

Course Number and Name												
BSS601 - VALUE EDUCATION AND PROFESSIONAL ETHICS												
Credits and Contact Hours												
3 and 45												
Course Coordinator's Name												
Mr Ramamoorthy												
Text Books and References												
TextBook:												
1. Value Education for Health, Happiness and Harmony, The World Community Service, Centre Vethathiri Publications (Unit 1 – III).												
2. Mike W Martin and Roland Schinzinger, Ethics In Engineering, Tata Mcgraw Hill, Newyork 2005 (Units IV & V)												
References:												
1. Philosophy of Universal Magnetism (Bio - magnetism, Universal Magnetism) The World Community Service Centre Vethathiri Publications (for Unit III)												
2. Thirukkural with English Translation of Rev. Dr. G.U. Pope, Uma Publication, 156, Serfoji Nagar, Medical College Road, Thanjavur 613 004 (for Units I - III)												
3. R S Nagaarazan, Textbook On Professional Ethics And Human Values, New Age International Publishers, 2006 (for Units IV-V)												
4. Charles D Fledderman, Engineering Ethics, Prentice Hall, New Mexico, 2004 (for Units IV- V)												
5. www.waceinc.org/philly2011/conference.../KARSTE~1.PDF												
Course Description												
- To teach the philosophy of Life, personal value, social value, mind cultural value and personal health												
- To teach professional ethical values, codes of ethics, responsibilities, safety, rights and related global issues.												
Prerequisites						Co-requisites						
Nil						Nil						
required, elective, or selected elective (as per Table 5-1)												
required												
Course Outcomes (COs)												
CO1: To learn about philosophy of Life and Individual qualities												
CO2: To learn and practice social values and responsibilities												
CO3: To learn and practice mind culture, forces acting on the body and causes of diseases and their curing												
CO4: To learn more of Engineer as Responsible Experimenter.												
CO5: To learn more of Risk and Safety assessment with case studies.												
CO6: To learn more of Responsibilities and Rights as Professional and facing Global Challenges												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
	COs/SOs	a	b	c	d	e	f	g	h	i	j	k
	CO1			M		H		M	H	M	L	L
	CO2			M		H		M	H	M	L	L
	CO3			M		H		M	H	M	L	L
	CO4			H		H		M	H	M	L	L
	CO5			H		H		M	H	M	L	L
	CO6			H		H		M	H	M	L	L

List of Topics Covered

UNIT I : PHILOSOPHY OF LIFE AND INDIVIDUAL QUALITIES

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Human Life on Earth - Purpose of Life, Meaning and Philosophy of Life. The Law of Nature – Protecting Nature /Universe. Basic Culture - Thought Analysis - Regulating desire - Guarding against anger - To get rid of Anxiety – The Rewards of Blessing - Benevolence of Friendship - Love and Charity - Self – tranquility/Peace

UNIT II : SOCIAL VALUES (INDIVIDUAL AND SOCIAL WELFARE)

9

Family - Peace in Family, Society, The Law of Life Brotherhood - The Pride of Womanhood – Five responsibilities/duties of Man : - a) to himself, b) to his family, c) to his environment, d) to his society, e) to the Universe in his lives, Thriftness (Thrift)/Economics. Health - Education - Governance - People's Responsibility / duties of the community, World peace.

UNIT III : MIND CULTURE & TENDING PERSONAL HEALTH

9

Mind Culture - Life and Mind - Bio - magnetism, Universal Magnetism (God –Realization and Self Realization) - Genetic Centre – Thought Action – Short term Memory – Expansiveness – Thought – Waves, Channelising the Mind, Stages - Meditation, Spiritual Value. Structure of the body - the three forces of the body- life body relation, natural causes and unnatural causes for diseases, Methods in Curing diseases

UNIT IV: ENGINEERING AS SOCIAL EXPERIMENTATION AND ENGINEERS'S RESPONSIBILITIES FOR SAFETY

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Engineering as Experimentation – Engineer as Responsible Experimenters – Codes of Ethics – The Challenger, case study. Assessment of Safety and Risk – Risk Benefit Analysis and Reducing Risk – The Three Mile Island and Chernobyl case studies.

UNIT V : ENGINEERS'S RESPONSIBILITIES FOR RIGHTS AND GLOBAL ISSUES

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Collegiality and Loyalty – Respect for Authority – Collective Bargaining – Confidentiality – Conflicts of Interest – Occupational Crime – Whistle Blowing – Professional Rights – Employee Rights – Intellectual Property Rights (IPR) – Discrimination.

Multinational Corporations – Environmental Ethics – Computer Ethics – Weapons Development –Engineers as Managers – Consulting Engineers – Engineers as Expert Eye Witnesses and Advisors – Moral Leadership