

Faculty Vitae

Name of the Faculty B.Hemalatha					
Education					
	Degree	Discipline	Institution	Year	
UG	B.E	Instrumentation and Control Engineering	SRM Engineering college	1999	
PG	M.E	Electronics and Control	Sathyabama University	2007	
PhD					
Academic experience					
	Institution	Title	From	To	FT/PT
	BIHER	Associate Professor	2017	Till date	FT
	SRM University	Assistant Professor	2007	2017	FT
	BIHER	Lecturer	2003	2007	FT
Certifications or professional registrations					
<ul style="list-style-type: none"> ❖ Introduction to programming with MATLAB ❖ Organic Solar Cells 					
Membership in professional organizations					
<ul style="list-style-type: none"> ❖ Life time membership in ISTE ❖ Member, IET 					
Honors and awards					
<ul style="list-style-type: none"> ❖ Mentor for the SRM HUMANOID team- Annual Robotics 2017 competition held in Pleaston ,USA ,where this team won Gold medal -1, Silver medal – 2, Bronze medal - 1 place Worldwide and first in Asia.(2017) 					
Service activities (within and outside of the institution)					
NIL					
List of Publications					
Journal Publications:					
<ul style="list-style-type: none"> ❖ Sujit E S, Hemalatha B., A critical review on design of MEMS based piezoresistive pressure sensor, Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS); ISSN: 0975-8585; Vol 8 Issue 2, 2017, pp2557-2763 ❖ Sujit E S, Hemalatha B., Review of approaches and techniques for quantitative and qualitative measurement of soil nutrients, Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS); ISSN: 0975-8585, Vol 8 Issue 2, 2017, pp 2564-2571 ❖ B.Hemalatha, Dr. A.Vimala Juliet, “ANFIS Controller for Water Level Control of Boiler Drum”, International Journal of Intelligent Engineering and Systems, 9(4), 2016. 					

- ❖ Lini.M.Thomas, B.Hemalatha, **“Electromechanical Actuator Servo Design for Launch Vehicle Applications”**, International Journal of Engineering Research in Electronics and Communication Engineering, 2(12), December 2015.
- ❖ Vijay Kaushal, B.Hemalatha, **“Detection of Various Areas on the Fundus Image used for the Diagnosis of Diabetic Retinography”**, International Journal of Applied Engineering Research, 10(7), 2015.
- ❖ Natasha swarnkar, B.Hemalatha, **“Outlier Detection in Wireless Sensor Networks using Compressive Sensing Algorithm”**, International Journal of Applied Engineering Research, 10(7), 2015.
- ❖ Sujith John Mathew, B.Hemalatha, **“Fault Identification and Protection of Induction Motor using PLC and SCADA”**, International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, 3(4), 2014.
- ❖ Aashish Vatsyan, B.Hemalatha, **“Electro coagulation based mobile water filtration Robot”**, International Journal of advanced Research in Electrical, Electronics and Instrumentation engineering, 2(12), 2013.

International Conference

- ❖ Sujit E S, Kusuma N, Hemalatha B., Polysilicon piezoresistive MEMS Pressure sensor: Study of Analytical Solutions for diaphragm and Design & Simulation, International Conference on Communication and Control System Processing ICCSP-2017 IEEE, 6-8 April, 2017 [Accepted]
- ❖ Sujit E S, Hemalatha B., Performance Prediction Study of Metacomposites for Novel Applications. Think Nano 2016 at Centre for Nano Science & Engineering, IISc, Bengaluru March 31-April 1, 2016. [Poster Presentation]
- ❖ Lini . M.Thomas, B.Hemalatha, **“MRAC using MIT rule for Launch Vehicle Electromechanical Actuator”**, International conference on Engineering Technology and Science , 2016
- ❖ Lini . M.Thomas, B.Hemalatha, **“Modified Servo Design of Electro Mechanical Actuator for Launch Vehicle”**, International conclave on Renewable Energy Systems and Technology, 6th to 8th April 2016.
- ❖ Lini . M.Thomas, B.Hemalatha, **“Comparitive Study between MIT rule and LYAPNOV method for MRAC in Launch Vehicle Electro Mechanical Actuator”**, International Conference on Emerging Technologies in Computing, Control, Communications and Construction Technologies, 12th and 13th April 2016.

Recent professional development activities

- ❖ Brain wave Robotics