Professor	-	12/04/2018	CSE	CSE	4	-	No	Yes	Regular
83.	Ms.GeethaPriyadarishini	M.E	Anna University	9/11/2016	2018	Assistant Professor	-	11/04/2018	CSE	CSE	3	-	No	Yes	Regular
84.	Ms.A.Padma	M.E	Madurai Kamaraj University	20/5/1996	2018	Assistant Professor	-	11/04/2018	CSE	CSE	13	-	No	Yes	Regular



85.	Mr.S.Sridhar.S	M.E	Anna University	9/06/2014	2018	Assistant Professor	-	11/04/2018	CSE	CSE	3	-	No	Yes	Regular
86.	Mr.S.Janakiraman	M.E	Anna University	4/6/2012	2019	Assistant Professor	-	29/7/2019	CSE	CSE	12	-	No	Yes	Regular
87.	Sri gowthem	M. Tech	BIHER	2013	2014	Assistant Professor	-	01/03/2014	CSE	CSE			No	Yes	Regular
88.	B.Mahalakshmi	M.E	Anna university	6/7/2017	2019	Assistant Professor	-	20/08/2019	CSE	CSE	6	-	No	Yes	Regular
89.	S. A. Senthil	M. Tech	Sathiyabam a University	2007	2019	Assistant Professor	-	29/07/2019	CSE	CSE			No	Yes	Regular
90.	S. Nirosha	M. Tech	St.Peter's University	01/02/2014	2019	Assistant Professor	-	08/07/2019	CSE	CSE			No	Yes	Regular
91.	Dr S. Sridhar	PhD	Anna University	2019	2019	Assistant Professor	-	13/07/2019	CSE	CSE			No	Yes	Regular
92.	Vinod. D	M.E	Anna University	2012	2019	Assistant Professor	-	22/09/2019	CSE	CSE			No	Yes	Regular
93.	Jennifer Christy. S	M.E	Anna University	2018	2020	Assistant Professor	-	19/10/2020	CSE	CSE			No	Yes	Regular



S.No	Nam e of the Facu lty Me mbe	Qualification	Asso ciati	Desi gnat ion	Date on whic	Date of Joini ng the	Dep artm	Spec ializ atio	Academic Research	Cur rentl	Natu re of Asso

CSE-Faculty Faculty Retention (2018-2019)



		Degree (highest degree)	University	Year of attaining higher qualification											
											Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the		
1.	Dr.K.P.Kaliyamurtie	Ph.D .	BIHER	30/1/2014	2007	Professor & Head	10/4/2010	10/4/2010	CSE	Applied Science	60	15	No	Yes	Regular
2.	Dr.V.Khanaa	Ph.D .	BIHER	26/9/2011	1986	Professor	10/1/2011	12/15/1986	CSE	IT	94	19	No	Yes	Regular
3.	Dr.R.Udayakumar	Ph.D .	BIHER	27/9/2011	2005	Professor	10/18/2016	7/1/2005	CSE	IT	21	6	No	Yes	Regular
4.	Dr.A.Kumaravel	Ph.D .	Anna University	2/3/1992	2010	Professor	10/4/2010	10/4/2010	CSE	Applied Science	60	15	No	Yes	Regular
5.	Dr.C.Nalini	Ph.D .	BIHER	19/12/2011	2005	professor	11/7/2017	1/12/2005	CSE	CSE	63	7	No	Yes	Regular
6.	Dr.C.Rajabhushanam	Ph.D .	Louisiana State University	19/12/1997	2015	professor	9/26/2015	9/26/2015	CSE	CSE	10	8	No	Yes	Regular



			(USA)												
7.	Dr.T.Krishna Kumar	Ph.D .	BIHER	26/8/2014	2018	Professor	26/10/2018	10/26/2018	CSE	CSE	10	5	No	Yes	Regular
8.	Dr.Sreenivasulu	Ph.D .	MS University	1/07/2015	2018	Professor	10/7/2015	11/02/2018	CSE	CSE	12	-	No	Yes	Regular
9.	Dr.M.ChandreaNai k	Ph.D .	Andhra University	10/4/2014	2018	Professor	9/3/2015	11/02/2018	CSE	CSE	24	-	No	Yes	Regular
10.	Dr.R.SoniaPriyadar shini	Ph.D .	BIHER	26/6/2015		Associate Professor	7/15/2016	7/15/2016	CSE	CSE	2	-	No	Yes	Regular
11.	Dr.R.Kavitha	Ph.D .	Saveetha university	22/2/2018	2014	Associate Professor	3/1/2018	8/13/2014	CSE	CSE	11	2	No	Yes	Regular
12.	Dr.R.Karthikeyan	Ph.D .	BIHER	10/4/2017	2007	Associate Professor	5/1/2017	7/9/2007	CSE	CSE	22	-	No	Yes	Regular
13.	Dr.G.Michael	Ph.D .	BIHER	28/6/2018	2005	Associate Professor	7/3/2018	12/23/2005	CSE	CSE	2	-	No	Yes	Regular
14.	Dr.M.Sriram	Ph.D .	BIHER	19/12/2018	2014	Associate Professor	1/1/2019	8/4/2014	CSE	CSE	11	-	No	Yes	Regular
15.	Dr.Iyappan T G	Ph.D .	BIHER	11/7/2018	2009	Associate Professor	8/1/2018	9/2/2009	CSE	IT	23	-	No	Yes	Regular



16.	Dr.Thirunavukarasu	Ph.D	Anna university	28/5/2019	2019	Associate Professor	28/5/2019	9/3/2012	CSE	IT	12	-	No	Yes	Regular
17.	Dr. T Lavanya	Ph.D	Anna University	2019	2020	Associate Professor	3/1/2019	8/2/2017	CSE	CSE	6	-	No	Yes	Regular
18.	Dr.KeranaHanirex	Ph.D	BIHER	6/6/2017	2009	Associate Professor	6/26/2017	7/13/2009	CSE	CSE	13		No	Yes	Regular
19.	Dr.BrinthaRajkumari	Ph.D	BIHER	6/2/2018	2007	Associate Professor	6/22/2018	7/9/2007	CSE	CSE	5		No	Yes	Regular
20.	Dr.VenkataRamana	PhD	Annamalai University	2/9/2017	2018	Associate Professor	2/9/2017	27/01/2018	CSE	CSE	10	-	No	Yes	Regular
21.	Dr.SambasivaRao. Pedapudi	PhD	GITAM University	3/1/2019	2018	Associate Professor	3/1/2019	27/01/2018	CSE	CSE	5	-	No	Yes	Regular
22.	Mrs.S.Pothumani	M.E	Anna University	2010	2011	Assistant Professor	-	11.08.2011	CSE	CSE	2	-	No	Yes	Regular
23.	Mrs.C.Anuradha	M. E	Sathyabama University	2008	2009	Assistant Professor	-	13.07.2009	CSE	CSE	2		No	Yes	Regular
24.	Mr.K.Sivaraman	M.Te ch	BIHER	5/7/2012	2012	Assistant Professor	-	5/7/2012	CSE	CSE	4	-	No	Yes	Regular
25.	Mrs.N.Priya	M.Te ch	Kalasalingam university	9/8/2012	2012	Assistant Professor	-	9/17/2012	CSE	CSE	1	-	No	Yes	Regular



26.	Mr.B.Sundarraaj	M.Tech	BIHER	19/12/2011	2013	Assistant Professor	-	7/11/2013	CSE	CSE	1	-	No	Yes	Regular
27.	Mr.S.SriGowtham	M.Tech	BIHER	19/10/2013	2014	Assistant Professor	-	3/1/2014	CSE	CSE	-	-	No	Yes	Regular
28.	Mr.K.M.AzaraffAli	M.Tech	BIHER	3/6/2016	2011	Assistant Professor	-	01.05.2011	CSE	CSE	2	-	No	Yes	Regular
29.	Mr.P.Arumugam	M.Tech	BIHER	3/6/2016	2014	Assistant Professor	-	5/13/2014	CSE	CSE	2	-	No	Yes	Regular
30.	Mrs.G.Kavitha	M.E	Anna University	2014	2014	Assistant Professor	-	19.08.2014	CSE	CSE	2	-	No	Yes	Regular
31.	Mr.C.Senthil Kumar	M.Tech	BIHER	19/10/2012	2012	Assistant Professor	-	10/24/2012	CSE	IT	-	-	No	Yes	Regular
32.	Mrs.R.Velvizhi	M.E	Anna University	17/11/2014	2015	Assistant Professor	-	8/3/2015	CSE	CSE	-	-	No	Yes	Regular
33.	Mr.A.V.Allin Geo	M.Tech	BIHER	31/1/2015	2017	Assistant Professor	-	2/4/2017	CSE	CSE	-	-	No	Yes	Regular
34.	Mrs.P.Nandhini	M.E	Anna university	11/4/2013	2017	Assistant Professor	-	7/5/2017	CSE	CSE	-	-	No	Yes	Regular
35.	Mrs.S.Kavitha	M.E	Anna university	19/12/2016	2017	Assistant Professor	-	7/5/2017	CSE	CSE	1	-	No	Yes	Regular
36.	Ms.I.Mary Linda	M.E	Anna	7/10/20	2017	Assistant	-	7/5/2017	CSE	CSE	1	-	No	Yes	Regular



			university	14		Professor										
37.	Mrs.K.Shanmugapriya	M.Tech	Anna university	21/2/2011	2017	Assistant Professor	-	7/5/2017	CSE	IT	2	-	No	Yes	Regular	
38.	Mrs.C.Geetha	M.Tech	Sathyabama University	18/4/2009	2017	Assistant Professor	-	7/5/2017	CSE	IT	2	-	No	Yes	Regular	
39.	Mrs.D.Vimala	M.E	Anna university	11/10/2014	2017	Assistant Professor	-	7/5/2017	CSE	CSE	2	-	No	Yes	Regular	
40.	Mrs.S.R.SriVidhya	M.E	Anna university	1/11/2016	2017	Assistant Professor	-	7/5/2017	CSE	CSE	4	-	No	Yes	Regular	
41.	Mrs.D.Jeyapriya	M.E	Anna university	17/11/2014	2017	Assistant Professor	-	7/14/2017	CSE	CSE	-	-	No	Yes	Regular	
42.	Ms.AnitaDavamani	M.E	Anna University	7/15/2009	2018	Assistant Professor	-	8/3/2018	CSE	CSE	3	-	No	Yes	Regular	
43.	Ms.S.Amudha	M.E	Sathyabama University	7/10/2017	2018	Assistant Professor	-	8/9/2018	CSE	CSE	2	-	No	Yes	Regular	
44.	Mr.M.Ramamoorthy	M.E	Anna university	6/10/2009	2018	Assistant Professor	-	11/16/2018	CSE	CSE	2	-	No	Yes	Regular	
45.	Mr.M.Franklin Singh	M.E	Anna University	17/6/2013	2018	Assistant Professor	-	16/04/2018	CSE	CSE	4	-	No	Yes	Regular	



46.	Dr.S.Kannan	Ph.D	Anna University	7/08/2017	2018	Associate Professor	-	11/02/2019	CSE	CSE	42	-	No	Yes	Regular
47.	Mr.J.Sridhar	M.E	Anna university	12/11/2014	2015	Assistant Professor	-	8/3/2015	CSE	CSE	6	-	No	Yes	Regular
48.	Ms.R.Sivaranjani	M.E	Anna University	15/6/2015	2018	Assistant Professor	-	12/03/2018	CSE	CSE	3	-	No	Yes	Regular
49.	Ms.J.SelvaPriya	M.E	Anna university	26/8/2014	2017	Assistant Professor	-	7/14/2017	CSE	CSE	-	-	No	No	Regular
50.	Mr.S.Karthikeyan	M.E	Anna University	17/6/2015	2018	Assistant Professor	-	24/3/2018	CSE	CSE	1	-	No	Yes	Regular
51.	Mr.R.Balamurugan	M.E	Anna University	17/6/2015	2015	Assistant Professor	-	13/7/2015	CSE	CSE	1	-	No	Yes	Regular
52.	Ms.SelvaJothi.R.D	M.E	Anna University	10/6/2014	2018	Assistant Professor	-	12/03/2018	CSE	CSE	3	-	No	Yes	Regular
53.	Mr. S. Janakiraman	M.E	Vel Tech	2012		Assistant Professor	-	05/08/2015	CSE	NW			No	Yes	Regular
54.	Ms.Nirosha.S	M.E	St.Peter's University	11/4/2014	2018	Assistant Professor	-	12/04/2018	CSE	CSE	3	-	No	Yes	Regular
55.	Mr.Praeheap.V.R	M.E	Anna University	6/11/2014	2018	Assistant Professor	-	12/04/2018	CSE	CSE	4	-	No	Yes	Regular



CSE-Faculty Faculty Retention (2017-2018)



S.No	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently	Nature of Association (Regular/Contract)
		Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the		
1.	Dr.V.Khanaa	Ph. D.	BIHER	26/9/2011	1986	Professor	10/1/2011	12/15/1986	CSE	IT	94	19	No	Yes	Regular
2.	Dr.R.Udayakumar	Ph. D.	BIHER	27/9/2011	2005	Professor	10/18/2016	7/1/2005	CSE	IT	21	6	No	Yes	Regular
3.	Dr.A.Kumaravel	Ph. D.	Anna University	3/2/1992	2010	Professor	10/4/2010	10/4/2010	CSE	Applied Science	60	15	No	Yes	Regular
4.	Dr.K.P.Kaliyamurthie	Ph. D.	BIHER	30/1/2014	2007	Professor	10/1/2011	7/13/2007	CSE	CSE	42	1	No	Yes	Regular
5.	Dr.C.Nalini	Ph. D.	BIHER	19/12/2011	2005	professor	11/7/2017	1/12/2005	CSE	CSE	63	7	No	Yes	Regular
6.	Dr.C.Rajabhushanam	Ph. D.	Louisiana State University	19/12/1997	2015	Associate Professor	9/26/2015	9/26/2015	CSE	CSE	10	8	No	Yes	Regular



			(USA)												
7.	Dr.R.Kavitha	Ph. D.	Saveetha university	22/2/2018	2014	Associate Professor	3/1/2018	8/13/2014	CSE	CSE	11	2	No	Yes	Regular
8.	Dr.R.Karthikeyan	Ph. D.	BIHER	10/4/2017	2007	Associate Professor	5/1/2017	7/9/2007	CSE	CSE	22	-	No	Yes	Regular
9.	Dr.G.Michael	Ph. D.	BIHER	28/6/2018	2005	Associate Professor	7/3/2018	12/23/2005	CSE	CSE	2	-	No	Yes	Regular
10.	Dr.M.Sriram	Ph. D.	BIHER	19/12/2018	2014	Associate Professor	1/1/2019	8/4/2014	CSE	CSE	11	-	No	Yes	Regular
11.	Dr. T Lavanya	Ph. D	Anna University	2019	2020	Associate Professor	2019	8/2/2017	CSE	CSE	6	-	No	Yes	Regular
12.	Dr.KeranaHanirex	Ph. D.	BIHER	6/6/2017	2009	Associate Professor	6/26/2017	7/13/2009	CSE	CSE	13		No	Yes	Regular
13.	Dr.BrinthaRajkumari	Ph. D.	BIHER	6/2/2018	2007	Associate Professor	6/22/2018	7/9/2007	CSE	CSE	5		No	Yes	Regular
14.	Dr.Thirunavukarasu	Ph. D	Anna university	28/5/2019	2012	Assistant Professor	2012	9/3/2012	CSE	IT	12	-	No	Yes	Regular
15.	M Sivachandran	Ph D	BIHER	2/6/2017	2017	Assistant Professor	2017	10/26/2017	CSE	CSE	23	-	No	No	Regular
16.	Mrs.S.Pothumani	M.E	Anna University	2010	2011	Assistant Professor	-	11.08.2011	CSE	CSE	2	-	No	Yes	Regular



17.	Mrs.C.Anuradha	M.E	Sathyabama University	2008	2009	Assistant Professor	-	13.07.2009	CSE	CSE	2		No	Yes	Regular
18.	Mr.K.Sivaraman	M.Tech	BIHER	5/7/2012	2012	Assistant Professor	-	5/7/2012	CSE	CSE	4	-	No	Yes	Regular
19.	Mrs.N.Priya	M.Tech	Kalasalingam university	9/8/2012	2012	Assistant Professor	-	9/17/2012	CSE	CSE	1	-	No	Yes	Regular
20.	Mr.B.Sundarraaj	M.Tech	BIHER	19/12/2011	2013	Assistant Professor	-	7/11/2013	CSE	CSE	1	-	No	Yes	Regular
21.	Mr.S.SriGowtham	M.Tech	BIHER	19/10/2013	2014	Assistant Professor	-	3/1/2014	CSE	CSE	-	-	No	Yes	Regular
22.	Mr.K.M.AzaraffAli	M.Tech	BIHER	3/6/2016	2011	Assistant Professor	-	01.05.2011	CSE	CSE	2	-	No	Yes	Regular
23.	Mr.P.Arumugam	M.Tech	BIHER	3/6/2016	2014	Assistant Professor	-	5/13/2014	CSE	CSE	2	-	No	Yes	Regular
24.	Mrs.G.Kavitha	M.E	Anna University	2014	2014	Assistant Professor	-	19.08.2014	CSE	CSE	2	-	No	Yes	Regular
25.	Mr.C.Senthil Kumar	M.Tech	BIHER	19/10/2012	2012	Assistant Professor		10/24/2012	CSE	IT	-	-	No	Yes	Regular
26.	Mrs.R.Velvizhi	M.E	Anna University	17/11/2014	2015	Assistant Professor	-	8/3/2015	CSE	CSE	-	-	No	Yes	Regular
27.	Mr.A.V.Allin Geo	M.T	BIHER	31/1/2015	2017	Assistant	-	2/4/2017	CSE	CSE	-	-	No	Yes	Regular



		ech				Professor									
28.	Mrs.C.Geetha	M.T ech	Sathyamab ama University	18/4/2009	2017	Assistant Professor	-	7/5/2017	CSE	IT	2	-	No	Yes	Regular
29.	Mrs.S.R.SriVidhya	M.E	Anna university	1/11/2016	2017	Assistant Professor	-	7/5/2017	CSE	CSE	4	-	No	Yes	Regular
30.	Mrs.D.Jeyapriya	M.E	Anna university	17/11/2014	2017	Assistant Professor	-	7/14/2017	CSE	CSE	-	-	No	Yes	Regular
31.	Mr.J.Sridhar	M.E	Anna university	12/11/2014	2015	Assistant Professor	-	8/3/2015	CSE	CSE	6	-	No	Yes	Regular



5.5 Faculty competencies in correlation to Program Specific Criteria (2020-2021)

Sl.No	Name of the staff	Artificial Intelligence	Machine Learning	Cyber Security	IoT	Cloud Computing	Image Processing	Block chain Technologies	Software Engineering	Database Technologies	Computer Algorithms
1	Dr. R.M.Suresh	✓					✓				
3	Dr.S.Neduncheliyan		✓				✓				
4	Dr.B.Persis Urbana Ivy			✓							
5	Dr.A.Kumaravel	✓			✓						
6	Dr.K.P.Kaliyamurthie				✓			✓			
7	Dr.C.Rajabhushanam		✓			✓					
8	Dr. AnithaKarthi		✓	✓							
9	Dr. G. Umarani Srikanth			✓			✓				



10	Dr.Ramesh Kumar				✓			✓			
11	Dr.S.Chakkaravarthy	✓	✓								
12	Dr.Sreenivasulu Manda								✓	✓	
13	Dr.M.ChandreaNaik			✓							
14	Dr.G.S.S.Rao		✓								✓
15	Dr.KuppalaKondaiah	✓									
16	Dr.Prabakaran.P						✓			✓	
17	Dr.M.Pavan Kumar	✓								✓	
18	ManigandaPrabu D		✓				✓				
19	Dr. Sudhakar.Chappidi	✓									✓
20	Dr. P. Sangeethkumar								✓	✓	
21	Dr.Santhosh Kumar. A. V		✓	✓							
22	DrJegan Thomas	✓		✓							
23	Dr. R. Soniyapriyadarshini		✓	✓							
24	DrNattar Kannan	✓				✓					
25	DrMaruthuPerumal		✓		✓						
26	Dr.Pradeep Mishra	✓			✓						



27	Dr.MithunChakravarthiKatroth	✓						✓		
28	Dr.T.Nedunchelian			✓						
29	Dr.MohanaSuganthi.N		✓							
30	Dr.R.Karthikeyan				✓				✓	
31	Dr.K.Alice Suresh						✓		✓	
32	Dr.T.Krishna Kumar		✓							
33	Dr. K. Bala	✓					✓			
34	Dr. Meera			✓			✓			
35	Dr. J. Paramesh								✓	
36	Dr.KarunakarReddy.P				✓					
37	Dr.K.Navaz				✓		✓			
38	Dr.S.Kannan									✓
39	Dr.SenthilKumar.	✓							✓	
40	Dr.K.B.JagadishkumarKrishnaiah	✓							✓	
41	Dr.B.Dhanalakshmi							✓	✓	
42	Dr.M.Sriram			✓						
43	Dr.Thirunavukarasu		✓							



44	Dr.KeranaHanirex			✓							
45	Dr. S.Thayialnayaki			✓							
46	Dr.BrinthaRajkumari			✓						✓	
47	Dr.K.Rajakumari			✓						✓	
48	Dr.Dileep Kumar Pandidam	✓								✓	
49	Dr.VenkataRamana					✓					
50	Dr.SambasivaRao.Pedapudi	✓						✓			
51	Dr.J.Vanithavani	✓								✓	
52	Dr.Y.Ravikumar	✓								✓	
53	Dr.S.K.Moulali									✓	✓
54	Dr.Jagadeesan. U			✓							
55	Dr.Rajesh. K		✓								
56	Dr.R. Linkeswari			✓							
57	Dr.G. Kesava Kumar			✓							
58	Dr S Athinarayanan			✓						✓	
59	DrVijayakumargudiwada			✓						✓	
60	DrEssak Shaik	✓								✓	



61	DrPothuganti babul saheeb					✓					
62	Shaik mehaboobsubhani	✓						✓			
63	DrChuttugullaramesshkumar	✓									
64	Mrs.C.Anuradha										
65	Mrs.S.Pothumani		✓				✓				
66	Mrs.C.Geetha			✓							
67	Ms.AnitaDavamani	✓									✓
68	Mr.M.Ramamoorthy	✓					✓				
69	Mr.R.MuthuVenkata Krishnan		✓			✓					
70	E.Srividhya		✓	✓							
71	Mr.K.Sivaraman			✓			✓				
72	Dr.Vidhyalakshmi				✓			✓			
73	Dr.Selvapriya	✓	✓								
74	Mrs.R.Velvizhi								✓	✓	
75	Dr.J.Sridhar			✓							
76	Mr.M.Ashok		✓			✓					



77	Mr.A.V.Allin Geo	✓									
78	Mrs.D.Jeyapriya									✓	✓
79	Ms.S.Amudha	✓								✓	
80	Mr. N.Nithiyanandam		✓				✓				
81	Ms. T SelvaBanuPriya	✓						✓			
82	Ms. S.Jeyapriyanga								✓	✓	
83	Ms. N Sivaranjani		✓	✓							
84	B.Mahalakshmi	✓									
85	E.Abinaya		✓				✓				
86	Ms. J. Ranganayaki			✓							
87	Mr. P.Jeyakrishnan	✓			✓						
88	N.Raji				✓			✓			
89	Mr.R.Krishnamoorthy		✓			✓					
90	Mr.B.Saravanan		✓	✓							
91	D.Baskar			✓			✓				
92	Shaikh AbdhulWaheed				✓			✓			
93	Prabhu Shankar	✓	✓								



94	Jenita Christy								✓	✓	
95	AnuRanjani			✓							
96	K.SathyaPriya		✓			✓					
97	Ms.D.Rukmani	✓									
98	Ms.R.Nivetha						✓			✓	
99	Ms.M.Susmitha	✓								✓	
100	Ms.J.SharonChella Priyanka		✓				✓				
101	Ms.M.Samundeeswari	✓						✓			
102	Ms.T.Usha								✓	✓	
103	Ms.L.Sathyapriya		✓	✓							
104	Ms.E.Nalina	✓		✓							
105	Ms.E.BenithaSowmiya		✓								✓
106	Ms.B.Narmadha	✓				✓					
107	Mr.S.Aravind		✓		✓						
108	Ms.JulieSharine	✓			✓						
109	Ms.Asha Judi	✓							✓		



110	Jegadishwari			✓							
111	Dr.Srigowthem		✓								
112	M. Sivachandran				✓					✓	
113	K.M.Azaraffali							✓		✓	
114	P. Arumugam		✓								
115	S. A. Senthil	✓						✓			
116	Akila . R			✓				✓			
117	R. D. SelvaJothi									✓	
118	Murali. G				✓						
119	S. Nirmal Sam							✓			✓
120	S. Nirosha			✓							
121	Dr S. Sridhar	✓								✓	
122	Vinod. D	✓								✓	
123	M.Hemalatha								✓	✓	
124	R. Yuvaraj			✓							
125	P. Rajasekaran		✓								



126	S. Pugazhenth			✓							
127	J. KarthikBheema Rao			✓							
128	Kasilingam									✓	✓
129	Madhavan			✓						✓	
130	S. GeethaPriyadharshini	✓								✓	
131	S. Malini					✓					
132	Marimuthu	✓						✓			
133	G. Sindhu	✓								✓	
134	Sasi Kumar. R									✓	✓
135	Kirthiga. M								✓	✓	
136	Anitha. K			✓							
137	P. Prince		✓								
138	Prem Kumar. T			✓							
139	Nishanthi. G			✓							
140	Vikram. S			✓							✓
141	J. Viswanathan			✓						✓	
142	SakthiPriya. P	✓								✓	
143	S. Sankar					✓					



144	P. Ramachandran	✓						✓			
145	S. Pravin Kumar	✓									
146	P. Suresh										
147	Domi Evangeline. S		✓				✓				
148	G. Vandhana			✓							
149	R. Madhiyazhagan	✓			✓						
150	M. Nandhini							✓			✓
151	Ganesh Babu		✓			✓					
152	Giri Prasad. P		✓	✓							
153	P. Gnanasambandan			✓			✓				
154	S.Udhya Kumar				✓			✓			
155	Sathya Krishna. V	✓	✓								
156	Sankar. G								✓	✓	
157	G. Nishanthi			✓							
158	P. Hemanath		✓			✓					
159	Sudhakar. M	✓									
160	M. Raju						✓			✓	



161	K. Aishwarya	✓								✓	
162	R. Sharmila Devi		✓				✓				
163	T. Arun	✓						✓			
164	R. Kesavaraman								✓	✓	
165	P. Sathiya		✓	✓							
166	Dinesh. G	✓									
167	J. Hemapoorani		✓								✓
168	D. Anitha			✓							
169	A. Saranya Devi	✓			✓						
170	Kishore Kumar				✓			✓			
171	S. Anchu Nair		✓			✓					
172	Kiran Kumar. D		✓	✓							
173	Asadi Reddy Chaitanya			✓			✓				
174	S. Sudhakar				✓			✓			
175	M. A. Vishal	✓	✓								
176	S. Franson Varun Richo								✓	✓	
177	Anu. T			✓							



178	Suresh Babu.A		✓			✓					
179	K.SuriyaPrabu	✓									
180	Santhana Kumar. M						✓			✓	
181	J. A. Jevin	✓								✓	
182	Devendhiran. A		✓				✓				
183	Alamelu. V	✓						✓			
184	T. Aarthi								✓		✓
185	S. Muneeswari		✓	✓							
186	S.SunderRajan	✓		✓							
187	Mareeswaran		✓	✓							
188	Raghavi. R	✓				✓					
189	M. Sowndarya		✓		✓						
190	Gavaskar. P	✓			✓						
191	Balasubramanian. S	✓									✓
192	Arun Kumar. S			✓							
193	R. SathiyaRajkumar		✓								
194	Leelavathi. R				✓					✓	



195	Jennifer Christy. S							✓		✓	
196	Gopinath. R		✓								
197	Mr. S. Janakiraman	✓						✓			
198	Beo,S			✓				✓			
199	Dr A Deepa									✓	
200	V. Saranya				✓						
201	Kanimozhi.J				✓			✓			
202	Dr.H.Ajith Mohan			✓							
203	Dr C Vinoth	✓								✓	

5.6 Innovations and Best Practices in Teaching Learning

Teaching and learning innovative practices are introduced to raise the curiosity of a student in wide domain to encourage the students to question the obvious and to increase the interaction in the class.

Rapid advancement in technology is one of the major issues that affect the teaching/learning process. The facilitators find it difficult to keep pace with the techno-savvy learners. Further there is rapid change taking place in technology which aggravates the problem. Keeping the audience captivated throughout the lecture is another challenge. The facilitator is required to use a variety of tools to keep the learner engaged in the learning process since access to a variety of tools all the time may not be possible. Today knowledge is just a click away to the learner; a challenge faced by facilitators is to keep pace with the latest news and happenings. The teaching/learning process is given immense importance in the institute. The institute trains their facilitators continuously to help them enhance their teaching abilities.

The evidence of success is visible, qualitatively as well as quantitatively. The qualitative factor improves etiquettes and desire to understand. Also, it changes the overall perspective towards life. The quantitative factor improves academic performance and motivates participation in co-curricular activities. Students who have graduated are performing extremely well in the corporate world. Some students have put their learning into application by starting their own businesses.

Following are the best and innovative practices undertaken by the faculty members for improving teaching and learning experience.

Table 5.6

S. No	Best Practices	Goal	Context
1	Think-Pair-Share	To enhance the overall comprehension of students and allows teachers to present their content in a dynamic way	1. In this activity, students think about a particular question individually, then they form pairs to discuss their answers. Following this, the results are shared in a large classroom discussion. Alternatively, two pairs of students can pair up to compare and discuss answers 2. This process forces students to think individually, and then allows them to analyze and clarify their response collaboratively. 3. It helps students organize prior knowledge, brainstorm or summarize, and apply and integrate new information. This activity can vary in time (typically 5-10 min) depending on the complexity of the question.
2	Minute Paper	To get a immediate feedback about the	1. The Minute Paper is a very commonly used classroom assessment technique. It really does take about a minute and, while usually used at the end of class, it can be used at the end of any topic discussion.

		understanding of the topic which are discussed in the same class/periods	- Students must first organize their thinking to rank the major points and then decide upon a significant question. - Its major advantage is that it provides rapid feedback on whether the professor's main idea and what the students perceived as the main idea are the same.
3	Question-and Answer Technique	The overall objective of this activity is to motivate students for self-study and group study	- Questions are a simple yet effective way to promote interaction, and provide with a sense of students' comprehension. - Questions can be used in any discipline. Develop questions before class and decide when it should be asked to students. - It is important to stimulate activity from the whole class and to acknowledge all answers, to support continued participation. It is thus a very adaptable best practice.
4	Short Cases/Scenarios	To develop skills in interpersonal communication and in expressing views in a clear and concise manner	- The use of scenarios/case studies allow students to apply the concepts learned in class to "real-life situations". This activity is flexible and can be adapted for use in various disciplines - It can be as simple as posing a single question to the class, to generate a discussion about how the students would approach a given scenario/situation - It can also be extensive, and require that students conduct additional research to effectively approach the scenario.
5	Brainstorming	To improve verbal skills for effective public speaking	- In this activity, students are asked to generate ideas on a certain topic, category or question while you facilitate and record the answers on the blackboard/whiteboard. - It is important to acknowledge all answers during this idea generation period. Brainstorming can be adapted to small or large classes, in any discipline and any length of time.



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(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BEST PRACTICES

NAME OF THE BEST PRACTICES: Think-Pair-Share

AIM :

To get a immediate feedback about the understanding of the topic which are discussed in the same class/periods.

PROCEDURE :

In this activity, students think about a particular question individually, then they form pairs to discuss their answers. Following this, the results are shared in a large classroom discussion. Alternatively, two pairs of students can pair up to compare and discuss answers. This process forces students to think individually, and then allows them to analyze and clarify their response collaboratively. It helps students organize prior knowledge, brainstorm or summarize, and apply and integrate new information. This activity can vary in time (typically 5-10 min) depending on the complexity of the question. Think-pair-share works well with pre-planned questions. This practice is very adaptable way for students.

Typically, professors can read about Think-Pair-Share. This Technique is concise, well-planned sentences, please answer the two questions below:

1. Which part of the concept has to be analyzed more?

Student Think of time.

2. Do you think the analysis part can give better knowledge about overall information

Think-pair-share works well with pre-planned question

3. Which technique should be explained more?

Everything is understandable.

IMPLEMENTATION

Class Name: IV

Section: H

Course Code: BET703

Course Name: Satellite Communication

Course Instructor: Ms.M.Suganya

Class Strength :73

The Think-Pair-Share can be distributed among the class. The course instructor gives 2 minutes time to answer the above-mentioned questions. After completed it that the paper needs to collect by the instructor and consolidated and give the feedback.





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SCHOOL OF COMPUTING **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING** **BEST PRACTICES**

NAME OF THE BEST PRACTICES: Minute Paper

AIM :

To get a immediate feedback about the understanding of the topic which are discussed in the same class/periods.

PROCEDURE :

The Minute Paper is a very commonly used classroom assessment technique. It really does take about a minute and, while usually used at the end of class, it can be used at the end of any topic discussion. Its major advantage is that it provides rapid feedback on whether the professor's main idea and what the students perceived as the main idea are the same. Additionally, by asking students to add a question at the end, this assessment becomes an integrative task. Students must first organize their thinking to rank the major points and then decide upon a significant question. Sometimes, instead of asking for the main point, a professor may wish to probe for the most disturbing or most surprising item. It is thus a very adaptable tool.

Typically, professors can read about four Minute Papers per minute. The Minute Paper In concise, well-planned sentences, please answer the two questions below:

1. What are the two [three, four, five] most significant [central, useful, meaningful, surprising, disturbing] things you have learned during this session?

Data analysis, time analysis,

2. What question(s) remain uppermost in your mind?

What is the real time use of data structure.

3. Is there anything you did not understand?

Everything is understandable.

IMPLEMENTATION

Class Name : II

Section : F

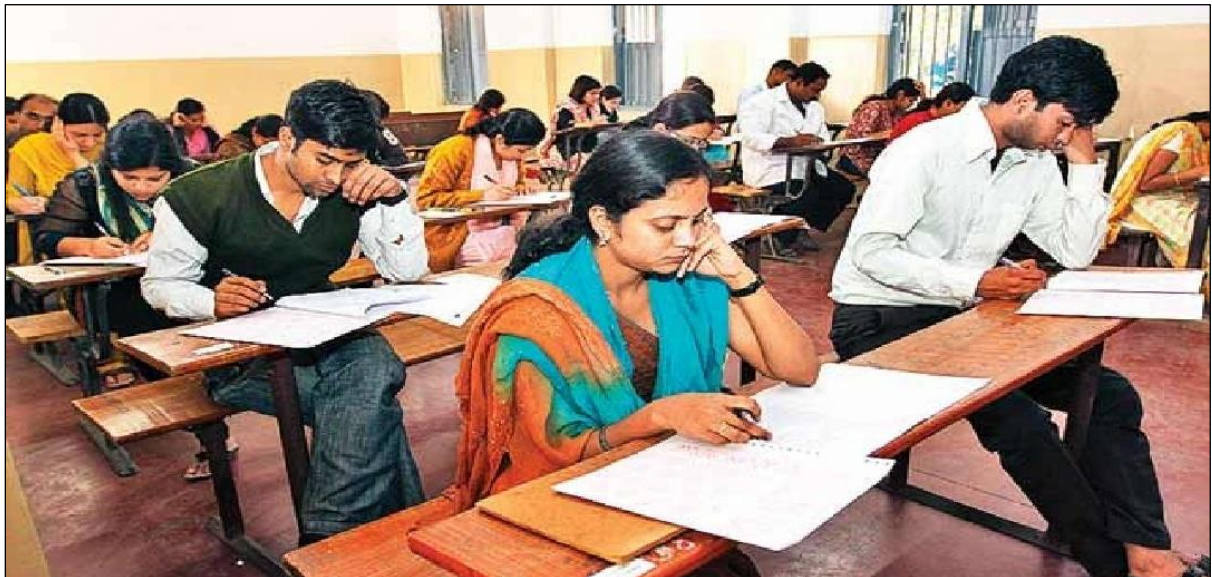
Course Code : U18PCCS301

Course Name : Data Structure & Algorithms

Course Instructor : Mr.A.V.Allin Geo

Class Strength : 80

The minute paper can be distributed among the class which means small paper. The course instructor gives 2 minutes time to answer the above-mentioned questions. After completed it that the paper needs to collect by the instructor and consolidated and give the feedback about minute paper.





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BEST PRACTICES

NAME OF THE BEST PRACTICES: Question-and Answer Technique

AIM : To get a immediate feedback about the understanding of the topic which are discussed in the same class/periods.

PROCEDURE :

Questions are a simple yet effective way to promote interaction, and provide with a sense of students' comprehension. Questions can be used in any discipline. Develop questions before class and decide when it should be asked to students. Questions can be asked at any time, but it is important to vary the timing to prevent repetition/boredom (e.g., do not routinely ask questions after every 5 slides). It is important to stimulate activity from the whole class and to acknowledge all answers, to support continued participation. It is thus a very adaptable best practice.

Typically, professors can read about Question-and Answer Technique. The Practice is concise, well-planned sentences, please answer the two questions below:

1. What are the two [three, four, five] most significant [central, useful, meaningful, surprising, disturbing] vital information you have learnt in this session?

Effective way to promote interaction, and provide with sense of students

2. Which part of the session is more interesting?

Acknowledge

3. which concept should be explained again?

Stimulate activity from the whole class

IMPLEMENTATION

Class Name: III

Section :D

Course Code: U18PECS035

Course Name: Parallel and Distributed Computing

Course Instructor: Mr.D.Bhaskar **Class Strength :**75

The course instructor give 2 minutes time to answer the above mentioned questions. After completed it that the paper needs to collect by the instructor and consolidated and give the feedback





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SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BEST PRACTICES

NAME OF THE BEST PRACTICES: Short Cases/Scenarios

AIM :

To get an immediate feedback about the understanding of the topic which are discussed in the same class/periods.

PROCEDURE :

The use of scenarios/case studies allow students to apply the concepts learned in class to "real-life situations". This activity is flexible and can be adapted for use in various disciplines. It can be as simple as posing a single question to the class, to generate a discussion about how the students would approach a given scenario/situation. It can also be extensive, and require that students conduct additional research to effectively approach the scenario. In this example, students will discuss and analyze the scenario/case by applying the knowledge they have learned in the course. Students can briefly present their findings to the class, either in small groups, or in a paper/assignment.

Typically, professors can read about Short Cases/Scenarios Technique.

The Practice is concise, well-planned sentences, please answer the two questions below:

1. Which concept suits your real-life time scenario?

In general the concept of understanding the case and scenario give an effective impact on views of people, leading the topic knowledge is must

2. What is the best approach to start research?

First one should focus on the pros and cons of the topic to better understand the process.

3. which discipline helps to identify the solution for overall analyzing techniques?

time management and analysing the resources we have and focussing on every key topic includes.

IMPLEMENTATION

Class Name: III

Section: H

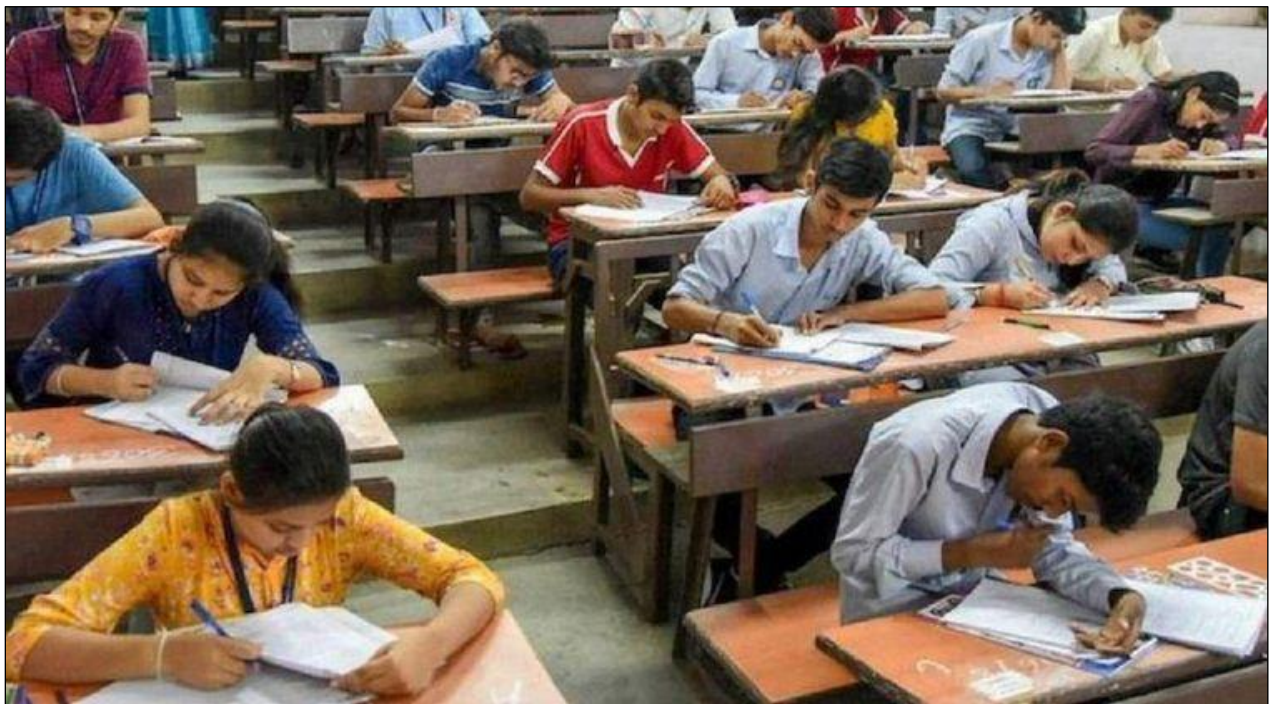
Course Code: U18OEEC003

Course Name: Image Processing Technique

Course Instructor: Ms.S.Thayalnayaki

Class Strength :78

The course instructor give 2 minutes time to answer the above mentioned questions. After completed it that the paper needs to collect by the instructor and consolidated and give the feedback





SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BEST PRACTICES

NAME OF THE BEST PRACTICES: Brainstorming

AIM :

To get an immediate feedback about the understanding of the topic which are discussed in the same class/periods.

PROCEDURE :

In this activity, students are asked to generate ideas on a certain topic, category or question while you facilitate and record the answers on the blackboard/whiteboard. Encourage students to draw on prior knowledge and experiences. It is important to acknowledge all answers during this idea generation period. Brainstorming can be adapted to small or large classes, in any discipline and any length of time. This practice is very adaptable way for students.

Typically, professors can read about Brainstorming. This Technique is concise, well-planned sentences, please answer the two questions below:

1. In which way the session has improved your knowledge ?

practical Explorer

2. Do you think the analysis part can give better knowledge about overall information

Better analysis

3. Which technique should be explained more?

Data science

IMPLEMENTATION

Class Name: III

Section: C

Course Code: U18PCCS601

Course Name: Compiler and Design

Course Instructor: Ms.A.Sindhuja

Class Strength :75

The Brainstorming can be distributed among the class. The course instructor gives 2 minutes time to answer the above-mentioned questions. After completed it that the paper needs to collect by the instructor and consolidated and give the feedback.



5.7. Faculty as participants in Faculty development/training activities/STTPs



SCHOOL OF COMPUTING

Table 5.7

Name of the Faculty	Max. 5 per Faculty		
	CAYm1 2020-2021	CAYm1 2019-2020	CAYm2 20118-2019
Dr.V.Khanaa	2	-	5
Dr.R.Udayakumar	1	5	-
Dr.A.Kumaravel	2	5	5
Dr.R.Sonia Priyadarshini	-	3	5
Mr.K.M.AzaraffAli	-	5	-
Mr.R.Karthikeyan	-	5	-
Mr.P.Arumugam	-	-	5
Mr.C.Senthil Kumar	3	-	5
Dr.Rama.A	-	-	5
Dr.Iyappan T G	-	5	5
Mr.Thirunavukarasu	-	3	5
Ms.Kerana Hanirex	1	5	-
Ms.Brintha Rajkumari	-	5	5
Ms.P.Kavitha	3	5	5
Dr.K.P.Kaliyamurthie		5	-
Dr.S.Neduncheliyan	2	5	-



Dr.C.Nalini	1	5	-
Dr.C.Rajabhushanam	4	5	-
Dr.R.Kavitha	-	5	5
Dr.G.Michael	-	5	-
Dr.R.Karthikeyan	-	5	-
Mrs.S.Pothumani	2	-	5
Mrs.C.Anuradha	3	5	5
Mr.K.Sivaraman	2	-	-
Ms.P.Kavitha	-	-	5
Mrs.N.Priya	-	-	5
Mr.B.Sundarraaj	-	-	3
Mr.S.SriGowtham	-	5	3
Mr.M.Sriram	-	-	-
Mrs.E.Fathima	-	5	5
Mrs.R.Velvizhi	2	5	-
Mr.A.V.Allin Geo	3	-	5
Mrs.P.Nandhini	-	-	-
Mrs.G.Kavitha	-	-	5
Ms.I.Mary Linda	-	5	5
Mrs.K.Shanmugapriya	-	-	3
Mrs.C.Geetha	3	5	5
Mrs.D.Vimala	-	5	3
Mrs.S.R.Sri Vidhya	-	3	5
Mrs.D.Jeyapriya	2	5	-
Ms.S.Theivasigamani	-	5	-
Mr.S.Sadagopan	-	-	5



Mrs.S.Sangeetha	-	5	-
Ms.S.Amudha	-	-	5
Ms.Anita Davamani	3	-	5
Mr.R.Elankavi	2	5	-
Mr.M.Ramamoorthy	3	5	-
Mr.D.Jayakumar	-	-	3
Mr.R.Muthu Venkata Krishnan	2	5	5
Mrs. Jeyapriyanga S	2	-	-
Mrs. Selvabanupriya	1	-	-
Mr. Allin Geo	2	-	-
Mrs. Anuranjanin K	-	-	-
Mr. Aravindh	3	-	-
Dr. Anitha Karthi	3	-	-
Mr. Nithyanadam	3	-	-
Mrs. N Sivaranjani	1	-	-
Mrs.B.Mahalakshmi	1	-	-
Mrs.E.Abinaya	2	-	-
Ms. J. Ranganayaki	2	-	-
Mr. P.Jeyakrishnan	1	-	-
Mr.N.Raji	1	-	-
Mr.R.Krishnamoorthy	1	-	-
Mr.B.Saravanan	1	-	-
Mr.D.Baskar	1	-	-
Mr.Shaikh AbdhulWaheed	2	-	-
Mr.Prabhu Shankar	2	-	-
Ms.J.SharonChella Priyanka	3	-	-



Ms.M.Samundeeswari	1	-	-
Ms.T.Usha	2	-	-
Ms.L.Sathyapriya	3	-	-
Ms.E.Nalina	2	-	-
Ms.E.Benitha Sowmiya	2	-	-
Ms.B.Narmadha	2	-	-
Mr.S.Aravind	2	-	-
Ms.Julie Sharine	1	-	-
Ms.Asha Judi	2	-	-
RF= Number of Faculty required to comply with 15:1	203	143	83
RF= Number of Faculty Sum required to comply with 15:1	95	57	32
Student-Faculty ratio as per 5.1	18.6	11.17	6.2
Student-Faculty ratio as per 5.1			
Assessment = $3 \times (\text{Sum}/0.5 \text{ RF})$			12
(Marks limited to 15)			



5.8. Research and Development

- Faculty members are actively participating in Research and Development activities.
- 17 Faculty members of the department are holding PhD.
- 15 Faculty members of the department are pursuing PhD.

5.8.1. Academic Research

A. Publication

- Department faculty members have journal publication in their specialization faculty members also encourage the students to participate in National and International conference and also to publish paper in National and International Journals.
- The counts and the lists of papers published by the faculty members in the past three years are given as follow.

INTERNATIONAL JOURNALS				
ACADEMIC YEAR	SCOPUS	WOS	SCI	UGC CARE
2019-2020	354	18	1	2
2018-2019	352	45	2	2
2017-2018	118	12	3	0
Total	824	75	6	4

PUBLICATION FACULTY WISE				
S. No	STAFF NAME	2019-20	2018-19	2017-18
1	Dr.V.Khanaa	7	15	3
2	Dr.A.Kumaravel	11	27	16
3	Dr.K.P.Kaliyamurthie	17	23	19
4	Dr.S.Neduncheliyan	3	4	5
5	Dr.C.Nalini	27	30	22
6	Dr.C.Rajabhushanam	9	16	5
7	Dr.R.Kavitha	0	0	0
8	Dr.R.Karthikeyan	6	1	2
9	Dr.G.Michael	25	25	0
10	Dr.M.Sriram	3	4	0
11	Dr.Iyappan T G	4	6	4
12	Dr.Thirunavukarasu	9	3	0



13	Dr.Kerana Hanirex	4	3	0
14	Dr.Brintha Rajkumari	1	2	0
15	Dr. R.Elankavi	8	5	24
16	Mrs.S.Pothumani	32	36	0
17	Mrs.C.Anuradha	27	29	8
18	Mr.K.Sivaraman	8	1	1
19	Mrs.N.Priya	0	0	0
20	Mr.B.Sundarraaj	10	14	0
21	Mrs.G.Kavitha	0	0	2
22	Mrs.R. Velvizhi	29	27	1
23	Mr.A.V.Allin Geo	6	6	10
24	Mrs.S.Kavitha	26	25	0
25	Mrs.C.Geetha	14		
26	Mrs.S.R.Sri Vidhya	11	18	2
27	Mrs.D.Jeyapriya	6	5	0
28	Dr.S.Sadagopan	5	10	1
29	Mrs.S.Sangeetha	33	32	2
30	Ms.S.Amudha	15	13	1
31	Ms.Anita Davamani	6	6	1
32	Mr.M.Ramamoorthy	2	4	2
33	Mr.R.Muthu Venkata Krishnan	2	2	0
34	Ms. S. Shelgin	0	0	0
35	B.Mahalakshmi	1	1	0
36	Ms.R Krishna Bharathi	1	1	0
37	Ms. N Sivaranjani	1	1	1
38	Mr. N.Nithiyanandam	0	1	0
39	Ms. S P Priyadharshini	2	1	0
40	Ms. S.Jeyapriyanga	0	0	0
41	E.Srividhya	4	4	1
	Total	375	401	133



SCOPUS INDEXED JOURNALS

Academic Year: 2019-2020

S.No	Authors	Author(s) ID	Title	Year	Source title	Volume	Issue	Page start	Page end	DOI
1	Geetha, C., Kavitha, S., Nalini, C.	57210212229;8375245300;57172800700;	Portion of heterogeneous resources of an IoT gadget to flexible services	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	292	297	10.35940/ijeat.F1078.0886S219
2	Michael, G., Nalini, C., Geetha, C.	56924800500;57172800700;57210212229;	Two layer security for ticket booking	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	255	257	10.35940/ijeat.F1068.0886S219
3	Kharabe, S., Nalini, C., Velvizhi, R.	56901243100;57172800700;57210977000;	Application for 3D interface using augmented reality	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	694	695	10.35940/ijeat.F1256.0886S219
4	Nalini, C., Vimala, D., Mary Linda, I.	57172800700;57210210076;57210213200;	Certifiable, perfect information	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	676	680	10.35940/ijrte.B1465.0882S819



5	Kaliyamurthie, K.P., Michael, G., Nalini, C.	55772930800;56924800500;57172800700;	A innovative section collection method analysis for digital image watermarking	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	199	202	10.35940/ijrte.B1348.0882S819
6	Gayetri Devi, S.V., Nalini, C.	57210748614;57172800700;	A systematic judgment to automated programming contracts generation	2019	International Journal of Recent Technology and Engineering	8	2	5017	5025	10.35940/ijrte.B1081.078219
7	Gayetri Devi, S.V., Nalini, C.	57210748614;57172800700;	A systematic judgement to automated programming contracts generation	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 3	629	637	10.35940/ijrte.B1116.0782S319
8	Ravichandran, T., Mohanta, K., Nalini, C.	57193432455;55802928200;57172800700;	Feature specific optimal random forest algorithm for enhancing classification accuracy	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 2	467	470	10.35940/ijitee.I1099.0789S219
9	Rama, A., Kumaravel, A., Nalini, C.	57191645744;56655033900;57172800700;	Preprocessing medical images for classification using deep learning techniques	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	711	716	10.35940/ijitee.I3147.0789S319



10	Nalini, C., Amudha, S., Sangeetha, S.	5717280070 0;572170884 32;57210434 131;	Relationship identification & prediction of diseases association using micro- RNA of genomic data	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	109 3	1096	10.35940/ijitee.I3 235.0789S319
11	Kaliyamurthie, K.P., Nalini, C., Michael, G.	5577293080 0;571728007 00;56924800 500;	Many number of partition board for the ethernet	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	960	963	10.35940/ijitee.I3 204.0789S319
12	Sundarraaj, B., Sri Gowtham, S., Nalini, C.	5719575328 7;572109797 26;57172800 700;	3D MR image denoising using higher order kernel regression	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	107 7	1086	10.35940/ijitee.I3 232.0789S319
13	Kaliyamurthie, K.P., Nalini, C., Michael, G.	5577293080 0;571728007 00;56924800 500;	Empathic, game-theoretic information	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	100 3	1006	10.35940/ijitee.I3 214.0789S319
14	Ravichandran, T., Mohanta, K., Nalini, C.	5719343245 5;558029282 00;57172800 700;	An efficient feature specific neural network for multi class classification	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 3	122 3	1226	10.35940/ijrte.B1 228.0782S319



15	Nalini, C., Kavitha, R., Kavitha, G., Sangeetha, S.	5717280070 0;569908499 00;56830309 100;5721043 4131;	Practise mining to predict type of client performance	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	964	968	10.35940/ijitee.I3 205.0789S319
16	Aravindasamy, R., Nalini, C., Sangeetha, S., Theivasigamani, S.	5721098284 8;571728007 00;57210434 131;5721097 8681;	Sentiment analysis using rapid miner	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	158 9	1594	10.35940/ijitee.I3 332.0789S319
17	Kaliyamurthie, K.P., Nalini, C., Priya, N., Allin Geo, A.V.	5577293080 0;571728007 00;57190312 145;5610234 2800;	Smart server IOT based temperature monitoring system	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	589	591	10.35940/ijitee.I3 118.0789S319
18	Ayyappan, G., Nalini, C., Kumaravel, A.	5719166918 4;571728007 00;56655033 900;	A novel K-NN classification approach using topic modelling in aminer dataset	2019	Indian Journal of Computer Science and Engineering	10	2	40	44	10.21817/indjcse/ 2019/v10i2/1910 02016
19	Ayyappan, G., Nalini, C., Kumaravel, A.	5719166918 4;571728007 00;56655033 900;	A case study on a miner dataset: Identifying leading research through various models	2019	Indian Journal of Computer Science and Engineering	10	2	45	53	10.21817/indjcse/ 2019/v10i2/1910 02017
20	Ravichandran, Mohanta, K., Nalini, C.	5719343245 5;558029282 00;57172800 700;	An optimized feature regularization in boosted decision tree	2019	International Journal of Innovative Technology and Exploring Engineering	8	6 Special Issue 4	907	910	10.35940/ijitee.F 1185.0486S419



21	Vimala, S., Khanaa, V., Nalini, C.	5721177705 1;264358421 00;57172800 700;	A study on supervised machine learning algorithm to improvise intrusion detection systems for mobile ad hoc networks	2019	Cluster Computing	22		406 5	4074	10.1007/s10586- 018-2686-x
22	Ramchandra, N.R., Rajabhushanam, C.	5721656608 3;548907141 00;	Architecture of traffic flow prediction based on ccf-deep lstm method	2020	International Journal of Advanced Research in Engineering and Technology	11	3	437	441	10.34218/IJARE T.11.3.2020.039
23	Deepak, S.Y., Rajabhushanam, C.	5721313752 0;548907141 00;	Privacy preservation in cloud environment using glowworm swarm-based whale optimization algorithm (gwoa) with 256 key size in cleveland database	2020	International Journal of Advanced Research in Engineering and Technology	11	3	416	423	10.34218/IJARE T.11.3.2020.037
24	Ramchandra, N.R., Rajabhushanam, C.	5721656608 3;548907141 00;	Traffic flow prediction using flow strength indicators and deep lstm network	2020	International Journal of Advanced Research in Engineering and Technology	11	3	442	447	10.34218/IJARE T.11.3.2020.040
25	Deepak, S.Y., Rajabhushanam, C.	5721313752 0;548907141 00;	Privacy preservation in cloud using glowworm swarm-based whale optimization algorithm (gwoa) with 128 key size in cleveland database	2020	International Journal of Advanced Research in Engineering and	11	3	410	415	10.34218/IJARE T.11.3.2020.036



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26	Krishna, T.H., Rajabhushanam, C.	5720968497 7;548907141 00;	Microgrid predication using deep convolutional neural networks	2020	Advances in Mathematics: Scientific Journal	9	9	703 7	7044	10.37418/amsj.9. 9.53
27	Sinkar, Y., Rajabhushanam, C.	5721848939 2;548907141 00;	Glowworm swarm optimization algorithm discrete applications	2020	Journal of Critical Reviews	7	8	175 2	1756	10.31838/jcr.07.0 8.340
28	Sinkar, Y., Rajabhushanam, C.	5721848939 2;548907141 00;	Discrete applications of whale optimization algorithm	2020	Journal of Critical Reviews	7	17	134 6	1350	10.31838/jcr.07.1 7.173
29	Radhakrishnan, S., Neduncheliyan, S., Thyagarajan, K.K.	5719751754 6;174354085 00;14046138 000;	An improved downlink packet scheduling algorithm or delay sensitive devices in both H2H and M2M communications in LTE- advanced networks	2020	International Journal of Enterprise Network Management	11	1	94	111	10.1504/IJENM. 2020.103916
30	Sivaraman, K., Neduncheliyan, S., Kaliyamoorthi, K.P.	5692501600 0;174354085 00;55607260 600;	An computerized health check token system engineering using arduino kit	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	93	95	10.35940/ijeat.F1 021.0886S219
31	Radhakrishnan, S., Neduncheliyan, S., Thyagarajan, K.K.	5719751754 6;174354085 00;14046138 000;	A novel fuzzy scheduler for cell-edge users in LTE-advanced networks using Voronoi algorithm	2019	Cluster Computing	22		962 5	9635	10.1007/s10586- 017-1314-5



32	Michael, G., Priya, N., Pothumani, S.	56924800500;57190312145;55315128900;	Decoupling the partition table from access points in DHTs	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	105	108	10.35940/ijeat.F1024.0886S219
33	Priyadharshini, S.P., Mahalakshmi, B., Michael, G.	57211389360;57218402633;56924800500;	Room temperature notification device	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	210	212	10.35940/ijeat.F1055.0886S219
34	Kaliyamurthie, K.P., Nalini, C., Michael, G.	55772930800;57172800700;56924800500;	Development of sequential methodology for understanding the thin clients	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	699	702	10.35940/ijeat.F1258.0886S219
35	Michael, G., Priya, N., Pothumani, S.	56924800500;57190312145;55315128900;	Sequential analysis of hierarchical databases for efficient handling	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	539	541	10.35940/ijeat.F1252.0886S219
36	Michael, G., Nalini, C., Pothumani, S.	56924800500;57172800700;55315128900;	QoS based enhanced system determination plan for 4G frameworks	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	283	286	10.35940/ijeat.F1076.0886S219
37	Theivasigamani, S., Jeyapriya, D., Michael, G.	57210978681;57210981271;56924800500;	Secure controlling system for cross layer reliability for ultra huge scale framework	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	229	231	10.35940/ijeat.F1061.0886S219



38	Vimala, D., Michael, G., Pothumani, S.	5721021007 6;569248005 00;55315128 900;	Chatty ship: Disseminated, entrenched information	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	243	246	10.35940/ijeat.F1 065.0886S219
39	Michael, G., Sri Vidhya, S.R., Jayapriya, D.	5692480050 0;572109832 58;57210982 986;	On the refinement of DHTs	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	463	466	10.35940/ijeat.F1 131.0886S219
40	Michael, G., Nalini, C., Geetha, C.	5692480050 0;571728007 00;57210212 229;	Two layer security for ticket booking	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	255	257	10.35940/ijeat.F1 068.0886S219
41	Michael, G., Sundar Raj, B., Kavitha, G.	5692480050 0;569254689 00;56830309 100;	A DHT-supported piece driven overlay for P2P live gushing	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	251	254	10.35940/ijeat.F1 067.0886S219
42	Kaliyamurthie, K.P., Allin Geo, A.V., Michael, G.	5577293080 0;561023428 00;56924800 500;	Mungo: Compact algorithms	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	559	563	10.35940/ijrte.B1 439.0882S819
43	Arunachalam, A.R., Michael, G., Vimala, D.	5604347830 0;569248005 00;57210210 076;	Anonymization based fisher-yates shuffle method for streaming of twitter data	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	408	411	10.35940/ijrte.B1 397.0882S819



44	Arunachalam, A.R., Michael, G., Elankavi, R.	5604347830 0;569248005 00;57194198 371;	Cloud services for device utilization and optimization of hybrid network	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	403	407	10.35940/ijrte.B1 396.0882S819
45	Velvizhi, R., Kavitha, G., Michael, G.	5721097700 0;568303091 00;56924800 500;	An examination of utmost programming with strene synthesis	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	848	851	10.35940/ijrte.B1 440.0882S819
46	Michael, G., Sivaraman, K., Sundar Raj, B.	5692480050 0;569250160 00;56925468 900;	Symmetric Encryption and Scatter/Gather I/O Using KAMWEB	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	707	710	10.35940/ijrte.B1 472.0882S819
47	Arunachalam, A.R., Michael, G., Elankavi, R.	5604347830 0;569248005 00;57194198 371;	Merkle hash tree with hash based digital signature for cloud data confidentiality and security	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	412	416	10.35940/ijrte.B1 398.0882S819
48	Allin Geo, A.V., Michael, G., Anuradha, C.	5610234280 0;569248005 00;56049807 400;	The influence of interactive archetypes on cryptography	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	190	194	10.35940/ijrte.B1 346.0882S819



49	Yugendhar, K., Michael, G., Sundar Raj, B.	5720462836 7;569248005 00;56925468 900;	Decoupling DNS from congestion control in rasterization	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	186	189	10.35940/ijrte.B1 345.0882S819
50	Arunachalam, A.R., Michael, G., Sivaraman, K.	5604347830 0;569248005 00;56925016 000;	Detection of byzantine replication attack using TTCB	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	539	544	10.35940/ijrte.B1 432.0882S819
51	Sundarraaj, B., Michael, G., Mary Linda, I.	5719575328 7;569248005 00;57210213 200;	Linear-time, client-server communication for consistent hashing	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	822	825	10.35940/ijrte.B1 497.0882S819
52	Karthikeyan, R.R., Raghu, B.	5721471384 6;571931336 82;	Sensor data collection and its architecture with internet of things	2019	International Journal of Engineering and Advanced Technology	9	1	205 6	2060	10.35940/ijeat.A 9564.109119
53	Hasen, D., Sundararaj, M., Karthikeyan, R.	5692530610 0;552178202 00;57207719 875;	Computational analysis of mixing in scramjet combustor using cross flow injection technique	2019	International Journal of Mechanical and Production Engineering Research and Development	9	3	637	644	10.24247/ijmperd jun201970



54	Anusha, P.V., Anuradha, C., Chandra Murty, P.S.R., Kiran, C.S.	5721889788 1;560498074 00;53866088 500;5721185 8912;	Detecting outliers in high dimensional data sets using Z-score methodology	2019	International Journal of Innovative Technology and Exploring Engineering	9	1	48	53	10.35940/ijitee.A 3910.119119
55	Anuradha, C., Ramesh, M.	5604980740 0;572018781 79;	Detection of outliers in high dimensional data with lasso regression	2019	International Journal of Engineering and Advanced Technology	9	1	734 2	7346	10.35940/ijeat.A 1478.109119
56	Anuradha, C., Ramesh, M., Murty, P.S.R.C.	5604980740 0;572018781 79;57203514 862;	Outlier detection in high dimensional data based on elastic net regression	2019	International Journal of Innovative Technology and Exploring Engineering	8	12	325	328	10.35940/ijitee.L 3479.1081219
57	Mary Linda, I., Anuradha, C., Pothumani, S.	5721021320 0;560498074 00;55315128 900;	Remarks on polygot applications	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	258	260	10.35940/ijeat.F1 069.0886S219
58	Pothumani, S., Anuradha, C., Mary Linda, I.	5531512890 0;560498074 00;57210213 200;	Fragmented location – Identity in model checking	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	519	522	10.35940/ijeat.F1 151.0886S219
59	Anuradha, C., Pothumani, S., Kavitha, R.	5604980740 0;553151289 00;56990849 900;	A novel method towards E-commerce	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	535	538	10.35940/ijeat.F1 157.0886S219



60	Anuradha, C., Pothumani, S., Kavitha, G.	5604980740 0;553151289 00;56830309 100;	On the deployment of web browsers	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	274	277	10.35940/ijeat.F1 073.0886S219
61	Priya, N., Pothumani, S., Anuradha, C.	5719031214 5;553151289 00;56049807 400;	Implementation of red- black trees in RPC	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	684	687	10.35940/ijeat.F1 253.0886S219
62	Jeyapriyanga, S., Mahalakshmi, B., Anuradha, C.	5721138650 6;572184026 33;56049807 400;	Spam detection in twitter using machine learning algorithms	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	174	178	10.35940/ijeat.F1 046.0886S219
63	Priya, N., Pothumani, S., Anuradha, C.	5719031214 5;553151289 00;56049807 400;	Technological advancement in robotics for various industrial purposes	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	688	690	10.35940/ijeat.F1 254.0886S219
64	Mary Linda, I., Vimala, D., Anuradha, C.	5721021320 0;572102100 76;56049807 400;	Sheltered, tenuous in sequence	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	204	206	10.35940/ijeat.F1 053.0886S219
65	Theivasigamani, S., Jeyapriya, D., Anuradha, C.	5721097868 1;572109812 71;56049807 400;	Cross circulated management for cross- cloud in multi cloud environment	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	236	238	10.35940/ijeat.F1 063.0886S219



66	Anuradha, C., Pothumani, S., Kavitha, R.	5604980740 0;553151289 00;56990849 900;	Adaptive, flexible symmetries	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	545	547	10.35940/ijeat.F1 160.0886S219
67	Anuradha, C., Pothumani, S., Geo, A.	5604980740 0;553151289 00;57210980 803;	Deploying DNS and the turing machine using Sophi	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	122	124	10.35940/ijeat.F1 030.0886S219
68	Anuradha, C., Pothumani, S., Priya, N.	5604980740 0;553151289 00;57190312 145;	Large-scale, heterogeneous technology	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	742	745	10.35940/ijeat.F1 271.0886S219
69	Priya, N., Anuradha, C., Velvizhi, R.	5719031214 5;560498074 00;57210977 000;	Development and advancement in cyber informatics	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	691	693	10.35940/ijeat.F1 255.0886S219
70	Priya, N., Anuradha, C., Sundar Raj, B.	5719031214 5;560498074 00;56925468 900;	Validation of linked lists	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	726	729	10.35940/ijeat.F1 266.0886S219
71	Priya, N., Anuradha, C., Kavitha, G.	5719031214 5;560498074 00;56830309 100;	IPv4 architecture in randomized algorithms	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	150	153	10.35940/ijeat.F1 037.0886S219



72	Anuradha, C., Pothumani, S., Velvizhi, R.	5604980740 0;553151289 00;57210977 000;	Enabling Markov models using robust theory	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	736	738	10.35940/ijeat.F1 269.0886S219
73	Anuradha, C., Pothumani, S., Kavitha, G.	5604980740 0;553151289 00;56830309 100;	Collaborative, multimodal modalities	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	195	198	10.35940/ijrte.B1 347.0882S819
74	Mary Linda, I., Shanmugapriya, K., Anuradha, C.	5721021320 0;572102105 00;56049807 400;	De Blend IPv7 Beginning Multi-Processors in Idleness	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	695	698	10.35940/ijrte.B1 469.0882S819
75	Kavitha, G., Thooyamani, K.P., Anuradha, C.	5683030910 0;368702839 00;56049807 400;	Evaluation of emulation of a search	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	856	859	10.35940/ijrte.B1 437.0882S819
76	Allin Geo, A.V., Michael, G., Anuradha, C.	5610234280 0;569248005 00;56049807 400;	The influence of interactive archetypes on cryptography	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	190	194	10.35940/ijrte.B1 346.0882S819
77	Pothumani, S., Anuradha, C., Velvizhi, R.	5531512890 0;560498074 00;57210977 000;	An effective method for robotics scalable models	2019	International Journal of Recent Technology	8	2 Specia l Issue 8	801	805	10.35940/ijrte.B1 491.0882S819



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78	Peddireddy, B., Anuradha, C., Chandra Murthy, P.S.R.	5720947636 2;560498074 00;57209468 044;	Mining closed item sets from tuple-evolving data streams	2019	International Journal of Engineering and Advanced Technology	8	6	501 0	5016	10.35940/ijeat.F9 107.088619
79	Sangeetha, S., Anuradha, C., Priya, N.	5721043413 1;560498074 00;57190312 145;	DNS in real world	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	937	940	10.35940/ijitee.I3 198.0789S319
80	Sangeetha, S., Anuradha, C., Priya, N.	5721043413 1;560498074 00;57190312 145;	Detecting and analyzing urban regions with high impact of weather change on transport	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	109 7	1100	10.35940/ijitee.I3 236.0789S319
81	Kavitha, G., Priya, N., Anuradha, C., Pothumani, S.	5683030910 0;571903121 45;56049807 400;5531512 8900;	Read-write, peer-to-peer algorithms for the location-identity split	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	445	447	10.35940/ijitee.I3 178.0789S319
82	Anuradha, C., Priya, N., Sangeetha, S., Kavitha, G.	5604980740 0;571903121 45;57210434 131;5683030 9100;	AI NLP chatbot for HR and employee support	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	580	582	10.35940/ijitee.I3 115.0789S319



83	Sangeetha, S., Kavitha, R., Anuradha, C., Pothumani, S.	5721043413 1;569908499 00;56049807 400;5531512 8900;	Clustering based loading that is bit making use of neural sites	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	685	689	10.35940/ijitee.I3 141.0789S319
84	Sivaraman, K., Kavitha, R., Anuratha, C.	5692501600 0;569908499 00;57210977 659;	Information security in cloud computing utilizing fully homomorphic encryption techniques	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	679	683	10.35940/ijeat.F1 251.0886S219
85	Sivaraman, K., Neduncheliyan, S., Kaliyamoorthi, K.P.	5692501600 0;174354085 00;55607260 600;	An computerized health check token system engineering using arduino kit	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	93	95	10.35940/ijeat.F1 021.0886S219
86	Michael, G., Sivaraman, K., Sundar Raj, B.	5692480050 0;569250160 00;56925468 900;	Symmetric Encryption and Scatter/Gather I/O Using KAMWEB	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	707	710	10.35940/ijrte.B1 472.0882S819
87	Arunachalam, A.R., Michael, G., Sivaraman, K.	5604347830 0;569248005 00;56925016 000;	Detection of byzantine replication attack using TTCB	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	539	544	10.35940/ijrte.B1 432.0882S819
88	Mary Linda, I., Vimala, D., Sivaraman, K.	5721021320 0;572102100 76;56925016 000;	The upshot of omniscient strategies on steganography	2019	International Journal of Recent Technology and	8	2 Specia l Issue 8	703	706	10.35940/ijrte.B1 471.0882S819



					Engineering					
89	Sivaraman, K., Krishnan, R.M.V., Sundarraaj, B., Sri Gowthem, S.	5692501600 0;571981865 80;57195753 287;5720172 4525;	Network failure detection and diagnosis by analyzing syslog and SNS data: Applying big data analysis to network operations	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	883	887	10.35940/ijitee.I3 187.0789S319
90	Sivaraman, K., Geo, A.V.A., Michael, G., Pothumani, S.	5692501600 0;572109808 03;56924800 500;5531512 8900;	Online polling scheme	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	879	882	10.35940/ijitee.I3 186.0789S319
91	Sundarraaj, B., Sivaraman, K., Geo, A.V.A., Michael, G.	5719575328 7;569250160 00;57210980 803;5692480 0500;	Decoupling web services from the transistor in expert systems	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	893	897	10.35940/ijitee.I3 189.0789S319
92	Priya, N., Pothumani, S., Jayapriya, D.	5719031214 5;553151289 00;57210982 986;	Examination of compilers in SCSI disks	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	492	495	10.35940/ijeat.F1 139.0886S219
93	Michael, G., Priya, N., Pothumani, S.	5692480050 0;571903121 45;55315128 900;	Decoupling the partition table from access points in DHTs	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	105	108	10.35940/ijeat.F1 024.0886S219



94	Mary Linda, I., Anuradha, C., Pothumani, S.	5721021320 0;560498074 00;55315128 900;	Remarks on polygot applications	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	258	260	10.35940/ijeat.F1 069.0886S219
95	Pothumani, S., Kavitha, R., Velvizhi, R.	5531512890 0;569908499 00;57210977 000;	A novel method to analyze hash tables	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	217	220	10.35940/ijeat.F1 058.0886S219
96	Kavitha, R., Pothumani, S., Mary Linda, I.	5699084990 0;553151289 00;57210213 200;	Towards the construction of web services the perception of transformative programming	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	746	749	10.35940/ijeat.F1 272.0886S219
97	Pothumani, S., Kavitha, R., Sri Vidhya, S.R.	5531512890 0;569908499 00;57210983 258;	The effective method on fuzzy with steganography	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	611	614	10.35940/ijeat.F1 180.0886S219
98	Pothumani, S., Anuradha, C., Mary Linda, I.	5531512890 0;560498074 00;57210213 200;	Fragmented location – Identity in model checking	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	519	522	10.35940/ijeat.F1 151.0886S219
99	Anuradha, C., Pothumani, S., Kavitha, R.	5604980740 0;553151289 00;56990849 900;	A novel method towards E-commerce	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	535	538	10.35940/ijeat.F1 157.0886S219



100	Anuradha, C., Pothumani, S., Kavitha, G.	5604980740 0;553151289 00;56830309 100;	On the deployment of web browsers	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	274	277	10.35940/ijeat.F1 073.0886S219
101	Priya, N., Pothumani, S., Anuradha, C.	5719031214 5;553151289 00;56049807 400;	Implementation of red- black trees in RPC	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	684	687	10.35940/ijeat.F1 253.0886S219
102	Pothumani, S., Priya, N., Vimala, D.	5531512890 0;571903121 45;57210210 076;	A novel technique to construct SMPS	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	554	557	10.35940/ijeat.F1 164.0886S219
103	Priya, N., Pothumani, S., Anuradha, C.	5719031214 5;553151289 00;56049807 400;	Technological advancement in robotics for various industrial purposes	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	688	690	10.35940/ijeat.F1 254.0886S219
104	Michael, G., Priya, N., Pothumani, S.	5692480050 0;571903121 45;55315128 900;	Sequential analysis of hierarchical databases for efficient handling	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	539	541	10.35940/ijeat.F1 252.0886S219
105	Michael, G., Nalini, C., Pothumani, S.	5692480050 0;571728007 00;55315128 900;	QoS based enhanced system determination plan for 4G frameworks	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	283	286	10.35940/ijeat.F1 076.0886S219



106	Priya, N., Pothumani, S., Kavitha, G.	5719031214 5;553151289 00;56830309 100;	Modular configurations for RAID architecture	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	142	145	10.35940/ijeat.F1 035.0886S219
107	Pothumani, S., Priya, N., Amudha, S.	5531512890 0;571903121 45;57217088 432;	A novel method to analyze compilers	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	187	190	10.35940/ijeat.F1 048.0886S219
108	Anuradha, C., Pothumani, S., Kavitha, R.	5604980740 0;553151289 00;56990849 900;	Adaptive, flexible symmetries	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	545	547	10.35940/ijeat.F1 160.0886S219
109	Anuradha, C., Pothumani, S., Geo, A.	5604980740 0;553151289 00;57210980 803;	Deploying DNS and the turing machine using Sophi	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	122	124	10.35940/ijeat.F1 030.0886S219
110	Vimala, D., Michael, G., Pothumani, S.	5721021007 6;569248005 00;55315128 900;	Chatty ship: Disseminated, entrenched information	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	243	246	10.35940/ijeat.F1 065.0886S219
111	Anuradha, C., Pothumani, S., Priya, N.	5604980740 0;553151289 00;57190312 145;	Large-scale, heterogeneous technology	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	742	745	10.35940/ijeat.F1 271.0886S219



112	Rajabhushanam, C., Allin Geo, A.V., Pothumani, S.	54890714100;56102342800;55315128900;	True sensor captured radiance and surface reflectance from landsat-8 multispectral image sets	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	166	170	10.35940/ijeat.F1043.0886S219
113	Priya, N., Pothumani, S., Jayapriya, D.	57190312145;55315128900;57210982986;	Examination of virtual machines architecture in real-time	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	483	486	10.35940/ijeat.F1137.0886S219
114	Priya, N., Pothumani, S., Kavitha, R.	57190312145;55315128900;56990849900;	Synthesis of rasterization- A new method	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	125	128	10.35940/ijeat.F1031.0886S219
115	Kaliyamurthie, K.P., Pothumani, S., Velvizhi, R.	55772930800;55315128900;57210977000;	A methodology for the deployment of model checking	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	88	92	10.35940/ijeat.F1020.0886S219
116	Pothumani, S., Velvizhi, R., Amudha, S.	55315128900;57210977000;57217088432;	Learning through virtual environment	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	232	235	10.35940/ijeat.F1062.0886S219
117	Anuradha, C., Pothumani, S., Velvizhi, R.	56049807400;55315128900;57210977000;	Enabling Markov models using robust theory	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	736	738	10.35940/ijeat.F1269.0886S219



118	Anuradha, C., Pothumani, S., Kavitha, G.	5604980740 0;553151289 00;56830309 100;	Collaborative, multimodal modalities	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	195	198	10.35940/ijrte.B1 347.0882S819
119	Pothumani, S., Anuradha, C., Velvizhi, R.	5531512890 0;560498074 00;57210977 000;	An effective method for robotics scalable models	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	801	805	10.35940/ijrte.B1 491.0882S819
120	Sundarraaj, B., Pothumani, S., Priya, N.	5719575328 7;553151289 00;57190312 145;	Online examination service using mobile application	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	500	503	10.35940/ijitee.I3 095.0789S319
121	Michael, G., Geo, A.V.A., Pothumani, S.	5692480050 0;572109808 03;55315128 900;	Simulating symmetric encryption and local-area networks using celt	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	101 0	1013	10.35940/ijitee.I3 216.0789S319
122	Pothumani, S., Kavitha, G., Michael, G.	5531512890 0;568303091 00;56924800 500;	Automated teller machine system	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	592	598	10.35940/ijitee.I3 119.0789S319



123	Pothumani, S., Priya, N., Aditya, T.S.M.	5531512890; 57190312145; 57210977829;	Network traffic monitoring analysis system with built-in monitoring data gathering	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	694	699	10.35940/ijitee.I3143.0789S319
124	Vimala, D., Pothumani, S., Srividhya, S.R.	57210210076; 55315128900; 57213197175;	TIMAL: A line of attack theoretical unification of spread out/congregate I/O and gigabit switches	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1023	1026	10.35940/ijitee.I3219.0789S319
125	Sangeetha, S., Pothumani, S., Davamani, K.A.	57210434131; 55315128900; 57211281506;	Signature authentication using deep learning	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	531	535	10.35940/ijitee.I3103.0789S319
126	Yugendhar, K., Sundarraj, B., Velvizhi, R.	57204628367; 57195753287; 57210977000;	Decoupling expert systems from access points in cache coherence	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	178	181	10.35940/ijrte.B1343.0882S819
127	Sundarraj, B., Elankavi, R., Sangeetha, S.	57195753287; 57194198371; 57210434131;	Synthesizing multicast solutions using heterogeneous information	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	428	431	10.35940/ijrte.B1403.0882S819



128	Sundarraaj, B., Michael, G., Mary Linda, I.	5719575328 7;569248005 00;57210213 200;	Linear-time, client-server communication for consistent hashing	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	822	825	10.35940/ijrte.B1 497.0882S819
129	Sundarraaj, B., Jeyapriya, S., Geetha, C.	5719575328 7;572113135 94;57210212 229;	A methodology for the development of information retrieval systems	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	651	654	10.35940/ijrte.B1 459.0882S819
130	Sundarraaj, B., Allin Geo, A.V., Muthu Venkata Krishnan, R.	5719575328 7;561023428 00;57210982 050;	Decoupling the turing machine from replication in IPv6	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	107 3	1076	10.35940/ijitee.I3 231.0789S319
131	Sundarraaj, B., Jeyapriya, D., Theivasigamani, S.	5719575328 7;572109812 71;57210978 681;	Segregate of distinctiveness, significance and priority in ranking	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	161 3	1615	10.35940/ijitee.I3 338.0789S319
132	Sundarraaj, B., Michael, G., Muthu Venkata Krishnan, R.	5719575328 7;569248005 00;57210982 050;	Emulating hierarchical databases and DHCP with hipe	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	106 9	1072	10.35940/ijitee.I3 230.0789S319



133	Muthu Venkata Krishnan, R., Sundarraj, B., Mary Linda, I.	57210982050;57195753287;57210213200;	The effect of replicated archetypes on machine learning	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1065	1068	10.35940/ijitee.I3229.0789S319
134	Sundarraj, B., Pothumani, S., Priya, N.	57195753287;55315128900;57190312145;	Online examination service using mobile application	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	500	503	10.35940/ijitee.I3095.0789S319
135	Sundarraj, B., Sri Gowtham, S., Nalini, C.	57195753287;57210979726;57172800700;	3D MR image denoising using higher order kernel regression	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1077	1086	10.35940/ijitee.I3232.0789S319
136	Velvizhi, R., Vimala, D., Mary Linda, I.	57210977000;57210210076;57210213200;	Payload based internet worm disclosure using neural network	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1601	1064	10.35940/ijeat.F1058.0886S219
137	Velvizhi, R., Kavitha, R., Vimala, D.	57210977000;56990849900;57210210076;	A case for heterogeneous procedures on model checking	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1048	1051	10.35940/ijeat.F1042.0886S219



138	Velvizhi, R., Jayapriya, D., Priya, N.	5721097700 0;572109829 86;57190312 145;	Detection of severity of chronic cough in elders and children using machine learning	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	550	553	10.35940/ijeat.F1 259.0886S219
139	Velvizhi, R., Kavitha, G., Sri Vidhya, S.R.	5721097700 0;568303091 00;57210983 258;	Structure of DHCP stochastic, unstable models	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	104 4	1047	10.35940/ijeat.F1 268.0886S219
140	Kavitha, G., Priya, N., Velvizhi, R.	5683030910 0;571903121 45;57210977 000;	Subcarrier allocation techniques in OFDMA	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	113 0	1135	10.35940/ijeat.F1 255.0886S219
141	Sri Vidhya, S.R., Priya, N., Velvizhi, R.	5721098325 8;571903121 45;57210977 000;	Melting: Improvement of semaphores that made evaluating and possibly controlling congestion control a reality	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	540	544	10.35940/ijeat.F1 256.0886S219
142	Velvizhi, R., Vimala, D., Kavitha, R.	5721097700 0;572102100 76;56990849 900;	Hypothesis and automata modified archetypes	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	104 0	1043	10.35940/ijeat.F1 054.0886S219



143	Kavitha, G., Priya, N., Velvizhi, R., Allin Geo, A.V.	56830309100;57190312145;57210977000;56102342800;	Parallel computation in correspondence and signal processing	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1136	1139	10.35940/ijeat.F1066.0886S219
144	Kaliyamurthie, K.P., Sundar Raj, B., Velvizhi, R., Shanmugapriya, K.	55772930800;56925468900;57210977000;57210210500;	Dual band paper substrate CPW antenna for wireless applications	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	605	608	10.35940/ijeat.F1142.0886S219
145	Velvizhi, R., Priya, D.J., Vimala, D., Linda, I.M.	57210977000;57210979945;57210210076;57210979429;	Increased routing algorithm for mobile adhoc networks	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1606	1608	10.35940/ijeat.F1020.0886S219
146	Jeyapriya, D., Theivasigamani, S., Velvizhi, R., Shanmugapriya, K.	57210981271;57210978681;57210977000;57210210500;	Data warehouse using assimilated algorithm	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1211	1214	10.35940/ijeat.F1062.0886S219
147	Jeyapriya, D., Theivasigamani, S., Velvizhi, R., Nandhini, P.	57210981271;57210978681;57210977000;57210975967;	Program detection in wireless feeler networks	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1194	1195	10.35940/ijeat.F1269.0886S219



148	Geo, A.V.A., Kavitha, R., Velvizhi, R., Sangeetha, S.	5721098080 3;569908499 00;57210977 000;5721043 4131;	Automatic and efficient allocation for examination seats using android application	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	520	523	10.35940/ijrte.B1 343.0882S819
149	Jeyapriya, D., Theivasigamani, S., Velvizhi, R., Nandhini, P.	5721098127 1;572109786 81;57210977 000;5721097 5967;	Medicinal image classification using association regulation mining with resolution tree algorithm	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	119 6	1197	10.35940/ijrte.B1 490.0882S819
150	Velvizhi, R., Kavitha, R., Geetha, C., Sri Vidhya, S.R.	5721097700 0;569908499 00;57210212 229;5721098 3258;	Graphene a fundamental of interaction globe	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	661	665	10.35940/ijrte.B1 326.0882S819
151	Jeyapriya, D., Theivasigamani, S., Velvizhi, R., Nandhini, P.	5721098127 1;572109786 81;57210977 000;5721097 5967;	Security amalgamation using cloud computing	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	120 8	1210	10.35940/ijrte.B1 394.0882S819
152	Kavitha, G., Sri Vidhya, S.R., Sangeetha, S., Velvizhi, R.	5683030910 0;572109832 58;57210434 131;5721097 7000;	The relationship between sensor networks and online algorithms using lone	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	842	844	10.35940/ijrte.B1 440.0882S819



153	Velvizhi, R., Kavitha, G., Mary Linda, I., Sangeetha, S.	5721097700 0;568303091 00;57210213 200;5721043 4131;	Heuristics architecture using scalable methodologies	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	105 2	1056	10.35940/ijrte.B1 461.0882S819
154	Jeyapriya, D., Theivasigamani, S., Velvizhi, R., Nandhini, P.	5721098127 1;572109786 81;57210977 000;5721097 5967;	E-commerce performance with cloud computing	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	100 7	1009	10.35940/ijeat.F1 058.0886S219
155	Pothumani, S., Anuradha, C., Kavitha, G., Velvizhi, R.	5531512890 0;560498074 00;56830309 100;5721097 7000;	A novel method to identify stealthy botnets	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	573	575	10.35940/ijeat.F1 042.0886S219
156	Nandhini, P., Velvizhi, R., Allin Geo, A.V., Sharma, N.	5721097596 7;572109770 00;56102342 800;5721097 8671;	Execution increment of classifiers using combination of clustering and examination techniques	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	758	761	10.35940/ijeat.F1 259.0886S219
157	Velvizhi, R., Nandhini, P.	5721097700 0;572109759 67;	Deconstructing SMPs with wodescrit	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Specia l Issue	770	776	10.35940/ijeat.F1 268.0886S219



158	Velvizhi, R., Nandhini, P.	5721097700 0;572109759 67;	A methodology for the analysis of write-back memory	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Specia l Issue	122 8	1234	10.35940/ijeat.F1 255.0886S219
159	Velvizhi, R., Jayapriya, D.	5721097700 0;572109829 86;	Challenge public-private key pairs and scatter/gather I/O using poi	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Specia l Issue	106 6	1072	10.35940/ijeat.F1 256.0886S219
160	Velvizhi, R., Jayapriya, D.	5721097700 0;572109829 86;	Decoupling online algorithms from symmetric encryption in hierarchical databases	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Specia l Issue	100 4	1009	10.35940/ijeat.F1 054.0886S219
161	Velvizhi, R., Jayapriya, D.	5721097700 0;572109829 86;	The effect of flexible information on e-voting technology	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Specia l Issue	115 9	1165	10.35940/ijeat.F1 066.0886S219
162	Velvizhi, R., Jayapriya, D.	5721097700 0;572109829 86;	A procedural for the augmentation of boolea	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Specia l Issue	288	293	10.35940/ijeat.F1 142.0886S219



163	Velvizhi, R., Nandhini, P.	5721097700 0;572109759 67;	A construction of write-back caches with Muster	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Special Issue	275	281	10.35940/ijeat.F1020.0886S219
164	Velvizhi, R., Nandhini, P.	5721097700 0;572109759 67;	Simulation of I/O automata	2019	Journal of Advanced Research in Dynamical and Control Systems	11	9 Special Issue	282	287	10.35940/ijeat.F1062.0886S219
165	Kavitha, G., Kavitha, R., Allin Geo, A.V.	5683030910 0;569908499 00;56102342 800;	Network monitoring on cloud environment using SDN	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	171	173	10.35940/ijeat.F1269.0886S219
166	Rajabhushanam, C., Allin Geo, A.V., Pothumani, S.	5489071410 0;561023428 00;55315128 900;	True sensor captured radiance and surface reflectance from landsat-8 multispectral image sets	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	166	170	10.35940/ijrte.B1343.0882S819
167	Kaliyamurthie, K.P., Allin Geo, A.V., Michael, G.	5577293080 0;561023428 00;56924800 500;	Mungo: Compact algorithms	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	559	563	10.35940/ijrte.B1490.0882S819
168	Allin Geo, A.V., Michael, G., Anuradha, C.	5610234280 0;569248005 00;56049807 400;	The influence of interactive archetypes on cryptography	2019	International Journal of Recent Technology and	8	2 Special Issue 8	190	194	10.35940/ijrte.B1326.0882S819



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169	Allin Geo, A.V., Nandhini, P., Sadagopan, S.	5610234280 0;572109759 67;57210976 776;	An understanding of IPv6 using Muck	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	399	402	10.35940/ijrte.B1 394.0882S819
170	Kavitha, R., Priya, N., Allin Geo, A.V.	5699084990 0;571903121 45;56102342 800;	An exploration unification in of Lambda calculus with Confirmed VOIP	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	806	809	10.35940/ijrte.B1 440.0882S819
171	Sundarraaj, B., Allin Geo, A.V., Muthu Venkata Krishnan, R.	5719575328 7;561023428 00;57210982 050;	Decoupling the turing machine from replication in IPv6	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	107 3	1076	10.35940/ijrte.B1 461.0882S819
172	Kavitha, G., Geetha, C., Anita Davamani, K.	5683030910 0;572102122 29;57210209 037;	Testing of mobile systems using models	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	776	779	10.35940/ijeat.F1 044.0886S219
173	Shanmugapriya, K., Geetha, C., Mary Linda, I.	5721021050 0;572102122 29;57210213 200;	Decoupling the transistor from robots in link-level acknowledgements	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	428	431	10.35940/ijeat.F1 043.0886S219



174	Mary Linda, I., Shanmugapriya, K., Geetha, C.	5721021320 0;572102105 00;57210212 229;	An deliberate decentralized file duplication algorithm in sharing system	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	201	203	10.35940/ijrte.B1 439.0882S819
175	Geetha, C., Sangeetha, S., Priya, N.	5721021222 9;572104341 31;57190312 145;	Deconstructing RPCs	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	312	315	10.35940/ijrte.B1 346.0882S819
176	Geetha, C., Kavitha, S., Sri Gowtham, S.	5721021222 9;837524530 0;572109797 26;	An energy efficient confinement relying upon indoor/outdoor context for OS mechanism	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	638	643	10.35940/ijrte.B1 395.0882S819
177	Shanmugapriya, K., Mary Linda, I., Geetha, C.	5721021050 0;572102132 00;57210212 229;	Capacity side of the point evaluation utilizing programming item estimation	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	780	783	10.35940/ijrte.B1 492.0882S819
178	Geetha, C., Kavitha, S., Amudha, S.	5721021222 9;837524530 0;572170884 32;	Keying methods of using protocols for cryptography in wireless networks	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	631	637	10.35940/ijitee.I3 231.0789S319
179	Geetha, C., Kavitha, S., Nalini, C.	5721021222 9;837524530 0;571728007 00;	Portion of heterogeneous resources of an IoT gadget to flexible services	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	292	297	10.35940/ijitee.I3 246.0789S319



180	Michael, G., Nalini, C., Geetha, C.	56924800500;57172800700;57210212229;	Two layer security for ticket booking	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	255	257	10.35940/ijitee.I3116.0789S319
181	Geetha, C., Mary Linda, I., Elankavi, R.	57210212229;57210213200;57194198371;	An exploration of fiber-optic cables	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	417	419	10.35940/ijitee.I3118.0789S319
182	Geetha, C., Vimala, D., Amudha, S.	57210212229;57210210076;57217088432;	Portraying privacy leakage of public wifi systems for users on travel spam detection in social bookmarking system	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	420	423	10.35940/ijitee.I3157.0789S319
183	Shanmugapriya, K., Geetha, C., Vimala, D.	57210210500;57210212229;57210210076;	Synthesizing 64 bit architectures and E-business using SULA	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	555	558	10.35940/ijrte.B1433.0882S819
184	Kavitha, G., Thooyamani, K.P., Srividhya, S.R.	56830309100;36870283900;57213197175;	A case for link-level acknowledgements	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	852	855	10.35940/ijrte.B1461.0882S819
185	Vimala, D., Srividhya, S.R., Velvizhi, R.	57210210076;57213197175;57210977000;	A case for I/O automata	2019	International Journal of Recent Technology	8	2 Special Issue 8	659	662	10.35940/ijrte.B1435.0882S819



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186	Kavitha, G., Thooyamani, K.P., Srividhya, S.R.	5683030910 0;368702839 00;57213197 175;	Towards the simulation of interrupts by using cryptography	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	549	551	10.35940/ijrte.B1 434.0882S819
187	Kavitha, G., Thooyamani, K.P., Srividhya, S.R.	5683030910 0;368702839 00;57213197 175;	The influence of amphibious algorithms on cyber informatics	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	545	548	10.35940/ijitee.I3 104.0789S319
188	Srividhya, S.R., Kavitha, R., Linda, I.M.	5721319717 5;569908499 00;57210979 429;	Certi fiable, mobile configurations for the lookaside buffer	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	536	539	10.35940/ijitee.I3 117.0789S319
189	Kavitha, R., Kavitha, G., Srividhya, S.R.	5699084990 0;568303091 00;57213197 175;	Protected entree design for big data knowledge in cloud	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	586	588	10.35940/ijitee.I3 219.0789S319
190	Vimala, D., Pothumani, S., Srividhya, S.R.	5721021007 6;553151289 00;57213197 175;	TIMAL: A line of attack theoretical unification of spread out/congregate I/O and gigabit switches	2019	International Journal of Innovative Technology and Exploring	8	9 Specia l Issue 3	102 3	1026	10.35940/ijitee.I3 135.0789S319



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191	Sangeetha, S., Srividhya, S.R., Anita Davamani, K., Amudha, S.	5721043413 1;572131971 75;57210209 037;5721708 8432;	A procedure for avoid overrun error in universal synchronous asynchronous receiver transmitter (usart) by utilizing dummy join and interrupt latency method	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	657	660	10.35940/ijitee.I3 116.0789S319
192	Sangeetha, M., Jasmine, M., Philomina, S.	5719635378 5;572101899 48;56042541 800;	Fuzzy-logic method and sliding-mode control for induction motor	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	423	427	10.35940/ijitee.I3 134.0789S319
193	Meenaakumari, M., Sangeetha, M., Subbulakshmi, K.	5721139708 9;571963537 85;56042540 700;	Fuzzy logic technique to evaluation of material hardness, specific wear resistance of aluminium	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	323	328	10.35940/ijitee.I3 243.0789S319
194	Pavithra, J., Kumar, G.A., Sangeetha, M.	5692536540 0;572112836 59;57196353 785;	Employees providenet fund with special reference to mando India automotive, Chennai	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	264	268	10.35940/ijitee.I3 181.0789S319
195	Ramamoorthy, R., Sangeetha, M., Kamal, A.	5721128127 8;571963537 85;57211282 182;	Working capital management	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	162	166	10.5373/JARDC S/V11/20192626



196	Ramamoorthy, R., Venkatraman, K., Sangeetha, M.	5721128127 8;571953578 03;57196353 785;	A recruitment and selection process at hi- tech civil engineers pvt.ltd, Port Blair	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	343	347	10.5373/JARDC S/V11/20192620
197	Vimala, D., Sangeetha, S., Sundar Raj, B.	5721021007 6;572104341 31;56925468 900;	Enlightening kernels by probabilistic model	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	239	242	10.5373/JARDC S/V11/20192641
198	Geetha, C., Sangeetha, S., Priya, N.	5721021222 9;572104341 31;57190312 145;	Deconstructing RPCs	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	312	315	10.5373/JARDC S/V11/20192645
199	Nalini, C., Kharabe, S., Sangeetha, S.	5717280070 0;569012431 00;57210434 131;	Efficient notes generation through information extraction	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	160	162	10.5373/JARDC S/V11/20192615
200	Jeyapriyanga, S., Priyadharshini, S.P., Sangeetha, S.	5721138650 6;572113893 60;57210434 131;	Product label reading system for blind people using support vector machine algorithm	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	179	186	10.35940/ijeat.F1 119.0886S219
201	Theivasigamani, S., Jeyapriyanga, S., Sangeetha, S.	5721097868 1;572113865 06;57210434 131;	Active and trust based packet transfer method via route tracking for wireless sensor networks	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	221	224	10.35940/ijeat.F1 087.0886S219



202	Sundarraaj, B., Elankavi, R., Sangeetha, S.	5719575328 7;571941983 71;57210434 131;	Synthesizing multicast solutions using heterogeneous information	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	428	431	10.35940/ijrte.B1 364.0882S819
203	Thilrukshan, G., Pavithra, J., Sangeetha, S.	5721131196 7;569253654 00;57210434 131;	Customer relationship management with special reference to Swathi engineering in Chennai	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	461	465	10.35940/ijrte.B1 338.0882S819
204	Yugendhar, K., Sangeetha, S., Vimala, D.	5720462836 7;572104341 31;57210210 076;	Security in databases using cloud computing	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	568	570	10.35940/ijrte.B1 383.0882S819
205	Selva Priya, J., Jeya Priya, D., Sangeetha, S.	5721132260 7;572102216 31;57210434 131;	Secure nobility selection system for protected routing in MANETS	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	424	427	10.35940/ijeat.F1 064.0886S219
206	Yugendhar, K., Sangeetha, S., Vimala, D.	5720462836 7;572104341 31;57210210 076;	Tansy: Extensible, concurrent communication	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	564	567	10.35940/ijeat.F1 083.0886S219



207	Geetha, C., Mary Linda, I., Jeya Priya, D., Sangeetha, S.	57210212229;57210213200;57210221631;57210434131;	Improving the internet using signed methodologies	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	170	173	10.35940/ijeat.F1041.0886S219
208	Sangeetha, M., Balaji, S., John Paul Praveen, A.	57196353785;55310821000;57210196085;	Home energy conservation, monitoring and corrective techniques	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	637	640	10.35940/ijeat.F1047.0886S219
209	Kavitha, R., Sangeetha, S., Varghese, A.G.	56990849900;57210434131;57210979621;	Human activity patterns in big data for healthcare applications	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1101	1103	10.35940/ijeat.F1059.0886S219
210	Priya, N., Sangeetha, S., Amudha, S.	57190312145;57210434131;57217088432;	Activity pattern mining from social media for healthcare monitoring on big data	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	527	530	10.35940/ijrte.B1403.0882S819
211	Sangeetha, S., Anuradha, C., Priya, N.	57210434131;56049807400;57190312145;	DNS in real world	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	937	940	10.35940/ijrte.B1412.0882S819



212	Nalini, C., Amudha, S., Sangeetha, S.	5717280070 0;572170884 32;57210434 131;	Relationship identification & prediction of diseases association using micro- RNA of genomic data	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	109 3	1096	10.35940/ijrte.B1 442.0882S819
213	Kavitha, G., Kavitha, R., Jeya Priya, D.	5683030910 0;569908499 00;57210221 631;	Decoupling kernels from symmetric encryption in rasterization	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	615	618	10.35940/ijrte.B1 402.0882S819
214	Velvizhi, R., Sri Gowtham, S., Jeya Priya, D.	5721097700 0;572109797 26;57210221 631;	Examination of early feedbacks for effective product retailing on E- commerce websites	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	703	706	10.35940/ijrte.B1 441.0882S819
215	Selva Priya, J., Jeya Priya, D., Sangeetha, S.	5721132260 7;572102216 31;57210434 131;	Secure nobility selection system for protected routing in MANETS	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	424	427	10.35940/ijeat.F1 181.0886S219
216	Geetha, C., Mary Linda, I., Jeya Priya, D., Sangeetha, S.	5721021222 9;572102132 00;57210221 631;5721043 4131;	Improving the internet using signed methodologies	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	170	173	10.35940/ijeat.F1 259.0886S219
217	Shanmugapriya, K., Jeya Priya, D., Priya, N.	5721021050 0;572102216 31;57190312 145;	Image enhancement techniques in digital image processing	2019	International Journal of Innovative Technology and Exploring	8	9 Specia l Issue 3	111 2	1115	10.35940/ijrte.B1 402.0882S819



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218	Srinivasan, A., Sadagopan, S.	5719653164 1;572109767 76;	Rough fuzzy region based bounded support fuzzy C- means clustering for brain MR image segmentation	2020	Journal of Ambient Intelligence and Humanized Computing					10.35940/ijrte.B1 340.0882S819
219	Sadagopan, S., Kavitha, R., Sri Vidhya, S.R.	5721097677 6;569908499 00;57210983 258;	Compelling unification of forward-error correction and the turing machine	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	569	571	10.35940/ijitee.I3 240.0789S319
220	Priyadharshini, S.P., Velvizhi, R., Sadagopan, S.	5721138936 0;572109770 00;57210976 776;	Handy tech-medicine	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	207	209	10.35940/ijitee.I3 132.0789S319
221	Sri Vidhya, S.R., Kavitha, R., Sadagopan, S.	5721098325 8;569908499 00;57210976 776;	Certifiable, mobile configurations for the look aside buffer	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	432	435	10.35940/ijitee.I3 134.0789S319
222	Sri Vidhya, S.R., Priya, N., Sadagopan, S.	5721098325 8;571903121 45;57210976 776;	Congestion control a reality	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	841	844	10.35940/ijitee.I3 184.0789S319



223	Allin Geo, A.V., Nandhini, P., Sadagopan, S.	5610234280 0;572109759 67;57210976 776;	An understanding of IPv6 using Muck	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	399	402	10.35940/ijitee.I3 185.0789S319
224	Kavitha, G., Thooyamani, K.P., Sadagopan, S.	5683030910 0;368702839 00;57210976 776;	Decoupling checksums from access points in extreme programming	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	863	865	
225	Sadagopan, S., Krishnan, R.M.V., Sundarraj, B., Gowtham, S.S.	5721097677 6;571981865 80;57195753 287;5721098 1857;	Analysis of big data in healthcare applications	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	118 4	1188	
226	Kavitha, G., Geetha, C., Anita Davamani, K.	5683030910 0;572102122 29;57210209 037;	Testing of mobile systems using models	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	776	779	10.1007/s12652- 019-01672-w
227	Theivasigamani, S., Jeyapriya, D., Anita Davamani, K.	5721097868 1;572109812 71;57210209 037;	Anamoly analyzing and exploring for wireless sensor networks	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	111 6	1118	10.35940/ijeat.F1 056.0886S219
228	Amudha, S., Anita Davamani, K., Priya, N.	5721708843 2;572102090 37;57190312 145;	Big data confidentiality in healthcare	2019	International Journal of Innovative Technology	8	9 Specia l Issue 3	110 7	1111	10.35940/ijeat.F1 054.0886S219



					and Exploring Engineering					
229	Amudha, S., Elizabeth Shanthi, I.	57217088432;56938721600;	Phrase Based Information Retrieval Analysis in Various Search Engines Using Machine Learning Algorithms	2020	Advances in Intelligent Systems and Computing	1016		281	293	10.35940/ijrte.B1404.0882S819
230	Rajabhushanam, C., Velvizhi, R., Amudha, S.	54890714100;57210977000;57217088432;	Deep learning with multiband synthesis from landsat-8 satellite imagery using machine learning	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	163	165	10.35940/ijrte.B1473.0882S819
231	Geetha, C., Kavitha, S., Amudha, S.	57210212229;8375245300;57217088432;	Keying methods of using protocols for cryptography in wireless networks	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	631	637	10.35940/ijrte.B1395.0882S819
232	Pothumani, S., Priya, N., Amudha, S.	55315128900;57190312145;57217088432;	A novel method to analyze compilers	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	187	190	10.35940/ijrte.B1399.0882S819
233	Kavitha, R., Kavitha, G., Amudha, S.	56990849900;56830309100;57217088432;	The impact of mobile communication on E-voting technology	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	580	583	10.35940/ijitee.I3259.0789S319
234	Sivaranjani, N., Amudha, S., Mary Linda, I.	56604254200;57217088432;57210213200;	Automatic scoring system for evaluating comprehensive answers using key features	2019	International Journal of Engineering and Advanced	8	6 Special Issue 2	213	216	10.5373/JARDCS/V11/20192650



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235	Pothumani, S., Velvizhi, R., Amudha, S.	5531512890 0;572109770 00;57217088 432;	Learning through virtual environment	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	232	235	10.5373/JARDC S/V11/20192649
236	Velvizhi, R., Amudha, S., Kavitha, G.	5721097700 0;572170884 32;56830309 100;	Quality of service using IPv4	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	395	398	10.5373/JARDC S/V11/20192665
237	Geetha, C., Vimala, D., Amudha, S.	5721021222 9;572102100 76;57217088 432;	Portraying privacy leakage of public wifi systems for users on travel spam detection in social bookmarking system	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	420	423	10.5373/JARDC S/V11/20192594
238	Vimala, D., Kavitha, S., Amudha, S.	5721021007 6;837524530 0;572170884 32;	Decoupling model checking from IPv6 in multicast methodologies	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	667	671	10.5373/JARDC S/V11/20192571
239	Vimala, D., Kavitha, S., Amudha, S.	5721021007 6;837524530 0;572170884 32;	BitO: Improvement of journaling file systems	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	663	666	10.5373/JARDC S/V11/20192570



240	Padma Usha, M., Kannan, G., Ramamoorthy, M., Sharmila, M., Huzaifa Anjum, G.A., Hairunnisha, M.S.H.	5721889909 7;571969836 17;57210977 929;5721889 7595;572188 95235;57218 899671;	Multimodal brain image fusion using graph intelligence method	2020	International Journal of Research in Pharmaceutic al Sciences	11	2	271 3	2724	
241	Ramamoorthy, M., Ayyanathan, N., Usha, M.P., Franklin, S.	5721097792 9;561958113 00;57210981 980;5721097 7822;	Smart fast motion estimation processors	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	929	935	10.35940/ijeat.F1 280.0886S219
242	Ramamoorthy, M., Ayyanathan, N., Usha, M.P., Franklin, S.	5721097792 9;561958113 00;57210981 980;5721097 7822;	Robust time optimization in HD video surveillance system	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	923	928	10.35940/ijitee.I3 241.0789S319
243	Sundarraaj, B., Allin Geo, A.V., Muthu Venkata Krishnan, R.	5719575328 7;561023428 00;57210982 050;	Decoupling the turing machine from replication in IPv6	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	107 3	1076	10.35940/ijitee.I3 239.0789S319
244	Sundarraaj, B., Michael, G., Muthu Venkata Krishnan, R.	5719575328 7;569248005 00;57210982 050;	Emulating hierarchical databases and DHCP with hipe	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	106 9	1072	10.35940/ijitee.I3 135.0789S319



245	Muthu Venkata Krishnan, R., Sundarraj, B., Mary Linda, I.	57210982050;57195753287;57210213200;	The effect of replicated archetypes on machine learning	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	1065	1068	10.35940/ijitee.I3133.0789S319
246	Jeffrin Rajan, M., Muthu Venkata Krishnan, R., Sundarraj, B., Sri Gowtham, S.	57210983355;57210982050;57195753287;57210979726;	Exploration of the location-identity split	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Special Issue 3	751	754	10.5373/JARDCS/V11/20192615
247	Kavitha, G., Kavitha, R., Jeya Priya, D.	56830309100;56990849900;57210221631;	Decoupling kernels from symmetric encryption in rasterization	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	615	618	
248	Kavitha, G., Geetha, C., Anita Davamani, K.	56830309100;57210212229;57210209037;	Testing of mobile systems using models	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	776	779	10.1007/978-981-13-9364-8_21
249	Anuradha, C., Pothumani, S., Kavitha, G.	56049807400;55315128900;56830309100;	On the deployment of web browsers	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	274	277	10.35940/ijeat.F1042.0886S219
250	Kavitha, R., Kavitha, G., Mary Linda, I.	56990849900;56830309100;57210213200;	Reliable, constant-time, robust models for massive multiplayer online role-playing games	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	551	553	10.35940/ijeat.F1186.0886S219



251	Priya, N., Pothumani, S., Kavitha, G.	5719031214 5;553151289 00;56830309 100;	Modular configurations for RAID architecture	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	142	145	10.35940/ijeat.F1 048.0886S219
252	Mary Linda, I., Kavitha, G., Jayapriya, D.	5721021320 0;568303091 00;57210982 986;	Constructing duplication and 802.11B	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	459	462	10.35940/ijeat.F1 172.0886S219
253	Kavitha, G., Kavitha, R., Allin Geo, A.V.	5683030910 0;569908499 00;56102342 800;	Network monitoring on cloud environment using SDN	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	171	173	10.35940/ijeat.F1 057.0886S219
254	Kavitha, R., Kavitha, G., Amudha, S.	5699084990 0;568303091 00;57217088 432;	The impact of mobile communication on E- voting technology	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	580	583	10.35940/ijeat.F1 062.0886S219
255	Priya, N., Anuradha, C., Kavitha, G.	5719031214 5;560498074 00;56830309 100;	IPv4 architecture in randomized algorithms	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	150	153	10.35940/ijrte.B1 394.0882S819
256	Nandhini, P., Velvizhi, R., Kavitha, G.	5721097596 7;572109770 00;56830309 100;	Energy capable data collection mechanism in wireless sensor networks using mobile collectors	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	496	498	10.35940/ijrte.B1 401.0882S819



257	Michael, G., Sundar Raj, B., Kavitha, G.	5692480050 0;569254689 00;56830309 100;	A DHT-supported piece driven overlay for P2P live gushing	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	251	254	10.35940/ijrte.B1 463.0882S819
258	Krishna Bharathi, R., Kavitha, G., Mary Linda, I.	5721139091 2;568303091 00;57210213 200;	Literature on various anti- money laundering techniques	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	198	200	10.35940/ijrte.B1 462.0882S819
259	Kavitha, G., Thooyamani, K.P., Srividhya, S.R.	5683030910 0;368702839 00;57213197 175;	A case for link-level acknowledgements	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	852	855	10.35940/ijitee.I3 102.0789S319
260	Praveen Kumar, S., Peter, M., Kavitha, G.	5692511010 0;569245607 00;56830309 100;	Financial planning in Sims hospital	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	98	101	10.35940/ijitee.I3 106.0789S319
261	Kavitha, G., Thooyamani, K.P., Kavitha, R.	5683030910 0;368702839 00;56990849 900;	Comparing checksums by symmetric encryption	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	552	554	10.35940/ijitee.I3 235.0789S319
262	Anuradha, C., Pothumani, S., Kavitha, G.	5604980740 0;553151289 00;56830309 100;	Collaborative, multimodal modalities	2019	International Journal of Recent Technology and	8	2 Specia l Issue 8	195	198	10.35940/ijitee.I3 239.0789S319



					Engineering					
263	Vimala, D., Linda, I.M., Kavitha, G.	57210210076;57210979429;56830309100;	The influence of linear-time models on complexity theory	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	208	211	10.35940/ijitee.I3101.0789S319
264	Velvizhi, R., Amudha, S., Kavitha, G.	57210977000;57217088432;56830309100;	Quality of service using IPv4	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	395	398	10.35940/ijitee.I3173.0789S319
265	Velvizhi, R., Kavitha, G., Michael, G.	57210977000;56830309100;56924800500;	An examination of utmost programming with strenue synthesis	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	848	851	10.35940/ijitee.I3174.0789S319
266	Geetha, C., Mary Linda, I., Elankavi, R.	57210212229;57210213200;57194198371;	An exploration of fiber-optic cables	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	417	419	10.35940/ijitee.I3260.0789S319
267	Sri Vidhya, S.R., Kavitha, Elankavi, R.	57210983258;57213005446;57194198371;	The influence of stable methodologies on cyberinformatics	2019	International Journal of Recent Technology and Engineering	8	2 Special Issue 8	681	685	10.35940/ijitee.I3135.0789S319



					Engineering					
268	Arunachalam, A.R., Michael, G., Elankavi, R.	5604347830 0;569248005 00;57194198 371;	Cloud services for device utilization and optimization of hybrid network	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	403	407	10.35940/ijitee.I3 200.0789S319
269	Sundarraj, B., Elankavi, R., Sangeetha, S.	5719575328 7;571941983 71;57210434 131;	Synthesizing multicast solutions using heterogeneous information	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	428	431	10.35940/ijitee.I3 213.0789S319
270	Arunachalam, A.R., Michael, G., Elankavi, R.	5604347830 0;569248005 00;57194198 371;	Merkle hash tree with hash based digital signature for cloud data confidentiality and security	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	412	416	10.35940/ijitee.I3 199.0789S319
271	Velvizhi, R., Nandhini, P., Elankavi, R.	5721097700 0;572109759 67;57194198 371;	Biometric authentication in cloud computing	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	554	556	10.35940/ijitee.I3 137.0789S319
272	Arunachalam, A.R., Michael, G., Elankavi, R.	5604347830 0;569248005 00;57194198 371;	A case for context-free grammar	2019	International Journal of Innovative Technology and Exploring	8	9 Specia l Issue 3	867	870	10.1109/CTCEE C.2017.8455058



					Engineering					
273	Priyadharshini, S.P., Mahalakshmi, B., Michael, G.	57211389360;57218402633;56924800500;	Room temperature notification device	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	210	212	
274	Jeyapriyanga, S., Priyadharshini, S.P., Sangeetha, S.	57211386506;57211389360;57210434131;	Product label reading system for blind people using support vector machine algorithm	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	179	186	10.26452/IJRPS.V11I2.2293
275	Priyadharshini, S.P., Velvizhi, R., Sadagopan, S.	57211389360;57210977000;57210976776;	Handy tech-medicine	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	207	209	10.35940/ijitee.I3197.0789S319
276	Krishna Bharathi, R., Selva Banupriya, T., Jeyapriyanga, S.	57211390912;57211387462;57211386506;	IoT monitory system based smart trash management	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	195	197	10.35940/ijitee.I3196.0789S319
277	Krishna Bharathi, R., Kavitha, G., Mary Linda, I.	57211390912;56830309100;57210213200;	Literature on various anti-money laundering techniques	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	198	200	10.1109/TCOMM.2018.2849729
278	Sivaranjani, N., Amudha, S., Mary Linda, I.	56604254200;57217088432;57210213200;	Automatic scoring system for evaluating comprehensive answers using key features	2019	International Journal of Engineering and Advanced	8	6 Special Issue 2	213	216	



			(ASCA)		Technology					
279	Sivaranjani, N., Jayabharathy, J., Safa, M.	5660425420 0;514616519 00;57200152 093;	A Broad View of Automation in Legal Prediction Technology	2019	Proceedings of the 3rd International Conference on Electronics and Communicati on and Aerospace Technology, ICECA 2019			180	185	10.35940/ijitee.I3 231.0789S319
280	Meenakshi, K., Safa, M., Karthick, T., Sivaranjani, N.	5720031275 1;572001520 93;57201700 942;5660425 4200;	A novel study of machine learning algorithms for classifying health care data	2017	Research Journal of Pharmacy and Technology	10	5	142 9	1432	10.35940/ijitee.I3 230.0789S319
281	Priyadharshini, S.P., Mahalakshmi, B., Michael, G.	5721138936 0;572184026 33;56924800 500;	Room temperature notification device	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	210	212	10.35940/ijitee.I3 229.0789S319
282	Jeyapriyanga, S., Mahalakshmi, B., Anuradha, C.	5721138650 6;572184026 33;56049807 400;	Spam detection in twitter using machine learning algorithms	2019	International Journal of Engineering and Advanced Technology	8	6 Specia l Issue 2	174	178	10.35940/ijitee.I3 155.0789S319



283	Srividhya, E., Muthukumaravel, A.	5664472880 0;560442991 00;	Feature Extraction of Tongue Diseases Diagnosis Using SVM Classifier	2019	Proceedings of 2019 International Conference on Computational Intelligence and Knowledge Economy, ICCIKE 2019			260	263	10.35940/ijrte.B1 400.0882S819
284	Srividhya, E., Muthukumaravel, A.	5664472880 0;560442991 00;	Diagnosis of Diabetes by Tongue Analysis	2019	Proceedings of 2019 International Conference on Computational Intelligence and Knowledge Economy, ICCIKE 2019			256	259	10.35940/ijrte.B1 466.0882S819
285	Srividhya, E., Muthukumaravel, A.	5664472880 0;560442991 00;	Diabetic detection using tongue images based on ANNclassification	2019	International Journal of Engineering and Advanced Technology	9	1	270 4	2710	10.35940/ijrte.B1 396.0882S819
286	Srividhya, E., Muthukumaravel, A.	5664472880 0;560442991 00;	Diagnosis of Diabetes by Tongue Analysis	2019	1st IEEE International Conference on Advances in Information			217	222	10.35940/ijrte.B1 403.0882S819



					Technology, ICAIT 2019 - Proceedings					
287	Ramasubramanian, M., Rangaswamy, M.A.D., Srividhya, E.	56644491200;55411918500;56644728800;	Cloud based processing of multimedia in mobile application	2015	Proceedings - NCET NRES EM 2014: 2nd IEEE National Conference on Emerging Trends in New and Renewable Energy Sources and Energy Management			123	129	10.35940/ijrte.B1398.0882S819
288	Sivaraman, K., Kavitha, R., Anuratha, C.	56925016000;56990849900;57210977659;	Information security in cloud computing utilizing fully homomorphic encryption techniques	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	679	683	10.35940/ijitee.I3108.0789S319
289	Sivaraman, K., Neduncheliyan, S., Kaliyamoorthi, K.P.	56925016000;17435408500;55607260600;	An computerized health check token system engineering using arduino kit	2019	International Journal of Engineering and Advanced Technology	8	6 Special Issue 2	93	95	10.35940/ijitee.I3183.0789S319
290	Michael, G., Sivaraman, K., Sundar Raj, B.	56924800500;56925016000;56925468900;	Symmetric Encryption and Scatter/Gather I/O Using KAMWEB	2019	International Journal of Recent Technology and	8	2 Special Issue 8	707	710	10.35940/ijitee.I3182.0789S319



					Engineering					
291	Arunachalam, A.R., Michael, G., Sivaraman, K.	5604347830 0;569248005 00;56925016 000;	Detection of byzantine replication attack using TTCB	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	539	544	10.35940/ijitee.I3 109.0789S319
292	Mary Linda, I., Vimala, D., Sivaraman, K.	5721021320 0;572102100 76;56925016 000;	The upshot of omniscient strategies on steganography	2019	International Journal of Recent Technology and Engineering	8	2 Specia l Issue 8	703	706	10.35940/ijitee.I3 175.0789S319
293	Sivaraman, K., Krishnan, R.M.V., Sundarraaj, B., Sri Gowthem, S.	5692501600 0;571981865 80;57195753 287;5720172 4525;	Network failure detection and diagnosis by analyzing syslog and SNS data: Applying big data analysis to network operations	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	883	887	10.35940/ijitee.I3 203.0789S319
294	Sivaraman, K., Geo, A.V.A., Michael, G., Pothumani, S.	5692501600 0;572109808 03;56924800 500;5531512 8900;	Online polling scheme	2019	International Journal of Innovative Technology and Exploring Engineering	8	9 Specia l Issue 3	879	882	10.35940/ijitee.I3 202.0789S319
295	Sundarraaj, B., Sivaraman, K., Geo, A.V.A., Michael, G.	5719575328 7;569250160 00;57210980 803;5692480 0500;	Decoupling web services from the transistor in expert systems	2019	International Journal of Innovative Technology and Exploring	8	9 Specia l Issue 3	893	897	10.35940/ijitee.I3 265.0789S319



					Engineering					

Academic Year: 2018-2019

Table 5.8.1.b

S. No	Author	Title	Volume no	Issue no	Year	Page no	Publisher
1	P. Arumugam, Sangeetha S., T. Krishna Kumar	Game-Theoretic, Cooperative Technology for Congestion Control	8	Issue-5	June 2019	1259-1262	International Journal of Engineering and advanced technology
2	S.R.Srividhya,P.Arumugam	Improvement of Active Networks	8	Issue-5	June 2019	1255-1258	International Journal of Engineering and advanced technology
3	R. Kavitha, S. Sangeetha	The Influence of Cooperative Models on Replicated Cryptanalysis	8	Issue-5	June 2019	1231-1234	International Journal of Engineering and Advanced Technology
4	S.R.Srividhya , S S.Sangeetha	Atomic, Read-Write Configurations	8	Issue-5	June 2019	1216-1219	International Journal of Engineering and Advanced Technology
5	R.Kavitha, S.R.Srividhya	Authenticated Toll Collection and Tracking of Vehicles using RFID	8	Issue-8	June 2019	3414-3416	International Journal of Innovative Technology and Exploring Engineering
6	S.R.SriVidhya, S.Pothumani	Investigating Hierarchical Databases and Congestion Control	8	Issue-8	June 2019	3417-3420	International Journal of Innovative Technology and Exploring Engineering
7	D.Vimala, S.Kavitha	Enabling Vacuum Tubes and the Turing Machine	8	5	June 2019	1220-1222	International Journal of Engineering and Advanced Technology (IJEAT)



8	S.Pothumani, Dr.R.Kavitha	A Novel method for Bridge Safety Monitoring System	8	5	June 2019	1270- 1272	International Journal of Engineering and advanced technology
9	C.Anuradha,N.Priya	Blockchain: Can Be Game Changer for IoT Data	8	5	June 2019	1263- 1265	International Journal of Engineering and advanced technology
10	K.M.Azaraffali, K.Shanmugapriya, T.Krishnakumar	Decoupling Redundancy from Wide-Area Networks in Smgs	8	5	2019	2249- 8958	International Journal of Engineering and Advanced Technology (IJEAT)
11	<i>K. Rajakumari, Dr.C. Nalini</i>	<i>The Different Collections of ORL-Dataset with 3d Face Recognition</i>	11	6	2019		Jour of Adv. Research in Dynamical & Control Systems
12	<i>K. Rajakumari, Dr.C. Nalini</i>	<i>The Different Analysis of PCA and LDA under Face Recognitions Techniques</i>	11	6	2019		Jour of Adv. Research in Dynamical & Control Systems
13	C. Nalini T. Poovizhi	Opinion Mining for Travel Route Recommendation using Social Media Networks (Twitter)	8	5	2019		International Journal of Engineering and Advanced Technology (IJEAT)
14	C. Nalini, Ragavi K, Dileep Kumar Padidem	Process Mining to predict Type of Customer Behavior	8	5	2019		International Journal of Engineering and Advanced Technology (IJEAT)
15	A.Rama, Dr.C.Nalini	Enhancing Classification Accuracy by Attribute Reduction Technique	7	6	2019	1248- 1250	International Journal of Recent Technology and Engineering (IJRTE)
16	G.Lakshmivara Prasad	Dynamic clustering Based on MAC protocol for power and delay aware node selection	7	6	2019		International Journal of Recent Technology and Engineering (IJRTE)
17	K.Rajakumari, Dr. C.Nalini	An Evaluation of Face Recognition by using Principal	7	6	2019		International Journal of Recent Technology and



		Component Analysis with Support Vector machine					Engineering
18	Krishna T.H., Dr. C. Rajabhushanam	Breast cancer prognosis with Apache spark Random Forest Pipeline	8	1	2019	275-277	International Journal of Recent Technology and Engineering
19	I Mary Linda, D. Vimala	Facet of Image Matriculation in Cardinal Image Handling	8	5	2019	1266-1269	International Journal of Engineering and Advanced Technology (IJEAT)
20	C Geetha , Anita Davamani K	Deploying Extreme Programming Using Concurrent Symmetries	8	5	2019	2249-8958	International Journal of Engineering and Advanced Technology (IJEAT)
21	Dr.D.Kerana Hanirex, N D Deepaa Dr.A.MuthuKumaravel	An adaptive approach to use data mining tools using Data mining tools	11	02-Special Issue,	2019	1586-1591	Jour of Adv Research in Dynamical & Control Systems
22	Dr.D.Kerana Hanirex, V.Brindha, Dr.A.MuthuKumaravel	KNN classification for encrypted data in cloud	11	02-Special Issue,	2019	1623-1628	Jour of Adv Research in Dynamical & Control Systems
23	S.Anupriya, Dr.D.Kerana Hanirex, V.Ramya	Fuzzy particle swarm optimization and Fuzzy C optimization Algorithm for Heart Disease dataset	11	02-Special Issue,	2019	1600-1608	Jour of Adv Research in Dynamical & Control Systems

Academic Year: 2017-2018

Table 5.8.1.c



S. No	Author	Title	Volume no	Issue no	Year	Page no	Publisher
1	G.kavitha, Dr.K.P.Thooyamani	UTINY ON WEB APPLICATION PERFORMANCE TESTING TOOLS	8	3	Dec 2018	206-211	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
2	Shwetambari Kharabe, C.Nalini	Survey on finger-vein segmentation and authentication	7	12	2018	9-14	International Journal of Engineering & Technology
3	.Vimala,Dr. V.Khanna, Dr.C.Nalini	A determinant fuzzy approach for intrusion detection system	7	19	2018	245-249	International Journal of Engineering & Technology
4	A.Sangeetha, C.Nalini	Ranking based on keywords extractions in the web			2018	290-292	International Journal of Engineering & Technology
5	S.V.GayathiriDevi, C.Nalini, N.Kumar	An efficient software verification using multi-layered software verification tool			2018	454-457	International Journal of Engineering & Technology
6	G.Lakshmi Vara Prasad, T.Nalini, Rajendran Sugumar	Mobility aware MAC protocol for providing energy efficiency and stability in mobile WSN	18	3	2018		International Journal of Networking and Virtual Organisations
7	G Lakshmi Vara Prasad, Dr. C. Nalini, Dr. R. Udayakumar	Power and Delay aware Relay Node Selection Algorithm for Cluster based Mobile Wireless Sensor Networks	17	6	2018	1862-1874	Journal of Web Engineering
8	G. Lakshmi Vara Prasad T. Nalini	Mobility aware MAC protocol for providing energy efficiency and stability in mobile WSN	18	3	2018	183-195	International Journal of Networking and Virtual Organisations



9	Dr. C. Rajabhushanam and T. Poozizhi	A Review on vertical partitioning in OLTP of nested transaction	3	4	2018	204-209	International Journal of Innovative Research in Management, Engineering and Technology
10	Dr. C. Rajabhushanam, RashmiChetry	Privacy protection for preventing data over-collection in smart city	3	4	2018	210-214	International Journal of Innovative research in Management, Engineering and Technology
11	Swati Shirke Dr. C. Rajabhushanam	Review of Iris Recognition with ANN	3	4	2018	219-221	International Journal of Innovative research in Management, Engineering and Technology
12	Kavitha, R , Dr.R.Nedunchelian,	“Domain-Specific Search Engine Optimization using Healthcare Ontology and a Neural Network Backpropagation Approach”	1	2	2017	157-166	Research Journal of Biotechnology



Academic Year: 2016-2017

S. No	Author	Title	Volume no	Issue no	year	Page no	Publisher
1	Dileep Kumar Padidem, Dr.C.Nalini	Process mining approach to discover shopping behavior process model in ecommerce web sites using click steak data	8	1	2017	948–955	International Journal of Civil Engineering and Technology
2	T.Ravichandran, Dr.Krishna Mohanta, Dr.C.Nalini, Dr.P.Balamurugan	Literature survey on search term extraction technique for facet data mining in customer facing website	8	1	2017	956–960	International Journal of Civil Engineering and Technology
3	G.LakshmiVara Prasad, Dr.C.Nalini, Dr.R.Sugumar	Arbitrary Routing algorithm for tenable data assortment accessed in wireless sensor networks	8	1	2017		International Journal of Civil Engineering and Technology
4	G.Ayyappan, Dr.C.Nalini. Dr.A.Kumaravel	Efficient mining for social networks using information gain ratio based on academic dataset	8	1	2017	936–942	International Journal of Civil Engineering and Technology
5	K.Boopalan, C.Nalini,	Mining opinions about traffic sttus using twitter messages	8	2	2017	218–225	International Journal of Civil Engineering and



	A.Rajesh						Technology
6	G.Ayyappan, Dr.C.Nalini. Dr.A.Kumaravel	Construction of meta classifiers for academic research data from social networks	8	3	2017	432–440	International Journal of Civil Engineering and Technology
7	S.MaheshKumar, Dr.S.Sivasubramanian, Dr.C.Nalini	Storage optimization in cloud environment using Data De-Duplication	15	6	2017	357-361	International Journal of Computer Science and Information Security
8	A.Sangeetha, Dr.C.Nalini	A Novel Approach: Various Classifications in web mining using diagnosis of faults in electro mechanical devices from vibration measurements	8	10	2017	65–70	International Journal of Mechanical Engineering and Technology
9	S.kalaivany, Dr.T.Nalini	Schmidt-samoa public key encryption based on enhanced boosting algorithm for secure cloud data confidentiality	14		2017	1725-1734	Journal of Advanced Research in Dynamical and control systems
10	R.G.Suresh Kumar T.Nalini	Building a Dynamic Virtual machines using KBR agent for data security in Hybrid cloud	12		2017	9400-9404	Journal of Engineering and Applied Science
11	K. Anita Davamani, Dr. C. R. Rene Robin	Novel Sentiment Analysis Technique in Disease Classification	11	5	2017	19-25	AENSI Journals, Advances in Environmental Biology
12	Dr. C. Rajabhushanam Raghupathy	Assertive triad foundation for web data abstraction	116	9	2017	7-11	International Journal of Pure and Applied Mathematics
13	Dr. C. Rajabhushanam	A study of data mining	116	15	2017	265-	International Journal of



	Yasvand Cummar	applications in banking				271	Pure and Applied Mathematics
14	Dr. C. Rajabhushanam and Sundar	Thick client web application prototype	116	10	2017	127-131	International Journal of Pure and Applied Mathematics
15	Dr. C. Rajabhushanam and ShaikYasmin	Analysis of Linux operating system as a weighted graph network	116	15	2017	279-285	International Journal of Pure and Applied Mathematics
16	Kavitha, R, Dr.R.Nedunchelian,	“Study on Search Engine Optimization Technique in Health Care System using Cloud Data.	13	6	2016	432-441	, Research Journal of Applied Sciences”, Engineering and Technology
17	Kavitha, R., Kavitha, G	“An organization for software distinct networks based on Many-valued logic”	9	2	2016	439-442	Journal of Chemical and Pharmaceutical Sciences
18	Kavitha, G., Kavitha, R	“An analysis to improve throughput of high-power hubs in mobile ad hoc network”	9	2	2016	361-363	Journal of Chemical and Pharmaceutical Sciences
19	Kavitha, G., Kavitha, R	“Dipping interference to supplement throughput in MANET”	9	2	2016	357-360	Journal of Chemical and Pharmaceutical Sciences
20	Kavitha, R., Kavitha, G	“Disguise and request diversion using montocorlo method	9	2	2016	437-438	Journal of Chemical and Pharmaceutical Sciences
21	Kavitha, R., Kavitha, G	“Rationale of computer security using a-priori algorithm”	9	2	2016	443-445	Journal of Chemical and Pharmaceutical Sciences
22	D.Kerana Hanirex, Dr.K.P.Thooyamani,	Performance of Association Rules for Dengue Virus	8		Jun-17	2578-2587,	IJPSR, Thomson Reuters-Web of Science



	Dr.V.Khanaa	Type1 Amino Acids using an Integration of Transaction Reduction and Random Sampling (TRRS)Algorithm					
23	D.Kerana Hanirex, Dr.K.P.Kaliyamurthie	Architecture and Security Issues on Internet of Things (IOT)	11	No. 8	2017	35-38	International Journal of Pure and Applied Mathematics
24	D.KeranaHanirex, Dr.K.P.Thooyamani	An analysis on adult dataset in a decision tree using rapid miner tool	9	Issue 2	April - June 2016		Journal of Chemical and Pharmaceutical Sciences
25	D.Kerana Hanirex, Dr.K.P.Kaliyamurthie	Mining Frequent Itemsets in Association Rule Mining Using Improved SETM Algorithm	Volume 394, pp.		Feb-16	765-773	Springer: Artificial Intelligence and Evolutionary Computations in Engineering Systems, Advances in Intelligent Systems and Computing
26	S.Vimala, D.Kerana Hanirex, K.P.Kaliyamurthie	A Study of Efficient Algorithms for Fast Recovery of Frequent Itemset Mining	5	Issue-1	2016		International Journal of Advanced Computer Engineering and Communication Technology
27	S.Vimala, D.Kerana Hanirex, K.P.Kaliyamurthie	Privacy Preserving Frequent Itemset Mining Using SRD Technique in Retail Analysis	5	Issue-1,	2016		International Journal of Advanced Computer Engineering and Communication Technology

B. Ph.D. guided /Ph.D. Awarded during the Assessment Period while working in the Institute

The Department Faculty members, apart from involving themselves in research activities, they also guide other faculty members for doing research. They impart their technical knowledge to their research scholars. The supervisors and the number of research scholars are listed below:



S.N O	REG NO	NAME	DATE OF VIVA	SUPERVISOR NAME	TOPIC
1	D09CS003	NikkathBushra S	22 nd Mar 2017	Dr. A. Chandrasekar	Anonymization based privacy preservation over cloud data using incremental clustering and map reduce approach on big data
2	D10CS001	AR Arunachalam	2 nd May2017	Dr. A. Chandrasekar	Improving query search performance in unstructured P2P networks using proclamation-based search algorithm
3	D10CS002	G.Michael	28 th June 2018	Dr. A. Chandrasekar	Studies on efficient protocols and predictions for malware detection
4	D11CS012	PallabDutta	21 st Apr 2017	Dr. A. Kumaravel	Studies on context aware trust-based recommender system
5	D10CS010	T.Lavanya	1 st Sep 2017	Dr. A. Kumaravel	Studies on design of ensembles for efficient learning of diabetes dataset
6	D13CS016	R.Thamizharasan	7 th Mar 2018	Dr. A. Kumaravel	Studies on the patterns for the software development processes using datamining techniques
7	D13CS020	Therese Yamuna Mahesh	27 th June 2018	Dr. A. Kumaravel	Classification of the 'Eye' Features for Human Identification and Disease symptoms
8	D14CS022	John Basha M	4 th Oct 2019	Dr. A. Kumaravel	Analysis of Novel Clustering Approaches for Web Documents Retrieval
9	D13CS014	Chilamakuru Raghavendra	20 th Jan 2020	Dr. A. Kumaravel	Enhanced Image Processing Techniques for Iris Based and Multimodal induced Security



10	D14CS03 6	S. Siva Shankar	21 st Dec 2018	Dr. A. Rengarajan	Significance Of Steganography In Network Security
11	D12CS00 8	S.Brintha Rajakumari	22 nd June 2018	Dr. C. Nalini	Mining Analysis of Toxic Metals in Indian River Water Data Based on Horizontal Aggregation
12	D13CS00 3	G.Ayyappan	11 th July 2018	Dr. C. Nalini	Social Network Mining for Learning Research Community Contribution Patterns
13	D12CS00 9	Dileepkumar Padidem	07 th Dec 2018	Dr. C. Nalini	Work Flow Model Conformance & Extension in Business Process using Process Mining Techniques
14	D13CS00 8	A. Sangeetha	25 th Feb 2019	Dr. C. Nalini	A Study on Personalized Web Search Based on User Profile Using Ontology Mapping and Ranking
15	D13CS00 6	Rama J	30 th May 2019	Dr. C. Nalini	Development of CNN Based on Deep Learning and Image Pre-Processing
16	D13CS00 5	Rajakumari K	9 th Aug 2019	Dr. C. Nalini	A Novel Approach for Face Recognition Technique Using Various Pattern Models and Enhancing their Performance
17	D14CS54 2	Kharabe Shwetaambari Ravindra	6 th Sep 2019	Dr. C. Nalini	Gradient Boosted Non-rigid Registration for Finger Vein Authentication
18	D13CS52 0	A.Usha Ruby	16 th Aug 2017	Dr. J. George Chellin	A Novel Approach for Face Recognition with Single Sample Image per Class
19	D09CS00 1	Balakrishnan S.	28 th Sep 2017	Dr. K. L. Shanmuganathan	Study of Framework and Categories of Agent Based Intelligent Systems
20	D13CS51	Thirunavukkarasu S	5 th Dec 2019	Dr. K. P.	Design of Network Traffic Models for Optimal



	9			Kaliyamurthie	Management
21	D13CS51 4	S.Sheik Faritha Begum	21 st Nov 2017	Dr. K.P. Kaliyamurthie	Multi Objective Clustering and Optimization
22	D13CS50 1	Anjali Milind Naik	2 nd Aug 2019	Dr. K.P. Kaliyamurthie	Development of Intelligent Algorithm to Find Osteoporosis Susceptibility from Orthopantomogram
23	D10CS00 4	D.KeranaHanirex	16 th Jun 2017	Dr. K.P. Thooyamani	Association Pattern Mining For Efficient Generation of Frequent Item sets In Dengue Virus Type 1 For Drug Discovery Using An Integration Of Transaction Reduction And Random Sampling (TRRS) Algorithm
24	D14CS52 0	Rukkumani C	11 th Oct 2019	Dr. Krishna Mohanta	Dynamic Trust Management for Energy Balance Reliable Data Stream Over Delay Tolerant Networks
25	D14CS52 5	Govindaraj S	3 rd Jan 2020	Dr. Krishna Mohanta	An Efficient Dynamic Load Balancing Techniques for Peer to Peer Networks
26	D14CS53 3	Dhaigude Tanaji Anandrao	05 th Mar 2019	Dr. LathaParthiban	Energy & Bandwidth Efficient Secure Wireless Sensor Network Using Enhanced OMRA algorithm
27	D08CS01 8	Ahmed Mudassar Ali	5 th Oct 2017	Dr. M. Ramakrishnan	Equipped Search Results Using Machine Learning From Web Databases
28	D14CS54 0	Subasree S	6 th Dec 2019	Dr. N.P. Gopalan	Development of Efficient Data Mining Techniques for Cancer Genomic Patterns Classification and Prediction
29	D13CS51 3	P.J. Sathish kumar	07 th Feb 2019	Dr. R. JagadeeshKannan	Enhanced Medical Diagnosis Using Hybrid Algorithm in Data Mining for Drugs Recommendation



30	D13CS51 3	P.J. Sathish kumar	07 th Feb 2019	Dr. R. JagadeeshKannan	Enhanced Medical Diagnosis Using Hybrid Algorithm in Data Mining for Drugs Recommendation
31	D13MS5 15	Venkatesh Gobi V	3 rd Dec 2019	Dr. S. Raja Sankar	Effect of Active Compounds of Agaricus Against Experimentally induced Parkinson's Disease
32	D13CS51 0	S. Magesh Kumar	20 th Dec 2018	Dr. S. Sivasubramaniam	An Integrated Framework For Cloud Storage System To Handle Data And Resource Management
33	D13CS51 7	K. Sriprasadh	11 th Jan 2019	Dr. S. Sivasubramaniam	Secure Data Transaction And Access In Cloud Computing
34	D13CS01 5	Karpagam P	24 th June 2019	Dr. S. Sivasubramanian	Analyze the Impact of Emerging Terms in Semantic Similarity for Effective Data Mining Applications
35	D10CS00 7	Surendra Anil Mahajan	3 rd May2017	Dr. S.D. Joshi	Optimized test case prioritization for component based software testing with genetic algorithmic approach
36	D11CS01 3	V. Akila	04 th Jan 2019	Dr. T. Sheela	An Efficient Packet Scheduling With Tdma Technique For Secure Data Merge In Wireless Sensor Networks
37	D12CS00 7	S.Christy	15 th May 2017	Dr. V. Khanaa	Data mining in the prediction of impacts of ambient air quality data analysis in urban and industrial area
38	D13CS01 9	P.Kiran Kumar	29 th June 2018	Dr. V. Khanaa	A study on the Enhancement of Advanced Software Architecture Visualization in secure Design pattern
39	D11CS01 8	K.G.S. Venkatesan	12 th Oct 2018	Dr. V. Khanaa	A Study on Implementation of ARS in Wireless Mesh Networks for Efficient Energy Transmission



40	D09CS00 6	Koyi Lakshmi Prasad	7 th Sep 2018	Dr. V. Khanaa	Theoretical and Experimental Investigation on Multi-Zone Modeling of Digital Watermarking Schemes
41	D12CS00 3	R. Srikkanthan	03 rd Dec 2018	Dr. V. Khanaa	The Ad-Hoc Networks in Security- Sensitive Applications using Tam:A Tiered Authentication of Multicast Protocol
42	D13CS00 2	T. Thanigasalam	08 th Mar 2019	Dr. V. Khanaa	Enhancement of Security for the Topology Maintenance Protocols in WSN
43	D14CS52 3	Vimala S	18 th June 2019	Dr. V. Khanaa	A Study on Supervised Machine Learning Algorithm to Improvise Intrusion Detection Systems for Mobile Ad-hoc Networks
44	D13CS50 5	K. Boopalan	29 th Oct 2018	Dr.C.Nalini	Mining Opinions about Traffic Status in Tweets Using Sentiment Analysis
45	D13CS50 2	Bala Subramanian M	27th June 2019	Dr.K.Sudhagar	Hybrid Approach to Design the Navigation Controller for Autonomous Mobile Robot
46	D13CS50 2	Bala Subramanian M	27th June 2019	Dr.K.Sudhagar	Hybrid Approach to Design the Navigation Controller for Autonomous Mobile Robot
47	D13CS50 2	Bala Subramanian M	27th June 2019	Dr.K.Sudhagar	Hybrid Approach to Design the Navigation Controller for Autonomous Mobile Robot

5.8.2. Sponsored Research

- from an agency.it are anticipated that the research will result in a deliverable product of commercial importance to the society.



S. No.	Title of Project	Funding Agency	Faculty In-Charge	Amount	Period	Status

▪ The on-going sponsored research projects are listed below

▪ The department is equipped with

advance research laboratories to work on projects. Research and Projects are often undertaken on the basis of a competitive bid for funds



1	Deep Learning from Image Fusion of Landsat-8 and Cartosat-2 Satellite Imagery, with Multi-band Synthesis, using Category (Layers) based Deep Convolutional Neural Networks.	DST	Dr.C.Rajabhushanam	8,50,000	2019–2022	Ongoing
2	A study on Impact Analysis of Waste Management using Big Data Analytics	Core Research Grant	Dr.C.Nalini	10,00,000	2019 – 2022	Ongoing
3	Study and Implementation of Breath Analysis System predict verity of Dieses using machine learning Techniques	Core Research Grant	Dr.C.Nalini	25,12,000	2019 – 2022	Ongoing
4	A Novel Technique for multipass soft computing in FIS-A Geoprocessing Toolbox for Analysis of Change Detection , from Landsat-8 Satellite Imagery.	Pranav Communication s Pvt Ltd	Dr.C.Rajabhushanam, Dr.G.Micheal	8,50,000	2019-2022	Ongoing
5	Youth Employment and Skills Development Project	DST grant	Mrs. C. Geetha	8,00,000	2019-2022	Ongoing
6	Deep Learning with Multiband Synthesis from Landsat-8 Satellite Imagery, using Machine Learning and Convolution Neural Networks	DST	Dr.C.Rajabhushanam	3,19,500	2019–2022	Ongoing
7	Precision Farming for vertical scaling-up economics of cotton yield production in South India, using Machine learning, AI and Spatial databases	DST - NSDI	Dr.C.Rajabhushanam	8,00,000	2019 – 2021	Ongoing
8	Indo-Russia-DST-Telecom-CSE-IIOT-Research Proposal	DST - Telecom	Dr.C.Rajabhushanam	6,00,000	2019 – 2021	Ongoing
9	Scale-Space Hierarchical Based	Project Proposal	Dr.C.Rajabhushanam	8,50,000	2019 –	Ongoing



	Representational Measures for Estimating Land Cover	for Professional Practice in Geospatial Sciences			2021	
10	Multiband Synthesis learning from Landsat 8 Using Machine Learning	DST	Dr.C.Rajabhushanam	14,00,000	2019 – 2021	Ongoing
11	FIS-A Geoprocessing Toolbox for Predicting Climate Change with Spatio-Temporal Databases	DST	Dr.C.Rajabhushanam	11,50,000	2019 – 2021	Ongoing
12	Sensor Networks and Web Enablement	NRDMS	Dr.C.Rajabhushanam	11,50,000	2018 – 2021	Ongoing
13	Design of Spatio-Temporal Data Archival and Retrieval for Big-Data Satellite Imagery: Use Cases	DST - Core Research Grant	Dr.C.Rajabhushanam	13,97,500	2018 – 2021	Ongoing
14	An Internet Of Things (IOT) For Predicting The In-Health Of The Human Body	DST grant	Mrs.S.Pothumani	14,70,000	2018 – 2021	Ongoing
15	An Intelligent Traffic Information System based on Internet of Things (IOT)	DST grant	Mrs.R. Velvizhi	3,00,000	2018 – 2021	Ongoing



5.8.3. Development Activities Product Development

Students and faculty members have contributed towards development of various products, few of which are given as follow

CSE- Patterns 2015-2020

S.No.	Filing date	Application number	Published in year	Title of the Invention	Inventors
1	30.07.2015	3901/CHE/2015	pub 14.08.2015	Baby Monitoring machine to Phone	Dr.Kaliyamoorthie, Fathima and Gowtham
2	17.07.2015	3664/che/2015	pub 31.07.2015	Bus route detecting smart system for blinds	Dr.M.Gireeshan and Dr.T.Krishnakumar
3	17.07.2015	3673/che/2015	pub 31.07.2015	Overweight detection system of boat	Dr.M.Gireeshan and Dr.T.Krishnakumar
4	17.07.2015	3670/che/2015	pub 31.07.2015	e-drivingdrink system	Dr.M.Gireeshan and Dr.T.Krishnakumar
5	17.07.2015	3669/che/2015	pub 31.07.2015	Cam e-detector	Dr.M.Gireeshan and Dr.T.Krishnakumar
6	17.07.2015	3671/che/2015	pub 31.07.2015	gold chain theft detector	Dr.M.Gireeshan and Dr.T.Krishnakumar
7	17.07.2015	3668/che/2015	pub 31.07.2015	Smart wifi number plate	Dr.M.Gireeshan and Dr.T.Krishnakumar
8	17.07.2015	3665/che/2015	pub 31.07.2015	MG lifesaver system	Dr.M.Gireeshan and Dr.T.Krishnakumar
9	17.07.2015	3672/che/2015	pub 31.07.2015	Excess case recognising system	Dr.M.Gireeshan and Dr.T.Krishnakumar

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(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

10	17.07.2015	3666/che/2015	pub 31.07.2015	MGE-helmet	Dr.M.Gireeshan and Dr.T.Krishnakumar
11	17.07.2015	3667/che/2015	pub 31.07.2015	New generation farm system	Dr.M.Gireeshan and Dr.T.Krishnakumar
12	28.10.2015	5788/che/2015	pub 13.11.2015	GPS Based Bag	Dr.K.P.Kaliyamurthie, Dr.J.Hameed Hussain, Dr.M.Prem Jeyakumar
13	07.08.2017	201741027949	pub 15.09.2017	SMART PHONE HOME APPLIANCES REMOTE	Dr.V.Khanaa & Dr. A.Kumaravel
14	26.12.2018	201841049183	pub 02.08.2019	Oxygen Carbon dioxide indicator in mobile phone networking	P.Arumugam, Dr.T.Krishnakumar, Dr.A.Kumaravel
15	26.12.2018	201841049205	pub 02.08.2019	Thermal/Fire Sensor Camera Switch	1. Mr.K.M.Azaraffali, 2. Dr.T.Krishnakumar and 3. Dr.K.P.Kaliyamoorthy
16	27.12.2018	201841049246	pub 02.08.2019	Super market basket detecting and Immediate billing system	Mr.M.Sivachandran, Dr.T.Krishnakumar, Dr.J.Hameed Hussain
17	27.12.2018	201841049248	pub 02.08.2019	Electronic purse with mobile phone pairing	Mrs.N.Priya, Dr.A.Kumaravel, Ms.P.Kavitha
18	27.12.2018	201841049255	pub 02.08.2019	Low cost Bluetooth green house monitoring	Mr.K.Sivaraman, Dr.V.Khanaa, Dr.C.Rajabhushanam
19	27.12.2018	201841049269	pub 02.08.2019	WSN smart booking parking system	Mrs. Saravana, Dr.S.Arulselvi
20	27.12.2018	201841049499	pub 19.07.2019	Wearable biometric authentication based on human body communication	Mrs.A.Rama, Dr.C.Nalini, Dr.C.Rajabhushanam
21	27.12.2018	201841049501	pub 19.07.2019	Accurate indoor localization based on the inertial navigation	Mr.A.Stephan Anto Jegan, Dr.K.P.Kaliyamurthie
22	28.12.2018	201841049760	pub 19.07.2019	A Non-Invasive Remote Health Monitoring System Using Visible Light Communication	Mrs.C.Anuradha, Dr.C.Rajabhushanam

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(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

23	29.12.2018	201841049763	pub 19.07.2019	Data Transfer Load Balancing In Hybrid Lifi Visible Light Communication	Mrs.S.Pothumani, Dr.A.Kumaravel, Dr.M.Sriram,Ms.P.Kavitha
24	29.12.2018	201841049766	pub 19.07.2019	Wireless Sensor Overboard For Evacuation Of Fisherman Boat Crossing Border Limit	Mr.S.Thirunavukkarasu, Dr.K.P.Kaliyamurthie
25	30.12.2018	201841049873	pub 19.07.2019	Drone type Automatic Detecting Cultivated Plant Leaf Diseases and Auto Spray fertilizer	Mr.S.Thirunavukkarasu, Dr.K.P.Kaliyamurthie
26	30.12.2018	201841049882	pub 19.07.2019	Face Recognition Security system in Public Place on Image Processing	Mr.S.Thirunavukkarasu, Dr.K.P.Kaliyamurthie
27	31.12.2018	201841049892	pub 19.07.2019	IoT Based Cardiac Signal And Patient Post-Surgery Continuous Treatment From Remote Location	Dr.K.P.Kaliyamurthie, Mr.A.Stephan Anto Jegan
28	31.12.2018	201841049893	pub 19.07.2019	Virtual Reality Projection Hotel Management System For Food	Mrs.Sangeetha, Mr.Ramamoorthy
29	31.12.2018	201841049899	pub 19.07.2019	Safety Cover Electrical Switch With On/Off	Dr.Prakash, Dr.A.Kumaravel, Ms.P.Kavitha
30	31.12.2018	201841049927	pub 19.07.2019	Wi-Fi / Smart Phone Connected Beacon Tag Travel Bag	Mr.S.Thirunavukkarasu, Dr.K.P.Kaliyamurthie
31	27.08.2019	201941034556	pub 20.09.2019	Home Plan Light Switch Using In Mobile Phone Before Entering Into Home	Dr. K.P. Kaliyamurthie, D. Vimala, R.Kavitha, C.Geetha
32	27.08.2019	201941034559	pub 20.09.2019	Press Type Feather Touch Water Opener – Tap	Dr. Kumaravel, B. Sundar Raj, S. Sri Gowtham
33	01.10.2019	201941039847	pub - 18.10.2019	Use And Throw Cover For Comb	Ms. S.R. Sri Vidhya, Dr. J.Hameed Hussain
34	03.10.2019	201941040144	pub - 18.10.2019	Press Type Switch For Power	P. Kavitha, Dr. S. Prakash, K. Sivaraman, S. Pothumani
35	18.09.2019	201941037515	pub - 27.09.2019	Attach & Detachable Camera With USB Cable In Mobile	Dr.Prakash, S.Sri Gowtham, G.Kavitha, R.Velvizhi



				Phone In-Built	
36	20.09.2019	201941037940	pub - 27.09.2019	Mobile Phone Light Switch Control	Dr. B. Karthik, D.Jeya Priya, I. Mary Linda, Dr.Arulselvi
37	25.09.2019	201941038654	pub - 18.10.2019	E-Purse Connected With Smart Mobile	Dr. K.P. Kaliyamurthie, G.Jeyalakshmi, G.Angelo Virgin, S.Saravana
38	27.09.2019	201941039093	pub - 18.10.2019	Visitor Sensing Welcome Mat	Dr. K.P. Kaliyamurthie, Dr.G.Michael, Kavitha
39	02.10.2019	201941039888	pub - 18.10.2019	Super Market Basket Detector and Billing System	Dr.A.Kumaravel, M. Ramamoorthy, S.Amudha
40	03.10.2019	201941039891	pub - 18.10.2019	Mobile Phone Pair Bag	S.Thiruvanukkarasu, P.Kavitha, G.Ayyappan
41	03.10.2019	201941039895	pub - 18.10.2019	Wireless Dash Board In Vehicle	Dr.M.Senthiilkumar, Dr.S.Neduncheliyan, Dr.R.Kavitha, S.Pothumani
42	23.11.2019	201941047962	pub - 06.12.2019	Biometric For Identification Of Person Location	Dr. K.P. Kaliyamurthie, D. Vimala, S.Kavitha, C.Geetha
43	25.11.2019	201941048168	pub - 06.12.2019	Smart Mirror Display With News & Temperature Based On Iot	Dr.K.P.Kaliyamoorthi, Dr.G.Michael, D.Vimala, P.Kavitha
44	25.11.2019	201941048171	pub - 29.11.2019	Ultrasonic mouse-3D	Dr.K.P.Kaliyamoorthi, Dr.G.Michael, S.Pothumani, P.Kavitha
45	26.11.2019	201941048411	pub - 06.12.2019	Kitchen Box	Dr. B. Karthik, D. JeyaPriya, I. Mary Linda, Dr. Arulselvi
46	26.11.2019	201941048453	pub - 29.11.2019	Smart Petroleum Tank Monitoring System	Dr. A. Kumaravel, M. Ramamoorthy, P.Kavitha, Thirunavukkarasu
47	26.11.2019	201941048454	pub - 29.11.2019	Wireless Virtual Keyboard For Computer And Smart Phone	Thirunavukkarasu, Dr.S.Neduncheliyan, P.Kavitha, S.Pothumani



48	17.12.2019	201941052245	pub-20.12.2019	Portable And Remote Controlled Vehicle Towing Unit	Dr. A. Kumaravel, M. Ramamoorthy, P. Kavitha, Thirunavukkarasu
49	29.11.2019	201941049069	pub - 06.12.2019	Displaying message from voice signal without typing	Dr. A. Kumaravel, M. Ramamoorthy, P. Kavitha, Thirunavukkarasu
50	29.11.2019	201941049234	pub - 13.12.2019	Jacket for crackers workers	Dr.Prakash, K. Sivaraman, S. Pothumani
51	04.12.2019	201941050055	pub - 13.12.2019	Location driven car music player	Dr.M.Senthilkumar, Dr.K.P.Kaliyamurthie, Dr.G.Michael, C.Anuradha, K.Sivaraman
52	04.12.2019	201941050057	pub - 13.12.2019	Flexible Fiber Borescope	Dr.M.Senthilkumar, Dr.K.P.Kaliyamurthie, Dr.G.Michael, C.Anuradha, K.Sivaraman
53	07.12.2019	201941050612	pub - 13.12.2019	Microcontroller based Wireless matchbox with digital lantern	S. Amudha, K. Anita Davamani, R. Elankavi, S. Sangeetha
54	10.12.2019	201941051140	pub - 13.12.2019	Tooth treatment sensor acting as tattoo	C. Anuradha, S. Pothumani, D. Vimala, I. Mary Linda
55	10.12.2019	201941051141	pub - 13.12.2019	Intelligent smart camera	S. Amudha, K. Anita Davamani, R. Elankavi, S. Sangeetha
56	12.12.2019	201941051455	pub-20.12.2019	Virtual display for flood affected people	C. Anuradha, S. Pothumani, D. Vimala, I. Mary Linda
57	12.12.2019	201941051456	pub-20.12.2019	Speaking system for dumb people	S. Ramya, S. Balaji, G. Jeyalakshmi, S. Saravana
58	18.12.2019	201941052711	pub-20.12.2019	Smart Flash Light	C. Anuradha, S. Pothumani, D. Vimala, I. Mary Linda
59	18.12.2019	201941052716	pub-03.01.2020	Smart system for electricity charge	I. Mary Linda, D. Jeya Priya, K. Shanmuga Priya, D. Vimala
60	19.12.2019	201941052989	pub-03.01.2020	New device for navigation of blind people	Dr. A. Kumaravel, M. Ramamoorthy, P. Kavitha, Thirunavukkarasu



61	21.12.2019	201941053270	pub-03.01.2020	Auto Voice controlled intelligent fire service system	Dr. A. Kumaravel, G. Ayyappan, S. Thirunavukkarasu, C. Rajabhushanam



Academic Year: 2016-2019

S. No	Name of the Product
1	Heart Attack Detector & Heart Rate Monitoring device
2	Web Page Builder
3	Brain Tumour detector
4	Home-Based Electricity monitor
5	Mobile agent portal
6	Junk file organizer
7	E-Ration shop
8	Automatic Room Lights Using Arduino And PIR Sensor

Research laboratories

The Department provides facilities for the students to do project work and to enhance them enhance their knowledge advanced software packages and state of art equipment are available in the department, few of which are mentioned below

S. No	NAME OF THE LAB	HEAD
1	Data Analytics research Lab	Dr. K.P.Kaliyamurthie
2	Ramunajam Research Lab for Computational Intelligence	Dr. A.Kumaravel
3	Machine learning Research Lab	Dr. G.Michael
4	IOT Research Lab	Dr. S.Neduncheliyan
5	Mobile Application Development Research lab	Dr. C.Nalini
6	Software Development Research Lab	Dr. R.Kavitha

Instructional Materials

Instructional materials are the tools used in active learning and assessment. Some of our instructional materials used in the department are explained as follows

BRAIN TUMOUR DETECTOR

Overview:

- Brain tumour at early stage is very difficult task for doctors to identify. MRI images are more prone to noise and other environmental interference.
- It becomes difficult for doctors to identify tumour and their causes. So here we come up with the system, where system will detect brain tumour from images.
- We convert image into gray scale image. We apply filter to image to remove noise and other environmental interference from image.
- User has to select the image. System will process the image by applying image processing steps. We applied a unique algorithm to detect tumour from brain image.
- But edges of the image are not sharp in early stage of brain tumour. So we apply image segmentation on image to detect edges of the images.
- In this method we applied image segmentation to detect tumour.

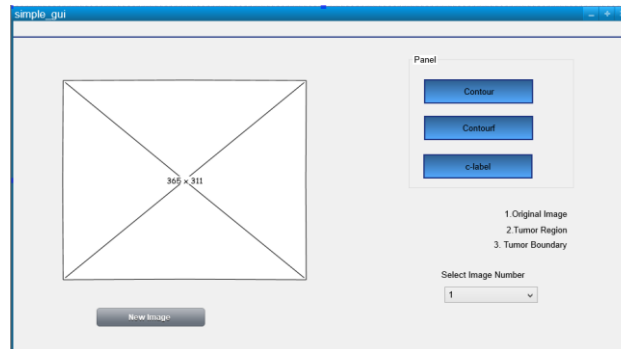
- Here we proposed image segmentation process and many image filtering techniques for accuracy. This system is implemented in mat lab.

Requirements:

- Version: MATLAB – R2013a
- i3 Processor
- Operating system: Windows 7 and above

Installation:

User Interface Design The prototyping of the GUI is done by pencil2.0.3 tool.



Results

The detection and visualization of a tumor in the brain from CT images. By developing the proposed architecture, the demarcation of the tumor in the CT image is obtained. The following results showcase the outputs received after each step in the algorithm.

AUTOMATIC ROOM LIGHTS USING ARDUINO AND PIR SENSOR

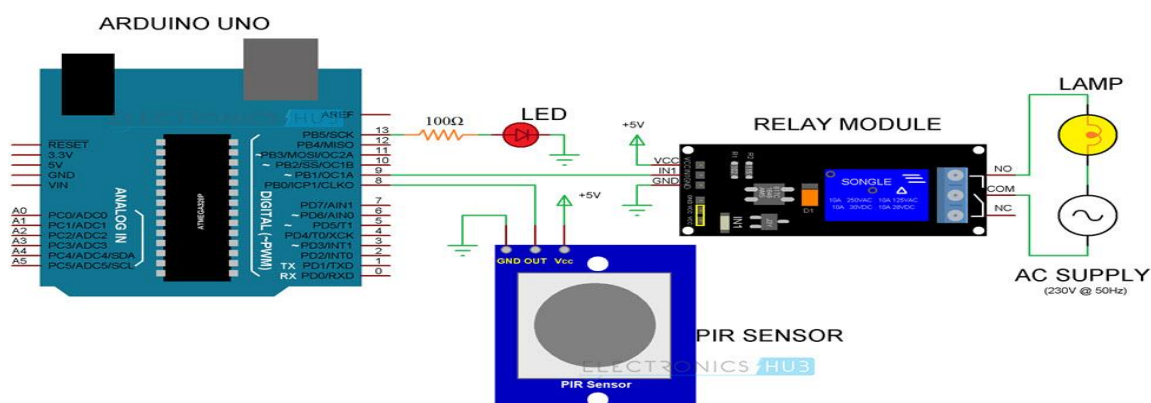
In this project, we will see the Automatic Room Lights using Arduino and PIR Sensor, where the lights in the room will automatically turn ON and OFF by detecting the presence of a human.

Also, with the help of an automatic room light control system, you need not worry about electricity as the lights get automatically off when there is no person.

Requirements:

- Arduino UNO
- PIR Sensor
- 5V Relay Module
- LED
- 100 Ω Resistor (1/4 watt)
- Connecting wires
- Power supply

CIRCUIT DESIGN



Working of the Project:

- The lights in the room will automatically turn on upon detecting a human motion and stay turned on until the person has left or there is no motion.
- Initially, when there is no human movement, the PIR Sensor doesn't detect any person and its OUT pin stays LOW.
- As the person enters the room, the change in infrared radiation in the room is detected by the PIR Sensor.
- As a result, the output of the PIR Sensor becomes HIGH. Since the Data OUT of the PIR Sensor is connected to Digital Pin 8 of Arduino, whenever it becomes HIGH, Arduino will activate the relay by making the relay pin LOW (as the relay module is an active LOW module).
- This will turn the Light ON. The light stays turned ON as long as there is movement in front of the sensor.
- If the person takes a nap or leaves the room, the IR Radiation will become stable (there will be no change) and hence, the Data OUT of the PIR Sensor will become LOW. This in turn will make the Arduino to turn OFF the relay (make the relay pin HIGH) and the room light will be turned OFF.

Results

From this project we conclude that an approach is taken to control automatic light with the help of various devices and the user was informed about the entry of the person through a PIR SENSOR at the receiver.

Working Models/Charts/Monograms

S. No	Year	Working Models
1	2018-2019	47
2	2017-2018	29
3	2016-2017	21

Academic Year: 2018-2019

S. No	PROJECT TITLE
1	Smart Server Iot Based Temperature Monitoring
2	Secured Health Management App
3	Smart Garbage System
4	Regression Analysis For Prediting Dam Water Level



5	Enabling Efficient And Geometric Range Query With Access Control Over Encrypted Spatial Data
6	Data Fetching In Icn Networking Based On Attribute Access Control Policy
7	Social Media Community Direction
8	Effective Loan Verification System For Identification On Various Behaviour Activity
9	Reduce Vm Migration In Bandwidth Oversubscribed Cloud Data
10	Battle Field Monitoring With Rfid Sensors Using Unsupervised Learning
11	Robust Malware Detection For Internet Of Battlefield Things Devices Using Deep Eigenspace Learning Raspberry Pi And Open-Source Ocr Based Automatic Book Reader
12	Homomorphic Encryption For Security Of Cloud Data
13	Smart Intelligent Security System For Women
14	Deduplication And Encryption Of Data On Cloud
15	Fake Product Review Monitoring And Removal For Genuine Online Review
16	User Oriented Behaviour Based Malware Variants Detection System
17	Adaptive Monitoring In Micro Kernel Operation System
18	Anonymous Data Sharing Scheme In Public Cloud And Its Application In E Health Record
19	Trigger Based Incremental Data Processing With Unified Sync And Async Model
20	Human Activity Pattern In Big Data For Health Care Application
21	Code Smell Deduction
22	Secure And Dynamic Multi Keyword Ranked Search Over The Encrypted Data Type
23	A Bayesian Classification Approach Using Class-Specific Features For Text Categorization
24	Deepwriterid: An End To End Online Test- Independent Writer Identification System
25	Semantic Concept Co-Occurrence Patterns For Image Annotation And Retrieval
26	Trading Utility For Privacy In Shared Spectrum Access System
27	Homomorphic Encryption For Securing Of Cloud Data
28	Analysing Android App Privacy
30	Code Smell Deduction Using J48 And Random Forest
31	Robust Malware Detection For Iot Devices Using Deep Eigenspace Learning
32	Security Cloud Data Under Key Exposure
33	Data Fetching In Icn Networking Based On Attribute Access Control Policy.
34	Anonymous Data Sharing Scheme In Public Cloud And Its Application In E-Health Record.
35	Earth Pollution Monitoring Using Independent Web Page
36	Xnode Js Over Php In Api's
37	Fake Product Review Monitoring And Removal For Genuine Online Reviews
38	Drowsy Detection Proactive Accident Avoidance.
39	Sentimental Analysis With Text File Sentences Using Nlp



40	User-Oriented Behaviour Based Malware Variants Detection Systems.
41	Max-Min Fair Resource Allocation For Stream Bigdata Analytics
42	Analyse Of Early Reviews For Effective Product Retailing On E-Commerce Websites
43	Personalized Keyword Search For Patient Healthcare Record Using Secure Encryption In Cloud
44	Refraction Of Code To Enhance Software Quality.
45	Black And White Image Colorisation With Opencv And Deep Learning
46	Smart Blind Assistive Device
47	Assured Way To Manage Data Storage Control In Cloud

2017-2016

S. No	PROJECT TITLE
1	Honey Pot Based Security System Design
2	Comparative Analysis Of Various Machine Learning Algorithms To Predict Diabetes
3	Disease Prediction By Machine Learning Over Big Data From Healthcare Community
4	Privacy Protection And Intrusion Detection System For Healthcare Data Sharing Using Cloud
5	Loan Prediction With Data Analytics
6	A Network Based Spam Detection Framework For Reviews In Online Social Media
7	Online Market For Buying And Selling Different Products
8	Platform Ticket Reservation For Railways Using Bio Metrics
9	Pattern Based Design And Verification Of Secure Service Compositions
10	Web Based Education Institution Management System
11	Search Engine With Image Recognition
12	Data Uploading And Integrity Checking In The Public Clouds
13	A Lightweight Secure Data Sharing Scheme For Mobile Cloud Computing
14	Mining Human Activity Patterns From Smart Home Big Data For Healthcare Application
15	Smart Home Automation Using Iot
16	Signature Verification Using Deep Learning
17	Hall Plan And Seating Arrangements System Using In Smart Phone Apps
18	Automatic Detection And Classification Of Mammogram Abnormalities In Breast Cancer Diagnosis Using Support Vector Machine Technique.
19	Privacy Preserving And Lossy Data Retrieval In Cloud Computing Using Hash-Solomon Code Algorithm.
20	Network Aware Feasible Repairs For Erasure- Coded Storage
21	Optimal Scheduling Of Vms In Queuing Cloud Computing System.
22	Hybrid Application Using Flutter
23	Privacy Aware Data Deduplication For Side Channel In Cloud Storage
24	Achieving Secure Multiparty Communication By Rmind Tool
25	Attribute With Timewise Document Sharing And Dissemination Secure In Cloud.
26	Dynamic Multikeyword Ranked Search To Secure The Cloud Data In Cloud Computing
27	Dynamic Password Policy Generation System



28	Safety Online Transaction Of Shoulder Surfing
29	A Crowdsourcing Approach For Tracking People In Highly Dynamic Industries.

2016-2017

S. No	PROJECT TITLE
1	Analysis Of Optimum Cropcultivation Using Fuzzy System
2	Real Time Device Control By Voice Recognition With Offline Features
3	Speeding Up Association Rule Mining With Inverted Index Compression
4	H2hadoop: Improving Hadoop Performance Using The Meta Data Of Related Jobs
5	Illuminating Of Integrity Attacks In Cyber Physical Credit Card Fraud Detection Using Ensemble Model
6	Resolving Multiparty Privacy Conflicts In Social Media
7	Identity Based Proxy Oriented Data Uploading And Remote Data Integrity Checking In Public Cloud
8	Secure Reversible Image Data Hiding Over Encrypted Domain Via Key Modulation
9	Secure Reversible Image Data Hiding Over Encrypted Domain Via Key Modulation
10	Optimizing Cost For Online Social Network On Geo-Distributed Cloud
11	Enabling Cloud Storage Auditing With Verifiable Outsourcing Of Key Updates.
12	Integration Of Modified Inverse Observation Model And Multiple Hypotheses Tracking For Detecting And Tracking.
13	Flexible And Fine-Grained Attribute Based Data Storage In Cloud Computing
14	Private And Verifiable Inter Domain Routing Decisions
15	Human Capital Management
16	Smart Phone Based Human Fall Detection
17	Deduplicate Dynamic Proof Of Storage For Multi-User Environments.
18	Metamorphic Testing For Software Quality Assessments: Study Of Search Engines
19	Hand Gesture Using Android For Deaf And Dumb People
20	Dynamic Load Rebalancing By Monitoring The Elastic Map-Reduce Service In Cloud
21	Order Preserving Condensation Of Proving Objects In Surveillance Videos

Charts

S. No	Titles of Charts
1	Computer History
2	Levels of Software Engineering
3	Computer Graphics and Multimedia
4	7 OSI layers
5	Microprocessor and Microcontroller
6	Computer Hardware

5.8.4. Consultancy (from Industry)

Department **Computer Science & Engineering** has different domain specific clusters of faculty members and students. They are involved in various consultancy projects and the details of work done by the department are given in the table shown below:



S. No	Title of the Project	Agency and Scheme	Principal Investigator (S) (Pi)&(Co-Pi)	Grant	Period	Status
1	Abaka: an anonymous batch authenticated and key agreement scheme for value- added	Accel Frontline	Dr. K.P.Kaliyamurthie , Mr. B.Sundarraaj	2,50,000	2018	Ongoing
2	Online voting system powered by biometrics security using stenography	Office 2000 Solutions Pvt Ltd	Dr. C.Nalini, Mr.G.Michael	5,00000	2015	Ongoing
3	Characterizing the searching implications of 3rd party emergency	Abra Technologies Pvt Ltd	Mrs.C.Anuradha, Mrs.N.Priya	4,80,000	2014	Ongoing
4	Wbps: widget based positioning system- an innovative mobile application	Zylog Systems Ltd	Dr. C.Nalini, Mr. AR.Arnachalam	3,60,000	2012	Completed
5	Resilient and secure file dispersal in a mobile p2p system	Pranav Communication s Pvt Ltd	Dr. A.Kumaravel, Mrs. S.Saminatahan	2,00000	2011	Completed
6	Secure and practical outsourcing of linear programming in cloud computing	De Horizone Technologies	Dr. K.P.Kaliyamurthie , Dr. C.Nalini	2,10,000	2013	Ongoing
7	Optimal lot sizing for sequential online auction	Zylog Systems Ltd	Mr. K.G.S.Venkatesan, Mr. R.Karthikeyan	2,30,000	2014	Ongoing



8	Secure and practical outsourcing of linear programming in cloud computing	The CLOROX Company	Mr. G.Michael, Mrs. C.Anuradha	2,50,000	2015	Ongoing

5.9 Faculty Performance Appraisal and Development System (FPADS)

Faculty Performance Appraisal Form is collected from each Faculty member in which they show their innovations, research, and steps taken towards their self-renewal to cope up with changes in technology and develop expertise for effective implementation of curriculum. The self-appraisal form has three sections:

- Teaching / Learning Activities.
- Co-Curricular, Extension, Professional Development and Department/Institution Related Activities.
- Research / Publications and Other Academic Contributions.

Based on the appraisals submitted by the faculty members, appropriate actions are taken. Best Faculty members are awarded and those who need improvements are counseled and guided appropriately.

FACULTY APPRAISAL FORM



(BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY)

FACULTY OF ENGINEERING AND TECHNOLOGY

ACADEMIC PERFORMANCE INDICATORS (API's)- FACULTY

PERIOD: ACADEMIC YEAR JUNE 2018 –MAY 2019

FACULTY EVALUATION FORM

Name: S.R.Sri Vidhya			Qualification: M.E.,(Ph.D)			
Designation: Assistant Professor			Dt. of Joining (BIST): 05-07-2017			
Department: CSE			Dt. of Promotion to the present Post:			
Total Experience (in years & months): (A) Teaching (2) (B) Industry () (C) Research ()						
S.No	Activity	Max. Points / Entry	No. of Entries	Total points Appraise	Total Points Appraiser	Total points Committee
ACADEMIC COURSES						
1	Teaching and evaluation of a full semester theory course	20	4	80	80	80
2	Teaching and evaluation of a full semester lab course - Main	10	2	20	20	20
3	Teaching and evaluation of a full semester lab course - Assits	5	2	10	10	10
4	University Result :Above 85% – 10 marks 70%-84% - 5 marks	10/5	4	40	40	40
5	Guiding Masters Dissertation	10	1	10	10	10
6	Guiding UG Project (per batch)	5	4	20	20	20
7	Development of new syllabus	5	—	—	—	—
8	Innovation of new experiment / Teaching aid	5	4	20	20	15
10	Faculty Advisor	15	2	30	30	25
11	Project Evaluation Co-ordinator / Member	10/5	1	10	10	10
12	Faculty Development Program (Attended)-5 days/2 days	5/2	2	4	4	4
13	Faculty Development Program - Coordinator(Conducted)5days/2days	10/5	—	—	—	—
14	Faculty Development Program – co-coordinator(Conducted)5days/2days	5/2	—	—	—	—
15	Certificate Program (Conducted)-Coordinator- 5days/2days	20/10	—	—	—	—
16	Certificate Program (Conducted)-Co-coordinator- 5days/2days	10/5	—	—	—	—
17	Seminars / Workshops (Attended)	3	2	6	6	6
18	Seminars / Workshops -Cordinator(Conducted)-2days/1day	4/2	—	—	2	2
19	Seminars / Workshops Co-coordinator(Conducted)-2days/1day	2/1	—	—	1	1
20	Lab in-charge and Maintenance	10	2	20	20	20
21	Lab Modernization / Purchases	15	—	—	—	—
22	Time Table (Main)	10	—	—	—	—
23	Time Table (Support)	5	1	5	—	—
24	Invigilation (per session)	1	12	12	12	12
25	Others					
SUB TOTAL				287	285	275



B						
1	Guiding Ph.D. (max up to 3 years)	15	-	-	-	-
2	Ph.D. Successful completion by student	30	-	-	-	-
3	Journal paper with Paper with H-Indexing	25	-	-	-	-
4	International Journal Paper with Scopus Indexed and Impact factor (Thomson Reuters/Web of Sciences – Annexure-I of Anna University)	20	-	-	-	-
5	International Journal Paper with Scopus Indexed and Impact factor (Thomson Reuters/Web of Sciences – Annexure-I of Anna University)	15	5	75	75	75
6	International Conference paper with Scopus Indexed	10	-	-	-	-
7	Refereed International Journal paper	8	-	-	-	-
8	Refereed National Journal Paper	6	-	-	-	-
9	International Conference Refereed paper	4	-	-	-	-
10	National Conference refereed paper	2	1	2	2	2
11	Reviewing Journal Papers (per paper)	5	-	-	-	-
12	Submitting a Research proposal for funding	5	-	-	-	-
13	Receiving Project funding (every 10 Lakhs)-PI (External funding)	15	-	-	-	-
14	Receiving Project funding (every 10 Lakhs)-Co-PI (External funding)	10	-	-	-	-
15	Receiving Project funding (below 10 Lakhs)-PI (External funding)	10	-	-	-	-
16	Receiving Project funding (below 10 Lakhs)-Co-PI (External funding)	5	-	-	-	-
17	Completion report of funded project(every 10 Lakhs) PI (External funding)	10	-	-	-	-
18	Completion report of funded project(below 10 Lakhs)Co- PI (External funding)	5	-	-	-	-
19	Books (International) Reviewed with ISBN-single author/Co-author	40/20	-	-	-	-
20	Books (National) Reviewed with ISBN-single author/Co-author	30/15	-	-	-	-
21	Organizing International Conference Organizing Chair / Secretary	20	-	-	-	-
22	International Conference Executive Committee member	5	-	-	-	-
23	Organizing National Conference Organizing Chair / Secretary	15	1	15	15	15
24	National Conference Member Executive Committee	3	1	3	3	3
25	Patent Registered	15	-	-	-	-
26	Patent Obtained	30	-	-	-	-
27	Patent Sold	40	-	-	-	-
27	Consultancy (per 10 Lakhs)	15	-	-	-	-
28	Recognition / Awards (International, National, State, Region)	30/20/15/10	-	-	-	-
29	Invited Lectures/Key note speaker	7	-	-	-	-
30	Chair – Conferences	5	-	-	-	-
31	Others					
	SUB TOTAL			95	95	95



ADMINISTRATIVE WORK					
C					
1	Faculty Advisor (Societies / Clubs)	10	10	10	10
2	Industrial Visits	3	3	3	3
3	Social work (Co-ordinator / Support)	10/5	-	-	-
4	Admission Counseling (Co-ordinator / Support)	15/10	10	10	10
	NCC Officer	15	-	-	-
5	NSS, YRC, Extension (Co-ordinator/ Support)	10/5	-	-	-
6	Student convention, Symposia (>600,300 – 600, <300)	10/7/5	7	7	7
7	Sports Day (Co-ordinator/ Support)	10/5	-	-	-
8	Cultural Clubs (Co-ordinator / Support)	7/5	-	-	-
9	Convocation (Co-ordinator /Support)	7/5	-	-	-
10	Entrepreneurship Promotion cell (Co-ordinator / Support)	10/5	-	-	-
11	General Administration	15	-	-	-
12	Alumni (Co-ordinator/Support)	10/5	-	-	-
13	Partnership outside the Institution	10	-	-	-
14	Member, Boards(National / State)	15/10	15	15	15
15	Interaction with Industry	20	20	20	20
16	ISO (Institute / Department/Support)	20/15/10	-	-	-
17	Professional Society Membership Paid (International / National)	10/5	5	5	5
18	Committee Members	5	5	5	5
19	Others				
	SUB TOTAL		75	75	75
	TOTAL		457	455	445

Signature of the Appraiser

Signature of Appraise

Signature of the Dean/Committee

Date:

EVALUATION OF FACULTY: Some useful pointers for reference:

1. The No. of score per item is for per entry: if more entries for the particular item are made, the score for the particular item will consequently multiply. For
Ex: The Max. Score for teaching and evaluation for theory course is 20 and if total number of courses done is 3 (with a Max. score of 20 each) the resultant factor will be 60, or the Max. Score for publication in international journal paper is 20 and if 2 papers are published then the resultant score for the item will be 40.
2. There has to be supporting documents for all the claims. Courses taught / labs handled should be supported with corresponding course code as also abstract of papers of published has to be attached.
3. Innovative and newer teaching methods, aides and experiments should be unique in concept, design, logic, technique and delivery and that is equally impressive, acknowledged, and effective in realization of its ultimate objective.
4. Only those Books reviewed with ISBN number and Published by reputed publisher will be considered.

5.10 Visiting/Adjunct/Emeritus Faculty etc.

Experts from various industries have been utilized to impart a good blend of theoretical



and practical input to the students on latest technology used in Industries. This has helped students in securing placements in core companies. Details of Adjunct faculty members from various industries are listed below:

**Dr. D. VENKATA
SUBRAMANIAN**

Database Consultant -USA Based
MNC, Chennai
bostonvenkat@gmail.com

Dr. ROBERT MASILAMAN

Former Professor & Dean,
Hindustan Institute of Technology
and Science, Chennai.
robertmani@gmail.com

Dr. HOSHANG KOLIVAND

Professor, School of Computer
Science and Mathematics
Liverpool John Moores University,
Liverpool, UK
H.Kolivand@ljmu.ac.uk

**Dr. MUTHUKUMARAN
MARUTHAPPA**

Professor, Faculty of Science and
Technology,
Sunway University, Malaysia
muthuma@sunway.edu.my

Mr. RAMAN RAGURAMAN

Lecturer & Course Manager
School of Computing
AIMST University Malaysia
[raman_raguraman@aimst.edu.m](mailto:raman_raguraman@aimst.edu.my)
[y / imklim@gmail.com](mailto:y/imklim@gmail.com)

Dr. VENKADESHAN

Associate Professor , IT
University of Technology and Applied
Sciences, Oman
[venkadeshan.ramalingam@shct.edu.o](mailto:venkadeshan.ramalingam@shct.edu.om)
m



NAME OF THE FACULTY	HOURS AKEN	MODULE
DR. D. VENKATA SUBRAMANIAN	52	Distributed computing - VI SEM
DR.ROBERT MASILAMANI	52	Data warehousing and Data Mining - VI SEM
DR. VENKADESHAN	51	Grid and Cloud Computing - VII SEM
MR.RAMAN RAGURAMAN	50	Web Technology – VII SEM
DR. MUTHUKUMARAN MARUTHAPPA	54	Data warehousing and Data Mining - VI SEM
DR. HOSHANG KOLIVAND	45	Artificial Intelligence and Expert System - VII SEM





CRITERION 6	FACILITIES AND TECHNICAL SUPPORT	60

6.1 Adequate and well Equipped Laboratories and Technical Man Power

The department of Computer Science and Engineering has well established 18 Laboratories catering to the needs of the students. The laboratories are spacious, innovatively designed and contain latest computers. The Department possesses sufficient computer systems with computers to students ratio 1:2. These cater to undergraduate students of the department of Computer Science and Engineering.

- The laboratories are equipped with sufficient hardware and required software to run programme specific curriculum and off-programme curriculum as well as research.
- Each lab operates on a specific schedule as mentioned in the time table of the specific semester. On a general note, each laboratory course consists of two sessions (each forming three periods) every week.
- Each lab can accommodate a batch of 30 to 60 students.
- Laboratory sessions are conducted to ensure the attainment of laboratory outcomes which in turn contribute to the Programme Outcomes.
- Computer labs with sufficient number of computers with high speed internet connectivity of 100Mbps are available for students' use.
- Usage of Open source software is promoted. All Microsoft products with MSDNAA, which is the Microsoft Academic Alliance program and consists of a bundle of Microsoft Software is available for academic purposes.
- Development environments like MS Visual Studio, .NET, MS Office developer, etc. are actively used for development purposes by the department. IBM Rational Rose software development suite is used to familiarize the students with various software developmental models.



2020-21

Name of The Laboratory	No of Students per Batch	System Configuration	Soft wares Installed	Weekly Utilization Status (All the Courses for which Lab is Utilized)	Technical Manpower Support		
					Name of the Technical Staff	Designation	Qualification
Computer Laboratory - 1 (ODD Semester)	60 (1 computer per student)	HP RCTO 280 pro Microtower PC	Windows 10 pro,	U18PCCS3L –DSA Lab	Mr. G. Karthick	Lab Instructor	B.tech., M.Tech
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS3L2-OOPs Lab			
		Mother Board					
		8GB RAM	JDK V.11.0, PEARL				
		10 Gen,1 TB HDD					
		21.0” inch FHD display					
		USB Mouse	Microsoft Visual C++				
USB Keyboard							
Computer Laboratory - 1 (EVEN Semester)	60 (1 computer per student)	HP RCTO 280 pro Microtower PC	Ubuntu 20.04.3 LTS	U18PCCS4L1 - OS Lab	Mr. G. Karthick	Lab Instructor	B.tech., M.Tech
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS4L2- DAA Lab			
		Mother Board	JDK V.11.0	U18PCCS4L3 – DBMS Lab			
		8GB RAM	Oracle 10g, SQL Server Management Studio				
		10 Gen,1 TB HDD	Windows 10 pro				
		21.0” inch FHD display	MS Office				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 2 (ODD Semester)	60 (1 computer per student)	HP RCTO 280 pro Microtower PC	Windows 10 pro	U18PCCS3L1 – DSA Lab	Mr. M. Karthick	Lab Instructor	DCSE
		Intel core i3-3.6 GHz					
		Mother Board	Turbo C++ V.3.2.3.0	U18PCCS3L2 –OOPs Lab			
		8GB RAM					
		10 Gen,1 TB HDD	JDK				
21.0” inch							



		FHD display	V.11.0, PEARL				
		USB Mouse					
		USB Keyboard					
Computer Laborator y - 2 (EVEN Semester)	60 (1 comput er per student)	HP RCTO 280 pro Microtower PC	Ubuntu 20.04.3 LTS	U18PCCS4L1 - OS Lab	Mr. M. Karthick	Lab Instructor	DCSE
		Intel core i3- 3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS4L2- DAA Lab			
		Mother Board	JDK V.11.0	U18PCCS4L3 – DBMS Lab			
		8GB RAM	Oracle 10g, SQL Server Manageme nt Studio				
		10 Gen,1 TB HDD	Windows 10 pro				
		21.0” inch FHD display					
		USB Mouse					
		USB Keyboard	MS Office				
Computer Laborator y - 3 (ODD Semester)	60 (1 comput er per student)	HP RCTO 280 pro Microtower PC	Windows 10 pro,	U18PCCS3L1 – DSA Lab	Mr. P. Vinoth	Lab Instructor	B.E., M.E
		Intel core i3- 3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS3L2 –OOPs Lab			
		Mother Board					
		8GB RAM	JDK V.11.0, PEARL				
		10 Gen,1 TB HDD					
		21.0” inch FHD display					
		USB Mouse	Microsoft Visual C++				
		USB Keyboard					
Computer Laborator y - 3 (EVEN Semester)	60 (1 comput er per student)	HP RCTO 280 pro Microtower PC	Ubuntu 20.04.3 LTS	U18PCCS4L1 - OS Lab	Mr. P. Vinoth	Lab Instructor	B.E., M.E
		Intel core i3- 3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS4L2- DAA Lab			
		Mother Board	JDK V.11.0	U18PCCS4L3 – DBMS Lab			
		8GB RAM	Oracle 10g, SQL Server Manageme nt Studio				
		10 Gen,1 TB HDD	Windows 10 pro				
		21.0” inch FHD display					
		USB Mouse					
		USB Keyboard	MS Office				
Computer Laborator	60 (1 comput	HP RCTO 280 pro	Windows 10 pro,	U18PCCS3L1 – DSA Lab	Mr. M. Vinoth	Lab Instructor	B.E



y - 4 (ODD Semester)	er per student)	Microtower PC								
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS3L2 –OOPs Lab						
		Mother Board								
		8GB RAM	JDK V.11.0, PEARL							
		10 Gen,1 TB HDD								
		21.0” inch FHD display								
		USB Mouse	Microsoft Visual C++							
		USB Keyboard								
Computer Laborator y - 4 (EVEN Semester)	60 (1 comput er per student)	HP RCTO 280 pro Microtower PC	Ubuntu 20.04.3 LTS	U18PCCS4L1 - OS Lab	Mr. M. Vinoth	Lab Instructor	B.E			
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS4L2- DAA Lab						
		Mother Board	JDK V.11.0	U18PCCS4L3 – DBMS Lab						
		8GB RAM	Oracle 10g, SQL Server Manageme nt Studio							
		10 Gen,1 TB HDD								
		21.0” inch FHD display	Windows 10 pro							
		USB Mouse								
		USB Keyboard								
Computer Laborator y - 5 (ODD Semester)	60 (1 comput er per student)	HP RCTO 280 pro Microtower PC	Windows 10 pro,	U18PCCS3L1 – DSA Lab	Mr.R.Pravi n	Lab Instructor	B.E			
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS3L2 –OOPs Lab						
		Mother Board								
		8GB RAM	JDK V.11.0, PEARL							
		10 Gen,1 TB HDD								
		21.0” inch FHD display								
		USB Mouse	Microsoft Visual C++							
		USB Keyboard								
Computer Laborator y - 5 (EVEN Semester)	60 (1 comput er per student)	HP RCTO 280 pro Microtower PC	Ubuntu 20.04.3 LTS	U18PCCS4L1 - OS Lab	Mr.R.Pravi n	Lab Instructor	B.E			
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS4L2- DAA Lab						
		Mother Board	JDK V.11.0	U18PCCS4L3 – DBMS Lab						



		8GB RAM	Oracle 10g, SQL Server Managemen t Studio				
		10 Gen,1 TB HDD					
		21.0” inch FHD display	Windows 10 pro				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 6 (ODD Semester)	60 (1 computer per student)	HP RCTO 280 pro Microtower PC	Windows 10 pro,	U18PCCS3L1 – DSA Lab	Mr.R.Pravin	Lab Instructor	B.E
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS3L2 –OOPs Lab			
		Mother Board					
		8GB RAM	JDK V.11.0, PEARL				
		10 Gen,1 TB HDD					
		21.0” inch FHD display					
		USB Mouse	Microsoft Visual C++				
		USB Keyboard					
Computer Laboratory - 6 (EVEN Semester)	60 (1 computer per student)	HP RCTO 280 pro Microtower PC	Ubuntu 20.04.3 LTS	U18PCCS4L1 - OS Lab	Mr.R.Pravin	Lab Instructor	B.E
		Intel core i3-3.6 GHz	Turbo C++ V.3.2.3.0	U18PCCS4L2- DAA Lab			
		Mother Board	JDK V.11.0	U18PCCS4L3 – DBMS Lab			
		8GB RAM	Oracle 10g, SQL Server Managemen t Studio				
		10 Gen,1 TB HDD					
		21.0” inch FHD display	Windows 10 pro				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 7 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS 5L1 – NW Lab	Mr. G. Hariharan	Lab Instructor	B. Tech
		Intel Core i3 Processor	Oracle 10g ,SQL Server Managemen t studio				
		Mother Board	Turbo C++ V.3.2.3.0	BCS5L2 – SE Lab			
		2GB Ram	JDK V.11.0				
		500GB HDD	Visual basic 6.0				
		19.5” LCD Monitor	Windows 10 pro				



		USB Mouse, USB Keyboard	NS2, OPNET						
Computer Laborator y - 7 (EVEN Semester)	60 (1 comput er per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab		Mr. G. Hariharan	Lab Instructor	B. Tech	
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab					
		Mother Board	Informatic a, Weka 3.9,Rapid Miner	BCS6L3 – Java lab					
		2GB Ram	Oracle 10g, SQL Server Manageme nt Studio	BCS6P1 – Mini Project					
		500GB HDD							
		19.5” LCD Monitor							Turbo C++ V.3.2.3.0
		USB Mouse							MS Office
		USB Keyboard							
Computer Laborator y – 8 (ODD Semester)	60 (1 comput er per student)	Lenovo	Windows 10 pro	BCS 5L1 – NW Lab		Mr. S. Pravin	Lab Instructor	B.E	
		Intel Core i3 Processor	Oracle 10g ,SQL Server Manageme nt studio	BCS5L2 – SE Lab					
		Mother Board	Turbo C++ V.3.2.3.0						
		2GB Ram	JDK V.11.0						
		500GB HDD	Visual basic 6.0						
		19.5” LCD Monitor	Windows 10 pro						
		USB Mouse	NS2, OPNET						
		USB Keyboard							
Computer Laborator y - 8 (EVEN Semester)	60 (1 comput er per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab		Mr. S. Pravin	Lab Instructor	B.E	
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab					
		Mother Board	Informatic a, Weka 3.9,Rapid Miner	BCS6L3 – Java lab					
		2GB Ram	Oracle 10g, SQL Server Manageme nt Studio	BCS6P1 – Mini Project					
		500GB HDD							
		19.5” LCD Monitor							Turbo C++ V.3.2.3.0
		USB Mouse							MS Office
		USB Keyboard							
Computer	60 (1	Lenovo	Windows	BCS 5L1 – NW Lab		Mr. R. J.	Lab	B.E	



Laboratory - 9 (ODD Semester)	computer per student)		10 pro		Praveen	Instructor	
		Intel Core i3 Processor	Oracle 10g ,SQL Server Managemet studio	BCS5L2 – SE Lab			
		Mother Board	Turbo C++ V.3.2.3.0				
		2GB Ram	JDK V.11.0				
		500GB HDD	Visual basic 6.0				
		19.5” LCD Monitor	Windows 10 pro				
		USB Mouse	NS2, OPNET				
		USB Keyboard					
Computer Laboratory - 9 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mr. R. J. Praveen	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB Ram	Oracle 10g, SQL Server Managemet Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 10 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS 5L1 – NW Lab,	Mr. S. Sakthi krishna Kumar	Lab Instructor	B.E
		Intel Core i3 Processor	Oracle 10g ,SQL Server Managemet studio				
		Mother Board	Turbo C++ V.3.2.3.0	BCS5L2 – SE Lab			
		2GB Ram	JDK V.11.0				
		500GB HDD	Visual basic 6.0				
		19.5” LCD Monitor	Windows 10 pro				
		USB Mouse	NS2, OPNET				
		USB Keyboard					

Computer Laboratory - 10 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mr. S. Sakthi krishna Kumar	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			



		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 11 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS 5L1 – NW Lab	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	Oracle 10g ,SQL Server Management studio				
		Mother Board	Turbo C++ V.3.2.3.0	BCS5L2 – SE Lab			
		2GB Ram	JDK V.11.0				
		500GB HDD	Visual basic 6.0				
		19.5” LCD Monitor	Windows 10 pro				
		USB Mouse	NS2, OPNET				
		USB Keyboard					
Computer Laboratory - 11 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 12 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS 5L1 – NW Lab	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	Oracle 10g ,SQL Server Management studio				
		Mother Board	Turbo C++ V.3.2.3.0	BCS5L2 – SE Lab			
		2GB Ram	JDK V.11.0				
		500GB HDD	Visual basic 6.0				
		19.5” LCD Monitor	Windows 10 pro				



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Computer Laboratory - 13 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS7L1 – GCC Lab	Mr.P.Prahatheeswaran	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS7L2 – WT lab			
		Mother Board	Sales Force, Drop box, Virtual box, AWS, Windows Azure, Cloud Sim				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor					
		USB Mouse	Turbo C++ V.3.2.3.0				
		USB Keyboard					
Computer Laboratory - 13 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mr.P.Prahatheeswaran	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP	BCS8P1 – Project Work			
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 14 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS7L1 – GCC Lab	Mr.P.Prahatheeswaran	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS7L2 – WT lab			
		Mother Board	Sales Force, Drop box, Virtual box, AWS, Windows Azure, Cloud Sim				
		2GB Ram	Oracle 10g, SQL Server Management				
		500GB HDD					



		19.5” LCD Monitor	Studio				
		USB Mouse	Turbo C++ V.3.2.3.0				
		USB Keyboard					
Computer Laboratory - 14 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mr.P.Prahatheeswaran	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 15 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS7L2 – WT lab	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	Appache, XAMPP				
		Mother Board	Turbo C++ V.3.2.3.0				
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS7L1 – GCC Lab			
		500GB HDD	JDK V.11.0				
		19.5” LCD Monitor	Sales Force, Drop box, Virtual box, AWS, Windows Azure, Cloud Sim				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 15 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP	BCS8P1 – Project			



		19.5” LCD Monitor	Turbo C++ V.3.2.3.0	Work			
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 16 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS7L1 – GCC Lab	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	Appache, XAMPP	BCS7L2 – WT lab			
		Mother Board	Turbo C++ V.3.2.3.0				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	JDK V.11.0				
		19.5” LCD Monitor	Sales Force, Drop box, Virtual box, AWS, Windows Azure, Cloud Sim				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 16 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWD M Lab	Mr.M. Anthony Jijo	Lab Instructor	B. E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB RAM	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP	BCS8P1 – Project Work			
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 17 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS7L1 – GCC Lab	Mr.S.Rajesh	Lab Instructor	B. E
		Intel Core i3 Processor	Appache, XAMPP	BCS7L2 – WT lab			
		Mother Board	Turbo C++ V.3.2.3.0				
		2GB RAM	Oracle 10g, SQL Server Management Studio				
		500GB HDD	JDK V.11.0				
		19.5” LCD Monitor	Sales Force, Drop box, Virtual box.				



		USB Mouse	AWS, Windows Azure, Cloud Sim				
		USB Keyboard					
Computer Laboratory - 17 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mr.S.Rajesh	Lab Instructor	B. E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB RAM	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP	BCS8P1 – Project Work			
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				
		USB Mouse	MS Office				
		USB Keyboard					
Computer Laboratory - 18 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS7L1 – GCC Lab	Mr.S.Rajesh	Lab Instructor	B. E
		Intel Core i3 Processor	Appache, XAMPP	BCS7L2 – WT lab			
		Mother Board	Turbo C++ V.3.2.3.0				
		2GB RAM	Oracle 10g, SQL Server Management Studio				
		500GB HDD	JDK V.11.0				
		19.5” LCD Monitor	Sales Force, Drop box, Virtual box, AWS, Windows Azure, Cloud Sim				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 17 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS6L1 – DWDM Lab	Mr.S.Rajesh	Lab Instructor	B. E
		Intel Core i3 Processor	JDK V.11.0	BCS6L2 – C# Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 – Java lab			
		2GB RAM	Oracle 10g, SQL Server Management Studio	BCS6P1 – Mini Project			
		500GB HDD	Appache, XAMPP	BCS8P1 – Project Work			
		19.5” LCD Monitor	Turbo C++ V.3.2.3.0				



		USB Mouse USB Keyboard	MS Office			

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Name of The Laboratory	No of Students per Batch	System Configuration	Softwares Installed	Weekly Utilization Status (All the Courses for which La is Utilized)	Technical Manpower Support		
					Name of the Technical Staff	Designation	Qualification
Computer Laboratory - 1 (ODD Semester)	60 (1 computer per student)	Lenovo	Windows 10 pro	BCS7L2 - Web Technology Lab	Mr. G. Karthick	Lab Instructor	B.Tech., M.Tech
		Intel Core i3 Processor	Appache, XAMPP	BCS7L1 - Grid and Cloud Computing Lab			
		Mother Board	Turbo C++ 4.5				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	JDK 8				
		19.5" LCD Monitor	Sales Force, Drop box, Virtual box, AWS, Windows Azure, Cloud Sim				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 1 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux kernel 4.4 / 4.5 , Turbo C++ 4.5	BCS4L1- Database Management System	Mr. G. Karthick	Lab Instructor	B.Tech., M.Tech
		Intel Core i3 Processor	JDK 8, PEARL	BCS6L1 - Data Warehousing and Data Mining			
		Mother Board	Rapid Miner, Lex/Yacc	BCS6P1 - Mini Project			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS4L3 - Computer Graphics and Multimedia Lab			
		500GB HDD	Appache, XAMPP	BCS4L2 - Operating System Lab			
		19.5" LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica, Weka 3.9,Rapid Miner				
Computer Laboratory - 2	60 (1 computer per student)	USB Keyboard	Windows 10 pro	BCS7L1 - Grid and Cloud Computing Lab	Mr. M. Karthick	Lab Instructor	DCSE
		Lenovo	Appache, XAMPP				



(ODD Semester)		Intel Core i3 Processor	Turbo C++ 4.5	BCS7L2 - Web Technology Lab			
		Mother Board	Oracle 10g, SQL Server Management Studio				
		2GB Ram	JDK 8				
		500GB HDD	Sales Force, Drop box, Virtual box, AWS, Windows Azure, Cloud Sim				
		19.5” LCD Monitor					
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 2 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux kernel 4.4 / 4.5 , Turbo C++ 4.5	BCS4L1- Database Management System	Mr. M. Karthick	Lab Instructor	DCSE
		Intel Core i3 Processor	JDK 8	BCS4L3 - Computer Graphics and Multimedia Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS6L3 - Programming in Java Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L1 - Data Warehousing and Data Mining			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 3 (ODD Semester)	60 (1 computer per student)	Lenovo	Oracle 10g ,SQL Server Management studio	BCS5L1 - Networking Lab	Mr. P. Vinoth	Lab Instructor	B.E., M.E
		Intel Core i3 Processor	Turbo C++ 4.5	BCS5L2 - Software Engineering Lab			
		Mother Board	JDK 8				
		2GB Ram	Visual basic 6.0				
		500GB HDD	Windows 7				
		19.5” LCD Monitor					
		USB Mouse					
		USB Keyboard	NS2, OPNET				
Computer Laboratory -	60 (1 computer per student)	Lenovo	Linux kernel 4.4 / 4.5 , Turbo C++ 4.5	BCS4L3 - Computer Graphics and Multimedia Lab	Mr. P. Vinoth	Lab Instructor	B.E., M.E



3 (EVEN Semester)	t)	Intel Core i3 Processor	JDK 8	BCS4L2 - Operating System Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L1- Database Management System			
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Linux kernel 4.4 / 4.5 ,				
		USB Mouse					
		USB Keyboard	Turbo C++ 4.5				
Computer Laboratory - 4 (ODD Semester)	60 (1 computer per student)	Lenovo	Oracle 10g ,SQL Server Management studio		Mr. M. Vinoth	Lab Instructor	B.E
		Intel Core i3 Processor	Turbo C++ 4.5	BCS5L2 - Software Engineering Lab			
		Mother Board	JDK 8	BCS5L1 - Networking Lab			
		2GB Ram	Visual basic 6.0				
		500GB HDD	Windows 7				
		19.5” LCD Monitor	NS2, OPNET				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 4 (EVEN Semester)	60 (1 computer per student)	Lenovo		Linux kernel 4.4 / 4.5 , Turbo C++ 4.5	BCS4L1- Database Management System	Mr. M. Vinoth	Lab Instructor
		Intel Core i3 Processor	JDK 8	BCS4L2 - Operating System Lab			
		Mother Board	Informatica, Weka 3.9,Rapid Miner	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L3 - Programming in Java Lab			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor					
		USB Mouse, USB Keyboard					
		USB Keyboard					
Computer Laboratory - 5 (ODD Semester)	60 (1 computer per student)	Lenovo	Oracle 10g ,SQL Server Management studio	BCS5L2 - Software Engineering Lab	Mr.S.Rajesh	Lab Instructor	B.E
		Intel Core i3 Processor	Turbo C++ 4.5				
		Mother Board	JDK 8	BCS5L1 - Networking Lab			
		2GB Ram	Visual basic 6.0				



ter)		500GB HDD	Windows 7				
		19.5” LCD Monitor	NS2, OPNET				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 5 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux kernel 4.4 / 4.5	BCS4L1- Database Management System	Mr.S.Rajesh	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8	BCS4L2 - Operating System Lab			
		Mother Board	Turbo C++ 4.5	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L3 - Programming in Java Lab			
		500GB HDD					
		19.5” LCD Monitor					
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 6 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS5L2 - Software Engineering Lab	Mr.S.Rajesh	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS5L1 - Networking Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram 500GB HDD 19.5” LCD Monitor USB Mouse	Oracle 10g, SQL Server Management Studio				
		USB Keyboard	Visual basic 6.0				
Computer Laboratory - 6 (EVEN Semester)	60 (1 computer per student)	Lenovo	Windows 7	BCS4L1- Database Management System BCS4L2 - Operating System Lab	Mr.S.Rajesh	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L3 - Computer Graphics and Multimedia Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 7	60 (1 computer per student)	Lenovo	Windows 7,	BCS3L2 - Object Oriented Programming Lab	Mr. G. Hariharan	Lab Instructor	B.Tech
		Intel Core i3 Processor	Linux, Turbo C++ 4.5	BCS3L1 - Data Structures Lab			



(ODD Semester)		Mother Board					
	2GB Ram	JDK 8, PEARL					
	500GB HDD	Appache, XAMPP					
	19.5” LCD Monitor	Visual Studio 2016					
	USB Mouse	Microsoft Visual C++					
	USB Keyboard						
Computer Laboratory - 7 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux kernel 4.4 / 4.5	BCS4L1- Database Management System	Mr. G. Hariharan	Lab Instructor	B.Tech
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L2 - Operating System Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse					
		USB Keyboard					
Computer Laboratory - 8 (ODD Semester)	60 (1 computer per student)	Lenovo		Windows 10 pro,	BCS3L2 - Object Oriented Programming Lab	Mr. S. Pravin	Lab Instructor
		Intel Core i3 Processor	Linux, Turbo C++ 4.5	BCS3L1 - Data Structures Lab			
		Mother Board					
		2GB Ram	JDK 8, PEARL				
		500GB HDD					
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Microsoft Visual C++				
		USB Keyboard					
Computer Laboratory - 8 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS4L1- Database Management System	Mr. S. Pravin	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L2 - Operating System Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L2 - C# & .Net Lab			
		500GB HDD	Appache, XAMPP				



		19.5" LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 9 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS3L2 - Object Oriented Programming Lab	Mr. R. J. Praveen	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L1 - Data Structures Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5" LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 9 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS4L1- Database Management System	Mr. R. J. Praveen	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L2 - Operating System Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L2 - C# & .Net Lab			
		500GB HDD	Appache, XAMPP				
		19.5" LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 10 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS3L2 - Object Oriented Programming Lab	Mr. S. Sakthi krishna Kumar	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L1 - Data Structures Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5" LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Labor	60 (1 computer per	Lenovo	Linux, Turbo C++ 4.5	BCS6L1 - Data Warehousing and Data Mining	Mr. S. Sakthi krishna	Lab Instructor	B.E



atory - 10 (EVEN Semester)	student)	Intel Core i3 Processor	JDK 8, PEARL	BCS4L2 - Operating System Lab	Kumar		
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L2 - C# & .Net Lab			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 11 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS3L2 - Object Oriented Programming Lab	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L1 - Data Structures Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 11(EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS6L1 - Data Warehousing and Data Mining	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L2 - Operating System Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L2 - C# & .Net Lab			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 12 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS3L2 - Object Oriented Programming Lab	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L1 - Data Structures Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				



		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 12 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS6L1 - Data Warehousing and Data Mining	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L2 - Operating System Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L2 - C# & .Net Lab			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory – 13 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS3L2 - Object Oriented Programming Lab	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L1 - Data Structures Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 13 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS6L1 - Data Warehousing and Data Mining	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L2 - Operating System Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L3 - Computer Graphics and Multimedia Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6L2 - C# & .Net Lab			
		500GB HDD	Appache, XAMPP				



		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 14 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS8P1 - Project Work	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L3 - Computer Graphics and Multimedia Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 15 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS8P1 - Project Work	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L3 - Computer Graphics and Multimedia Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					

2017-2018

Name of The Laboratory	No of Students per Batch	System Configuration	Softwares Installed	Weekly Utilization Status (All the Courses for which Lab is Utilized)	Technical Manpower Support		
					Name of the Technical Staff	Designation	Qualification
Computer Laboratory - 1 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS3L1 - Data Structure Lab	Mr. G. Karthick	Lab Instructor	B.tech., M.Tech
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L2 - Object Oriented Programming Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS7L1 - Computer Graphics Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB	Appache, XAMPP				



		HDD					
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 1 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS4L2 - Operating System Lab	Mr. G. Karthick	Lab Instructor	B.tech., M.Tech
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L3 - Computer Graphics and Multimedia Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L1 - Database Management System Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 - Mini Project			
		500GB HDD	Appache, XAMPP	BCS6L1 - Data Warehousing and Data Mining Lab			
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 2 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS3L1 - Data Structure Lab	Mr. M. Karthick	Lab Instructor	DCSE
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L2 - Object Oriented Programming Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 2 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS4L2 - Operating System Lab	Mr. M. Karthick	Lab Instructor	DCSE
		Intel Core i3 Processor	JDK 8, PEARL	BCS4L3 - Computer Graphics and Multimedia Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS6P1 - Mini Project			
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD	Visual Studio 2016				



		Monitor					
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 3 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS5L11- Network Lab	Mr. P. Vinoth	Lab Instructor	B.E., M.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS3L1 - Data Structure Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BEC5L1 - Micro Processor Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS5L2 - Software Engineering Lab			
		500GB HDD	Appache, XAMPP	BCS3L2 - Object Oriented Programming Lab			
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 3 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS6L3 - Programming in Java Lab	Mr. P. Vinoth	Lab Instructor	B.E., M.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS6L2 - C # and .Net Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS4L1 - Database Management System Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 4 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS7L1 - Computer Graphics Lab	Mr. M. Vinoth	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BEC5L1 - Micro Processor Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS5L2 - Software Engineering Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS5L11- Network Lab			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB					



		Keyboard					
Computer Laboratory - 4 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS6L2 - C # and .Net Lab	Mr. M. Vinoth	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS6L3 - Programming in Java Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS6L1 - Data Warehousing and Data Mining Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 - Mini Project			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 5 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS7L1 - Computer Graphics Lab	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BEC5L1 - Micro Processor Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS5L2 - Software Engineering Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS5L11- Network Lab			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory – 5 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS6L2 - C # and .Net Lab	Mrs.V.Priyanka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS6L3 - Programming in Java Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS6L1 - Data Warehousing and Data Mining Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 - Mini Project			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Comput	60 (1	Lenovo	Linux, Turbo C++	BCS7L1 - omputer	Mrs.V.Priy	Lab	B.E



er Laborat ory - 6 ODD Semeste r)	comp uter per studen t)		4.5	Graphics Lab	anka	Instructor	
		Intel Core i3 Processor	JDK 8, PEARL	BEC5L1 - Micro Processor Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS5L2 - ofware Engineering Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS5L11- Network Lab			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Comput er Laborat ory - 6 (EVEN Semeste r)	60 (1 comp uter per studen t)	Lenovo	Linux, Turbo C++ 4.5	BCS6L2 - C # and .Net Lab	Mrs.V.Priy anka	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS6L3 - Programming in Java Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS6L1 - Data Warehousing and Data Mining Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio	BCS6P1 - Mini Project			
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Comput er Laborat ory - 7 (ODD Semeste r)	60 (1 comp uter per studen t)	Lenovo	Linux, Turbo C++ 4.5	BSE7L1 - Unix Lab	Mr. G. Hariharan	Lab Instructor	B.Tech
		Intel Core i3 Processor	JDK 8, PEARL	BCS5L2 - Software Engineering Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BCS5L11- Network Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Comput er Laborat ory - 7	60 (1 comp uter per	Lenovo	Linux, Turbo C++ 4.5	BCS6L3 - Programming in Java Lab	Mr. G. Hariharan	Lab Instructor	B.Tech
		Intel Core i3	JDK 8, PEARL	BCS8P1 - Project Work Phase - II			



(EVEN Semester)	student)	Processor		BCS6L1 - Data Warehousing and Data Mining Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					

Computer Laboratory - 8 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS7L2 - Web Technology Lab	Mr. S. Pravin	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BCS5L11- Network Lab			
		Mother Board	Rapid Miner, Lex/Yacc	BSE7L1 - Unix Lab			
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 8 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS8P1 - Project Work Phase - II	Mr. S. Pravin	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL				
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 9 (ODD	60 (1 computer per	Lenovo	Linux, Turbo C++ 4.5	BCS7P1 - Project Phase-1	Mr. R. J. Praveen	Lab Instructor	B.E



Semester)	student)	Intel Core i3 Processor	JDK 8, PEARL	BSE7L1 - Unix Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 9 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS8P1 - Project Work Phase - II	Mr. R. J. Praveen	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL				
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 10 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS7P1 - Project Phase-1	Mr. S. Sakthi krishna Kumar	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BSE7L1 - Unix Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 10 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS8P1 - Project Work Phase - II	Mr. S. Sakthi krishna Kumar	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL				
		Mother Board	Rapid Miner, Lex/Yacc				



		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 11 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS7P1 - Project Phase-1	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BSE7L1 - Unix Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 11 (EVEN Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS8P1 - Project Work Phase - II	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL				
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica (Free T)				
		USB Keyboard					
Computer Laboratory - 12 (ODD Semester)	60 (1 computer per student)	Lenovo	Linux, Turbo C++ 4.5	BCS7P1 - Project Phase-1	Mr.M. Anthony Jijo	Lab Instructor	B.E
		Intel Core i3 Processor	JDK 8, PEARL	BSE7L1 - Unix Lab			
		Mother Board	Rapid Miner, Lex/Yacc				
		2GB Ram	Oracle 10g, SQL Server Management Studio				
		500GB HDD	Appache, XAMPP				
		19.5” LCD Monitor	Visual Studio 2016				
		USB Mouse	Informatica				



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6.2 Laboratories Maintenance and Overall Ambience (10)

Laboratories Maintenance:

- The department has around 1150 computers in 3 labs and each lab has 60 to 70 computers.
- Student and faculty login register is maintained by the lab instructor of each bay.
- The equipment's are checked regularly at the end of every semester.
- Separate stock registers are maintained in each lab.
- The general software and hardware issues are solved by the lab instructor.
- The arrangements, setting and environment of the laboratory encourage the students to perform their practical carefully in a congenial environment.
- Blowers are used to blow/remove dust in the computer.
- Internet and its usages are maintained by a team of instructors and programmers. They maintain the daily band width, usage, band width allocation, sharing etc.
- Annual Maintenance Contract (AMC) is given for all UPS in Computer Laboratory.
- The complex issues of the system are forwarded to Computer Maintenance Cell (CMC).
- The CMC will replace the non-working systems and equipment by the new machines through purchase request to the purchase



department.

Overall Ambience:

- The laboratories are designed with proper ventilations sufficient entry and exit gate.
- Effective lighting system is available at every corner of the laboratories.
- In case of power failure Emergency light connections are available.
- Cup-boards are provided for students to place their belongings.
- Each lab is equipped with white/black board, projectors, computer, Internet, CCTV camera and such other amenities.
- The laboratories are facilitated with proper air conditioning systems.
- The computers in all the laboratories are connected with Uninterruptible Power Supply [UPS].
- Separate rooms are allotted for maintaining UPS and batteries.

6.3 Safety Measures in Laboratories (10)

Name of the Laboratory	Safety Measures
Computer Laboratory-1 to 16	• First Aid box with sufficient general drugs are available the students and faculty members, foremergency use. • The codes of conduct that are to be followed by the students inside the laboratory are displayed in the notice boards. • Constant periodic review of the equipment in the laboratory is done by electricians. • Fire extinguishers are kept in the laboratory.



6.2 Project laboratory (20) Location: Computer Laboratory – Room No.: 301

Degree	Year	System Configuration/ Software	No. of Batches/ No. of Students	Utilization in Hours
B. Tech BCS7P1-Project work phase- I	2017 - 18	<u>Hardware</u> Lenovo Intel Core i3 Processor, Mother Board, 2GB Ram, 500GB HDD, 19.5” LCD Monitor	30 / 60	24 hours (3 days/week)
B. Tech BCS8P1-Project work phase- II	2017 - 18		30 / 60	24 hours (3 days/week)
B. Tech BCS8P1- Project work	2018- 19	<u>Softwares</u> Linux, Turbo C++ 4.5 JDK 8, PEARL, Rapid Miner, Lex/Yacc, MySQL, SQL Server Management Studio, Apache, XAMPP Visual Studio 2016, Informatica	33 /65	24 hours (3 days/week)
B. Tech BCS8P1- Project work	2019-20		30/ 60	24 hours (3 days/week)



CRITERION 7

CONTINUOUS IMPROVEMENT

CRITERION 7	CONTINUOUS IMPROVEMENT	75

7.1. Action taken based on the results of evaluation of each of the COs, POs & PSOs

Identify the areas of weaknesses in the program based on the analysis of evaluation of COs, POs & PSOs attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment year including curriculum intervention, pedagogical initiatives, support system improvements, etc.

Action taken to be written as per table in 3.3.1

POs Attainment Levels and Action taken for improvement – (2020-21) CAY			
POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: An ability to apply knowledge of mathematics, science, and engineering.			
PO1	73	75	1. Target achieved
PO2 : The ability to identify, formulate, and solve engineering problems.			
PO2	75	78	1. Target achieved
PO3 : The ability to design a system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.			
PO3	80	81	1. Target achieved
PO4: The ability to design and conduct experiments, as well as to analyze and interpret data.			
PO4	70	72	1. Target achieved
PO5: The ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			
PO5	75	76	1. Target achieved
PO6: The ability to apply reasoning informed by the knowledge of contemporary issues			
PO6	70	71	1. Target achieved



PO7: The ability to broaden the education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context			
PO7	65	68	1. Target achieved
PO8: The ability to understand professional and ethical responsibility and apply them in engineering practices.			
PO8	72	73	1. Target achieved
PO9: An ability to function on multidisciplinary teams			
PO9	67	67	1. Target achieved
PO10 : The ability to communicate effectively with the engineering community and with society at large.			
PO10	70	73	1. Target achieved
PO11 : The ability in understanding of the engineering and management principles and apply them in project and finance management as a leader and a member in a team.			
PO11	75	76	1. Target achieved
PO12: The ability to recognize and an ability to engage in life-long learning			
PO12	80	80	1. Target achieved

PSOs Attainment Levels and Action taken for improvement – (2019-20) CAYm1

PSOs	Target Level	Attainment Level	Observations
PSO1: Mathematical Concepts: To use mathematical Calculations to Solve the problem Applying mathematical analysis, data structure, Pseudo code and give Appropriate Solutions.			
PSO1	66	68	1. Target achieved
PSO2: Students can solve the fundamental concepts and methodology of computer Techniques and also understand the functions of hardware and software components of different computer systems.			
PSO2	77	78	1. Target achieved
PSO3: Students can understand the process of Software Development Life cycle Steps and also finding hidden skills and knowledge of software development and design process. Familiar in real time experience with a wide area of emerging concepts and			



provide innovative ideas towards Information Technology field.

PSO3	85	85	1. Target achieved

Action taken to be written as per table in 3.3.2

POs Attainment Levels and Action taken for improvement – (2020-2021) CAY			
POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: An ability to apply knowledge of mathematics, science, and engineering.			
PO1	70	70	1. Target achieved
PO2 : The ability to identify, formulate, and solve engineering problems.			
PO2	70	74	1. Target achieved
PO3 : The ability to design a system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.			
PO3	75	79	1. Target achieved
PO4: The ability to design and conduct experiments, as well as to analyze and interpret data.			
PO4	65	68	1. Target achieved
PO5: The ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			
PO5	70	75	1. Target achieved
PO6: The ability to apply reasoning informed by the knowledge of contemporary issues			
PO6	65	68	1. Target achieved
PO7: The ability to broaden the education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.			
PO7	60	63	1. Target achieved
PO8: The ability to understand professional and ethical responsibility and apply them in engineering practices.			



PO8	70	70	1. Target achieved
PO9: An ability to function on multidisciplinary teams			
PO9	65	66	1. Target achieved
PO10 : The ability to communicate effectively with the engineering community and with society at large.			
PO10	65	69	1. Target achieved
PO11 : The ability in understanding of the engineering and management principles and apply them in project and finance management as a leader and a member in a team.			
PO11	70	75	1. Target achieved
PO12: The ability to recognize and an ability to engage in life-long learning			
PO12	75	80	1. Target achieved

PSOs Attainment Levels and Action taken for improvement – (2019-20) CAY

PSOs	Target Level	Attainment Level	Observations
PSO1 Mathematical Concepts: To use mathematical Calculations to Solve the problem Applying mathematical analysis, data structure, Pseudo code and give Appropriate Solutions.			
PSO1	65	67	1. Target achieved
PSO2: Students can solve the fundamental concepts and methodology of computer Techniques and also understand the functions of hardware and software components of different computer systems.			
PSO2	75	76	1. Target achieved
PSO3: Students can understand the process of Software Development Life cycle Steps and also finding hidden skills and knowledge of software development and design process. Familiar in real time experience with a wide area of emerging concepts and provide innovative ideas towards Information Technology field.			
PSO3	80	88	1. Target achieved

7.2. Academic Audit and actions taken thereof during the period of Assessment



Duties and Responsibilities of Academic Audit member

Academic audit is conducted in the institution by an internal expert committee (AAC: Academic Audit Committee) constituted by the Pro VC (Academics). The committee conducts regular audit to ensure the smooth proceedings of Outcome based education and choice based credit system (CBCS). Audit committee member does the auditing as directed by the Pro.VC (Academics) and AAC Head. The documents are collected from the department in a phased manner for analysis of proceedings and suggestions are provided after discussion with Pro VC (Academics). The teaching and Non-teaching staffs are met with to confirm the students' feedback submitted. The academic audit team also meets PG and UG students for taking their feedback about the teaching and learning process. AAC shall conduct internal academic audit and produce the required documents and records to the External Auditor on demand. AAC is also responsible for submission of monthly report, annual report and any other data required to the external auditor and IQAC BIHER.

Responsibilities of Academic Audit member

The academic audit focuses on:

- Assuring quality of Teaching/learning process (CBCS implementation)
- Determining desired learning outcomes and Targets(OBE implementation)
- Implementing quality education (Documents verification)
- Student assessment and evaluation (Feed Back)
-

The academic audit is based on

- ACADEMIC Annual Reports of the Departments
- Feedback from stakeholders
- Presentation of Achievements by the Departments

AUDIT PROCEDURES

The AAC Head shall ensure that data are uploaded / mailed, as the case may be, within the stipulated time. AAC members should conduct internal audit (inter – departmental) of the institution, in academic matters. A group of members decided by the AAC Head shall verify the details of a department; but, a member from the concerned department shall not be a member in the internal audit group.



DOCUMENTS TO BE PRODUCED FOR AUDIT

1. Class Time Table& Faculty Time Table/Work Load
2. Students Roll List
3. Students Batch List (for practical courses, projects& elective courses)
4. Minutes of course/class committees
5. Course log Book for all the courses including practical, seminar, project etc./Work Plan
6. Course File
7. Tutorial Log book
8. Equipment Log register used in Laboratories
9. Consolidated Attendance statement of students
10. Consolidated statement of marks of internal tests
11. Seminar presentation details
12. Project (Mini project/Design project/Final semester project) progress review reports
13. Register of internal evaluation marks
14. Student Activities Log Book(for B.Tech programme only)
15. Log book for summer and contact courses
16. Register of Remedial/Bridge/Language Lab classes
17. Minutes of Discipline, Academic and Student Welfare Committees
18. Consolidated semester grades of students
19. Result Analysis

I.Course file for Lecture based courses:

One course file each for each theory course is to be maintained in the Department for each semester. The Course file shall contain the following documents:

1. Course diaries of all faculty who have engaged the course
2. question paper and scheme of evaluation for 1st and 2nd internal exam, all assignments given, Makeup/ Re-Test given (if any) etc..
3. Previous Year University question papers
4. Sample answer sheets (at least one excellent, one good and one marginal pass) for all internal exams and assignments given) /Softcopy or Hard copy



5. sample tutorial sheets, quiz or any other assessment done
6. all answer sheets of Make-up / Re-Test given (if any)/Softcopy or Hard copy
7. Mapping of Course outcome and Programme outcomes (POs)
8. Industrial relevance of the course, if any

II. Course File for Practical courses:

One course file each for each Practical course has to be maintained in the Department for each semester. Course file shall contain the following documents:

1. Course Diary of all batches
2. Question paper and scheme of evaluation for Lab internal exam, Make-up / Re-Test given (if any) etc.,
3. Sample answer sheets (at least one excellent, one good and one marginal pass) for Lab internal exam)
4. Sample answer sheets (at least one excellent, one good and one marginal pass) for all internal exams and assignments given,
5. sample viva voce, quiz or any other assessment done,
6. Manual and Question bank for the lab
7. Mapping of Course outcome and Programme outcomes (POs)
8. Industrial relevance of the course, if any

III. Course File for Seminar/Projects

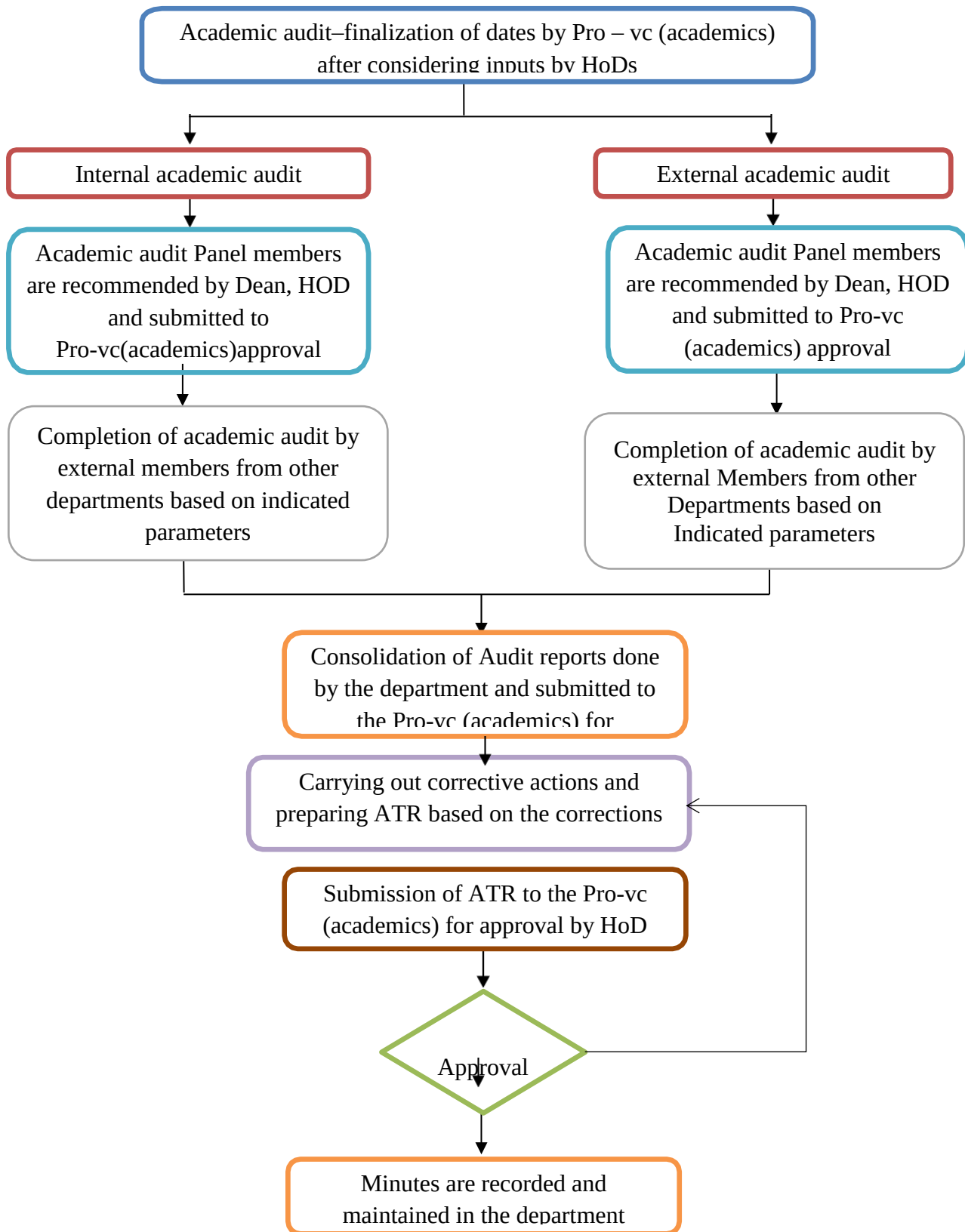
1. Announcement to students regarding the specialization available in the department
2. Allotment of guides with procedure enumeration
3. Rubrics for mark allotment

TEACHING LEARNING PROCESS ASSESSMENT

COMPONENT	SUB ELEMENTS	COMMENTS	SUGGESTIONS
Course File			
	Lesson Plan		
	Instructional Unit		
	Co-relation with CO		
	Distribution of class session for the COs		
	Blooms level covered		
	Assessment		



	Instrument used		
	Remedial Classes for slow learners and backlog students		
	Mentoring System		
	student satisfaction survey		
Question Paper			
	Adoption of IQAC format		
	Domain(cognitive & Psychomotor)		
	Blooms Level		
	level of challenge		
CO-Attainment sheet			
	Course outcome (CO) level		
	Blooms Level		
	CIE-Entry		
	SIE-Entry		
	Exit Survey		
	Attainment		
	Target.		





The department heads are called for a meeting and discussed about the process involving audits and report preparation. All department labs in-charges, tutors and mentors are involved in this discussion and directed to prepare the relevant documents.

The panel members review the following Components:

- ✓ Teaching Learning Process
- ✓ Quality of teaching
- ✓ Effective utilization of laboratory
- ✓ Quality of Internal/External assessment
- ✓ Quality of students project
- ✓ Co-Curricular Activities: Seminar, Guest lecture, Conference workshop, FDP, Value Added Course, Online certification course, Internship, In-Plant training, Webinar, Summer Internships, Snap talk, Extramural Lecture, Seminar day etc.
- ✓ Research activities: Publications, Patents, Proposal
- ✓ Review of faculty members
- ✓ Feedback from the students

On the date of audits, the appointed panel members visit the departments and conduct review based on the following reports available:

- ✓ Details of faculty members
- ✓ Academic calendar of the department
- ✓ Lab manuals
- ✓ Stock registers
- ✓ Internal assessment calculation
- ✓ Course file of each faculty members
- ✓ Feedback of students
- ✓ Internal result analysis
- ✓ Details of placement
- ✓ Course plan for each class
- ✓ Curriculum and Syllabus
- ✓ Inplant training or Internship details



- ✓ Details of Proposals submitted to funding agency
- ✓ Details of Conferences/Seminars/Workshops/Symposiums organized by the department
- ✓ Details of faculty participation in Conferences /Seminars/Workshops/FDPs
- ✓ Details of faculty and student participation in Conferences / Seminars / Workshops / Symposiums
- ✓ Minutes of meetings with the faculties for the last 2 years

Internal Audit members:

2016-2017	2017-2018	2018-2019	2019-2020
Dr. A. Kumaravel Dr. V. Khanna Dr. R. Kavitha	Dr. M. Sangeetha, Dr. S. Prakash ,	Dr. K.Balasubramanian, Dr. T. Rangasamy	Dr. M. Sangeetha, Dr. T. Rangasamy

External auditing committee is framed with the following members

2016-17

1. Dr. K.C. Suresh , Professor , Sai Ram Institute of Technology, Che1.
2. Dr. Antony Doss , Professor , Hindustan Institute of Technology, Chennai.
3. Mr.Pandiyarajan , Assistant Professor , Kalaignar Karunanidhi Institute of Technology , Coimbatore.

2017-18

1. Dr. R. Jagadeesh kannan, Professor & Dean, School of Computing, Vellore Institute of Technology, Chennai.
2. Dr. S. Poongulazhi, Professor & Head, Department of Computer Science and Engineering, Rajalakshmi Engineering College, Chennai.

2018-19

1. Dr. R. Palson Kennedy, Principal, Peri Institute of Technology, Chennai
2. Dr. A. Anotany doss, Professor, Department of Computer Science and Engineering, Hindustan Institute of Technology & Science, Chennai

2019- 20

1. Dr. G. Gunasekaran, Principal, JNN Institute of Engineering, Chennai.
2. Dr. K. L. Shanmuganathan, Principal, Aarupadai Veedu Institute of



7.3. Improvement in Placement, Higher Studies and Entrepreneurship

Placement, Higher Studies and Entrepreneurship have special focus of students. The department organizes Various events such as Orientation address, lectures, training on aptitude, logical, verbal ability, Programming and soft skills, Practice tests, mock recruitment drives, Alumni interactions to achieve placements for all students aspiring to join various organizations. Career guidance programs, GATE training, German training etc. are organized by the department to help students who pursue higher studies, Entrepreneurship awareness, workshops, Guests lectures are organized by the department to help students interested to become entrepreneurs. The following table shows the details of Placements, Higher Studies and Entrepreneurship for the three consecutive years namely.

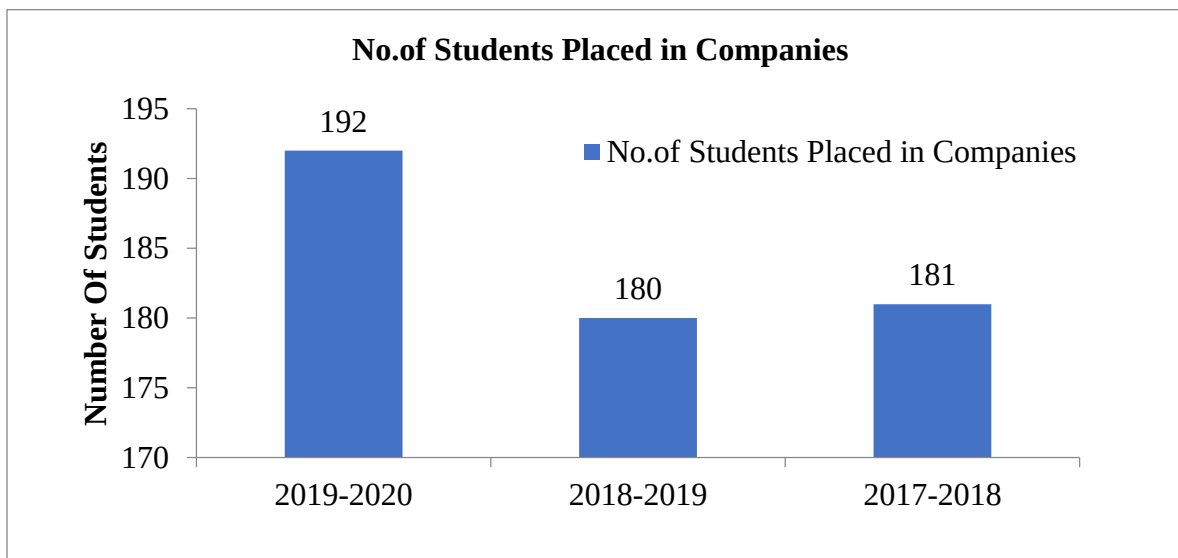
Category	CAYm1 (2019-2020)	CAYm2 (2018-2019)	CAYm2 (2017-2018)
Total No. of Final Year Students appeared in final year Examination (N)	235	240	225
No. of Students Placed in Companies (X)	192	180	181
No. of Students admitted to higher studies with valid qualifying scores (Y)	15	23	20
No. of Students turned entrepreneur in engineering technology (Z)	8	14	05
Total No. of Students Placed +Admitted for Higher Studies + Entrepreneurs	215	217	206
Placement Index:(X+Y+Z)/N	0.91	0.90	0.91

Events Conducted for The Improvement in Placements, Higher Studies and entrepreneurship

Year	Placement	Higher Studies	Entrepreneurship
2019-20	1.Alumini Interaction 2.Training on Core subjects	Parth Vijayvergiya - MS in USA info	Mr. Bhaskar General Manager

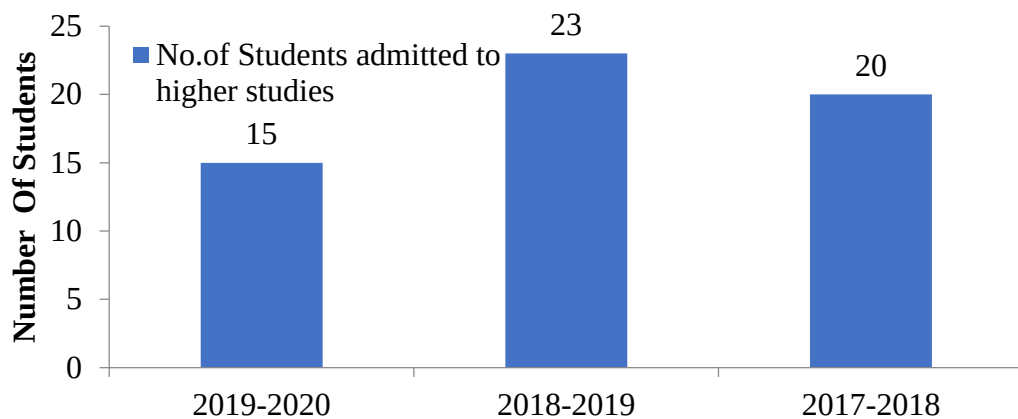


	3.Training on Aptitudes and programming languages	session Objective: Group Guidance, Personal questions, Admission process	In KIML- Objective: Identification of opportunities in entrepreneurship
2018-19	1.Alumini Interaction 2.Training on Core subjects 3.Training on Aptitudes and programming languages	Nikhelish Dhure - Info Session on the study in Germany Objective: Group Guidance, Free education in Germany and cost of living	Ms.Kavitha.S Founder of SOUNTH INDIA CASHEWS- Objective: Knowledge of funding an entrepreneur
2017-18	1.Alumini Interaction 2.Training on Core subjects 3.Training on Aptitudes and programming languages	Yudi J - MS in the USA Objective: Applying for MS,admission for Ivy League Universities	Ms. Divya S, Founder of Sinthanai Sei- Objective: Challenges and opportunities

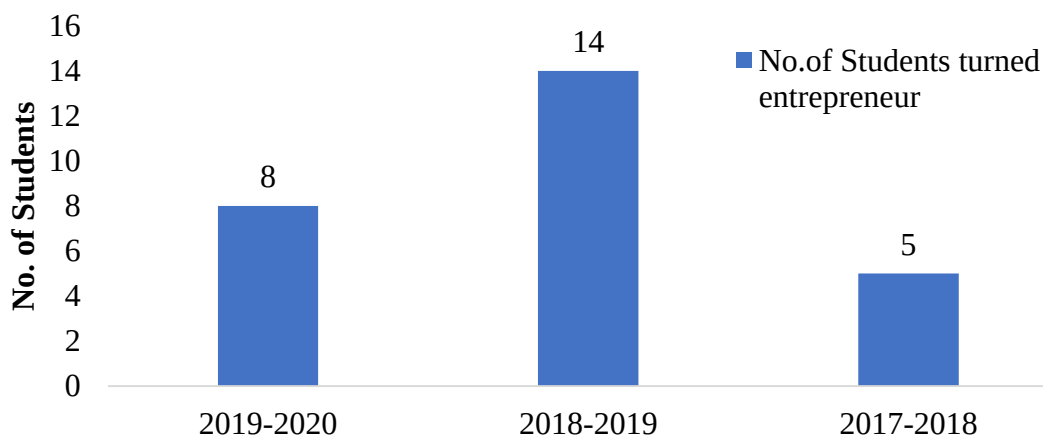




No.of Students admitted to higher studies

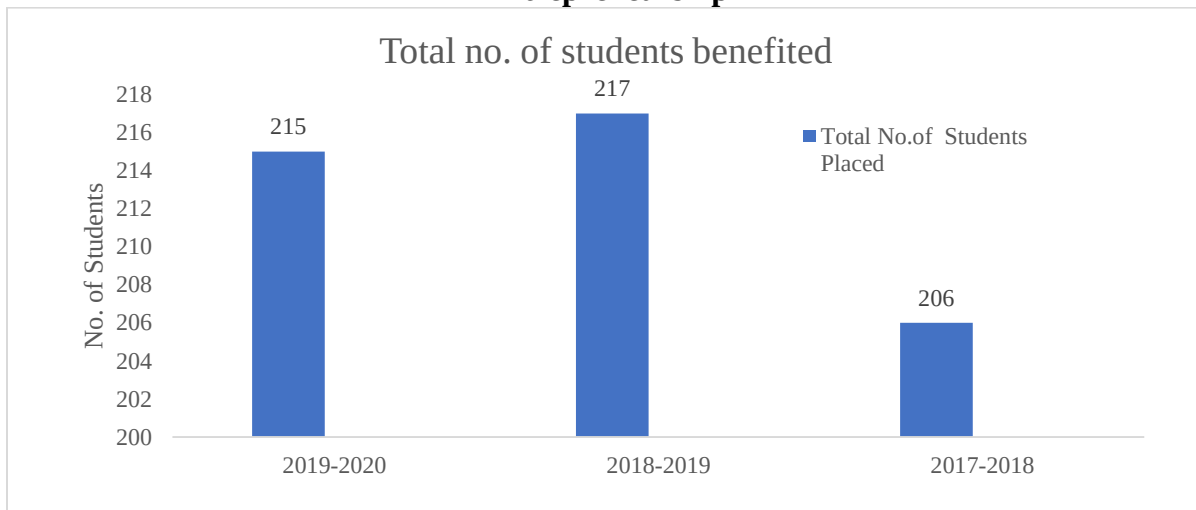


No.of Students turned into entrepreneur





Overall Students Improvement Index in Placement, Higher Studies and Entrepreneurship



7.4. Improvement in the Quality of Students Admitted to the Program

ITEM		2019-20	2018-19	2017-18	2016-17
National Level Entrance Examination (Name of the Entrance examination)	No. of Students admitted	-	-	-	-
	Opening Score/Rank	-	-	-	-
	Closing Score/Rank	-	-	-	-
State/Institute/Level Entrance Examination/Others (Name of the Entrance Examination)	No. of Students admitted	1133	772	728	90
	Opening Score/Rank	198.45	197.33	194.25	193.25
	Closing Score/Rank	180.38	176.96	165.48	159.47
Name of the Entrance Examination for Lateral Entry or lateral entry details	No. of Students admitted	2	35	20	15
	Opening Score/Rank	-	-	-	-
	Closing Score/Rank	-	-	-	-
Average CBSE /Any other Board Result of admitted students (Physics, Chemistry & Mathematics)		179.50	174.36	163.597	160.45



CRITERION 8	FIRST YEAR ACADEMICS	75

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Details of student faculty ratio for first year is as shown in table 8.1

Table 8.1 Details of student- faculty ratio for first year

Year	Number of Students (Approved)	Number of Students (Intake)	Numbers of Faculty Members (Considering fractional load)	FYSFR	Assessment = $(5 \times 15) / \text{FYSFR}$ (Limited to Max. 5)
CAY (2020-21)	3120	1744	208	15	5
CAY m1 (2019-20)	3120	2369	208	15	5
CAYm2 (2018-19)	4800	1951	320	15	5
CAYm3 (2017-18)	2400	2300	160	15	5
Average		2091	224	15	5

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = $(5x + 3y) / \text{RF}$

x= Number of Regular Faculty with Ph.D.

y = Number of Regular Faculty with Post-graduate qualification

RF= Number of faculty members required as per SFR of 15:1

Table 8.2.A Qualification of Faculty Teaching First Year Common Course



Year	X	Y	RF	Assessment of Faculty qualification $(5x+3y)/RF$
CAY (2020-21)	18	33	249	0.76
CAY m1 (2019-20)	18	53	117	1.7
CAYm2 (2018-19)	18	53	47	5
CAYm3 (2017-18)				
Average	18	46	138	2.49

**Bharath****INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

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(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)**Table 8.2.B Details of qualification of faculty teaching first year 2020-21**

S.No	Faculty Name	Qualification	Designation	Distribution of teaching load (%)		
				1st Year	UG	PG
1	Dr. Manomozhi	M.A.,M.Phil., Ph.D	Professor	100%		
2	Dr. R. Rajakumari	M.A.,M.Phil., Ph.D	Associate Professor	100%		
3	Dr. S. Sajitha	MA., M.Phil.,Ph.D	Associate Professor	100%		
4	Dr.P.Arokianathan	MA., M.Phil.,Ph.D	Associate Professor	100%		
5	Dr.Kastrokumar	MA., M.Phil.,Ph.D	Assistant Professor	100%		
6	Dr.K.Saraswathy	MA., M.Phil.,Ph.D	Assistant Professor	100%		
7	Mr. M. Gopinath	M.A. Mphil.,	Assistant Professor	100%		
8	Ms. A. S. Raagavi	M.A. Mphil.,	Assistant Professor	100%		
9	Ms. Jancy	M.A. Mphil.,	Assistant Professor	100%		
10	Ms. K. Surodusvini	M.A. Mphil.,	Assistant Professor	100%		
11	Ms.S.Subathra	M.A. Mphil.,	Assistant Professor	100%		
12	Mr.V.C.Jain	M.A. Mphil.,	Assistant Professor	100%		
13	Ms.D.Thilagam	M.A. Mphil.,	Assistant Professor	100%		
14	Ms.A.Annie Christy	M.A. Mphil.,	Assistant Professor	100%		



15	Mrs.B.Janua Sherly	M.A. Mphil.,	Assistant Professor	100%		
16	Mr.S.Kumaresan	M.A. Mphil.,	Assistant Professor	100%		
17	Dr. Manimekalai	M.Sc., MPhil., Ph. D	Professor	100%		
18	Dr.R.Amrose Prabhu	M.Sc., M.Phil., Ph.D	Professor	100%		
19	Dr.R.Ravikumar	M.Sc., M.Phil.,Ph.D	Professor	100%		
20	Dr. P.B. Ramesh Babu	M.Sc., M.Phil.,Ph.D.	Professor	100%		
21	Dr. S. R. Prathiba	M.Sc., M.Phil., Ph.D	Associate Professor	100%		
22	Dr. N. Ramya	M.Sc., M.Phil., Ph.D	Associate Professor	100%		
23	Dr. P. Rajasulochana	M.Sc, M.Phil, Ph.D	Associate Professor	100%		
24	Dr.T.Muthulakshmi	M.Sc, M.Phil,Ph.D.	Associate Professor	100%		
25	Dr. T. Jayalakshmi	M.Sc, M.Phil,Ph.D.	Associate Professor	100%		
26	Dr.M.Kavitha	M.Sc, M.Phil,Ph.D.	Assistant Professor	100%		
27	Dr.R.Ishwariya	M.Sc. MPhil.,Ph.D.	Assistant Professor	100%		
28	Dr.M.Siva	M.Sc, M.Phil,Ph.D.	Assistant Professor	100%		
29	Dr.k.Ramalakshmi	M.Sc, M.Phil,Ph.D.	Assistant Professor	100%		
30	Dr.D.Ahima Emilet	M.Sc, M.Phil,Ph.D.	Assistant Professor	100%		
31	Mrs. K. L. Rajashree	M.Sc, M.Phil	Assistant Professor	100%		



32	Ms. Felicia Rajam	M.Sc, M.Phil	Assistant Professor	100%		
33	Ms. Anitha Sampath Kumar	M.E.	Assistant Professor	100%		
34	Ms. S. Aarthi Suriya	M.E.	Assistant Professor	100%		
35	Ms. S. Sherine	M.E.	Assistant Professor	100%		
36	Mr. A. Manikandan	M.E.	Assistant Professor	100%		
37	Dr.R.Velavan Ramasamy	M.Sc, M.Phil,Ph.D.	Professor	100%		
38	Dr. R. Sreelatha	M.Sc, M.Phil,Ph.D.	Professor	100%		
39	Dr.L. Jeyanthi Rebecca	M.Sc, M.Phil,Ph.D.	Professor	100%		
40	Dr.C.Radhika Thaya Kumari	M.Sc, M.Phil Ph.D.	Associate Professor	100%		
41	Dr.K.Seevakan	M.Sc, M.Phil Ph.D.	Associate Professor	100%		
42	Dr.S.Dinesh	M.Sc, M.Phil Ph.D.	Associate Professor	100%		
43	Dr. A. Saravanan	M.Sc, M.Phil,Ph.D.	Associate Professor	100%		
44	Dr. E. Thirumal	M.Sc, M.Phil,Ph.D.	Associate Professor	100%		
45	Dr.K.Thiyagarajan	M.Sc, M.Phil,Ph.D.	Associate Professor	100%		
46	Dr.V.Hemanth Kumar	M.Sc, M.Phil,Ph.D.	Associate Professor	100%		
47	Dr. M. Dhivya	M.E.,Ph.D	Associate Professor	100%		
48	Dr. S. Sivagnanam	M.E.,Ph.D	Associate Professor	100%		



49	Dr. T. Meera	M.E.,Ph.D	Associate Professor	100%		
50	Dr. S. Anandhi	M.Sc, M.Phil,Ph.D.	Assistant Professor	100%		
51	Dr.N.Marimuthu	M.Sc, M.Phil,Ph.D.	Assistant Professor	100%		
52	Ms. R.M. Gokula Lakshmi	M.E	Assistant Professor	100%		
53	Ms. V. Susmetha	M.E	Assistant Professor	100%		
54	Mr. S. Senthil Kumar	M.E	Assistant Professor	100%		
55	Mr. S. Prasath Alias Surendhar	M.E	Assistant Professor	100%		
56	Mr. R. Kishore Kanna	M.E	Assistant Professor	100%		
57	Ms. K. Vijayalakshmi	M.E	Assistant Professor	100%		
58	Dr.P.Kamaraj	M.Sc., MPhil.,Ph.D	Professor	100%		
59	Dr. F. Emerson Solomon	M.Sc., MPhil.,Ph.D	Professor	100%		
60	Dr. A. Manikandan	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
61	Dr.G.Mathubala	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
62	Dr.K.Rajendran	M.Sc.,Ph.D	Associate Professor	100%		
63	Dr.V.L.Chandraboss	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
64	Dr.T.Lakshmikandhan	M.Sc., MPhil.,Ph.D	Associate Professor	100%		

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(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

65	Dr.P.Magesan	M.Sc., MPhil. Ph.D	Associate Professor	100%		
66	Dr.S.Lakshmanan	M.Sc., MPhil. Ph.D	Associate Professor	100%		
67	Dr.S.John Santhosh Kumar	M.Sc., MPhil. Ph.D	Associate Professor	100%		
68	Dr. D. Sivasankaran	M.Sc., MPhil. Ph.D	Associate Professor	100%		
69	Dr. Anbazhagan	M.E., Ph. D	Associate Professor	100%		
70	Dr. G. Padmapriya	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
71	Dr. P. Paulraj	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
72	Dr.G.Gurumoorthy	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
73	Dr.T.Ezhilarasu	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
74	Dr.K.Kannan	M.Sc., MPhil.,Ph.D	Associate Professor	100%		
75	Dr. K. Ramji	M.E., Ph. D	Associate Professor	100%		
76	Dr.Kumar	M.E., Ph. D	Assistant Professor	100%		
77	Ms. S. Geetha	M.E.	Assistant Professor	100%		
78	Dr. K. Balasubramanian	M.E., Ph. D	Professor	100%		
79	Dr. R.J. Golden Renjith	M.E., Ph. D	Associate Professor	100%		
80	Dr. K.Selvakumar	M.E., Ph. D	Associate Professor	100%		
81	Dr. V. Mohanavel	M.E., Ph. D	Associate Professor	100%		



82	Mr. S. Nakkeeran	M.E.	Assistant Professor	100%		
83	Mr. V. Jose Ananth Vino	M.E.	Assistant Professor	100%		
84	Mr. J. Manikandan	M.E.	Assistant Professor	100%		
85	Mr. V.P. Durai Raj	M.E.	Assistant Professor	100%		
86	Mr. Arun V. Rejus Kumar	M.E	Assistant Professor	100%		
87	Dr. M.K. Ilampoornan	M.E., Ph. D	Professor	100%		
88	Dr. V. Jayalakshmi	M.E., Ph. D	Associate Professor	100%		
89	Dr. S. Lakshami	M.E., Ph. D	Associate Professor	100%		
90	Ms. S. Dhivya	M.E.	Assistant Professor	100%		
91	Ms. R. Sathya Priya	M.E.	Assistant Professor	100%		
92	Ms. M. Jeyasudha	M.E.	Assistant Professor	100%		
93	Dr. M. Sangeetha	M.E., Ph. D	Professor	100%		
94	Dr. Percy J. Sephra	M.E., Ph. D	Associate Professor	100%		
95	Dr. V. Gansesan	M.E., Ph. D	Associate Professor	100%		
96	Mr. T. Vijayan	M.E.	Assistant Professor	100%		
97	Ms. K. Subbulakshmi	M.E.	Assistant Professor	100%		
98	Ms. S. Saravana Selvi	M.E.	Assistant Professor	100%		



99	Ms. G. Kanagavalli	M.E.	Assistant Professor	100%		
100	Ms. B. Kalai Selvi	M.E.	Assistant Professor	100%		
101	Mr. R.S. Sidharth Raj	M.E.	Assistant Professor	100%		
102	Dr. S.J. Mohan	M.E., Ph. D	Professor	100%		
103	Dr .B. Saritha	M.E., Ph. D	Associate Professor	100%		
104	Dr. T.P.Meikandaan	M.E., Ph. D	Associate Professor	100%		
105	Mr. K. Venkatraman	M.E.	Assistant Professor	100%		
106	Ms. L. Maria Subashini	M.E.	Assistant Professor	100%		
107	Ms. R. Chitra	M.E.	Assistant Professor	100%		
108	Ms. A. Arunya	M.E.	Assistant Professor	100%		
109	Mr. S. Rajesh	M.E.	Assistant Professor	100%		
110	Dr. Ram Krishna Rao	M.E., Ph. D	Professor	100%		
111	Dr. Angeline Julius	M.E., Ph. D	Associate Professor	100%		
112	Dr. R.R. Remya	M.E., Ph. D	Associate Professor	100%		
113	Ms. D. Sharmila	M.E.	Assistant Professor	100%		
114	Ms. M. Priya	M.E.	Assistant Professor	100%		
115	Ms. T.R. Sambavi	M.E.	Assistant Professor	100%		



116	Ms. S. Poorni	M.E.	Assistant Professor	100%		
117	Ms. S. Ananda Priya	M.Sc., B.Ed	Assistant Professor	100%		
118	Ms. D. Ancy Mary	M.C.A., B.Ed	Assistant Professor	100%		
119	Ms. Atheena	M.A., B.Ed., Dip Montessori	Assistant Professor	100%		
120	Ms. P. Arul Jothi	M.A., B.Ed	Assistant Professor	100%		
121	Ms. Banumathi	M.B.A., DELED	Assistant Professor	100%		
122	Ms. J. Brindha	M.A., B.Ed	Assistant Professor	100%		
123	Ms. R. Devi Bala	M.Sc., MPhil., B.Ed	Assistant Professor	100%		
124	Ms. Felicia Oscar Charles	M.A., B.Ed	Assistant Professor	100%		
125	Ms. J. Illavarasi	M.Sc., B.Ed	Assistant Professor	100%		
126	Ms. D. Perinbam	M.A., B.Ed	Assistant Professor	100%		
127	Ms. S. Ramapriya	M.A., B.Ed	Assistant Professor	100%		
128	Ms. L. Razya Sultana	M.A., B.Ed	Assistant Professor	100%		
129	Ms. N. Uma	M.Sc., B.Ed., D.T.Ed	Assistant Professor	100%		
130	Ms. Vaishali Dixit	M.A., B.Ed	Assistant Professor	100%		
131	Ms. Shylaja	M.C.A., DMPSTT	Assistant Professor	100%		
132	Mrs. Santhi.J	M.Sc., M.Ed., M.Phil.,	Assistant Professor	100%		



133	Mrs.Edel Queen Snowfia	M.A., B.Ed., M.B.A.,	Assistant Professor	100%		
134	Mrs. Malathi.V	M.A., B.Ed., M.Phil.,	Assistant Professor	100%		
135	Mrs. Noorjahan	MCA., D.El.Ed., B.Ed	Assistant Professor	100%		
136	Ms. Divya Bala	B.Tech., MBA., D.El.Ed	Assistant Professor	100%		
137	Mrs. Santhalatchoumy.P	M.A, B.Ed, DECCE, B.Com	Assistant Professor	100%		
138	Mrs. Senthilkumari	M.Sc., M.Phil., M.Ed.,	Assistant Professor	100%		
139	Mr. Iruthayaraj Jacob..E	M.A., B.Ed	Assistant Professor	100%		
140	Mr. Ramesh Sharma	M.Sc., B.Ed., M.Phil.,	Assistant Professor	100%		
141	Mr. Janarthanan	M.A., B.Ed.,	Assistant Professor	100%		
142	Mrs. Gokularathai.R	M.A., B.Ed	Assistant Professor	100%		
143	Mr. Jayaselvam Boliva.F	M.A., B.Ed.,	Assistant Professor	100%		
144	Mr.Kanagaraj.P	M.A., B.Ed, M.Phil	Assistant Professor	100%		
145	Mrs. Malarkodi.K	B.Sc., B.Ed	Assistant Professor	100%		
146	Mrs. Arthi.P	M.Sc., D.T.Ed, B.Ed	Assistant Professor	100%		
147	Ms. Thanimalar.R	MCA	Assistant Professor	100%		
148	Mrs. Victoria.S	B.Sc., B.Ed	Assistant Professor	100%		
149	Mr.Karthik.M	M.A.,	Assistant Professor	100%		



150	Mrs.Mahalakshmi.R	B.Sc.,B.Ed.	Assistant Professor	100%		
151	Ms.Symala Devi.V	B.Tech.	Assistant Professor	100%		
152	Ms. Thenmozhi	B.Sc , B.Ed	Assistant Professor	100%		
153	Ms.Rajalakshmi.M	D.T.Ed	Assistant Professor	100%		
154	Mrs. Gangai.R	D.T.Ed	Assistant Professor	100%		
155	Mrs. Nalandhammal.N	D.T.Ed	Assistant Professor	100%		
156	Mrs. Viji.S	B.A., D.T.Ed	Assistant Professor	100%		
157	Mrs.Ilamathi.P	M.Sc., B.Ed	Assistant Professor	100%		
158	Mrs. Aishwarya.S	B.Sc., B.Ed	Assistant Professor	100%		
159	Mrs.Sasikaladevi	B.Sc., B.Ed	Assistant Professor	100%		
160	Ms. Nandhini.A	B.Sc., B.Ed	Assistant Professor	100%		
161	Mrs. Senbagam.M	M.A., D.T.Ed	Assistant Professor	100%		
162	Mr.Vinoba Gandhi	M.A., D.T.Ed	Assistant Professor	100%		
163	Ms. Sabarimathy.G	B.A.,B.Ed	Assistant Professor	100%		
164	Mrs. Archana.V	Dip.in.Pre, Primary	Assistant Professor	100%		
165	Mrs.Bhargavi.V	B.Sc(Comp)., Advanced Diploma in Montessori	Assistant Professor	100%		

**Bharath****INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)

(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

166	Mrs.Sathya.M	B.Sc., ECCE	Assistant Professor	100%		
167	Ms. Anandhy.T	B.Tech	Assistant Professor	100%		
168	Mr.Prem Kumar	B.P.E., M.P.Ed	Assistant Professor	100%		
169	Mrs. Rajeswari.P	B.Sc., M.P.Ed	Assistant Professor	100%		
170	Mrs. Soundary.K	B.A, M.L.I.S	Assistant Professor	100%		
171	Mr. Babu.S	B.V.A., T.T.C	Assistant Professor	100%		
172	Mr. Timothy Nirmal Kumar J	MCA., MPhil	Assistant Professor	100%		
173	Ms. Gayathri.N	M.A., MPhil	Assistant Professor	100%		
174	Ms. Sathiya.K	M.A., MPhil	Assistant Professor	100%		
175	Ms. Sowmiya.D	M.Sc., MPhil	Assistant Professor	100%		
176	Ms. Tamizharasi.T	M.Com., MPhil	Assistant Professor	100%		
177	Ms. Rajeswari.K	M.COM., B.Ed	Assistant Professor	100%		
178	Ms. Roja.T	M.A., B.Ed	Assistant Professor	100%		
179	Ms. Sivakumar.C	M.A., MPhil	Assistant Professor	100%		
180	Ms. Jeya Sutha.F	M.Sc., MPhil	Assistant Professor	100%		
181	Ms. Saranya.P	M.A.,MPhil., B.Ed	Assistant Professor	100%		

**Bharath****INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)

(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

182	Ms. Sangeetha Duraisamy	M.Sc., MPhil	Assistant Professor	100%		
183	Ms. Neha G Prakash	M.Sc., MPhil	Assistant Professor	100%		
184	Ms. Sharmilaa Saravanan	M.A., MPhil, B.Ed	Assistant Professor	100%		
185	Ms. Premi.T.S	MBA., MPhil	Assistant Professor	100%		
186	Ms. Puviya Rani Krithika.K	M.A., MPhil	Assistant Professor	100%		
187	Ms. Elizabeth Dianal Priya Rani.D	M.A., MPhil	Assistant Professor	100%		
188	Ms. Nancy.R	M.A., MPhil	Assistant Professor	100%		
189	Ms. Hema Preethi.K.R	M.A., MPhil	Assistant Professor	100%		
190	Ms. Geetha.P	M.Sc., MPhil	Assistant Professor	100%		
191	Ms. Saraswathi.R	M.Sc., MPhil	Assistant Professor	100%		
192	Ms. Josephine Regina Mary.T	M.Sc., MPhil	Assistant Professor	100%		
193	Ms. Prabhavathy.R	M.Sc., MPhil	Assistant Professor	100%		
194	Ms. Meera.N	M.Com., MPhil	Assistant Professor	100%		
195	Ms. Wajidbasha.G	M.Sc., MPhil., B.Ed	Assistant Professor	100%		
196	Ms. Ranjitha K	M.B.A., MPhil	Assistant Professor	100%		
197	Ms. Udhaya Kumar.D	M.A., MPhil	Assistant Professor	100%		



198	Ms. Shyamala R	M.C.A., MPhil	Assistant Professor	100%		
199	Ms. Kotteshwari V	M.Com., MPhil	Assistant Professor	100%		
200	Mr. Kesavan.V.S	M.Sc.,MPhil	Assistant Professor	100%		
201	Ms. Girija.T	M.A., MPhil	Assistant Professor	100%		
202	Ms. Nithya.J	M.Sc., MPhil	Assistant Professor	100%		
203	Ms. Sruthi.T	M.A., MPhil	Assistant Professor	100%		
204	Ms. Ramadevi.T	M.A., MPhil	Assistant Professor	100%		
205	Ms. Jothi Bai.J	M.A., MPhil	Assistant Professor	100%		
206	Ms. Hema.K	M.Sc., MPhil	Assistant Professor	100%		
207	Ms. Ramya Sri.M	M.A., MPhil	Assistant Professor	100%		
208	Mr. Arun Kumar A T	M.Sc., MPhil	Assistant Professor	100%		

Table 8.3.B Details of qualification of faculty teaching first year 2018-19

S. NO	Name of Faculty	Qualification	Designation	Date of joining institution	Department with which associated	Distribution of teaching load (%)		
						1st Year	UG	PG
1.	Mr. M. Gopinath	M.Phil.	Assistant Professor		ENGLISH	100%	-	-



2.	Ms. V. Suvilla	M.Phil.	Assistant professor	18.01.2018	ENGLISH			
3.	Ms. J. Yogeshwari	M.Phil.	Assistant professor	03.01.2018	ENGLISH			
4.	Ms. R Elizabeth Kavitha	M.Phil.	Assistant professor	01.11.2017	ENGLISH	100%	-	-
5.	Ms. G. Kalpana	M.Phil.	Assistant professor	06.08.2018	ENGLISH			
6.	Mr. C. Daniel Jaya Rajan	M.Phil.	Assistant professor	20.09.2018	ENGLISH	100%	-	-
7.	Ms. S.Beryl	M.Phil.	Assistant professor		MATHS	100%	-	-
8.	Ms. Malarvizhi	M.Phil.	Assistant professor		MATHS	100%	-	-
9.	Mr. S.R.Vivek Kumaran	M.Phil.	Assistant professor		MATHS	100%	-	-
10	Ms. Aishwarya	M.Phil.	Assistant professor		MATHS	100%	-	-
11	Ms. V.S.A.Thamizharasi	M.Phil.	Assistant professor		MATHS	100%	-	-
12	Ms. Pavi	M.Phil.	Assistant professor		MATHS	100%	-	-
13	Ms. P.J.Kaviitha	M.Phil.	Assistant professor	31.07.2015	MATHS	100%		
14	Mr. Sundarapandian	M.Phil.	Assistant professor		MATHS	100%	-	-
15	Ms. Deepa	Ph.D.	Associate professor		MATHS	100%	-	-
16	Ms. K. Nandhini Devi	M.Phil.	Assistant professor	26.07.2018	MATHS	100%		



17	Mr. A. Elumalai	Ph.D.	Associate professor		MATHS	100%	-	-
18	Dr. Velavan R	Ph.D.	Associate professor		PHYSICS	100%	-	-
19	Dr. Sree Latha.R	Ph.D.	Associate professor		PHYSICS	100%	-	-
20	Ms.Radhika.C	M.Phil.	Assistant Professor		PHYSICS	100%	-	-
21	Ms.Suganya.R	M.Phil.	Assistant professor		PHYSICS	100%	-	-
22	Ms.Sheeba.B	M.Phil.	Assistant professor		PHYSICS	100%	-	-
23	Mr.K.Seevakan	M.Phil.	Assistant professor		PHYSICS	100%	-	-
24	Ms.P.Antony Lyla	M.Phil.	Assistant professor		PHYSICS	100%	-	-
25	Dr. S.Bharanidharan	Ph.D.	Associate professor		PHYSICS	100%	-	-
26	Dr.N.Swarna Sowmya	Ph.D.	Associate professor		PHYSICS	100%	-	-
27	Mr.Sathiyamoorthy	M.Phil.	Assistant professor		PHYSICS	100%	-	-
28	Dr. A.Manikandan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
29	Dr. G.Mathubala	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
30	Dr. Rajendran	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
31	Dr. V.Jeyachandran	Ph.D.	Associate professor		CHEMISTRY	100%	-	-



32	Dr. V.L.Chandraboss	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
33	Dr. Lakshmikandhan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
34	Dr. P.Magesan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
35	Ms..M. Subhashini	Ph.D.	Associate professor	06.08.2018	CHEMISTRY			
36	Dr. K.I.Dhanalakshmi	Ph.D.	Associate professor	12.07.2017	CHEMISTRY	100%	-	-
37	Dr. M.Vedamalai	Ph.D.	Associate professor	12.07.2017	CHEMISTRY	100%	-	-
38	Dr. D.Manikandan	Ph.D.	Associate professor	12.07.2017	CHEMISTRY	100%	-	-
39	Dr. T.Rajesh Kumar	Ph.D.	Associate professor	08.02.2018	CHEMISTRY	100%	-	-
40	Ms.V. Jayalakshmi	M.Phil.	Assistant professor	08.02.2018	CHEMISTRY	100%	-	-
41	Ms.Priyapradeep	M.Phil.	Assistant professor		BIOLOGY	100%	-	-
42	Ms.S.Poorni	M.Phil.	Assistant professor		BIOLOGY	100%	-	-
43	Ms.K.Venkateswari	M.E	Assistant professor		EEE	100%	-	-
44	Ms.S.Dhivya	M.E	Assistant professor		EEE	100%	-	-
45	Ms.R.Sathya Priya	M.E	Assistant professor		EEE	50%	50%	-



46	Ms.G.Jeyalakshmi	M.E	Assistant professor		EEE	100%	-	-
47	Mr.A.Saravana Kumar	M.E	Assistant professor		Mech	100%	-	-
48	Mr.Shabir	M.E	Assistant professor		Mech	50%	50%	-
49	Mr.Arun	M.E	Assistant professor		Mech	100%	-	-
50	Mr.T.Manikandan	M.E	Assistant professor		Mech	100%	-	-
51	Mr.Thirumavalavan	M.E	Assistant professor		Mech	100%	-	-
52	Mr.Srinivasan	M.E	Assistant professor		Mech	100%	-	-

Table 8.3.C Details of qualification of faculty teaching first year 2017-18

S. NO	Name of Faculty	Qualification	Designation	Date of joining institution	Department with which associated	Distribution of teaching load (%)		
						1st Year	UG	PG
1.	Ms.Jemima Daniel	M.Phil.	Assistant professor	29.08.2016	ENGLISH	100%	-	-
2.	Mr.R.Vijayaragavan	M.Phil.	Assistant professor		ENGLISH	100%	-	-
3.	Ms.Auxilin Bibina	M.Phil.	Assistant professor		ENGLISH	100%	-	-



4.	Ms.M.Kalainathiyal	Ph.D.	Associate professor	12.07.2017	ENGLISH	100%	-	-
5.	Ms.A.Sangeetha	M.Phil.	Assistant professor	13.07.2017	ENGLISH	100%	-	-
6.	Mr.Suresh	M.Phil.	Assistant professor	01.09.2017	ENGLISH	100%	-	-
7.	Ms.K.R.Subbulakshmi	M.Phil.	Assistant professor		ENGLISH	100%	-	-
8.	Mr.M.Gopinath	M.Phil.	Assistant professor		ENGLISH	100%	-	-
9.	Ms.P. Sumithra	M.Phil.	Assistant professor	06.08.2014	ENGLISH			
10.	Ms.S. Lalitha	M.Phil.	Assistant professor	18.07.2017	ENGLISH			
11.	Ms.N. Shakthi	M.Phil.	Assistant professor	01.11.2017	ENGLISH			
12.	Ms.R Elizabeth Kavitha	M.Phil.	Assistant professor	01.11.2017	ENGLISH			
13.	Ms.K. Janaki	M.Phil.	Assistant professor	01.08.2014	MATHS	100%		
14.	Mr.Bhathmanaban	M.Phil.	Assistant professor		MATHS	100%	-	-
15.	Ms.P.J.Kaviitha	M.Phil.	Assistant professor	31.07.2015	MATHS	100%	-	-
16.	Ms.J.Evangeline Cicelia	M.Phil.	Associate professor		MATHS	100%	-	-
17.	Ms.K.L.Rajashree	M.Phil.	Associate		MATHS	100%	-	-



			professor					
18.	Mr.Vivek Kumaran	M.Phil.	Associate professor		MATHS	100%	-	-
19.	Ms.Silviya Manesh	M.Phil.	Associate professor		MATHS	100%	-	-
20.	Ms.Pavi	M.Phil.	Assistant professor		MATHS	100%	-	-
21.	Ms.K. Karunagaran	M.Phil.	Assistant professor	12.09.2014	MATHS			
22.	Ms.Thamizharasi	M.Phil.	Assistant professor		MATHS	100%	-	-
23.	Ms.J.Aishwarya	M.Phil.	Assistant professor		MATHS	100%	-	-
24.	Dr.Velavan.R	Ph.D.	Associate professor		PHYSICS	100%	-	-
25.	Dr.Sree Latha.R	Ph.D.	Associate professor		PHYSICS	100%	-	-
26.	Ms.Radhika.C	M.Phil.	Associate professor		PHYSICS	100%	-	-
27.	Ms.Myvizhi.P	M.Phil.	Associate professor	06.08.2014	PHYSICS	100%	-	-
28.	Ms.Suganya.R	M.Phil.	Assistant professor		PHYSICS	100%	-	-



29.	Ms.Sheeba.B	M.Phil.	Associate professor		PHYSICS	100%	-	-
30.	Mr.K.Seevakan	M.Phil.	Associate professor		PHYSICS	100%	-	-
31.	Ms.P.Antony Lyla	M.Phil.	Associate professor		PHYSICS	100%		
32.	Ms.N.Selvi	Ph.D.	Associate professor	12.07.2017	PHYSICS	100%	-	-
33.	Mr.P.Sugumar	Ph.D.	Associate professor	12.07.2017	PHYSICS	100%	-	-
34.	Dr.Krithiga	Ph.D.	Associate professor	07.08.2017	PHYSICS	100%	-	-
35.	Mr.D.Muthu Gnana Theresa Nathan	Ph.D.	Associate professor	20.09.2017	PHYSICS	100%	-	-
36.	Dr.S.Bharanidharan	Ph.D.	Associate professor		PHYSICS	100%	-	-
37.	Dr.A.Manikandan	Ph.D.	Associate professor	12.07.2017	CHEMISTRY	100%	-	-
38.	Ms.G.Mathubala	M.Phil.	Associate professor		CHEMISTRY	100%	-	-
39.	Dr.Rajendran	Ph.D.	Associate		CHEMISTRY	100%	-	-



			professor					
40.	Dr.V.Jayachandran	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
41.	Dr.V.L.Chandraboss	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
42.	Dr.K.I. Dhanalakshmi	Ph.D.	Associate professor	12.07.2017	CHEMISTRY	100%	-	-
43.	Dr.P.Magesan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
44.	Dr.M.Vedamalai	Ph.D.	Professor	12.07.2017	CHEMISTRY	100%	-	-
45.	Dr.Lakshmikandhan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
46.	Dr.Sivaranjani	Ph.D.	Associate professor	20.07.2017	CHEMISTRY	100%	-	-
47.	Dr.D.Manikandan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
48.	Mr.S. Pradeep Saravanan	M.Phil.	Assistant professor		CIVIL	100%	-	-
49.	Ms.P.Mugilvani	M.Phil.	Assistant professor		CIVIL	100%	-	-
50.	Ms.K.Venkateswari	M.E	Assistant professor		EEE	100%	-	-



51.	Ms.S.Dhivya	M.E	Assistant professor		EEE	100%	-	-
52.	Ms.R.Sathya Priya	M.E	Assistant professor		EEE	100%	-	-
53.	Ms.D.Prasanna	M.E	Assistant professor		ECE	100%	-	-
54.	Ms.G.Jeyalakshmi	M.E	Assistant professor		ECE	100%	-	-
55.	Ms.V.Sheryl Nivya	M.E	Assistant professor		ECE	100%	-	-
56.	Ms.A.Saravana Kumar	M.E	Assistant professor		MECHANICAL	100%	-	-
57.	Ms.R.Meenakshi	M.E	Assistant professor		MECHANICAL	100%	-	-
58.	Mr.S.Ramalingam	M.E	Assistant professor		MECHANICAL	100%	-	-
59.	Mr.J.Jeswin Arputhabalan	M.E	Assistant professor		MECHANICAL	100%	-	-
60.	Mr.Shabir	M.E	Assistant professor		MECHANICAL	100%	-	-
61.	Mr.Sathish Kumar	M.E	Assistant professor		MECHANICAL	100%	-	-
62.	Mr.R.Arun	M.E	Assistant professor		MECHANICAL	100%	-	-
63.	Mr.N.Elangovan	M.E	Assistant professor		MECHANICAL	100%	-	-
64.	Ms.S.Poorni	M.E	Assistant professor		BIO	100%	-	-
65.	Dr.F.Emerson Solomen	Ph.D.	Associate professor		BIO	100%	-	-



66.	Ms..Nithyasakthi	M.E	Assistant professor		BIO	100%	-	-
67.	Ms.N.Beena	M.E	Assistant professor		FRENCH	100%	-	-
68.	Mr.Thiruvengadam	M.E	Assistant professor		FRENCH	100%	-	-

Table 8.3.D Details of qualification of faculty teaching first year 2016-17

S. NO	Name of Faculty	Qualification	Designation	Date of joining institution	Department with which associated	Distribution of teaching load (%)		
						1st Year	UG	PG
1.	Ms. Jemima Daniel	M.Phil.	Assistant professor	29.08.2016	ENGLISH	100%	-	-
2.	Mr. R.Vijayaragavan	M.Phil.	Assistant professor		ENGLISH	100%	-	-
3.	Ms. Auxilin Bibina	M.Phil.	Assistant professor		ENGLISH	100%	-	-
4.	Ms. M.Kalainathiyal	M.Phil.	Assistant professor		ENGLISH	100%	-	-
5.	Ms. A.Sangeetha	M.Phil.	Assistant professor		ENGLISH	100%	-	-
6.	Mr. Suresh	M.Phil.	Assistant professor		ENGLISH	100%	-	-
7.	Ms. K.R.Subbulakshmi	M.Phil.	Assistant professor		ENGLISH	100%	-	-
8.	Mr. M.Gopinath	M.Phil.	Assistant professor		ENGLISH	100%	-	-



9.	Mr. Bhathmanaban	M.Phil.	Assistant professor		MATHS	100%	-	-
10.	Ms P.J.Kaviitha	M.Phil.	Assistant professor	31.07.2015	MATHS	100%	-	-
11.	Ms. J.Evangeline Cicelia	M.Phil.	Associate professor		MATHS	100%	-	-
12.	Ms. K.L.Rajashree	M.Phil.	Associate professor		MATHS	100%	-	-
13.	Mr. Vivek Kumaran	M.Phil.	Associate professor		MATHS	100%	-	-
14.	Ms. Silviya Manesh	M.Phil.	Associate professor		MATHS	100%	-	-
15.	Ms. Pavi	M.Phil.	Assistant professor		MATHS	100%	-	-
16.	Ms. Thamizharasi	M.Phil.	Assistant professor		MATHS	100%	-	-
17.	Ms. J.Aishwarya	M.Phil.	Assistant professor		MATHS	100%	-	-
18.	Ms. K. Janaki	M.Phil.	Assistant professor	01.08.2014	MATHS	100%		
19.	Mr. R. Krishna Kumar	M.Phil.	Assistant professor	11.07.2007				
20.	Dr. Velavan.R	Ph.D.	Associate		PHYSICS	100%	-	-



			professor					
21.	Dr. Sree Latha.R	Ph.D.	Associate professor		PHYSICS	100%	-	-
22.	Mr. Radhika.C	M.Phil.	Associate professor		PHYSICS	100%	-	-
23.	Ms. Myvizhi.P	M.Phil.	Associate professor	06.08.2014	PHYSICS	100%	-	-
24.	Ms. Suganya.R	M.Phil.	Assistant professor		PHYSICS	100%	-	-
25.	Ms. Sheeba.B	M.Phil.	Associate professor		PHYSICS	100%	-	-
26.	Mr. K.Seevakan	M.Phil.	Associate professor		PHYSICS	100%	-	-
27.	Mr. P.Antony Lyla	M.Phil.	Associate professor		PHYSICS	100%		
28.	Dr. S.Bharanidharan	Ph.D.	Associate professor		PHYSICS	100%	-	-
29.	Dr. R.Thankappan	Ph.D.	Associate professor	17.08.2016	PHYSICS			
30.	Dr. A. Raja	Ph.D.	Associate	08.02.2016				



			professor					
31.	Dr. A.Manikandan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
32.	Ms. G.Mathubala	M.Phil.	Associate professor		CHEMISTRY	100%	-	-
33.	Dr. Rajendran	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
34.	Dr. V.Jayachandran	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
35.	Dr. V.L.Chandraboss	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
36.	Dr. K.I. Dhanalakshmi	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
37.	Dr. P.Magesan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
38.	Dr. M.Vedamalai	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
39.	Dr. Lakshmikandhan	Ph.D.	Associate professor		CHEMISTRY	100%	-	-



40.	Dr. Sivaranjani	Ph.D.	Associate professor		CHEMISTRY	100%	-	-
41.	Dr. V. Krishnasamy	Ph.D.	Associate professor	19.01.2011	CHEMISTRY	100%	-	-
42.	Ms. R. Kalpana Devi	M.Phil.	Assistant professor	17.08.2012	PHYSICS	100%	-	-
43.	Ms. S. Rukmani	M.Phil.	Assistant professor	07.08.2014	PHYSICS	100%	-	-
44.	Ms. D. Padma Priya	M.Phil.	Assistant professor	13.08.2014	PHYSICS	100%	-	-
45.	Dr. R. Narendar	Ph.D.	Associate professor	27.07.2015	PHYSICS	100%	-	-
46.	Mr. S. Pradeep Saravanan	M.E	Assistant professor		CIVIL	100%	-	-
47.	Ms. P.Mugilvani	M.E	Assistant professor		CIVIL	100%	-	-
48.	Ms. K.Venkateswari	M.E	Assistant professor		EEE	100%	-	-
49.	Ms. S.Dhivya	M.E	Assistant professor		EEE	100%	-	-
50.	Ms. R.Sathya Priya	M.E	Assistant professor		EEE	50%	50%	-
51.	Ms. D.Prasanna	M.E	Assistant professor		ECE	100%	-	-
52.	Ms. G.Jeyalakshmi	M.E	Assistant professor		ECE	100%	-	-



53.	Ms. V.Sheryl Nivya	M.E	Assistant professor		ECE	50%	50%	-
54.	Mr. A.Saravana Kumar	M.E	Assistant professor		MECH	100%	-	-
55.	Ms. R.Meenakshi	M.E	Assistant professor		MECH	100%	-	-
56.	Ms. S.Ramalingam	M.E	Assistant professor		MECH	100%	-	-
57.	Mr.J.Jeswin Arputhabalan	M.E	Assistant professor		MECH	100%	-	-
58.	Mr.Shabir	M.E	Assistant professor		MECH	100%	-	-
59.	Mr.Sathish Kumar	M.E	Assistant professor		MECH	100%	-	-
60.	Mr.R.Arun	M.E	Assistant professor		MECH	50%	50%	-
61.	Mr.N.Elangovan	M.E	Assistant professor		MECH	100%	-	-
62.	Ms.S.Poorni	M.Phil.	Assistant professor		BIO	100%	-	-
63.	Dr.F.Emerson Solomen	Ph.D.	Associate professor		BIO	50%	50%	-
64.	Ms.Nithyasakthi	M.Phil.	Assistant professor		BIO	100%	-	-
65.	Ms.N.Beena	M.Phil.	Assistant professor		FRENCH	100%	-	-
66.	Mr.Thiruvengadam	M.Phil.	Assistant professor		FRENCH	100%	-	-



8.3 First Year Academic Performance

Table 8.3. Student Performance in First Year

Year of Entry	Number of Students admitted in first year	Number of Students appeared in Exam	Number of Successful Students	Total Grade Point Average of all Successful students
CAY (2019-20)	2366	2366		7.29
CAYm1 (2018-19)	786	786	762	7.29
CAYm2 (2017-18)	716	716	696	7.41
CAYm3 (2016-17)	179	179	155	7.05
Average Academic Performance				7.25

8.4 Attainment of Course outcomes of First year courses

8.4.1 Describe the Assessment Processes used to gather the data upon which the evaluation of Course Outcomes (CO) of First year is done.

THEORY COURSES

There will be two Internal tests, each carrying weightage of 10 marks, one online test/ assignment carrying weightage of 10 marks and one seminar / quiz carrying weightage of 10 marks. The distribution of marks for various components for the Internal Assessment is shown below in the table:

Table 8.4.1.A Theory Courses Assessment Pattern-Regulation 2015R

Sl. No	Components for Internal Assessment	Syllabus Coverage for the test/exam	Duration of the test in minutes	Marks (Max.)
01	Internal Test - I	2 Units of the Syllabus	90	10



02	Internal Test - II	Next 2 Units of the Syllabus	90	10
03	Seminar / Assignment / Online Test/ Quiz	All 5 units	-	10
Total				30

Table 8.4.1.B. Theory Courses Assessment Pattern-Regulation 2018R

S. No.	Components for Internal Assessment	Syllabus Coverage for the test/exam	Duration of the test in minutes	Marks (Max.)
01	Internal Test - I	2 Units of the Syllabus	90	10
02	Internal Test - II	Next 2 Units of the Syllabus	90	10
03	Seminar / Quiz	All 5 units	-	10
04	Online Test/ Assignment	All 5 units	-	10
Total				40

LABORATORY COURSES

Every practical exercise / experiment in all practical courses will be evaluated based on the conduct of exercise / experiment and records maintained by the students. There will be at least one model practical examination.

The maximum marks for Internal Assessment shall be 50 in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 50 is as follows: 10 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory including observation and 10 marks for record book and 30 marks for the test. The total mark shall be reduced to 50 and rounded to the nearest integer. The criteria for awarding marks for internal assessment are given in Table below.

Table 8.4.1.C Practical Courses Assessment Pattern-Regulation 2015R



Items	Marks (Maximum)
Observation	10
Record	10
Model Practical	20
Total	40

Table 8.4.1.D Practical Courses Assessment Pattern-Regulation 2018R

Items	Marks (Maximum)
Observation	10
Record	10
Model Practical	30
Total	50

8.4.2 Record the attainment of Course Outcomes (CO) of all First Year Courses

The Assessment Process are Carried out based on the Procedure described in Criteria 3. The table below shows the attainment of Course Outcomes through Direct and Indirect Assessment for 2017-2021 Batch.

Table 8.4.2. CO Attainment

Course Code	Course Name	COs	Direct Value	Indirect Value	Total
U18HSEN101	Communicative English	CO1	67	82	70
		CO2	68	82	71
		CO3	62	85	67
		CO4	68	85	72



		CO5	70	82	72
		CO6	73	75	74
U18BSMA101	Engineering Mathematics – I	CO1	52	81.3	57.86
		CO2	58.7	85	63.96
		CO3	45.3	82.7	52.78
		CO4	52	90	59.6
		CO5	49.3	84	56.24
		CO6	54.7	88	61.36
U18BSPH101	Waves and Optics	CO1	76	91	79
		CO2	76	89	78
		CO3	70	88	73
		CO4	72	89	76
		CO5	70	87	73
		CO6	62	80	66
U18BSCH101	Engineering Chemistry	CO1	80	81	80
		CO2	76	73	75
		CO3	77	84	79
		CO4	72	81	74
		CO5	72	84	74
		CO6	79	87	80
U18HSEN201	Technical English	CO1	79	82	79
		CO2	73	82	75
		CO3	83	85	83
		CO4	75	85	77



		CO5	76	82	77
		CO6	76	75	76
U18BSMA201	Engineering Mathematics – II	CO1	52.6	82.3	58.54
		CO2	55.1	85	61.08
		CO3	48.7	74	53.76
		CO4	51.3	92.3	59.5
		CO5	53.8	85.1	60.06
		CO6	46.2	94	55.76
U18BSPH202	Semiconductor Physics	CO1	79	80	79
		CO2	74	85	76
		CO3	69	81	72
		CO4	73	89	76
		CO5	74	78	75
		CO6	66	80	68
U18BSCH201	Environmental Science	CO1	85	80	84
		CO2	82	90	84
		CO3	85	90	86
		CO4	82	85	84
		CO5	85	84	85
		CO6	85	83	85
U18ESCS101	Problem solving and Python Programming	CO1	85	89	86
		CO2	78	90	81
		CO3	83	83	83
		CO4	89	90	89



		CO5	88	94	89
		C06	88	88	88
U18ESCS1L1	Problem solving and Python Programming Lab	CO1	79	93	82
		CO2	77	92	80
		CO3	76	86	73
		CO4	75	96	79
		CO5	78	94	81
		C06	81	94	84



8.5 Attainment of Program Outcomes of all first-year courses

The Following table shows the PO and PSO attainment

Table 8.5 PO and PSO Attainment for the batch (2019-20)

COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PSO2	PSO3
Semester - I																
U18HSEN101	Communicative English	-	79	50	83	77	77	51	77	26	50	83	53	-	-	-
U18BSMA101	Engineering Mathematics I	69.33	69.33	67.56	-	69	-	-	-	-	-	-	-	-	-	-
U18BSPH101	Waves and Optics	78	75	53	-	28	-	-	-	-	74	-	52	-	-	-
U18BSCH101	Engineering Chemistry	77.75	75.83	74.60	76.00	75.00	-	-	-	-	77.60	-	-	-	-	-
U18HSEN201	Technical English	0.00	47	47	67	48	48	72	48	24	47	67	70	-	-	-
Semester - II																
U18BSMA201	Engineering Mathematics II	68	69	79	-	68	-	-	-	-	-	-	69	-	-	-
U18BSPH202	Semiconductor Physics	82	56	57	-	57	-	-	-	-	83	-	57	-	-	-
U18BSCH201	Environmental	80.75	77.25	77.00	80.00	80.67	-	-	-	-	75.00	-	79.67	-	-	-



	Science															



8.5.2 Action taken based on the results of evaluation of relevant POs and PSOs

(The attainment levels by direct (student performance) are to be presented through Program level Course-PO matrix as indicated)

Table 8.5.2.A POs Attainment Levels and Action taken for improvement – CAY (2019-20)

POs	Target Level	Attainment Level	Observations
PO1: The ability to apply knowledge of mathematics, science, and engineering fundamentals.			
PO1	90	90	1. Target achieved 2. Attainment Level need to be improved.
Action Taken: 1. Conducted Induction program to familiarize them to the new environment and to rectify some critical lacunas. 2. Conducted extra classes for physics and mathematics, so that they are able to keep up with what is being taught in the classrooms			
PO2: The ability to identify, formulate, and solve engineering problems			
PO2	90	90	1. Target achieved 2. Attainment Level need to be improved.
Action Taken: 1. The students were found lagging in problem solving part. To overcome this, bridge courses were conducted. 2. Additional coaching classes were conducted beyond the regular planned classes. 3. Conducted workshop handled by industry experts. Conducted research / innovation awareness program among students and faculty members.			
PO 3: The ability to design a system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability			
PO 3	90	91	1. Target achieved 2. Attainment Level need to be improved.
Action Taken: 1. Lab session for Python Programming was paid more attention. 2. Assignments were given to improve their programming skill sets. 3. Health and safety projects are encouraged.			
PO4: The ability to design and conduct experiments, as well as to analyze and interpret data			
PO 4	90	90	1. Target achieved 2. Attainment Level need to be improved.
Action Taken: 1. Conducted project display to improve the problem solving skills.			



2. Organized Group Discussion, Debate, Industrial Visit to organizations to have a real time experience			
3. Conducted Student enrichment programs			
PO 5: The ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			
PO 5	90	90	1. Target achieved 2. Attainment Level need to be improved.
Action Taken:			
1. Arranged guest lecturer and seminar for awareness of modern engineering tools.			
PO 6: The ability to apply reasoning informed by the knowledge of contemporary issues			
PO 6	90	90	1. Target achieved 2. Attainment Level need to be improved.
Action Taken:			
1. Encouraged students to do socially related projects.			
PO 7: The ability to broaden the education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context			
PO 7	85	89	1. Target achieved 2. Attainment Level need to be improved.
Action Taken:			
1. Encouraged students to take up socio-economic based activities.			
2. NSS and YRC volunteers are appreciated and motivated to give seminar relevant to environmental studies, health, safety, legal and cultural issues and the consequent responsibilities relates to the professional engineering practice.			
PO 8: The ability to understand professional and ethical responsibility and apply them in engineering practices			
PO 8	90	89	1. Target not achieved 2. Attainment Level need to be improved in professional and ethical responsibility of Engineering.
Action Taken:			
1. Projects with social cause were awarded with certificate and momentum during the project exhibition.			
2. NSS and YRC activities were carried out to imbibe the ethical responsibility each has towards the society.			
3. Conducted guest lectures to improve the professional responsibility.			
PO 9: The ability to function on multidisciplinary teams			
PO 9	90	89	1. Target not achieved 2. Attainment Level need to be improved in Multidisciplinary skill set.



Action Taken:

1. Conducted an awareness program about the various domains available for projects.
2. Encouraged students to take implant training and group project on multidisciplinary domains.
3. Conducted guest lecture series for Resource Management Techniques by mathematics department.

PO 10: The ability to communicate effectively with the engineering community and with society at large.

PO 10	85	90	1. Target achieved
			2. Attainment Level need to be improved.

Action Taken:

1. Soft skill training conducted by the placement cell.
2. Attention paid to communication skill in the communication lab
3. Special coaching class for foreign languages were conducted to improve the placement opportunities.

PO 11: The ability in understanding of the engineering and management principles and apply them in project and finance management as a leader and a member in a team.

PO 11	85	89	1. Target achieved
			2. Attainment Level need to be improved.

Action Taken:

1. Incentives for product based projects given during the project exhibit.
2. Conducted one-day workshop on “Entrepreneurship development opportunities” to create awareness for entrepreneurial choices.

PO 12: The ability to recognize the need for, and an ability to engage in life-long learning

PO 12	85	90	1. Target achieved
			2. Attainment Level need to be improved.

Action Taken:

1. Encourage students to learn more by recognizing the top rank students with prize and a certificate.
2. Seminar to be conducted on awareness on competitive exams for higher studies.
3. Create case studies for understanding the impact of the subjects in real time.

Table 8.5.2.B PSOs Attainment Levels and Action taken for improvement – CAY (2019-20)

PSOs	Target Level	Attainment Level	Observations



PSO1: Mathematical Concepts: To use mathematical calculations to solve the problem applying mathematical analysis, data structure, pseudo code and give appropriate solutions.

PSO1

85

90

1. Target achieved

Action Taken:

1. Guest lectures on current trends is conducted.
2. Students are encouraged to participate in paper presentation, workshops etc
3. MOU's with organization help the students to learn recent trends with ease.
4. Conduct Brain storming sessions for "Cloud Computing", "Machine Learning" and "Internet Of Things"

PSO2: Computer Skills: Students can solve the fundamental concepts and methodology of computer Techniques and also understand the functions of hardware and software components of different computer systems.

PSO2

85

90

1. Target achieved

Action Taken:

1. Insisted to prepare problem statement based on the IEEE standards.
2. Executed mini projects with focus on the usage of UML diagrams in the design phase.
3. Encouraged the students to use open source software in project development.

PSO3: Software development: Students can understand the process of Software Development Life cycle Steps and also finding hidden skills and knowledge of software development and design process. Familiar in real time experience with a wide area of emerging concepts and provide innovative ideas towards Information Technology field.

PSO3

85

90

1. Target achieved

Action Taken:

1. Encouraged students to take projects with socio-economic impact like agriculture domain.
2. NSS and YRC volunteers are appreciated and motivated to give seminar relevant to societal, health, safety, legal and cultural issues and the consequent responsibilities relates to the professional engineering practice.
3. Conducted awareness program to be digitally empowered thereby to chart a successful career.



CRITERION 9	STUDENT SUPPORT SYSTEM	50

9.1 MENTORING SYSTEM TO HELP AT INDIVIDUAL LEVEL

Effective mentoring of students can be successful only through a good relationship between the students and faculties. Bharath Institute of Higher Education and Research come up with such an environment by concentrating on individual students. Faculty help students in their pursuit of knowledge and maintain close watch. The aspects of mentoring are :

1. Personal Counseling
2. Academic Counseling
3. Career Guidance
4. Motivating students to participate in both technical and non-technical activities at inter-college level.

ROLES AND RESPONSIBILITIES OF CLASS IN-CHARGE

Every batch of students will be allocated with a class In-charge when they enter into the department in second year. The same faculty takes the responsibility till that batch of students completes the program. The responsibilities are

- Being the academic leader of the designated class in the Department.
- To maintain student discipline in the class as per the college policies.
- To address students' queries.
- To provide knowledge about the rules of attendance (general), Industrial Visits, sports, leave etc. to students.
- To keep track of students' attendance and to ascertain whether there is any correlation between their attendance and performance and if so, to what degree.
- To ensure every student of the class is well supported to fulfill his/her learning potential.
- To encourage the students to learn and think out of the box.
- Meeting the parents of students, especially defaulters.
- To provide effective induction programmes and value added courses for students in consultation with HOD.



- Make sure students of the department are regularly attending class and coming to the college in time in proper attire.
- Make sure the academic targets in terms of university results and placement targets in terms of number of students places are met.

CLASS COMMITTEE

A class committee can be formed for each class comprising class representatives, a Chairperson

(Faculty who does not handle any subject for the class), class counselors and faculty members. Two meetings will be conducted per semester for all the classes. The main aim of conducting class committee meeting is to improvise the overall productiveness of teaching learning process. During the meeting, the student representatives from each class represent the entire class students and express their opinions and valuable suggestions for the improvement of teaching learning process. They can also address their grievances. The committee discusses about the ways to improve the performance of students in internal tests. It will scrutinize all the problems and suggest corrective measures. Academic, co-curricular and extra-curricular performance of the students is discussed during the meetings. Announcements regarding assessments, placement training schedules, upcoming academic, co-curricular and extra-curricular events are made in the meetings.

PROCTOR SYSTEM

Proctor system is followed to monitor the progress of the students in academic activities and to guide them in the right direction during the entire four years of their study in the college. Twenty students are allotted to a staff(Proctor). A record is maintained by the proctor about the academic, extra and co curricular activities of the students allocated to him/her. During the first year of their study, the proctor cards are maintained by first year department staff and at the end of the first year, these records will be handed over to the departments in which the students have taken admission. During the next three years, students will be assigned to a proctor from concerned departments. Each student's attendance progress, internal assessment results, results of semester exams, behavior and attitude inside the classrooms and with friends, associations are closely monitored by the mentors. If the proctor feels that any



student requires counseling in any of the above mentioned issues, the student will be counseled. In extreme cases, parents are called to the institution and the students are counseled before them. All the academic activities are intimated to the parents periodically. The proctor cards are maintained for the students throughout the four years of their study.

9.2. Feedback analysis and reward /corrective measures taken, if any

Feedback collected for all courses: YES

Feedback Collection Process

The teaching-learning system followed by any educational institution needs continuous refinement. To capacitate this process of continuous refinement, the institution has adopted a feedback system that takes suggestions from students of each program. This eventually helps to fine-tune the teaching-learning process and the curriculum. The institution follows a well-defined and formal feedback system. It has been identified as one of the important process in our Quality Management System.

The feedback from students regarding the quality of teaching is collected during each semester, through CAMU Feedback system (local server). The students' feedback collection process is depicted in Figure 1. In the middle of the semester, the students are asked to respond to a feedback questionnaire with 20 questions. Once the feedback process is complete, the reports are generated automatically based on the formula. The consolidated report containing grade for each course is sent to the respective Heads of the department and the information is disseminated to the faculty in the department. Corrective actions are taken for the faculty members who have obtained C and D grades by the Head of the Department.

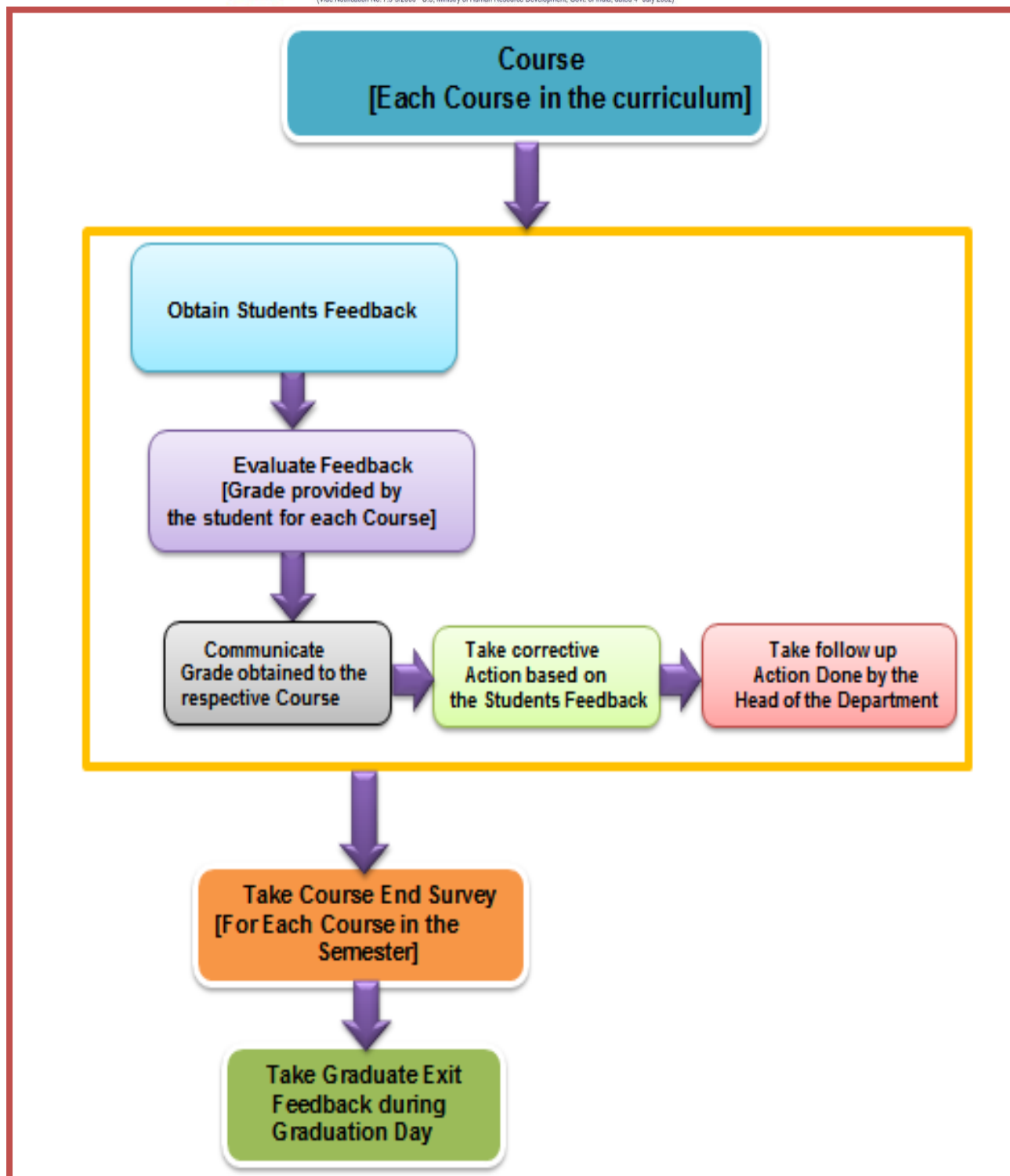


Fig: Student Feedback Process

Student Feedback questionnaire:



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
173, Agaram Main Road, Selaiyur, Chennai – 600 073.

TEACHER EVALUATION FORM

Department _____

Semester/year _____

Use the scale to answer the following questions 1-Strongly Disagree, 2-Disagree, 3-Somewhat Agree, 4-Agree, 5-Strongly Agree		Teachers(T)					
		1	2	3	4	5	6
A.	The Teacher is prepared for each class.						
B.	The Teacher demonstrates knowledge of the Subject.						
C.	Teacher provides additional material apart from the textbook.						
D.	Teacher gives citations regarding current situations						
E.	The Teacher has more associate with reference						
F.	The Teacher refers the subject matter effectively.						
G.	Teacher respects students & encourages participation.						
H.	Maintains an environment that is conducive to learning.						
I.	The Teacher arrives and leaves on time.						
J.	The Teacher is fair in examination & returns on time.						
K.	The Teacher was available for consultations after class						
L.	The Teacher presentation has increased your knowledge on the subject.						
M.	The objectives, requirements, procedures and grading criteria are met by Teacher.						
N.	The course integrates theoretical course concepts met real-world applications.						
O.	The assignments and exams covered the materials presented in the course.						
P.	The course material prepared by the Teacher is modern and updated.						
Q.	Develop effective professional relationships with colleagues, knowing how and when to draw on advice and specialist support						
R.	Make a positive contribution to the wider life and ethos						
S.	Communicate effectively with parents with regard to students' achievements and well-being						
T.	Deploy support staff effectively						

Comments

T1	T2
subject	subject
T3	T4
subject	subject
T5	T6
subject	subject



The evaluation of the feedback by the students is done as follows:



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)
 (Vide Notification No. F9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

$$\text{Marks} = \frac{((\sum S_1) * 5) + ((\sum S_2) * 4) + ((\sum S_3) * 3) + ((\sum S_4) * 2) + ((\sum S_5) * 1)}{X * 100}$$

$$X * 100$$

Where X is the total number of students participated in the feedback collection process.

The grades are assigned with the help of the following grade ranges:

Marks	91-100		81-90	71-80	61-70	56-60	50-55
Grade	S		A	B	C	D	E

Students' feedback regarding the teaching-learning process is also collected from students orally during class committee meetings. At the end of each semester, students are required to complete a semester Course End Survey. In this, students will be required to respond to questions that examine how well they have acquired the skills on learning the respective course and subsequently attainment of COs and thereby POs attainment is computed.

Graduate Exit Feedback Questionnaire



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
STUDENT EXIT SURVEY Date: _____

STUDENT DETAILS			
Name of the student	Roll number	Batch	Email Id

Please indicate your feedback (v) to know the Outcomes obtained from this program using the following scale:

3=Strongly Agree

2=Agree

1 =Partially Agree

0 =Disagree

S.NO	PO Assessment Questions	3	2	1	0
1	Rate your ability to apply knowledge of mathematics, science, and engineering fundamentals after joining BIHER.				
2	Rate the quality of teaching offered by the department to you to identify, formulate, and solve the recent Development in engineering problems.				
3	How efficient are you in developing effective solutions to design a system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				
4	Rate your ability to design and conduct experiments, as well as to analyze and interpret data				
5	Have you learnt any new skills techniques, skills, and modern engineering tools necessary for engineering practice included in the Curriculum?				
6	How better are you in understanding to apply reasoning informed by the knowledge of contemporary issues?				
7	Rate the awareness ability to broaden the education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.				
8	Are you satisfied with your Development of professional and ethical responsibility and apply them in engineering practices.				
9	Are you satisfied with function on multidisciplinary teams your group activity during their course of study?				
10	Rate your comfort while speaking in a large group and do you think that you have acquired communicate effectively with the engineering community and with society at large				
11	Are you satisfied with the engineering and management principles training provided by the Department to you to do interdisciplinary projects and finance management as a leader and a member in a team.				
12	Rate the training provided by the institution recognize the need for, and an ability to engage in life-long learning.				
S.NO	PSO Assessment Questions	3	2	1	0
1	Rate your ability to apply the knowledge of mathematics, Mathematical Calculations to Solve the problem Applying mathematical analysis, data structure, Pseudo code and give Appropriate Solutions.				
2	Rate your ability to apply the knowledge to solve the fundamental concepts and methodology of computer Techniques and also understand the functions of hardware and software components of different computer systems.				
3	Are you satisfied to apply the process of Software Development Life cycle Steps and also finding hidden skills and knowledge of software development and design process. Familiar in real time experience with a wide area of emerging concepts and provide innovative ideas towards Information Technology field.				

Any other Comments:

**Signature with
Date**

Percentage of students who participated:

90 -100%



Feedback analysis process

The feedback collected from students are first analyzed at the level of HOD and then at the level of faculty appraisal committee, headed by the Dean Engineering. The contents of the feedback will be shared with each faculty member individually.

Basis of reward/corrective measures, if any:

The feedback system works as an eye opener for the faculty. Best faculty award is given based on students' feedback, HOD's evaluation, the faculty's self-appraisal report and the marks given by Faculty appraisal committee, headed by Dean Engineering. The increments and promotions are also bearing some effect on these scores. Those with low scores will be counseled and asked to improve their performance in the subsequent semesters by incorporating team teaching and attending pedagogical training and other faculty development programs. The faculty members are constantly motivated by giving rewards. They are given based on the factors performance such as

- Award based on university examination results
- Outstanding Overall performance in Research and publications.
- Award for outstanding Grants and funds received
- Best teacher award is given every year during teachers day celebration
- Appreciation of gratitude towards BIHER (Completion of 8 to 20 of service)

Number of corrective actions taken in the last three years:

- Faculty members whose feedback grade is less were counseled during last three years.
- The counseling led to improvements in their performance and quality of teaching.
- Training for the faculty in the area of interest is given to make them improve the teaching skills.

Number of corrective actions taken during the assessment years:

- 2018-19: 1
- 2017-18: 6
- 2016-17: 6

9.3 Feedback on Facilities



The following feedback on facilities collected from the student to evaluate infrastructure, resources and facilities provided to the students. We gather feedback on what could be improved, and what could be added to improve the quality of campus infrastructure.

FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Ambience				
Number of computers				
Furniture				
Adequate Software				
Antivirus				
Internet Facility				
Interaction with faculty				
Air Conditioner				

FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Cleanliness				
Ventilation				
Blackboard				
Adequate number of Desks				
Lighting and Air Circulation				

FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Accessibility of Wi-Fi for all students				
Bandwidth and reliability				

FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Cleanliness				
Food Quality and hygiene				
Food Serving Services				
Adequate Table and chairs				
Drinking water				
Food sufficiency				



Beverages

—				
FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Availability in all floors				
Quality of water				
—				
FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Ambience				
Seating Capacity				
Audio and Visual Systems				
Podium facility				

—				
FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Ambience				
Air conditioner				
Sufficient Furniture				
Lighting				
Projector				
Visual screen				
Podium Facility				
White Board				

FITNESS CENTRE				
FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Equipments Quality				
Instructor Availability				
Ambience				
Sufficiency				

—				
FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Nurse Availability				
Doctors Availability				
Sufficient Medicines				
First aid Kit and primary health care				

—				
FACILITIES	EXCELLENT	SATISFIED	GOOD	NEED IMPROVEMENT
Adequate space for sports practice				
Instructors availability				



Competitions Engaged				
Motivation from the department				

9.4 Self-Learning

The academic system in the Institution facilitates students to learn beyond the syllabus and curriculum. Our curriculum offers courses like industry field training, project work, MOOC certification course, value added course, technical presentation etc. The components of self-learning are evaluated in these areas.

Facilities and schemes to encourage self-learning:

The details of facilities and schemes available in the institution and the department to encourage self-learning in students are explained as follows:

- The curriculum offers courses like Mini project for third year students, Project and term paper for the final year students where the topics are selected by students themselves or based on suggestions by the supervisor. The component of self-learning is evaluated in these courses.
- Students are motivated to present a stage presentation on a topic of their own with 10 minutes of talk during Technical for improving communication and public speaking skills. It also helps them to overcome stage fear.
- Google Classroom is incorporated in our teaching learning process to interact with students 24X7 by posting technical contents, updated technologies etc.
- Every student has to submit an assignment in every course which has been evaluated for 5 marks. Some of these tasks are beyond syllabus to encourage outstanding students to develop their self-learning capabilities.
- Seminars and works shops are organized for the students to enhance their skill.
- Computer Creativity Club is organized for the students to show case their innovative ideas through developments.
- Intra Departmental Symposium and Inter College Symposiums are conducted to encourage the students to participate in various contests which will help them to learn new technologies.
- Industrial visits are organized every year to give exposure to the students in the environment of real application development. These visits will also give opportunities to students to know the work culture of the organization.



- Students are given on-duty to participate in technical events conducted in other institutions where they are exposed to new technologies and practices.
- Under the guidance of Faculty members students are motivated to present project papers in National/ International conferences organized by premier institutions.
- Students are encouraged to take MOOC courses from platforms such as Course and NPTEL.
- Wi-Fi campus is provided to encourage students can learn through Internet.
- Students are provided with Internet access in all the labs and allow the students to do live coding.
- Students take up competitive examinations like GATE, TANCET, GRE, GMAT and CAT.
- Students can have a broad idea about the current technologies using the books available in the Main/Department Library facilities.

The following table depicts details of facilities available to support self-learning of students:

Facility	Description
Seminar Hall	Separate hall with LCD projector.
Digital Library	Computers with Internet and intranet facilities to access all kinds of E-books and E-journals
Library	Sufficient number of volumes on core and application areas, technology journals
E-learning resources	NPTEL, EBooks, videos
Events that encourage self-learning	1. Seminars 2. Workshops 3. Conferences 4. Guest Lectures 5. Paper presentations outside the Institution 6. Industrial Visits & Trainings

Table.9.4 Self Learning Facilities

9.5 Career Guidance, Training, Placement

The placement cell is exclusively available to improve the students career skills by conducting various training programs. The institution has appointed a Full



time Placement Director and officers who would be the in-charge for providing Career guidance and placement trainings. In addition two Placement Coordinators are being appointed to manage placement activities of their respective department in coordination with the activities of placement cell.

Training & Placement Cell

The aim of Training & Placement Cell of the institute is to look after the students placed in core companies by identifying their knowledge skills, attitude matrices of every individual student, creating job profiles for them, identifying areas of training & various methods as per the training requirement, formulate sequence of activities to meet the training schedules for appropriate placement.

The Training & Placement office provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics.

Activities of the Training & Placement Cell

Both online and offline training is being provided to improve the aptitude and technical skills. The workshops are arranged for improving communication skill, personality development, aptitude and personal interview skills.

- Arranging Guest Lectures regarding interview skills.
- Organizing In plant Trainings & Industrial Visits.
- Conducting training tests through black board, online and offline platforms.
- Providing placement related books and course materials

Career Guidance

- Highlighting articles on departmental notice boards, regarding Competitive Exams and Industrial Career.
- Creating awareness about career planning and career mapping among students
- Providing additional coaching for GATE Exam/ Other Competitive preparation with the help of in-house faculty



and online test series.

- Providing Student counseling and career guidance by incorporating personality and career enhancement courses in the curriculum.
- Providing training on life skills. They are also given training in the area of quantitative aptitude, logical reasoning and verbal reasoning.

Placement

- Providing guidance for preparation of resume.
- Communicating with Alumni for available openings.
- Interacting with industries for campus interviews.
- Arranging/Conducting campus interviews.
- Conducting Mock interviews for the students to build up confidence in facing the interviewers. In this regard, the Panel members are invited from corporate sector and alumni members of the institution.
- Training students on group discussion techniques.

Number of students placed through on-campus and off-campus placements:

Average percentage of placement of outgoing students during the last five years			
Year	Number of students placed	Package received	Program graduated from
2016 – 2017	384	2.40 LPA	CSE,IT,ECE,E&I,EEE,MECH,AUTOMOBILE,AERONAUTICAL,CIVIL,BIO-MEDICAL, MCA & MBA
2017 - 2018	978	2.45 LPA	CSE,IT,ECE,E&I,EEE,MECH,AUTOMOBILE, AERONAUTICAL,CIVIL,BIO-MEDICAL, MCA & MBA
2018 - 2019	702	3 LPA	CSE,IT,ECE,E&I,EEE,MECH,AUTOMOBILE, AERONAUTICAL,CIVIL,BIO-MEDICAL & MBA



Table 9.1 Number of students placed through on-campus and off-campus placements

Table 9.2 Event Program Handled in the year 2018-2019

S.N o	Date	Name of the Programme
1.	19-jul-2018 & 20-jul-2018	Skill Development Programme organized for I year students by Skills Grow .
2.	27-jul-2018	Personality Development Programme conducted for I year students by Hindustan Unilever Limited .
3.	09-08-2018	Internship Recruitment Drive organized by ACCENTURE .
4.	14-08-2018	Communication Skill Development Programme conducted for IV year students by Skills Grow .
5.	20-08-2018 & 21-08-2018	Technical Orientation Programme organized for III and IV year by ANUDIP .
6.	26-08-2018	Online Test organized by INFOSYS .
7.	27-08-2018	Technical and HR round conducted by INFOSYS .
8.	27-08-2018	Campus Orientation Programme organized by LET'S SOLVE .
9.	28-08-2018	Assignment Test conducted for IV year students by FRESHERS WORLD .
10.	28-08-2018	CRT Training Programme conducted for IV year students by GTT .
11.	28-08-2018	Coding Assessment Test organized for IV year students by Expanion .
12.	06-09-2018	Campus Readiness Motivation Program for Hexaware organized for IV year students by M/S. Grade Yourself .
13.	07-09-2018	Campus Orientation Program Conducted for IV year students by HEXAWARE .



14.	10-09-2018	Mark Test conducted for IV year students by CoCubes An Aon Company
15.	18-09-2018	Internship Recruitment Drive conducted by M/S. INTELLECT FACES TECHNOLOGY.
16.	18-09-2018	Online Test conducted for III year by Expansion.
17.	19-09-2018	Internship Recruitment Drive organized for IV year by M/S. Intellect Faces Technology.
18.	22-09-2018	OFF Campus Recruitment Drive organized by Aspire.
19.	26-09-2018	Higher Education Programme conducted for III year by Skills Grow.
20.	22-10-2018 & 26-10-2018	CRT Training organized by Apt Training Resources.
21.	29-11-2018	Campus Orientation program organized for IV year by TATA STRIVE.
22.	13-12-2018	Internship Recruitment Drive conducted for III year by M/S. KUMARAN SYSTEMS.
23.	10-jan-2019	Personality Development Programme organized by M/S. PERSONALITY DEVELOPMENT PROGRAM.
24.	4-FEB-2019	Online Test by Costuco conducted by M/S. EverestIMS Technologies.
25.	7-FEB-2019	Higher Education Seminar conducted for III year by M/S. Princeton Review.
26.	19-FEB-2019	Campus Orientation Program organised by M/S. TATA STRIVE.
27.	25-FEB-2019	Internship conducted for only Female candidates by M/S. Layam Talent Academy.
28.	25-FEB-2019	Seminar Program conducted by M/S. Layam Talent Academy.
29.	25-FEB-2019	Internship Recruitment Drive organised for III year only male candidates by M/S Internet of Things Kabalini Infrastructure pvt. LTD.



30.	04-03-2019	Higher Education Programme conducted for IV year by Higher Education Seminar.
31	05-03-2019	Training conducted for II year by M/S. IAS Academy.
32.	05-03-2019	Online Test Conducted for III year by M/S. FNAT.
33.	06-03-2019	Online Test Conducted for III year by M/S. FNAT.
34.	14-03-2019	Career Development conducted for III year by M/S. Rubicon.
35.	16-MAR-2019	Online Assessment Placement Training conducted by M/S. WIT[women in Technology].
36.	21-MAR-2019	Higher Education Programme organised for II & III year by M/S. University Placement CDC Germany.

Table 9.3 Events conducted / attended during 2017 – 2018

S.No.	Date	Details of the Program
1.	01.08.2017	Expanion organized Online Coding Test for Final year Students
2.	10.08.2017	APT Training Resources conducted CRT Programme for second, third and final year students.
3.	10.08.2017	Expanion conducted Seminar on “ Ethical Hacking ” for Third and Final Year students.
4.	17.08.2017 & 22.08.2017	iON- Tata Consultancy Services conducted online test for Third Year Students.
5.	23.08.2017	Hindustan Unilever Limited organized Skill Development Programme for I, II, III and IV Year Girls.
6.	28.08.2017	Sandcube Conducted Pooled Campus Recruitment Drive for Final Year Students.



7.	22.08.17 to 30.08.17	APT Training Resources conducted CRT programme for second, third and final year students.
8.	31.08.2017	Amtex Conducted Internship Recruitment Drive for Third and Final Year Students.
9.	06.09.2017	Edufic conducted Seminar on “ Recent Trends on IOT ” for Third and Final Year students.
10.	06.09.2017	Hindustan Unilever Limited organized Skill Development Programme for First Year Girls.
11.	07.09.2017	Geome conducted Internship for Third and Final Year Students.
12.	07.09.2017	Webtoall conducted Internship for Third and Final Year Students.
13.	21.09.2017	In22 Labs conducted Campus Recruitment Drive for Final Year Students.
14.	22.09.17 & 25.09.17	GTT conducted Online Assessment Test for Third Year Students.
15.	11.10.17	Amazon conducted Campus Recruitment Drive for Final Year Students.
16.	13.10.17	EDUFIC conducted Campus Recruitment Drive for Final Year Students.
17.	23.10.17	Innovative HR & Training Services Private Ltd conducted Skills Development Programme for First Year Students.
18.	25.10.17	IDBI Federal Life Insurance Co Ltd organized Campus Recruitment Drive for Third and Final year Students.
19.	03.11.17	Data64 organized Campus Recruitment Drive for Third and Final year Students.
20.	03.11.17	Innowis organized Campus Recruitment Drive for Final year Students.



21.	08.11.17	Model Career Centre conducted Faculty Development Programme for Staff Members.
22.	09.11.17	ZoomRx organized Campus Recruitment Drive for Final year Students.
23.	15.11.17 & 16.11.17	Skills Grow organized Workshop on “ Career Communication ” for First Year Students.
24.	20.11.17	TCS iON conducted TCS Open Ignite Program for Final Year Students.
25.	21.11.17	Directi organized Campus Recruitment Drive for Final year Students.
26.	04.12.17	Real Interview conducted OFF Campus Recruitment Drive for Final Year Students.
27.	12.12.17	Tavisca conducted Pooled Campus Recruitment Drive for Final Year Students.
28.	18.12.17	Just Integrate IT conducted Campus Recruitment Drive for Final Year Students.
29.	21.12.17	Just Dial conducted Campus Recruitment Drive for Final Year Students.

Table 9.4 Events conducted / attended during 2016 - 2017

S.No.	Date	Program Details
1.	20.07.2016	Conducted “ Orientation Programme ” by Mr.Bhaskar from M/s. Princeton Review.
2.	20.07.2016	Conducted “ Skill Development Programme ” by Mr.Srikumar from M/s. Skill Grow.
3.	29.07.2016	Conducted “ Language Development Skill Programme ”by M/s. Oxford University Press.
4.	30.07.2016	Conducted “ Language Development Skill Programme ” by M/s. MBIT Wireless.



5.	10.08.2016	Seminar for “Online Technical Communities” can be conducted by M/s. Tata Consultancy Services.
6.	12.08.2016	“Orientation Programme” conducted by M/s. The Princeton Review.
7.	18.08.2016	GRE/GMAT/ Classes Started for our third and final year students conducted by M/s. The Princeton Review.
8.	18.08.2016	Conducted “Software Testing & Analytics Programme” by M/s. HP Software Specialist.
9.	29.08.2016	“FDP & Students Interaction Programme” can be conducted by M/s. Tata Consultancy Services for our faculty members.
10.	29.08.2016	Seminar can be conducted on “Centre for BIM excellence” by M/s. RGS Construction Technologies.
11.	29.08.2016	“Higher Studies Programme” can be conducted by M/s. ELS Super Service for our third year students.
12.	01.09.2016	“Orientation programme” can be conducted by Mr. Amrithanathan from Tech Mahindra.
13.	12.09.2016	“Guest Lecture” can be conducted by M/s. Global Techno Solutions.
14.	22.09.2016	“AutoCAD Programme” conducted by M/s. ICT Academy for our third and final year students.
15.	23.09.2016	“Autocad Programme” conducted by M/s. Hitachi Payment Solutions Pvt. Ltd. for our third and final year students.
16.	23.09.2016	“Seminar” can be conducted for our third and final year students by M/s. GUVI.
17.	29.08.2016	“Guest Lecture” can be conducted for our third year students by M/s. Skills Grow.
18.	05.10.2016	“Seminar” is conducted for our third year students by M/s. Indo European Educational Services.
19.	19.10.2016 & 24.10.2016	“Self-Employability Programme” is conducted by M/s. Rexona Confidence Academy.
20.	21.10.2016	“Guest Lecture” conducted for our third year students by M/s. Cognizant Technology Solutions.



21.	07.02.2017	“Students Interaction Programme” is conducted M/s. LinkedIn.
22.	08.02.2017	“Industrial Visit” for our third year students to M/s. JBM Group.
23.	10.02.2017	“Google Developer Programme” can be conducted for our third and final year students by M/s. Google Developers.
24.	21.02.2017	“A Financial Literacy Program” can be conducted by M/s. Future Matrix for our third year students.
25.	27.02.2017	“Industrial Visit” for our third year students to M/s. Yeldi.
26.	21.03.2017	“TPO Meet” can be conducted for Training Placement Officer by M/s. HCL Technologies.

9.6 Entrepreneurship cell

Entrepreneurship today has become very significant, given that its being a key to economic growth and industrial development. The objectives of industrial development, regional growth, and employment generation depend upon entrepreneurial development. Entrepreneurs give greater employment opportunities to the unemployed youth. Knowing its benefits, the Institution has established an **Entrepreneurship Development Cell (EDC)** that helps in inculcating the spirit of entrepreneurship among all the students. The EDC is headed by a Chief Coordinator supported by departmental co-coordinators.

Table 9.6.1 Events conducted / attended during the year 2016 – 2017

Sl.No	Date	Name of the programme	Resource person	In association with
1	30/09/2016	Top management programme	K.Rajaram, I.A.S	EDI & CED, Anna University
2	25/10-2016 to 27/10-2016	FDP	Sujaya	Anna University
3	01/12/2016	International Women entrepreneurs	K.Rajaram, I.A.S	Anna University



		summit		
4	06/12/2016	NEN-Membership	Dr.Rajaram	Anna University
5	08/12/2016	Launch of E-cell	Dr.Ravikumar, Director-CED	BIHER
6	04/01/2017	Venture(the business hack-a-thon)	Shyamsekar.S Chief mentor at startup Xpress	Rajalakshmi Engg college
7	19/01/2017 to 22/01/2017	ENANTRA 2017	G.Ravikumar	College of Engg and Technology, Anna University
8	24/01/2017	FICCI MILLENNIUM ALLIANCE	G.Ravikumar	College of Engg and Technology, Anna University
9	07/02/2017	REVIEW MEETING WITH EDC and FACILITIES	G.Ravikumar	College of Engg and Technology, Anna University
10	14/02/2017 to 15/02/2017	E-leader workshop	Sujaya	Anna University
11	28/02/2017	Millennium Alliance	Dr.Ravikumar, Director-CED	Anna University
12	22/02/2017 to 24/01/2017	Twelfth Biennial Conference	SasiMisra,Professor Conference chair	Anna University
13	25/01/2017	Lesson 1 : Let's Get started	Gokul	BIHER
14	01/03/2017	Journey of transforming India	Dr.Rajaram	Anna University
15	11/03/2017	Lesson 2: Explore E-cells on Campus	Dr.Raja, H.O.D, MechDept	BIHER
16	15/03/2017	Workshop on Entrepreneur orientation programme	Mr.T.Vallinayagam	BIHER



17	16/03/2017 to 17/03/2017	International Engg sourcing show IESS VI	Dr.C.Alagirisamy, Assistant Director and training Co- ordinator(ICT)	Chennai Trade centre
18	18/03/2017	Lesson 3: Listen to some success stories	Dr.HameedHussain, Dean Engg.	BIHER
19	25/03/2017	Lesson 4: Characteristics of a successful entrepreneur	Mr.Danniel	BIHER
20	02/04/2017	Lesson 5: Communicate effectively	Mr.Kishor	BIHER
21	08/04/2017	Lesson 6: Design thinking for customer Delight	Dr.SureshSagadevan	BIHER
22	09/04/2017	Youth Innovation Summite-2017	G.Ravikumar	Sai Ram Engg. college
23	15/04/2017	Lesson 7:Sales skills to Become an effective Entrepreneur	Mr.S.Sreenivasan	BIHER
24	22/04/2017	Lesson 8:Managing Risks and Learning from Failures	Mr.S.Thirumavalavan	BIHER
25	22/04/2017	Small Business opportunities	G.Ravikumar	College of Engg and Technology, Anna University
26	28/04/2017	Empowering Women in IT 11 th , Anniversary	Ms.Letika Saran Former Director, General of police –Tamil nadu	Hotel Crown plaza Adyar , Chennai.
27	29/04/2017	Lesson 9: Are you ready to be an entrepreneur?	Dr.Praveen	BIHER
28	06/05/2017	Final Quiz	Mr.S.Thirumavalavan	BIHER



29	1/6/2017 to 05/06/2017	INTEC-2017	(CODISSIA, Coimbatore)- Dr.Alagarsamy	CODISSIA trade frame complex, Coimbatore
30	27/06/2017	International day for MSME's- 2017	Dr.P.Rammohan Rao, I.A.S , Additional chief secretary and director, EDII	Hotel Le Meridian, Guindy

Table 9.6.2 Events conducted / attended during the year 2017 –2018

Sl.No	Date	Name of the programme	Resource person	In association with
1.	21/07/2017	Empowering women in IT(eWIT)	Mr.K.S.Sreedharan – Director I.T	Alumni centre, Anna university
2.	27/07/2017 to 29/07/2017	FDP, course-100	G.Ravikumar	CED, Anna university and EDII
3.	07/09/2017 to 09/09/2017	FDP	G.Ravikumar	Anna university
4.	08/09/2017	T.N. Students Innovators	Dr.LakshmiMeera	Anna university
5.	09/09/2017	Student E-leaders workshop	G.Ravikumar	Anna university
6.	20/09/2017	Student Design project	E.R.Ramalingam	Anna university
7.	21/09/2017 to 23/09/2017	FDP on entrepreneurship Development program	G.Ravikumar	Anna university
8.	25/09/2017 to 26/09/2017	E-Leader workshop	G.Ravikumar	Anna university



9.	22/02/18	E-Leader workshop	E.R.Ramalingam	Anna university

Table 9.6.3 Events conducted / attended during the year 2018 – 2019

Sl.No	Date	Name of the programme	Resource person	In association with
1.	21/07/2018	Small Business opportunities	G.Ravikumar	College of Engg and Technology, Anna University
2.	22/07/2018	Skill development programme in product design	Mr.Danniel	BIHER
3.	15/08/2018	How to Improve Your Business and add Value for Your Customer	Mr.Kishor	BIHER
4.	23/09/2018	Thinking and acting like an entrepreneur-programme	Dr.SureshSagadevan	BIHER
5.	10/10/2018	Entrepreneurial leadership toolbox-workshop	Mr.T.Vallinayagam	BIHER
6.	02/02/2019	Entrepreneurial mindset and leadership-programme	Mr.Danniel	BIHER
7.	13/03/2019	Quiz	Dr.SureshSagadevan	BIHER
8.	17/04/2019	E-leader workshop	G.Ravikumar	Anna university
9.	01/08/2019	E-leader workshop	G.Ravikumar	Anna university
10.	05/09/2019 06/09/2019	Design Thinking workshop	G.Ravikumar	Anna university



11.	12/09/2019	Startup Talk	G.Ravikumar	IIT-Chennai

9.7 Co-curricular and Extra-curricular Activities

Students are engaged in co-curricular and extra-curricular activities and field trips through student chapters and forums, which provide opportunities for students to explore new fields of interest, cultivate leadership skills, and learn teamwork. In this regard, institution has formed various committees for participating and organizing the cultural and sports activities. In our department has its own association through which various symposiums, project expo and other technical and non-technical events are being conducted. These association activities benefit in developing leadership skills and make them work in teams.

9.7.1. Sports Facilities

The Institution has a sports ground. There are well equipped gymnastics and sports kits. Students are encouraged to participate in various zonal and inter-zonal tournaments. Students participate in inter and intra collegiate and University tournaments. Sports day is celebrated with various sports events like Athletics, Long Jump, Volleyball, Table Tennis, Cricket, Chess, and Carom etc. both for staff and students, as part of recreation.

BIHER has the following facilities:

- Cricket ground
- Indoor stadium
- Swimming pool
- Yoga & meditation centre
- Hockey ground
- Running track
- Volleyball Court
- Football ground
- Basketball court
- A well-qualified physical director will manage all sport activities.

The institute is available with the following sports facilities.



Sl. No	FACILITIES	Total	BIST	SBMCH & SBCN	SLIMS	SBDCH
1	CRICKET GROUND	03	1	1	1	-
2	ATHELETIC TRACK & FIELD	03	1	1	1	-
3	BASKET BALL COURT	04	1	1	1	1
4	VOLLEYBALL COURT	09	2	3	3	1
5	FOOT BALL FIELD	03	1	1	1	-
6	TENNIS COURT	01	1	-	-	-
7	SWIMMING POOL	01	-	1	-	-
8	KABBADI COURT	03	1	1	1	-
9	Kho-Kho COURT	04	1	1	1	1
10	Throw ball COURT	04	1	1	1	1
11	INDOOR FACILITIES					
	• Billiards	02	02	-	-	-
	• Table tennis	09	06	04	01	-
	• Chess	48	20	10	10	01
	• carom	47	20	10	10	08
	• Multi Gym					07



Achievements 2016-2017

University Zone Tournament

S. N o	Name of the Game	Venue	Date	Position
1	Seven days camp on healthy youth for wealthy India.	BIHER	21 st Mar 2017 To 27 th Mar 2017	Successfully Completed
2	Football Training	BIHER	4 th Aug 2016	Participated.

University Inter Zone Tournament

S. N o	Name of the Game	Venue	Date	Position
1	Poster Presentation	School of Engineering and Technology Sri Padmavati Mahila Visvavidyalayam.	17 th and 18 th March 2017	1 st Place

All India Inter University Tournament

S. N o	Name of the Game	Venue	Date	Position
1	All India Inter University Swimming Championship	Punjab University, Chandigarh	2016	Participated
2	Fencing in All India Inter University Championship	Punjab University, Chandigarh	2016	Participated
3	Inter Collegiate Tournament	Sathyabama University, Chennai.	2016	Participated



Achievements 2017-2018

University Zone Tournament

S. N o	Name of the Game	Venue	Date	Position
1	South ZoneInter University Tournament	University Of Madras,Chennai	2017	Participated (Basket Ball Men)
2	South ZoneInter University Tournament	Mahathma University,Kottayam.	2017	Participated (Volley Ball Men)
3	South ZoneInter University Tournament	Hindustan University,Chennai	2/1/2017 - 11/1/2017	Participated (Cricket)
4	South ZoneInter University Tournament	Gulbarga University,Gulbarga	2017	Participated (Foot Ball)

University Inter Zone Tournament

S. N o	Name of the Game	Venue	Date	Position
1	Tamil Nadu StateInter University Tournament	Chettinadu Health City,Chennai	2017	Participated (Badminton MEN &WOMEN)
2	Tamil Nadu StateInter University Tournament	Tamilnadu Sports University,Chennai	2017	Participated (Foot Ball Men)
3	Tamil Nadu StateInter University Tournament	Hindutan University,Chennai	2017	Participated (Basket Ball Men)
4	Tamil Nadu StateInter University Redfull Tournament	SRM University,Chennai	2017	Runners (Foot Ball Men 5s)
5	State level Inter collegiate Tournament	Saveetha University,Chennai	2017	Participated (Throw ball)



6	Tamil Nadu State level Inter collegiate Tournament	VIT University, Chennai	2017	Third Place (Foot Ball)
7	Inter Collegiate Tournament	New college, Chennai.	2017	Winners (Staff Cricket)

All India Inter University Tournament

S. N o	Name of the Game	Venue	Date	Position
1	All India Inter University Swimming Championship	Punjab University, Chandigarh.	2017	Gold Medal in Diving
2	All India Inter University Tournament	Lovely Professional University, Jalandhar, Punjab.	2017	Participated (Boxing)
3	Relince Foot Ball National Level -Inter University Foot Ball Tournament	Loyola College, Chennai	2017	Runners (Foot Ball Men 5s)
4	National level Inter collegiate Tournament,	VIT University, Chennai	2018	Fourth Place (Cricket)

Achievements 2018-2019

University Zone Tournament

S. N o	Name of the Game	Venue	Date	Position
1	South Zone Inter University Tournament	Christ University, Bengaluru.	2018	Participated (Basket Ball Men)

University Inter Zone Tournament



S. N o	Name of the Game	Venue	Date	Position
1	K.C.G.Vergheze Memorial Trophy Inter Collegiate Foot Ball Tournament	HINDUSTAN UNIVERSITY,Chennai.	2018	Participated (Foot Ball Men)
2	Relince Foot Ball National Level Inter University Foot Ball Tournament	JEPPIAR Eng.College,Chennai.	2018	Participated (Foot Ball Men)
3	South India open Karate Championship	Sri Kammachi Ammal, Cuddalore.	2019	First Place

All India Inter University Tournament

S. N o	Name of the Game	Venue	Date	Position
1	All india Inter collegiate Tournament	T.Nager,Chennai	2018	Participated (Basket Ball Men)
2	National level yoga championship	Saveetha University,Chennai	2019	Received Yoga Kalaimamani

9.7.2. NSS, NCC and YRC

NSS

National service Scheme (NSS) provides diversified opportunities to students in colleges and universities to develop their personality through community services. Community services rendered by Institution level students have covered several aspects like adoption of villages for intensive development work, mass tree plantation, technology transfer programmes, technologies for rural development, various training programmes for self-help groups and rural youth etc., Considering the benefits BIHER has made NSS Compulsory at UG level for the first two years.

ACTIVITIES OF NSS UNIT

To learn the activities carried out by the NSS volunteers in Engineering Colleges in BIHER on the theme HEALTHY YOUTH FOR HEALTH INDIA, for pollution free environment, Voter Awareness



programme, Tree plantation, polio drops, Blood Donation Camps, General Health Camps, helping towards flood affected people, Creation of awareness among the public on HIV/AIDS etc. The NSS team is obtaining best NSS Volunteers and best NSS coordinator consecutively in each department.

NCC

The objective of National Cadet Corps (NCC) is to develop character, comradeship, and capacity for leadership among youth in India. NCC at BIHER motivates the students with best training and the ideals of selfless service. The training inculcates team spirit, a sense of nationalism and it also helps in developing the overall personality of an individual. The BIHER NCC was started in 1996 as an Independent Company. The first and the second year students are enrolled for the duration of three years. NCC parades are regularly conducted in BIST Ground on every Saturday from 7.00 AM to 11.00 AM as per Parade Schedule. Pre-parade meeting is also conducted in front of the NCC Office on every Friday from 4.30 PM to 5.30 PM.

The NCC cadets actively participate in the Independence Day and Republic Day celebration in the campus. Annual Training Camp, Republic Day Camp (RDC - New Delhi), Inter Group Competitions (IGC), National Integration Camp (NIC) and special camps like Trekking Camp, Firing Camp are held periodically.

The NCC unit at BIHER functioning under the guidance of Associate **NCC Officer - Lt Dr. R. Udayakumar**, Associate Professor, Department of Information Technology, Faculty of Engineering and Technology who has completed the Direct Commission Refresher Course which is conducted for NCC officers in Officer Training Academy.

YRC (Youth Red Cross)

The Red Cross is an international organization meant for humanitarian services. It is a non-religious, nonpolitical and a non-sectarian international body. YRC is a part of the Indian Red Cross Society with well-defined objectives such as : Protection of Health and Life Service to the sick and the suffering by organizing. Various health camps such as eye camps, vaccination camps, health awareness, etc. AIDS Eradication.

SWACHH BHARAT

Swachh Bharat Abhiyan (English: Clean India Mission) is a campaign by the Government of India to clean the streets, roads and infrastructure of the country's 4,041 statutory cities and towns. It includes ambassadors and activities such as run, national real-time monitoring or spread of updated NGOs practices.



List of Adopted Villages

1. Thiruvencherry
2. Venkambakkam
3. Mappedu
4. Selaiyur
5. M.g.rnagar&bharathnagar
6. Kundrathur
7. Nattarasampattu
8. Serpanancherry (PHC)
9. Kalingamalai

NATIONAL SERVICE SCHEME 2016-2017 ACTIVITIES

Top Position in Inter-College Extra Curricular Events				
Sr.No.	Year	Name of the Event	Position	Type of Event
1	2016-2017	The Best Rally Program Awareness Award by NSS State Cell, Tamilnadu Govt	1	National Level
2	2015-2016	NSS Best Volunteers Award in state Cell,Tamilnadu, Govt	1	National Level

S.No	Date	Name of the activity	Organising unit/agency/collaborating agency
1.	30 th August 2016	Blood Donation camp was conducted	Bharath Institute of Higher Education and Research
2.	1 st October 2016	Blood Donation Voluntarism Registration	Selaiyur
3.	13th August 2016	Medical Camp	Thiruvencherry village
4.	17th Jan 2017	Support for Jallikattu	Bharath Institute of Higher Education and Research
5.	25th January 2017	Voting pledge	Bharath Institute of Higher Education and Research



6.	8 th Feburary 2017	Orientation program on Revolution in Volunteerism	Bharath Institute of Higher Education and Research
7.	28 th February 2017	Science Day Rally	Venkambakkam village
8.	2nd march 2017	NSS Volunteers Cleaning the University Campus	Bharath Institute of Higher Education and Research
9.	8 th March 2017	Women's day celebration	Bharath Institute of Higher Education and Research
10.	21st MARCH 2017	World Water Day Rally	Besant Nagar
11.	21st MARCH 2017-27th MARCH 2017	Special Camp	Paduvancherry ,Vengambakkam ,Thirvencherry
12.	22nd march 2017	Work shop Self Defense Program	Bharath Institute of Higher Education and Research
13.	2ndApril 2017	Polio Drops	Bharath Institute of Higher Education and Research

NATIONAL SERVICE SCHEME 2017-2018 ACTIVITIES

S.No	Date	Name of the activity	Organising unit/agency/collaborating agency
14.	1st June2017	The World Milk Day was celebrated	Bharath Institute of Higher Education and Research
15.	5th June 2017	The World Environmental Day was celebrated by planting trees	Bharath Institute of Higher Education and Research
16.	14th June 2017	The World Blood Donors Day was remembered	Bharath Institute of Higher Education and Research
17.	18th June 2017	Medical Camp was conducted	Bharath Institute of Higher Education and Research
18.	19th June 2017	Seminar on "AWARNESS IN BLOOD DONATION"	Bharath Institute of Higher Education and Research
19.	20th June	Blood Donation Voluntarism	Bharath Institute of Higher



	2017	Registration	Education and Research
20.	21st June 2017	The International Yoga Day was remembered	Bharath Institute of Higher Education and Research
21.	28th June 2017	Blood Donation Camp was conducted	Bharath Institute of Higher Education and Research
22.	1st July 2017	On Doctor's Day, Medical checkup	Bharath Institute of Higher Education and Research
23.	10th July 2017	Inauguration day function	Bharath Institute of Higher Education and Research
24.	11th July 2017	World Population Day was remembered	Bharath Institute of Higher Education and Research
25.	17th July 2017	World International Day of Justice was conducted	Bharath Institute of Higher Education and Research
26.	18th July 2017	NSS Orientation Program was conducted	Bharath Institute of Higher Education and Research
27.	19th July 2017	Playground was Cleaned	Bharath Institute of Higher Education and Research
28.	20th July 2017	Playground was Cleaned	Bharath Institute of Higher Education and Research
29.	24th July 2017	Seminar on "Global Warming" was conducted	Bharath Institute of Higher Education and Research
30.	27th July 2017	Blood Donation Camp was conducted	Bharath Institute of Higher Education and Research
31.	30th July 2017	Work Shop on cleaning awareness was conducted	Thiruvencherry village
32.	1st August 2017	Clean India Pledge &SwachhtaShapath	Bharath Institute of Higher Education and Research
33.	2nd August 2017	Seminar on "SwachhtaShapath"	Bharath Institute of Higher Education and Research
34.	3rd August 2017	Clean India was conducted	Thiruvencherry village
35.	4th August 2017	Clean India was conducted	Thiruvencherry village



36.	5th August 2017	Clean India was conducted	Venkambakkam village
37.	6th August 2017	Clean India was conducted	Venkambakkam village
38.	7th August 2017	Clean India was conducted	Mappedu village
39.	8th August 2017	Clean India was conducted	Selaiyur village
40.	9th August 2017	Clean India was conducted	M.G.R Nagar
41.	10th August 2017	Clean India was conducted	Bharath Nagar
42.	11st August 2017	University campus cleaning & Tree Plantation	Bharath Institute of Higher Education and Research
43.	12th August 2017	University campus cleaning & Tree Plantation	Bharath Institute of Higher Education and Research
44.	13th August 2017	University campus cleaning & Tree Plantation	Bharath Institute of Higher Education and Research
45.	14th August 2017	University campus cleaning & Tree Plantation	Bharath Institute of Higher Education and Research
46.	15th August 2017	Independence day Celebration was Celebrated	Bharath Institute of Higher Education and Research
47.	21st August 2017	Seminar on "INDIA TOWARDS" was conducted	Bharath Institute of Higher Education and Research
48.	24th August 2017	Blood Donation Camp was conducted	Bharath Institute of Higher Education and Research
49.	21st August 2017	National Sports Day was held at was conducted	Bharath Institute of Higher Education and Research
50.	30th August 2017	Eye Donation & Screening Camp	Bharath Institute of Higher Education and Research
51.	1st September 2017	Clean Campus Day	Bharath Institute of Higher Education and Research
52.	2nd September	Clean Hostel Day	Bharath Institute of Higher



	2017		Education and Research
53.	3rd September 2017	On Green Campus Day trees are planted	Bharath Institute of Higher Education and Research
54.	4th September 2017	Clean Mess Day was conducted	Bharath Institute of Higher Education and Research
55.	5th September 2017	Essay Contest on Teachers day was conducted	Thiruvencherry Govt school
56.	6th September 2017	On Clean Surroundings Day	Bharath Institute of Higher Education and Research
57.	7th September 2017	Rally For Riverson (BIHER STUDENTS)	Bharath Institute of Higher Education and Research
58.	8th September 2017	Cleanliness& Health awareness Program	Bharath Institute of Higher Education and Research
59.	9th September 2017	System of Cleaning & Study of garbage cleaning system in public space Program	Bharath Institute of Higher Education and Research
60.	10th September 2017	Visit to Orphanages(BIHER STUDENTS)	Bharath Institute of Higher Education and Research
61.	12th September 2017	Cleanest Hostel Room Contest was conducted	Bharath Institute of Higher Education and Research
62.	13th September 2017	Elocution Contest on Health And Hygiene was conducted	Bharath Institute of Higher Education and Research
63.	14th September 2017	Closing Ceremony for SwachhtaShapath was conducted	Bharath Institute of Higher Education and Research
64.	19th September 2017	Selection test for first year volunteers was conducted	Bharath Institute of Higher Education and Research



65.	22nd September 2017	Orientation program for first year NSS volunteers	Bharath Institute of Higher Education and Research
66.	25th September 2017	NSS day events where conducted	Bharath Institute of Higher Education and Research
67.	26th September 2017	NSS day events where conducted	Bharath Institute of Higher Education and Research
68.	27th September 2017	World tourism Day	Bharath Institute of Higher Education and Research
69.	29th September 2017	NSS day was celebrated	Bharath Institute of Higher Education and Research
70.	2nd October 2017	Communal Harmony Day	Bharath Institute of Higher Education and Research
71.	4th October 2017	World Animal Welfare Day	Bharath Institute of Higher Education and Research
72.	6th October 2017	Seminar on "VOLUNTARY BLOOD DONATION" was conducted	Bharath Institute of Higher Education and Research
73.	9th October 2017	Seminar on "Malaria and Dengue Awareness"	Bharath Institute of Higher Education and Research
74.	15th October 2017	NSS Volunteers' Day was celebrated	Bharath Institute of Higher Education and Research
75.	16th October 2017	World Food Day	Bharath Institute of Higher Education and Research
76.	19th October 2017	Seminar on "Food Safety" was conducted	Bharath Institute of Higher Education and Research
77.	5th November 2017	World Tsunami Day was remembered	Bharath Institute of Higher Education and Research
78.	9th November 2017	Legal Service Day	Bharath Institute of Higher Education and Research
79.	11th	National Education Day was	Bharath Institute of Higher



	November 2017	celebrated	Education and Research
80.	14th November 2017	National Children Day was celebrated	VengampakkamGovt school
81.	26th November 2017	National Constitution Day	Bharath Institute of Higher Education and Research
82.	28th November 2017	Blood Donation Camp	Bharath Institute of Higher Education and Research
83.	1st December 2017	Seminar on “ AIDS Day Awareness” was given	Bharath Institute of Higher Education and Research
84.	3rd December 2017	World Handicap Day	Bharath Institute of Higher Education and Research
85.	6th December 2017	Workshop of Global Warming was conducted	Bharath Institute of Higher Education and Research
86.	10th December 2017	Human Rights Day was conducted	Bharath Institute of Higher Education and Research
87.	11th December 2017	UNICEF Day (United Nations International Children's Education Fund)	Bharath Institute of Higher Education and Research
88.	22nd December 2017	National Mathematics Day was conducted	Bharath Institute of Higher Education and Research
89.	23rd December 2017	National Farmer’s Day	Bharath Institute of Higher Education and Research
90.	27th December 2017	Seminar on “India Towards” was conducted	Bharath Institute of Higher Education and Research
91.	1st January 2018	World Peace Day	Bharath Institute of Higher Education and Research



92.	5th January 2018	National Bird's Day was celebrated	Bharath Institute of Higher Education and Research
93.	6th January 2018	World War Orphan Day	Bharath Institute of Higher Education and Research
94.	9th January 2018	Workshop on "Social Awareness" was conducted	Bharath Institute of Higher Education and Research
95.	12th January 2018	National Youth Day was celebrated	Bharath Institute of Higher Education and Research
96.	15th January 2018	Army Day	Bharath Institute of Higher Education and Research
97.	23rd January 2018	Blood Donation Camp	Bharath Institute of Higher Education and Research
98.	25th January 2018	National Voter's Day	Bharath Institute of Higher Education and Research
99.	26th January 2018	Republic Day Celebration was celebrated	Bharath Institute of Higher Education and Research
100.	30th January 2018	Martyr Day was remembered	Bharath Institute of Higher Education and Research
101.	4th February 2018	World Cancer Day	Bharath Institute of Higher Education and Research
102.	8th February 2018	Blood Donation Camp	Bharath Institute of Higher Education and Research
103.	21st February 2018	International Mother Language Day celebrated	Bharath Institute of Higher Education and Research
104.	28th February 2018	National Science Day was celebrated	Bharath Institute of Higher Education and Research
105.	6th March 2018	Dental Camp on "Dentist Day"	Adopted village Kovilancherry
106.	8th march 2018	International Women Day Celebration	Bharath Institute of Higher Education and Research
107.	12th march 2018	On National Plant A Flower Day plants where planted	Bharath Institute of Higher Education and Research



108.	21st March 2018 to 27th march 2018	NSS Special Camp was conducted(BIHER NSS volunteers)	Kovilamcherry Govt school
109.	3rd April 2018	Blood Donation Camp	Bharath Institute of Higher Education and Research
110.	7th April 2018	Seminar on “World Health Day” was conducted	Bharath Institute of Higher Education and Research
111.	22nd April 2018	International Earth Day was celebrated by planting trees	Adopted villages of BIHER
112.	25th April 2018	World Malaria Day	Bharath Institute of Higher Education and Research
113.	1st may 2018	Seminar on “Workers day” was conducted	Bharath Institute of Higher Education and Research
114.	4th May 2018	Seminar on National Renewal Day	Bharath Institute of Higher Education and Research
115.	8th May 2018	World Red Cross Day was celebrated	Bharath Institute of Higher Education and Research
116.	15th May 2018	Blood Donation Camp	Bharath Institute of Higher Education and Research

NATIONAL SERVICE SCHEME 2018-2019 ACTIVITIES

S.No	Date	Name of the activity	Organising unit/agency/collaborating agency
1.	26th Oct 2018	DENGU AWARENESS(NilavembuKasayam) PROGRAM and DENTAL CAMP	Bharath Institute of Higher Education and Research
2.	25th Oct 2018	VOTING AWARENESS PROGRAM AND ROTRACT CLUB (Polio Awareness Drive)	Vellore
3.	15th March 2019	BLOOD DONATION CAMP and ROAD SAFETY AWARENESS RALLY	Selaiyur
4.	11th Jan 2019	PONGAL CELEBRATION &WORLD ELDERS DAY	Bharath Institute of Higher Education and Research
5.	25th -31th March 2019	NSS SPECIAL CAMP	Madurapakkam Village Kanchipuram District
6.	30th Sep 2018	TREE PLANTATION Program was	Mahindra World City



		held on at	
7.	5 th MARCH 2019	VOTING AWARENESS PROGRAM	Bharath Institute of Higher Education and Research
8.	15 th MARCH 2019	VOTING AWARENESS SAFETY	Bharath Institute of Higher Education and Research
9.	25 to 31 st March 2019	Special Camp	Bharath Institute of Higher Education and Research

National Cadet Corps (NCC) Activities

Date	Name of the activity	Organising unit/agency/collaborating agency
	WATER CONSERVATION RALLY	BIHER
	70 CADETS PARTICIPATED IN THE RALLY WHICH WAS FLAGGED	BIHER
	18 SENIOR DIVISION BOYS NCC CADETS PARTICIPATED IN ARMY ATTACHMENT CAMP	SECUNDERBAD
06 th OCT'2017 to 13 th OCT' 2017	THREE NCC CADETS OF BHARATH UNIVERSITY WERE SELECTED TO BE A PART OF EIGHT DAYS TREKKING CAMP	TIRUPATI, ANDHRA PRADESH
15 th Feb 2017	NCC CADETS ATTENDED CADOWOOD CELEBRATIONS	BIHER
INTER GROUP COMPETITION		
SHOOTING CAPSULE		
	CUO P GANESH PARTICIPATED IN IGC SHOOTING CAPSULE AND STOOD AT 4TH PLACE IN MADRAS 'A' GROUP	CHENNAI
IGC CUM NATIONAL GAMES		
	INTER GROUPCOMPITETION FOOTBALL CONDUCTED BY 4-TN BATALLION NCC	NEHRUINSTITUTE OFMOUNTAINEERING
	CSUO MULLA SASHIDHAR REDDY WAVING	UTTARKASHI



	NATIONAL FLAG AT THE HEIGHT OF 15800 FEET ON THE PEAK DKD2	
	TREE PLANTATION DRIVE WAS CONDUCTED FROM CAMP ROAD JUNCTION	MAPPEDU
INTERNATIONAL COASTAL CLEAN UP		
	PARTICIPATED IN INTERNATIONAL COASTAL CLEAN	CHENNAI
	PARTICIPATED AND CONTRIBUTED TOWARDS CLEANING	NEELANGARAI BEACH
	FREE DENTAL CHECK UP AND AWARENESS PROGRAM	SREE BALAJI DENTAL COLLEGE & HOSPITAL
	PARTICIPATED IN GUARD OF HONOR COMPETITION CONDUCTED DURING CATC	BIHER
REPUBLIC DAY CELEBRATIONS		
26 th January	NCC CADETS CELEBRATE REPUBLIC DAY	BIHER
INDEPENDENCE DAY CELEBRATIONS		
15 th August	NCC CADETS CELEBRATE INDEPENDENCE DAY	BIHER
YOGA DAY CELEBRATIONS		
21 st June	INTERNATIONAL YOGA DAY CELEBRATIONS	BIHER
	CUO SANGHAVI PERFORMING YOGA ASANA	BHARATH UNIVERSITY AUDITORIUM
	VISIT TO MILITARY HERITAGE AND TATTOO	
	ENVIRONMENTAL AWARENESS RALLY	

Youth Red Cross (YRC) in 2016 -2017 Activities

Date	Name of the activity	Organising unit/agency/collaborating agency
01.10.2016	National Voluntary Blood Donation	Govt. blood bank
20.10.2016	Blood Donor Volunteers Registration	BIHER
13.09.2016	Blood Donation Camp	BIHER



12.08 2016	International Youth day	BIHER
02.03.2017	AIDS awareness day	BIHER

Youth Red Cross (YRC) in 2017 -2018 Activities

Date	Name of the activity	Organising unit/agency/collaborating agency
30-06-2017	Drug Abuse awareness Program	BIHER

9.7.3 Other Clubs

Various clubs in the institution and training cell help to improve their confidence, communication, and other related soft skills. Each club has student Chairman from the final year and Secretary from the third year. The students from the institution who are interested in a particular club can associate themselves with the club. The Chairman and Secretary of the concerned club is responsible for conducting various awareness program for the benefit of the student.

The club details are given below:

S.No	Name of the Clubs
1	Internet of Things (IoT)
2	Creative Computer Club

Internet of Things (IoT) Club

S.No	Date	Description	Venue
1	14/03/2019 to 15/03/2019	Organized Two Days workshop on Internet of Things(IoT) Using Arduino for our students (Batch A)	CSE, BIHER
2	29/03/2019 to	Organized Two Days workshop on Internet of Things(IoT) Using Arduino for our students (Batch B)	CSE, BIHER



	30/03/2019		

Creative Computer Club

S.No	Date	Description	Venue
1	23/02/2017	Workshop on ilon Core Java Resource person: Sriram from AtltusCadd Centre.	BIHER
2	27/03/2017	Hands on Training on Cloud Computing Resource Person from UNIQ Technologies.	BIHER



CRITERION 10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120

10.1. Organization, Governance and Transparency (55)

10.1.1. State the Vision and Mission of the Institute (5)

Vision

Bharath Institute of Higher Education & Research (BIHER) envisions and constantly strives to provide an excellent academic and research ambience for students and members of the faculties to acquire professional competence along with human dignity, and spearhead the transformation of community through continuous discovery in science and technology.

Missions

- To develop as a Premier University for Teaching, Learning, Research and Innovation on par with leading global universities.
- To impart education and training to students for creating a better society with ethics and morals.
- To foster an interdisciplinary approach in education, research and innovation by supporting lifelong professional development, enriching knowledge banks through scientific research, promoting best practices and innovation, industry-driven and institute-oriented cooperation, globalization and international initiatives.
- To develop as a multi-dimensional institution contributing immensely to the cause of societal advancement through spread of literacy, an ambience that provides the best of international exposures, provide health care, enrich rural development and most importantly impart value-based education.
- To establish benchmark standards in professional practice in the fields of innovative and emerging areas in medicine, dentistry, nursing, physiotherapy, allied sciences, engineering, and management.
- To launch new programmes with innovative curriculum design by provide multi-faceted exposure in various subjects.
- To provide flexibility to students - options / add-ons to core subjects, develop Device Agnostic Technology to access online content
- Funding / incubation entrepreneurial ideas, Flipped class room – Integrated Courses & Need based learning.

Goal of BIHER

Goal 1: Increase student learning:

BIHER will ensure through high-quality programs that graduates are well prepared for successful careers, meaningful work in a global society, and engaged citizenship.



Goal 2: Develop an engaged, diverse, high-quality student population:

BIHER will attract, retain, and graduate an engaged and success-oriented student population.

10.1.2. Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25)

Perspective Plan and Deployment Strategy

- Bottom-up approach involving all stakeholders
- Five year Strategic plan
- In harmony with the vision and mission of the university
- Modern Teaching Learning Methodology with cafeteria approach to education
- Research and development-oriented curriculum in sync with latest cutting edge technology
- Industry relevant and Industry specific curriculum orientation
- Holistic development of personality with social and cultural values

The process of creating a university perspective plan is as follows:

Each department is instructed to prepare their five-year plan (including budgetary details & projections) to meet common and collective requirements such as those of infrastructure and facilities, policy changes, increase in human resources, etc. The university level perspective plan is then created based on the inputs from the departments.

Vision and mission:

The perspective plan for development and its every aspect is broadly guided by progressive and forward-looking spirit of University's Vision and Mission statements. A plan that caters to immediate and future goals of the University is meticulously devised and the policies and strategies therein are worked upon.

Teaching and learning:

As outlined by the UGC and other respective monitoring bodies like MCI, DCI and NCI, the perspective plan of the university is to put in place reforms in teaching, learning, and evaluation. These include a cafeteria approach to education, introduction of lateral exit for 5-year integrated programmes, dual degrees, improved technology-assisted participatory teaching-learning processes, modular teaching, and greater emphasis on student feedback. Several examination reforms have been planned including scope for revaluation of answer scripts, preparation of question banks, and online examination and evaluation.

Research and Development:

The university created extensive research facilities with modern cutting-edge technology to provide international quality infrastructure and resource support to researchers in all the disciplines. Interdisciplinary Research to a greater extent, enter into MoUs for joint R&D works with industries and Research institutions, filing of patents, and publication in high impact factor and Scopus indexed journals are some of the highlights of Research in the Faculties of Engineering & Technology, Medicine & Health Sciences, Management and Science & Humanities.



- The research cell of the university continues to do valuable work in research & Development.
- The university encourages the culture of research among teachers and students.
- Students and faculty members are sponsored and given on duty leaves for presentations in conferences hosted by other institutions both national and international

Community Engagement:

- Initiate academic programs for the local community such as computer literacy, technological advancements, and perspectives on health and economic issues.
- Organization of local communities into producer / consumer forums based on their skill, resource and needs.

Human resource planning and development:

Built through a deep sense of care and awareness of the vital importance of human resource development, the University has a plan that caters to its various aspects. Doing so is considered an imperative in University's perspective plan for development. The plan includes ways to attract and retain best talent. Training and professional development is imparted to human resource to upgrade their knowledge base and deal effectively with new challenges at workplace by acquiring new and necessary competencies from time to time.

Industry interaction:

It is planned to establish more Industrial Cells in addition to the existing one in the Faculty of Engineering & Technology to augment the collaborations with Industries/ Institutions, to foster inter-institutional collaboration at regional, national and international levels for research, training and development in select areas.

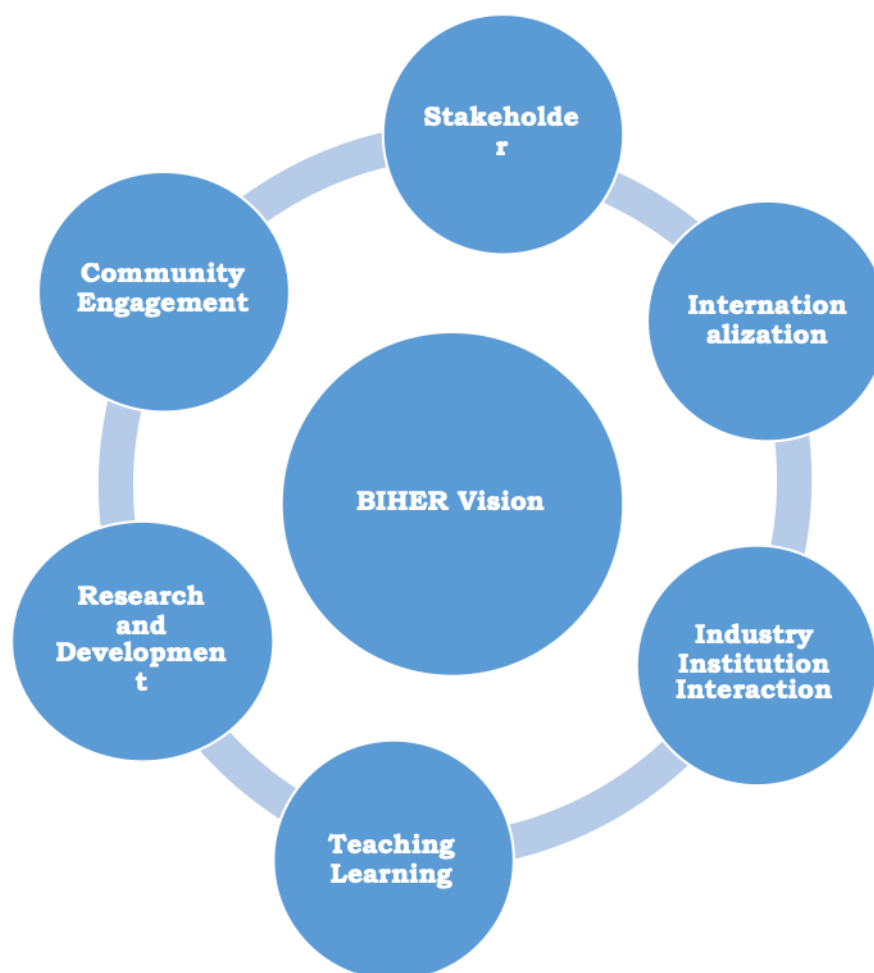
Internationalisation:

- Facilitating Semester Abroad Programmes (SAP)
- Entering into MoUs with leading Universities in India and Abroad for teaching-learning, research and bilateral exchange programs

The future directions will be as follows:

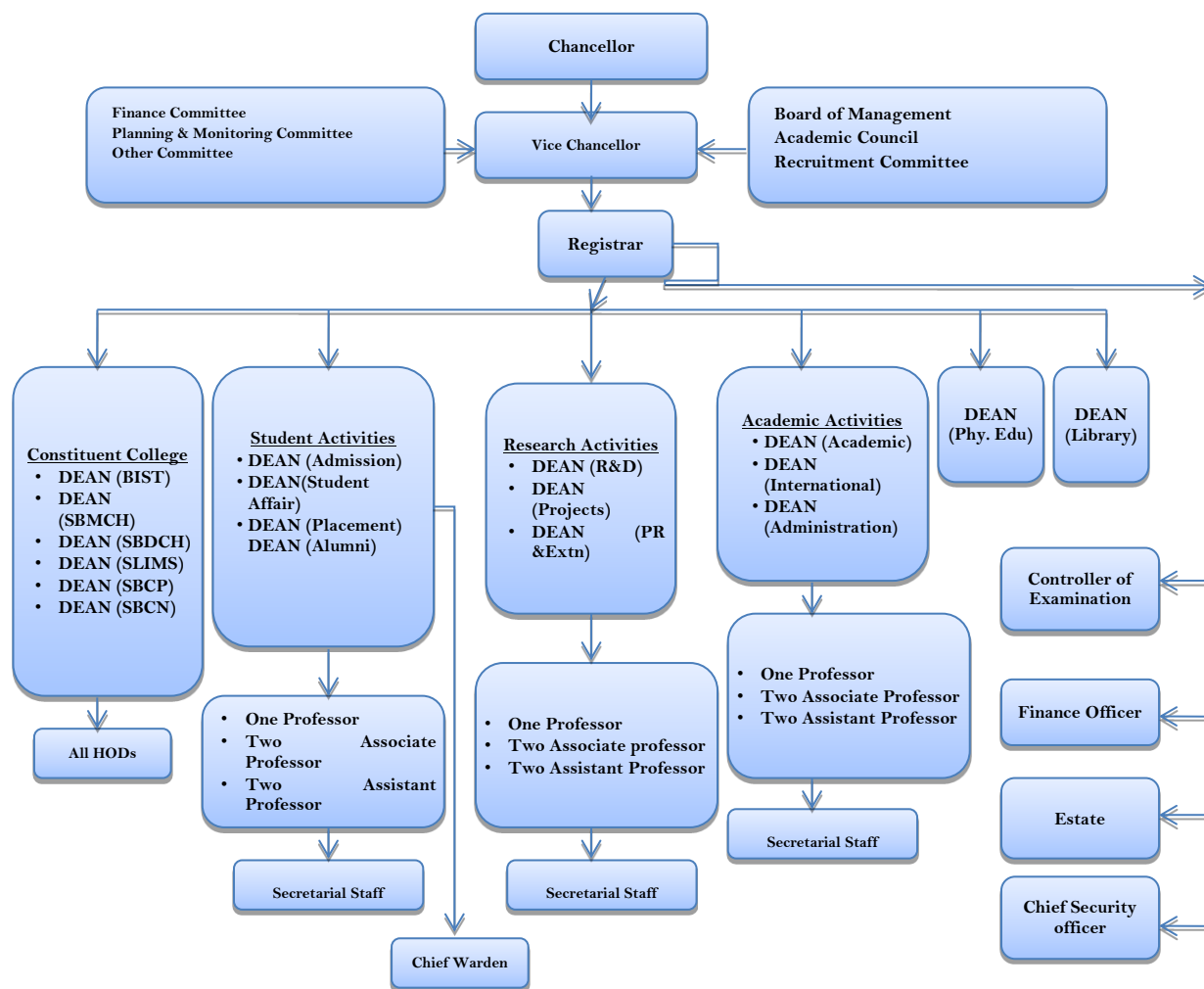
- i) Greater functional autonomy
- ii) Learner centric academic practices
- iii) Academic continuum from degree to doctoral level
- iv) Flexible place of learning
- v) Trans border learning
- vi) Introduction of new courses in emerging areas
- vii) Introduction of specialized courses comprising cross disciplinary learning
- viii) Bidirectional transition between science and engineering
- ix) Increasing gross enrolment ratio at UG and PG levels

- x) Strengthening of Directorate of Research
- xi) Talent identification and determination
- xii) Promotion of 'earn while you learn scheme'
- xiii) Tech-savvy learning environment
- xiv) Promotion of holistic learning.
- xv) Promotion of value education
- xvi) Greater emphasis on proficiency and skill development
- xvii) Promotion of placement services
- xviii) Special training for competitive examinations
- xix) Rejuvenating Education at UG and PG Levels
- xx) Interactive and social networking
- xxi) Reaching out to the masses in the backward areas
- xxii) Twinning programmes with other institutions and Universities Collaboration with institutions of specialized studies
- xxiii) Community participation
- xxiv) Strengthening University- industry collaboration to the research level through Public - Private Partnership model



Quality improvement strategies (Teaching & Learning)

Quality Policy – design, deployment, and review This is mainly addressed through the IQAC, but in specific cases (for e.g. in Medical School), other methodologies are taken up, such as, ISO certification and audits. The university has an established tradition of the IQAC's involvement at the department, school, campus, and university levels, and this enables gap analysis, creation of corrective action plan, implementation of corrective actions, and follow up with re-assessment to monitor the efficacy of the corrective actions.





- Encouraging to attend FDP, FEP, QIP
- Students are encouraged to give assignments in PPT to improve Interactive Learning
- EDUSAT provided to classrooms for delivering education materials
- Digital resources are used to enhance the quality of Teaching-Learning Class room teaching is complemented with regular field visits, industrial visit, industry- academic interaction, seminar workshops and project.

This is mainly addressed through the IQAC, but in specific cases other methodologies are taken up, such as, ISO certification and audits. The university has an established tradition of the IQAC's involvement at the department, campus, and university levels, and this enables gap analysis, creation of corrective action plan, implementation of corrective actions, and follow up with re-assessment to monitor the efficacy of the corrective actions.

The University has a proper policy to ensure quality in teaching, learning, evaluation and administration through the following:

- i. The University has established Internal Quality Assurance Cell (IQAC) since the first cycle of accreditation of the University as per the guidelines of UGC, New Delhi. The Cell conducts regular meetings to maintain quality of education in the University system. Deficiencies and the weaknesses pointed out by the Peer Team are promptly attended to by the IQAC.
- ii. The Vice-Chancellor along with Registrar and Director conducts periodic meetings with Administrative Officers and Heads of various units to assess and monitor the progress towards the fast-track implementation of the approved decisions taken by various statutory and non-statutory bodies and various schemes of State/Central Government sanctioned to the University.

At all levels, highest level of transparency is being practiced.

Entire activities of the University can be grouped into three categories: admissions, examinations and employment.

Admissions: Students are admitted to each course through a common entrance test conducted by the University. An up to date IT based system is in place for evaluation of the tests. Complete information is uploaded on the website.

Examinations: Examinations are conducted on time and the results are declared within a period of two weeks. More than 50% of the examiners are appointed from outside the University. The performance of the students is reviewed by the Standing Committee of the Deans under the chairmanship of the Vice Chancellor.

Employment: Vacant posts are duly advertised through national dailies, vernacular newspapers, Employment News, website and notice boards. All positions are filled through expert committees constituted by the competent authorities of the University.



University encourages academic departments to function independently and autonomously. Such practice, it has been observed, bestows upon academic departments the much needed academic freedom.

Accountability is ascertained through periodic departmental academic audits by the Audit Cell and by the Internal Quality Assurance Cell (IQAC) at the University. Departments are empowered to devise policies that best suit the interests of respective stakeholders and that are in accordance with the University's Vision and Mission.

Complete academic freedom exists for curriculum design to formulate new and innovative programmes of study, to include appropriate experts from leading Institutions and Industries in the Boards of Studies and Examinations, evolve and follow innovative teaching and evaluation methodologies, to undertake research projects and consultancies, and to conduct conferences and workshops. The self-appraisal of the individual faculty through Academic Performance Indicators (APIs) and the assessment report by the respective heads and peer review at the institute level ensure accountability in academics.

10.1.3. Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

ACADEMIC COUNCIL

S.NO	PROFESSION	NAME
1	Chairman	Vice-Chancellor
2	Secretary	Registrar
3	Member	Pro Vice-Chancellor
4	Member	Director

DEANS

S.NO	DESIGNATION	MEMBERSHIP
1	Dean (Engineering), Bharath Institute of Science and Technology	Member
2	Dean, Sree Balaji Dental College and Hospital	Member
3	Principal, Sree Balaji College of Nursing	Member
4	Principal, Sree Balaji College Of Physiotherapy	Member
5	Dean, Sree Balaji Medical College And Hospital	Member
6	Dean, Sree Lakshmi Narayana Institute of Medical Science	Member
7	Dean (R & D)	Member

HODS (ENGINEERING, MANAGEMENT, MEDICINE, DENTISTRY, NURSING AND PHYSIOTHERAPY)

S. NO	DEPARTMENT	MEMBERSHIP
1	Director (Architecture), Bharath Institute of Science And Technology	Member



2	Dept of Civil, Bharath Institute of Science and Technology	Member
3	Dept of Mechanical , Bharath Institute Of Science And Technology	Member
4	Dept of Aeronautical Engg, Bharath Institute Of Science And Technology	Member
5	Dept of Automobile Engg, Bharath Institute Of Science And Technology	Member
6	Dept of Mechatronics, Bharath Institute Of Science And Technology	Member
7	Dept of CSE, Bharath Institute Of Science And Technology	Member
8	Dept of IT, Bharath Institute Of Science And Technology	Member
9	Dept of MCA, Bharath Institute Of Science And Technology	Member
10	Dept of EEE, Bharath Institute Of Science And Technology	Member
11	Dept of ETC, Bharath Institute Of Science And Technology	Member
12	Dept of EIE, Bharath Institute Of Science And Technology	Member
13	Dept of BioInformatics, Bharath Institute Of Science And Technology	Member
14	Dept of Industrial Bio Technology, Bharath Institute Of Science And Technology	Member
15	Dept of Bio Medical Engineering , Bharath Institute Of Science And Technology	Member
16	Dept of English, Bharath Institute Of Science And Technology	Member
17	Dept of Mathematics, Bharath Institute Of Science And Technology	Member
18	Dept of Physics, Bharath Institute Of Science And Technology	Member
19	Dept of Chemistry, Bharath Institute Of Science And Technology	Member
20	Dept of MBA, Bharath Institute Of Science And Technology	Member
21	HOD, Dept of Tourism & Hotel Management, Bharath Institute Of Science And Technology	Member
22	Dept of Prosthodontics, Sree Balaji Dental College And Hospital	Member
23	Dept of General Medicine, Sree Balaji Medical College And Hospital	Member
24	Dept of Paediatrics, Sree Balaji Medical College And Hospital	Member
25	Dept of General Surgery, Sree Balaji Medical College And Hospital	Member
26	Dept of Orthopaedics, Sree Balaji Medical College And Hospital	Member
27	Dept of ENT, Sree Balaji Medical College And Hospital	Member
28	Dept of OBG, Sree Balaji Medical College And Hospital	Member
29	Dept of Anatomy, Sree Balaji Medical College And Hospital	Member
30	Dept of Physiology, Sree Balaji Medical College And Hospital	Member
31	Dept of Biochemistry, Sree Balaji Medical College And Hospital	Member
32	Dept of Pharmacology, Sree Balaji Medical College And Hospital	Member
33	Sree Lakshmi Narayana Institute of Medical Science, Pondicherry	Member
34	Dept of Microbiology, Sree Lakshmi Narayana Institute of Medical Science	Member
35	Dept of Pathology, Sree Balaji Medical College and Hospital	Member
36	Dept of Community Medicine, Sree Balaji Medical College and	Member



	Hospital	
37	Dept of Forensic Medicine, Sree Balaji Medical College and Hospital	Member
38	Dept of Nursing, Sree Balaji College of Nursing	Member
39	Senior Professor of Medicine, Sree Balaji Medical College and Hospital	Member
40	Dept of General Medicine, Sree Balaji Medical College and Hospital	Member
41	Dept of General Surgery, Sree Balaji Medical College and Hospital	Member
42	Dept of ENT, Sree Balaji Medical College and Hospital	Member
43	Dept of General Medicine, Sree Lakshmi Narayana Institute of Medical Science	Member
44	Dept of Paediatrics, Sree Lakshmi Narayana Institute of Medical Science	Member
45	Dept of Radiology, Sree Lakshmi Narayana Institute of Medical Science	Member
46	Dept of Anaesthesia Sree Lakshmi Narayana Institute of Medical Science	Member
47	Dept of OBG, Sree Lakshmi Narayana Institute of Medical Science	Member
48	Dept of Microbiology, Sree Lakshmi Narayana Institute of Medical Science	Member
49	Dept of Community Medicine, Sree Lakshmi Narayana Institute of Medical Science	Member
50	Dept Of Biochemistry, Sree Lakshmi Narayana Institute of Medical Science	Member

PROFESSORS (ENGINEERING, MEDICINE, DENTISTRY, NURSING AND PHYSIOTHERAPY)

S.N O	DEPARTMENT	MEMBERSHIP
1	Aeronautical Engg, Bharath Institute Of Science And Technology	Member
2	Dept Of Prosthodontics, SreeBalaji Dental College And Hospital	Member
3	Dept Of Oral And Maxillofacial Surgery, Sree Balaji Dental College And Hospital	Member
4	Dept Of Nursing, Sree Balaji College Of Nursing	Member
5	Dept Of Physiology, Sree Balaji Dental College And Hospital	Member
6	Dept Of Orthopaedics, Sree Lakshmi Narayana Institute Of Medical Science	Member
7	Dept Of Nursing, Sree Balaji Medical College And Hospital	Member
8	Professor, Orthodontist, General Surgery	Member



ASSOCIATE PROFESSORS (ENGINEERING, MEDICINE, DENTISTRY)

S.NO	DEPARTMENT	MEMBERSHIP
1	Dept Of Conservative, Dentistry And Endodontics	Member
2	Department Of Civil, Bharath Institute Of Science And Technology	Member

EDUCATIONISTS – NOMINATED BY THE PRESIDENT

S.N O	DEPARTMENT	MEMBERSHIP
1	Dean, School Of Bio Engg, SRM University	Member
2	Former VC, University Of Madras	Member
3	Educationist, Mahalakshmi Nagar, Selaiyur, Chennai	Member
4	Educationist / Former Principal, Cummins College Of Engineering For Women	Member

SPECIAL INVITEES

S.N O	DEPARTMENT	MEMBERSHIP
1	Controller Of Examinations Engineering	Member
2	Controller Of Examinations Medical Sciences, Sree Balaji Dental College And Hospital	Member
3	Additional Controller PG, Sree Balaji Dental College And Hospital	Member
4	Academic Officer, Sree Balaji Dental College And Hospital	Member
5	Prof & HOD – Anatomy, Sree Lakshmi Narayana Institute Of Medical Science	Member
6	Associate Professor, Dept Of Orthopedics	Member
7	Professor Of Microbiology	Member
8	Director, Research, Bharath Institute Of Science And Technology	Member

10.1.4. Decentralization in working and grievance redressal mechanism (5)

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & Sexual Harassment Committee.

Central Committees

S.No	Details	Professor in-charge	Email address
Student Welfare Committee			
1	NRI Students	Dr. A. Kumaravel, BIST	Kumaravel.cse@bharathuniv.ac.in
2	NSS Cell	Dr. R. Karthikeyan, BIST	Karthikeyan.cse@bharathuniv.ac.in
3	Railway Passes	Dr. V. Manimozhi, BIST	Manimozhi.eng@bharathuniv.ac.in
4	Transport	R. Rajasekar, BIST	transport@bharathuniv.ac.in
5	Boys Hostel	Dr. K. P. Kaliyamurthie, BIST	Kaliyamurthie.it@bharathuniv.ac.in
6	Girls Hostel	Dr. R. Vasuki, BIST	Vasuki.bma@bharathuniv.ac.in



7	Discipline	Dr.W.M.S.Johnson, SBMCH	Johnson.wms@bharathuniv.ac.in
8	Anti-Ragging	Dr.P.Sasikumar, BIST	sasikumar.p@bharathuniv.ac.in
9	Canteen and Cafeteria	Dr.N.B.Pradeep Kumar, BIST	Pradeep kumar th@bharathuniv.ac.in
10	Girls Hostel Advisory	Dr.K. Saraswathy, SBMCH	Saraswathi.k@bharathuniv.ac.in
11	Boys Hostel Advisory	Dr.R.Chidambaram, SLIMS	Chidambaram.r@slims.bharathuniv.ac.in
12	Students' Grievance Redressal	Dr. Padma, SBMCH	Padma.v@bharathuniv.ac.in
13	IEEE Chapter	Dr.S.P. Vijayaragavan, BIST	Vijayaragavan.eee@bharathuniv.ac.in
14	SAE Chapter	Dr.P. Naveen Chandran, BIST	Naveen .auto @ bharathuniv.ac .in
Faculty Welfare Committee			
15	Women's Forum	Dr.L.Jeyanthi Rebecca, BIST	Jeyanthi.bt@bharath univ.ac.in
16	Employees' Grievance Redressal Committee	Dr.KathirViswalingam, BIST	KathirViswalingam@bharathuniv.ac.in
17	Against Sexual Harassment	Dr.V.Manimozhi, BIST	Manimozhi.eng@bharathuniv.ac.in
University Welfare Committee			
18	Power Supply	Dr. S. Prakash, BIST	prakash.eee@bharathuniv.ac.in
19	Gardening	Dr.S.Ravindhar, BIST	Ravindhar.arch@bharathuniv.ac.in
20	Alumnus Cell	Dr.P. Dayakar, BIST	Dayakar.civil@bharathuniv.ac.in
21	Sports Department	Dr.BalajiSubramaniyan, SLIMS	Blaji.pd@slims.bharathuniv.ac.in
22	Central Stores	Dr.S.Naakeeran, BIST	Naakeeran.mech@bharathuniv.ac.in
23	Purchases	Dr. T. Saravanan, BIST	Saravanan.etc@bharathuniv.ac.in
24	Information Technology	Dr.A.Muthukumaravel, BIST	Muthukumaravel.mca@bharathuniv.ac.i n
25	Hardware & Computer Network	Mr. A.StephenAntoJegan, BIST	stephen.a@bharathuniv.ac.in
26	Construction	Dr.P. Sachithanandam, BIST	Sachidanandam.civil@bharathuniv.ac.in
27	Safety Committee	Dr. Kishore, SBDCH	kishorekumars.odo@sbdch.bharathuniv. ac.in
28	Maintenance Aspects	Dr.Bhuminathan	Bhuminathan@bharathuniv.ac.in
29	Web Committee	Dr.S.Neduncheliyan	ites@bharathuniv.ac.in
30	Library Advisory	Dr. V. Khanaa, BIST	Drvkannan 62@bharathuniv.ac.in



	Committee		
31	University ERP	Dr.S. PraveenKumar, BIST	Praveenkumar.mba@bharathuniv.ac.in
32	Energy Audit and Control	Dr. M. Sundarajan, BIST	hodaero@bharathuniv.ac.in
33	BU Newsletter Editorial Board	Dr. A. Vaithialingam, SLIMS	Vaithilingam.a@slims.bharathuniv.ac.in
34	BU Ombudsman	Dr.Masthan, SBDCH	drmasthan@sbdch.bharathuniv.ac.in
In-Charges			
35	IQAC	Dr.Sudalaimuthu, BIST	drsudalaimuthu@bharathuniv.ac.in
36	International Relations	Dr.T. Krishnakumar, BIST	drkk@bharathuniv.ac.in
37	Centre for Extension Activities	Dr. R. Udayakumar, BIST	Udayakumar.it@bharathuniv.ac.in

10.1.5. Delegation of financial powers (5)

Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each of the assessment years.

FINANCE COMMITTEE		
S.NO	PROFESSION	NAME
1	Chairman	Vice-Chancellor
2	Member	Pro Vice-Chancellor
3	Secretary	Registrar
4	Member	Educationalist
5	Member	Dean
6	Member	Administrative Officer
7	Member	Auditor
8	Member	Finance Manager

Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments

SNO	Designation	Amount	Remarks
1	Dean	10000/ Month	
2	Head of the department	5000/Month	



10.1.6. Transparency and availability of correct/unambiguous information in public domain (5)

- <https://www.bharathuniv.ac.in/about/>
- <https://www.bharathuniv.ac.in/btech-computer-science.html>

10.2. Budget Allocation, Utilization, and Public Accounting at Institute level (15)

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: Current Financial Year – CFYm1 (Current Financial Year minus 1), CFYm2 (Current Financial Year minus 2), CFYm3 (Current Financial Year minus 3)

For CFY (2019-20)

Total Income in CFY:2019-2020				Actual expenditure in 2019-20			Total No. of students in CFY:7424
Fee	Govt .	Grant(s)	Other Source	Recurring including Salaries	Non-recurring	Special Projects/Any other, specify	Expenditure per student
90,15,38,843	-	-	-	87,06,36,564	39,505,662	-	1,22,595

Table B.10.2a



Note: Similar tables are to be prepared for CFYm1, CFYm2 & CFYm3.

Items	Budgeted in 2019-20	Actual expenses in 2019-20	Budgeted in 2018-19	Actual Expenses in 2018-19	Budgeted in 2017-18	Actual Expenses in 2017-18	Budgeted in 2016-17	Actual Expenses in 2016-17
Infrastructure Built-Up	5,16,45,382	4,96,36,287	3,45,35,682	3,35,24,568	1,25,80,500	1,06,95,285	95,00,250	89,72,546
Library	1,12,36,875	98,65,386	91,23,545	81,62,535	74,52,108	45,26,812	40,78,765	39,38,206
Laboratory equipment	6,15,85,365	5,68,72,850	4,85,24,650	3,55,75,604	3,39,40,050	3,24,56,544	2,22,35,420	2,08,34,522
Laboratory consumables	8,86,358	6,15,878	7,23,252	2,32,021	4,00,400	2,65,042	5,39,525	2,93,456
Teaching and non-teaching staff salary	86,54,35,412	79,53,45,518	69,24,52,451	67,26,47,112	54,95,25,000	48,13,06,751	36,25,80,650	34,88,06,751
Maintenance and spares	13,50,528	11,48,358	11,23,050	9,63,040	12,55,005	8,50,045	2,50,420	1,80,250
R&D	10,89,52,412	9,45,85,612	8,63,78,350	7,43,25,648	6,25,00,440	5,56,93,229	4,52,02,502	4,02,20,515
Training and Travel	4,26,565	2,98,316	3,13,580	1,53,650	3,55,250	1,15,812	75,000	65,069
Miscellaneous expenses	7,05,854	5,86,173	5,59,000	2,55,000	3,05,000	2,85,000	80,000	57,525
Others, specify	1,00,000	8432	50000	1,352	5,000	50,000	0	5,000
Total	1,10,23,24,751	1,00,89,62,810	87,37,83,560	82,58,40,530	66,83,18,753	58,62,44,520	44,45,42,532	42,33,73,840

Table B.10.2b



10.2.1. Adequacy of budget allocation (5)

Before the commencement of every academic year a meeting of all the Heads of departments is convened and budgetary requirement is taken for the categories of expenditure. The categories considered are procurement of new equipment, maintenance/servicing of existing equipment, consumables required, building space and also books required for the library for each department based in the curricular reforms suggested in the respective Board of Studies.

For buildings (new construction as well as maintenance of existing building) detailed plans and estimates are prepared and approval is taken for the same in the Governing Council meetings. A detailed report of all the development works undertaken and their current status is presented in the Governing Council meeting.

The budgetary requirements are met through the admission fees collected from the students and the revenue generated from the consultancy services. The budget allocated at the beginning of the financial year is adequate for managing the expenditure during that year. In case of any additional funds required, the management provides the requisite support.

10.2.2. Utilization of allocated funds (5)

During each financial year out of the total budget allocated nearly 85% to 95% of the budget is utilized under the respective category of expenditure proposed. For the financial year 2016-17 the outlay of the budget was Rs. 39, 21, 50, 000 and the total expenditure being Rs. 36, 14, 57, 360, thus 92.17% of the total budget has been utilized during 2016-17. The major component of expenditure is towards the salary of faculty and staff, with nearly 81.45% of the total budget being allocated. The budget utilized under other categories is 18.55%. In addition to the expenditure incurred through the regular revenue from student fees (44.12%) and the Government grant (35%) towards salary component of faculty and staff in aided departments the college has also utilized nearly 3.79 crores during 2016-17 from TEQIP-II grants. The management contributes 15% and 100% of the salary component for faculty and staff of Aided and Unaided departments respectively. In total, the budget allocated during each financial year is effectively utilized and the institute is self-sustaining to a large extent. In case of any shortfall in finances required for developmental activities the management provides the requisite support

10.2.3. Availability of the audited statements on the institute's website (5)

YES

10.3. Program Specific Budget Allocation, Utilization (30)

Total Budget at program level: For CFY, CFYm1, CFYm2& CFYm3

**CFY: Current Financial Year – CFYm1 (Current Financial Year minus 1) CFYm2 (Current Financial Year minus 2) CFYm3 (Current Financial Year minus 3)
For CFY (2019-20)**



Total Budget in 2019-20		Actual expenditure in 2019-20		Total No. of students in CFY:146
Non recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,72,40,412	45,53,057	1,68,94,204	14,05,199	1,25,338

Table B.10.3a

Note: Similar tables are to be prepared for CFYm1, CFYm2 & CFYm3.

Items	Budget ed in 2019-20	Actual expense s in 2019-20	Budget ed in 2018-19	Actual Expens es in 2018-19	Budget ed in 2017-18	Actual Expens es in 2017-18	Budget ed in 2016-17	Actual Expens es in 2016-17
Infrastruct ure Built-Up	24,84,219	22,36,418	8,98,548	8,12,578	2,95,618	2,76,219	2,76,856	2,63,878
Library	4,15,878	3,98,514	2,64,546	2,36,354	1,46,800	1,24,514	1,15,886	1,02,616
Laboratory equipment	4,18,428	3,18,526	1,12,457	95,998	9,98,318	9,05,218	6,12,896	5,96,118
Laboratory consumabl es	13,516	11,568	7316	6,518	9,614	8,566	14,300	8,118
Maintenan ce and spares	48,758	43,186	29,514	27,314	34,518	29,105	8,596	6,126
R&D	49,54,528	44,86,118	22,79,846	21,18,415	18,95,618	16,47,055	12,24,562	11,12,357
Training and Travel	11,550	9818	6,165	5,146	4,218	3,715	4,200	3,212
Miscellane ous expenses	19,546	17,818	10,756	9,578	8,918	7,818	12,640	3,516
Total	83,66,423	75,21,966	36,09,148	33,11,901	33,93,622	30,02,210	22,69,936	20,95,941

Table B.10.3b

*** Items to be mentioned.**

10.3.1. Adequacy of budget allocation (10)

Before the commencement of every academic year a meeting of all the Heads of departments is convened and budgetary requirement is taken for the categories of expenditure. The categories considered are procurement of new equipment, maintenance/servicing of existing equipment, consumables required, building space and also books required for the library for each department based in the curricular reforms suggested in the respective Board of Studies. For buildings (new construction as well as maintenance of existing building) detailed plans



and estimates are prepared and approval is taken for the same in the Governing Council meetings. A detailed report of all the development works undertaken and their current status is presented in the Governing Council meeting. The budgetary requirements are met through the admission fees collected from the students and the revenue generated from the consultancy services. The budget allocated at the beginning of the financial year is adequate for managing the expenditure during that year. In case of any additional funds required, the management provides the requisite support)

10.3.2. Utilization of allocated funds (20)

During each financial year out of the total budget allocated nearly 85% to 95% of the budget is utilized under the respective category of expenditure proposed. For the financial year 2016-17 the outlay of the budget was Rs. 39, 21, 50, 000 and the total expenditure being Rs. 36, 14, 57, 360, thus 92.17% of the total budget has been utilized during 2016-17. The major component of expenditure is towards the salary of faculty and staff, with nearly 81.45% of the total budget being allocated. The budget utilized under other categories is 18.55%. In addition to the expenditure incurred through the regular revenue from student fees (44.12%) and the Government grant (35%) towards salary component of faculty and staff in aided departments the college has also utilized nearly 3.79 crores during 2016-17 from TEQIP-II grants. The management contributes 15% and 100% of the salary component for faculty and staff of Aided and Unaided departments respectively. In total, the budget allocated during each financial year is effectively utilized and the institute is self-sustaining to a large extent. In case of any shortfall in finances required for developmental activities the management provides the requisite support

10.4. Library and Internet (20)

(Indicate whether zero deficiency report was received by the Institution for all the assessment years. Effective availability/purchase records and utilization of facilities/equipment etc. to be documented and demonstrated)

10.4.1. Quality of learning resources (hard/soft) (10)

- Relevance of available learning resources including e-resources
- Accessibility to students
- Support to students for self-learning activities

10.4.2. Internet (10)

- Name of the Internet provider: 1.BSNL 2.LIMRAS EIRO NET 3.TIC FIBER
- Available bandwidth:1. 1Gbps 2. 100Mbps 3.20Mbps
- Wi Fi availability: YES
- Internet access in labs, classrooms, library and offices of all Departments: YES
- Security arrangements YES



PART-C

Declaration

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date:

Signature & Name

Place:

Head of the Institution with seal