MECHATRONICS

2019-20

NEWSLETTER

INAGURATION OF SAE - MGIT

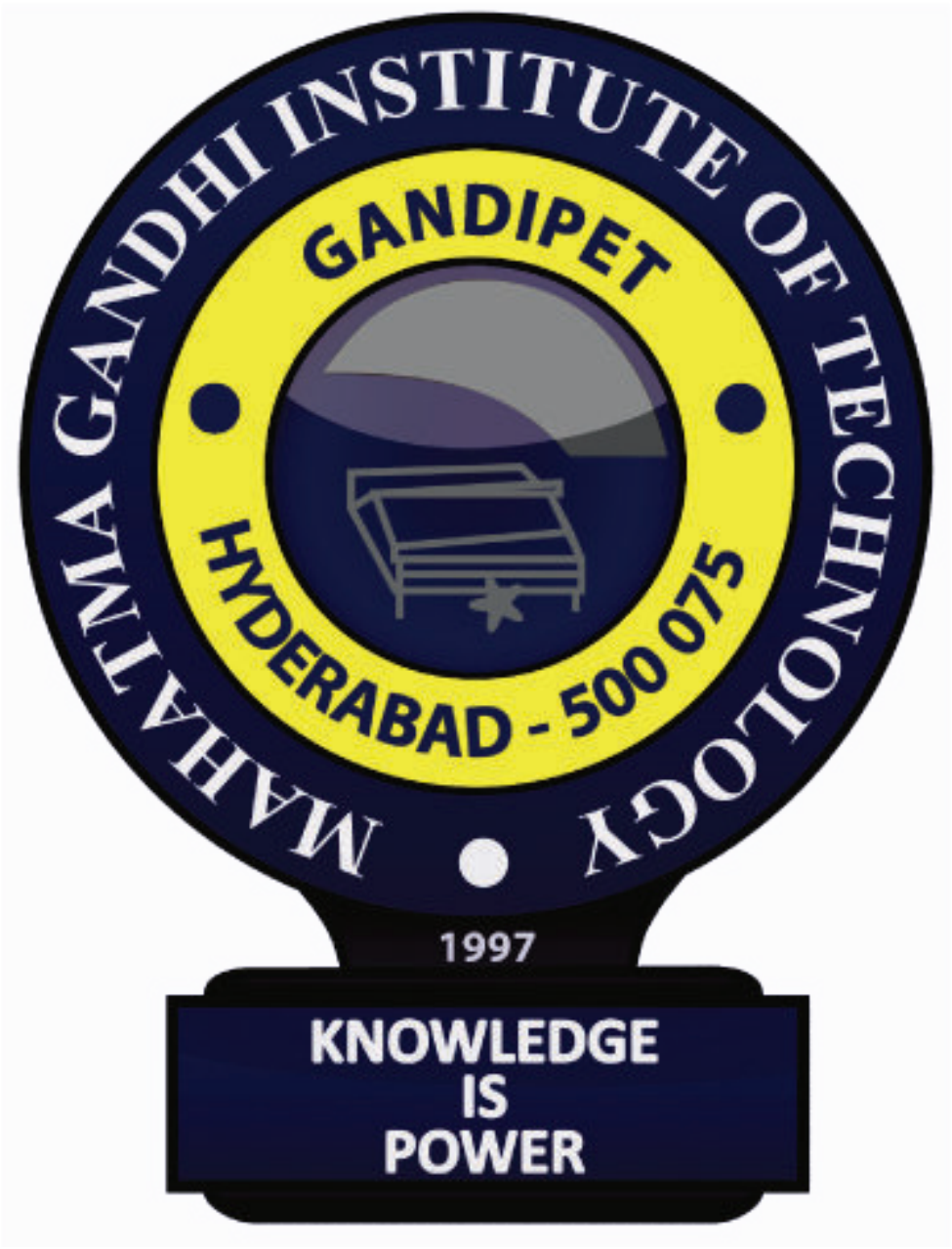
GUEST LECTURE ON

CURRENT TECHNOLOGIES USED IN MECHATRONICS

GUEST LECTURE ON

AUTOMOTIVE ENGINEERING RECENT DEVELOPMENTS & FUTURE CARS

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING (MECHATRONICS)



MOTIVATE
INNOVATE
EMPOWER

25 YEARS

MECHATRONICS NEWSLETTER

Department Vision

The Department inspires and motivates the students to acquire knowledge to develop and serve the industry and society with great zeal. It aims to transform the students into disciplined, talented citizens of impeccable character, fused with hands on training to make them good entrepreneurs with an emphasis to develop social, cultural and environmental consciousness and lifelong learning.

Department Mission

The Mission of the Department is to strive towards the development and dissemination of knowledge in the areas of Mechatronics Engineering. It aims at reaching the pinnacle of technical excellence with continuous quality improvement. It is destined to train the students with a capacity to take-up policy formulation and decision making responsibilities.

Program Educational objectives (PEOs)

- To prepare the students for fundamental technical knowledge and skills in Mathematics, Science and Engineering to recognize, analyse and solve problems in industry which meet the needs of Indian and Multinational companies, in the area of Mechatronics Engineering
- To develop the ability among the students to acquire the knowledge of allied courses with the knowledge of core courses so as to understand the integration of multi-disciplinary nature of technological problems.
- To promote the students awareness of life-long learning, and to introduce them to professional ethics and codes of professional practice.
- To develop the students to become effective collaborators and innovators leading/ participating in efforts to address social, technical and business challenges.

Program Specific Outcomes (PSOs)

- An ability to identity, formulate and solve engineering problems of advanced Mechanical Engineering in the area of Robotics and Automation.
- An ability to apply the concepts of Mechatronics for the development of engineering applications in the area of Pneumatics, Hydraulics and Electronic Control Systems.

MECHATRONICS NEWSLETTER

MESSAGE FROM THE HOD

Mechatronics, a very unique and emergent discipline, was started with the inception of the Mahatma Gandhi Institute of Technology (MGIT) in the year 1997. MGIT is the only Institute in the State and in the country to have started for the first time this innovative discipline of engineering, which is an integrated technology involving synergetic consideration and fusion of concepts of mechanical engineering, electronics, electrical, computer science and control engineering, the key element being the integration of these areas through the design process.

The Department of Mechanical Engineering (Mechatronics) offers UG and PG courses in Mechatronics and also a UG course in Mechanical engineering. The Department has forty, well qualified faculty members viz. four Professors, three Associate Professors and thirty three Assistant Professors, and is supported by qualified and experienced non-teaching staff. At present, the department has 11 Ph.D holders and 20 faculty members pursuing their Ph.D with reputed Institutions.

The Department has well-established independent laboratories like SCADA-based Instrumentation & Control systems, Computer Aided Motion Control Design, CNC & Robotics, Advanced CAD/CAM Lab with licensed software, Machine tools Lab with CNC-EDM, advanced Thermal Engineering and Heat Transfer Lab with computer-based multi-cylinder petrol engine test rig, Advanced Material testing lab with computer-based tensile and torsion testing machine. The department is also having advanced Measurement equipment like FARO gage portable CMM and 3D printing Lab, the AICTE has sanctioned a MODROBS project to the department for the modernization of the CNC & Robotics lab and also sanctioned a grant in aid for organizing a two-week FDP and one-week STTP programs.

UGC and JNTUH (TEQIP-III) have also sanctioned Research Projects to the Department. The students work with various clubs/ professional chapters like ASME, SAE, Robotics, ISTE, and Innovation Club. They showcase their potential knowledge in the form of product development and organize various workshops /seminars/conferences. Indian National Academy of Engineers (INAE), New Delhi has awarded Mechatronics students for Best Innovative Undergraduate Projects at the National Level in the area of Agricultural Robots during the Academic Years 2016-17 & 2018-19.

EDITORIAL BOARD

EDITORIAL BOARD

STUDENT EDITORS

1. Mahati Kuram
2. Abhishek Indupally
3. Atharva Patil
4. Lakshmi Deepak
5. Rahul Ramasagaram
6. Arjun Gudipalli
7. Vedarsh Reddy
8. Abhiram Koka
9. G. Abhinay
10. Aryan Addagatla
11. Sai Nikith
12. Arav Godishala

FACULTY PUBLICATIONS

- "Design and development of wireless sensor network based Autonomous Vehicle", " K Sudhakar Reddy, S.Madhava Reddy, j Pavan Kumar", "Journal of Engineering Sciences", "February 2020"
- "Lithography Techniques for Advanced Materials", "Madhava Reddy S, K Sudhkar Reddy and J Pavan Kumar", "International Journal of Scientific & Technology Research", "February 2020"
- "Arduino Based Product Sorting Machine", "H Baswa Raj, K Sudhkar Reddy", "International Journal of Engineering Sciences ", "January 2020"
- "PVT Cell Performance Characterstics and Efficiency with Phase Change Material", "D.Kameswara Rao, K.Sudhakar Reddy, V.V.Subbarao", "International Journal of Engineering and Advanced Technology", "June 2020"
- "Enhancement of Energy Efficiency With Modeled Design of Concentrated Soalr Power Technology Using Parabolic Dish and Trough", "D.Kameswara Rao, K.Sudhakar Reddy, V.V.Subbarao", "International Journal of Scientific & Technology Research (IJSTR)", "April 2020"
- "Photovoltaic/ Thermal (pvt) system performance effects using conventional/ modern cooling techniques with and without PCM", "D.Kameswara Rao, K.Sudhakar Reddy, V.V.Subbarao", "International conference on innovations in Mechanical Engineering (ICIME -2020)", "January 2020"
- "Evaluation of Tensile Strength of Dissimilar Metal Pure Aluminium and Pure Copper Friction Welds", "Pratyusha M, Venkata Ramana P and Prasanthi G", "Materials Today: Proceedings"
- "Effect of End Profile on Dissimilar Metal Friction Welds of Pure Aluminium and Pure Copper", "Pratyusha M, Venkata Ramana P and Prasanthi G", "International Journal of Mechanical and Production Engineering Research and Development", "June 2020"
- "Effect of Welding Process and Weld Design on Mechanical Properties of RAFM Steel Weldments", "P.Narsimha, L. Siva Rama Krishna, and P.Venkata Ramana", "International Journal of Scientific and Technology Research", "April 2020"
- "Design of PLC-based Hydraulic System using autoSIM-200", "K. Ankamma and J Pavan Kumar", "Science, Technology and Development", "December 2019"

FACULTY PUBLICATIONS

- "GSM AND ARDUNIO Based on Autonomous Surface Monitoring Robot for Sustainable Sanitation and Water Management", "D.Laxmi Tejeswini, Dr.S.Madhava Reddy, Dr.K. Ankamma", "Advanced Science Letters ", "May 2020"
- "Rescue Robot using ESP Microcontroller", "K.Nikhil Chakravarty, K N Sarma, Kashyap J, Kavyasri and S Madhava Reddy", "International Research Journal of Engineering and Technology", "January 2020"
- "Modelling of a warfield Autonomous Robot with GPS and Digital Compass", "P.V Prasad Reddy, S Madhava Reddy and D L Tejaswini", "Springer Journal-Innovations in Mechanical Engineering"
- "Lithography Techniques for Advanced Materials", "Madhava Reddy S, K Sudhkar Reddy and J Pavan Kumar", "International Journal of Scientific & Technology Research", "February 2020"
- "Design of light weight two wheeler using solar and electrical power equipped with GSM andGPS", "S Nitin Reddy, P Rishitha, R Sai Divya and S Madhava Reddy", "International Research Journal of Engineering and Technology", "June 2020"
- "Sustainability aspects in the warm forming of tailor welded blanks", "V.V.N. Satya Suresh, A Suresh, Srinivasa Prakash Regalla, P. Venkata Ramana and O Vamshi", "E3S conference proceedings", "Yet to be published"
- "Evaluation of hardness of gas and TIG welded sheet metals ", "R.Uday Kumar", "International Journal of Emerging Technologies in Engineering Research [IJETER]", "September 2019"
- "Determination of formability index of sheet metals", "R.Uday Kumar", "International Research Journal of Engineering and Technology [IRJET]", "November 2019"
- "Experimental investigation to study the performance of solid lubricant in turning EN31 and Ti-Al-4V alloy materials", "G. Rakesh Kumar, N Suresh Kumar Reddy, KVK Viswanadham, G Sreenivasulu Reddy", "MaterialsToday Proceedings", "InPress"
- "Synthesis of multi-positions 3-prismatic-revolute-spherical manipulator", "PUNDRU SRINIVASA RAO and NALLURI MOHAN RAO ", "J. SN Appl. Sci.", "September 2019"
- "Synthesis of 3-PRS Manipulator Using Exact Method", "PUNDRU SRINIVASA RAO and NALLURI MOHAN RAO ", "J. Inst. Eng. India Ser. C ", "December 2019"
- "Evaluation of strain hardening exponent of tailor welded sheet metal blanks", "K.C.Sabitha, P.Ravinder Reddy, A.Krishnaiah, R.Uday Kumar", " Journal of Advanced Research in Dynamical &Control Systems", "August 2019"
- " Modelling of a Warfield Automous Robot with GPS and Digital Compass", " P. V. Prasad Reddy, Dr.S.Madhava Reddy, Ms.D.L.Tejaswini ", "Springer"

FACULTY PUBLICATIONS

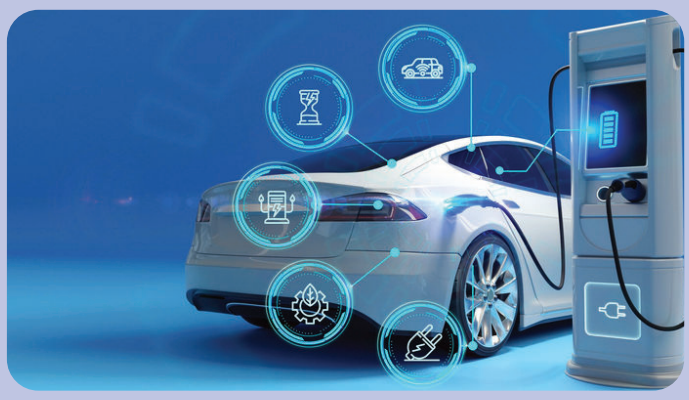
- "Evaluation of Tensile Strength of Dissimilar Metal Pure Aluminium and Pure Copper Friction Welds", "Pratyusha M, Venkata Ramana P and Prasanthi G", "Materials Today: Proceedings", "Accepted for publication."
- "Effect of End Profile on Dissimilar Metal Friction Welds of Pure Aluminium and Pure Copper", "Pratyusha M, Venkata Ramana P and Prasanthi G", "International Journal of Mechanical and Production Engineering Research and Development", "June 2020"
- "Experimental investigation to study the performance of solid lubricant in turning EN31 and Ti-Al-4V alloy materials", "G. Rakesh Kumar, N Suresh Kumar Reddy, KVK Viswanadham, G Sreenivasulu Reddy", "MaterialsToday Proceedings", "InPress"
- "PVT Cell Performance Characterstics and Efficiency with Phase Change Material", "D.Kameswara Rao, .K.Sudhakar reddy, V.V.Subbarao", "International Journal of Engineering and Advanced Technology", "June 2020"
- "Enhancement of Energy Efficiency With Modeled Design of Concentrated Soalr Power Technology Using Parabolic Dish and Trough", "D.Kameswara Rao, K.Sudhakar reddy, V.V.Subbarao", "International Journal of Scientific & Technology Research (IJSTR)", "April 2020"
- "Design and Fabrication of Hybrid Vehicle", "B Ramakrishna,K Sudheer Kumar,D Kameshwara Rao", "Science, Technology and Development", "March 2020"
- "An Experimental Investigation and Process Parameters Optimization of Friction Stir Welded Dissimilar Alloys", "M. Yadi Reddy and K. Rajinikanth", "International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)", "August 2019"
- "Analysis of electrostatic solid lubricant spray process parameters during turning Ti-6Al-4V alloy", "Rakesh Kumar Gunda, Suresh Kumar Reddy Narala", "Journal of Engineering Manufacture (SAGE)", "InPress"
- "An Overview of an Intelligent Robot Navigation System using Ultrasonic Sensors and RFID", " Baindla Ajaykumar, K Sirisha", "Journal of Innovation in Mechanical Engineering", "July-December 2019"
- "Designing an Integrated Multichannel Multiproduct Closed Loop Sustainable Supply Chain Network Meeting Customer Requirements", "T.Niranjan, P.Parthiban and Puneet Goel", "Int. J. Enterprise Network Management"
- "Performance and emissions modelling bioethanol operated spark-ignition engine using adaptive neuro-fuzzy inference system", "Dr. P. Badari Narayana, Dr. R. Manjunatha, U. Jagadeesh Reddy", "International Journal of Emerging Technologies and Innovative Research ", "April 2020".

FACULTY PUBLICATIONS

- "Design and Development of Wireless Sensor Network Based Autonomous Vehicle", "K.Sudhakar reddy,S Madhava reddy,J Pavan kumar", "Journal of Engineering Science", "February 2020"
- "Design of PLC-based Hydraulic system using autosim-200", "K. Ankamma,J Pavan kumar", "Science, Technology and Development", "December 2019"
- "3D FEAnalysis of Metal Spinning Process", "P. Ravi Tej, K. Udayani, S.Gajanana", "IJETER", "L"
- "INVESTIGATION AND OPTIMIZATION OF PROCESS PARAMETERS PVC PIPE FITTINGS BY USING RECYCLED PVC", "P.SHASHIDAR, K.SANTOSH KUMAR, S.AJAY KUMAR", "IJAIEM", "December 2019"
- "Investigation and Optimization of Process Parameters of PVC Fittings by Using Recycled PVC", "P. Shashidhar, K.Santosh Kumar , S. Ajay Kumar ", " IJAIEM ", "December 2019"
- "Investigation and Optimization of Process Parameters of PVC Fittings by Using Recycled PVC", "P. Shashidhar, K.Santosh Kumar , S. Ajay Kumar ", " IJAIEM ", "Demeber 2019"
- "A Novel mathematical Correlation for Thermal Conductivity of Hybrid Composites Reinforces with Natural Fibers", "V Vijaya Bhaskar,Dr.Kolla Srinivas", "Materials today", "March 2020"

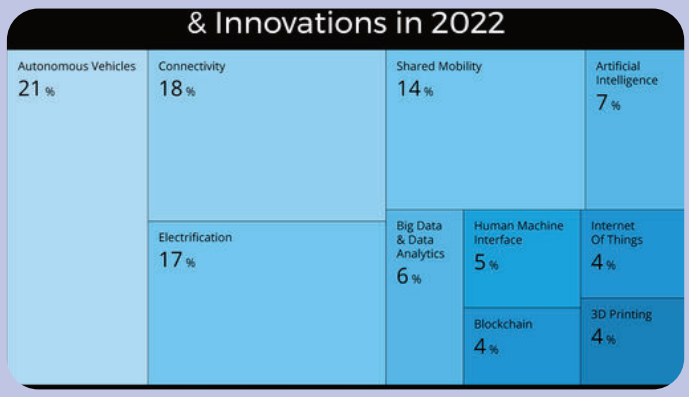
Guest Lectures

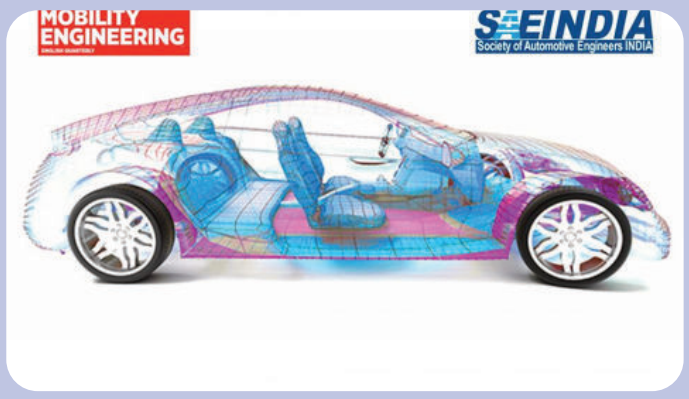
Automotive Engineering and recent Developments and future cars



A guest lecture on "Automotive Engineering and recent Developments and future cars" by Sarwat Hussain. Today's economies are dramatically changing, triggered by development in emerging markets, the accelerated rise of new technologies, sustainability policies, and changing consumer preferences around ownership. Digitization, increasing automation, and new business models have revolutionized other industries, and automotive will be no exception. These forces are giving rise to four disruptive technology-driven trends in the automotive sector: diverse mobility, autonomous driving, electrification, and connectivity. Some recent trends are:

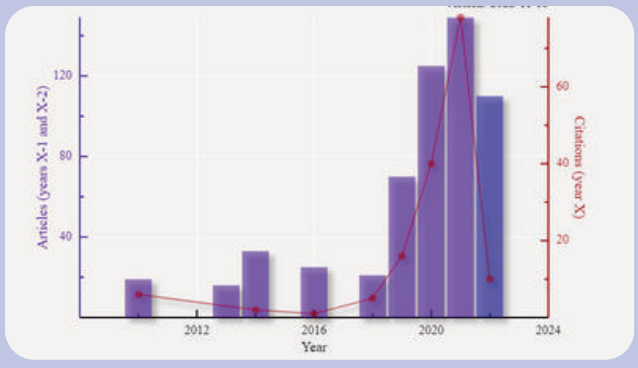
- Autonomous Vehicles (AVs)
- Vehicle Connectivity
- Electrification
- Shared Mobility
- Artificial Intelligence
- Big Data & Analytics
- Human-Machine Interfaces
- Blockchain
- 3D Printing
- Internet of Things



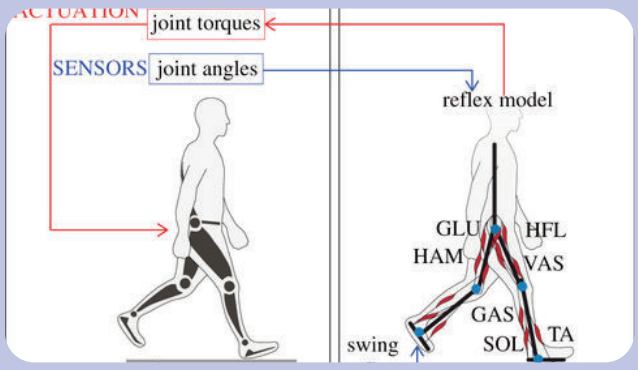


Guest Lectures

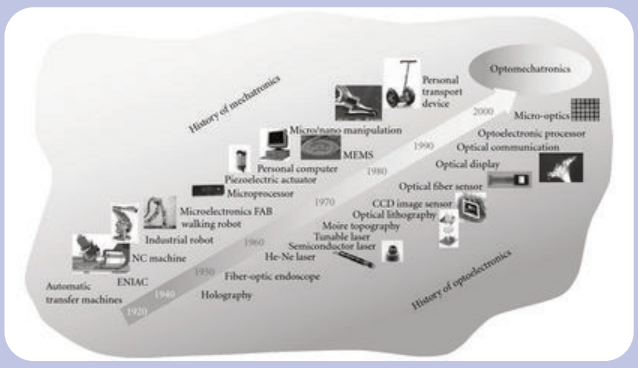
Advances in Mechatronics



A guest lecture on "Advances in Mechatronics" by Dr. P.Chandra Sekhar. Mechatronics refers to the growing number of commercial products and industrial processes that involve the integrated application of mechanical and electrical engineering concepts. Despite the importance of this interdisciplinary area, many of today's engineering graduates are unprepared to function competently in environments that require them to optimally integrate electrical and mechanical knowledge areas. In addition, engineers with better communication and teamwork skills are needed to ensure India's competitiveness in today's global economy. Some advancements in Mechatronics are:



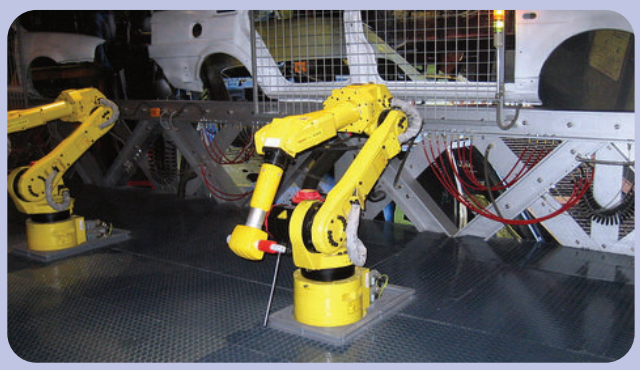
- Bioengineering Materials
- Biologically Inspired Robotics
- Computational Mechanics
- Computer-Based Manufacturing
- Control Methodologies
- Control Systems Modelling and Analysis
- Design and Manufacture
- Mechanisms and machines
- Medical Robotics
- Micro and nanomechanics



Guest Lectures

Automotive advancements in Mechatronics

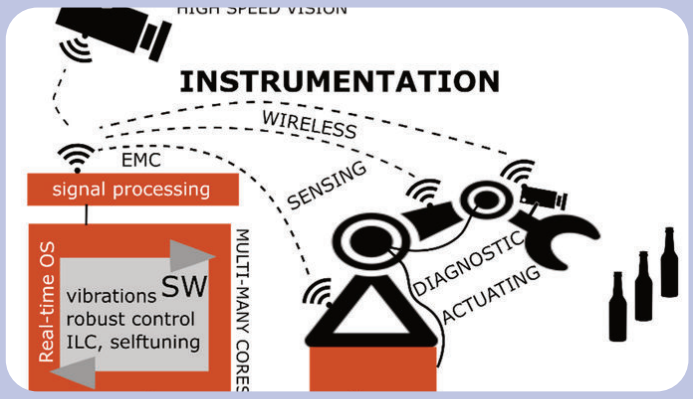
A guest lecture on "Automotive advancements in Mechatronics" by Mr. Suhanth Prajwal Reddy. In automobile engineering, mechatronics is being used to design, with emphasizing the contributions of mechanical, electrical, computer, and control engineering groups. As automakers look for opportunities to differentiate their offerings, the design teams collaborate on new uses of emerging technologies to meet elements of consumer demand. Most automotive innovations consist of significant advancements in systems made possible through the integrated electronics and complex information processing. Such mechatronic systems in need of the simultaneous design of mechanical, electronic and information executing subsystems to achieve the required cost of the automotive production. The motive for the use of mechatronics is discussed, as well as the most important technical challenges of the mechatronics approach. Mechatronic solutions for various automotive purposes were presented.

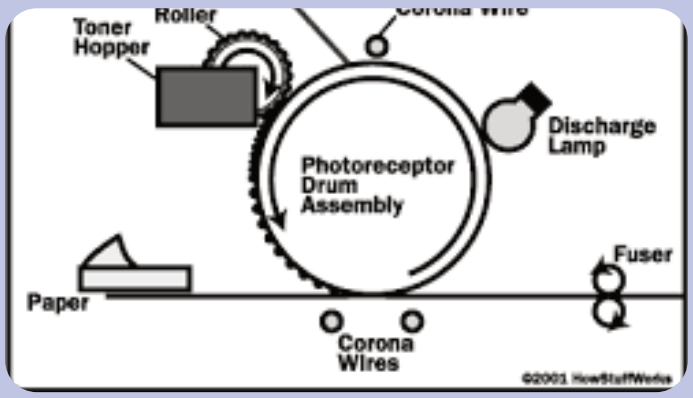


Guest Lectures

Current Technologies Used in Mechatronics

A guest lecture on "Current Technologies Using in Mechatronics" by Koushal Daur. Presently, the move towards a more complex and multidisciplinary system development is increasingly important in order to understand and strengthen engineering approaches for the systems in the engineering field. This will lead to the effective and successful management of these systems. The scientific developments in computer engineering, simulation and modeling, electromechanical motion tools, power electronics, computers and informatics, micro-electro-mechanical systems (MEMS), microprocessors, and distributed system platforms (DSPs) have brought new challenges to industry and academia. Since the application area for developing such systems is very broad, including, for example, automotive, aeronautics, robotics or consumer products, and much more, there is also the need for flexible and adaptable methods to develop such systems. These dynamic interdisciplinary systems are called mechatronic systems, which refer to a system that possess synergistic integration of Software, electronic, and mechanical systems.





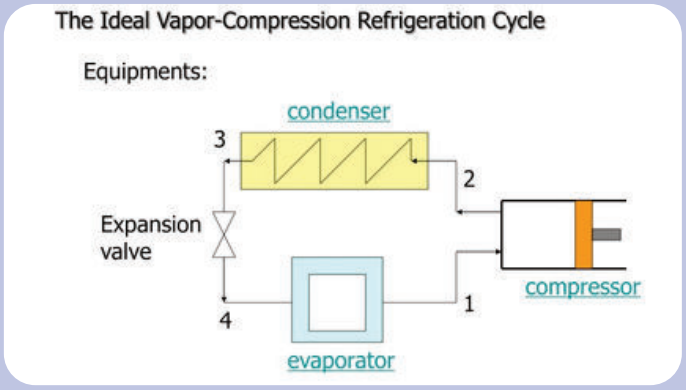
Guest Lectures

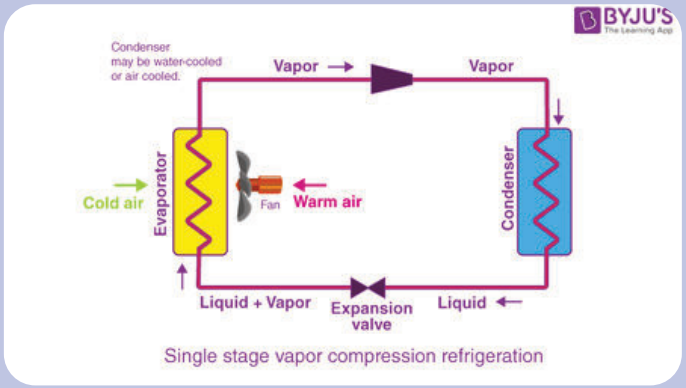
Refrigeration & Air Condition Systems

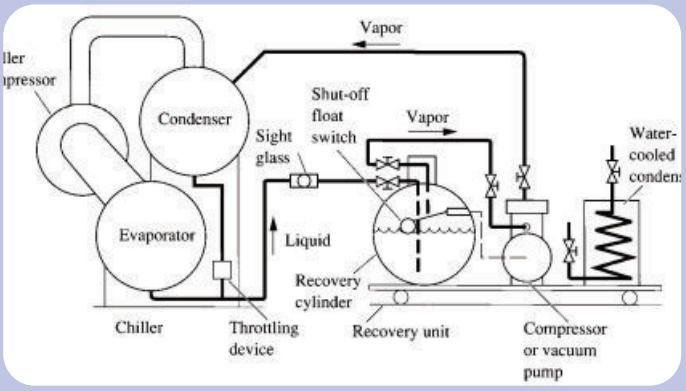
A guest lecture on "Refrigeration & Air Condition Systems" by Mr. L V Ram Prasad.

Air conditioning is a combined process that performs many functions simultaneously. It conditions the air, transports it, and introduces it to the conditioned space. It provides heating and cooling from its central plant or rooftop units. It also controls and maintains the temperature, humidity, air movement, air cleanliness, sound level, and pressure differential in a space within predetermined ONE limits for the comfort and health of the occupants of the conditioned space or for the purpose of product processing.

Refrigeration is defined as the process of extracting heat from a lower-temperature heat source, substance, or cooling medium and transferring it to a higher-temperature heat sink. Refrigeration maintains the temperature of the heat source below that of its surroundings while transferring the extracted heat, and any required energy input, to a heat sink, atmospheric air, or surface water







Faculty Development Program

S.No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
1	K Sudhakar Reddy Professor & Head	Session 1: National Innovation and Startup Policy for Students aC70:C76 and Faculty 2019 by Mr. Dipan Sahu National Coordinator - NISP, IIC & ARIIA, MBA/PGDM in IEV Program, MHRD's Innovation Cell, AICTE	Institutions' Innovation Council MHRD'S Innovation cell, New Delhi	28/04/2020	Research	15 Days
		Session 2: Role and Importance of Pre-Incubators, Incubators and Accelerators in HEIs by Mr. Muthu Singaram, CEO, IIT Madras HTIC Incubator, MTI, Chennai / VibaZone,		29/04/2020	Research	
		Session 3: Hangout with Emerging Innovator & Entrepreneurs Supported through MIC & AICTE, Ms. Vandana Thakur, Female Innovator cum Entrepreneur and others.		30/04/2020	Research	
2	Dr. P.Venkata Ramana Professor	Research Challenges and Opportunities Post COVID-19 (RECOP 2020)	Sri Vasavi Engineering College (A), Tadepalligudem	4 - 9 May 2020 (One week)	R&D	6 Days
		Online AICTE Margadarshan FDP on Art of Writing Papers and Research Methodologies	GRIET, Hyderabad	7 - 13 May 2020 (One week)	R&D	7 Days
		Innovation to Academics (NewGen IEDC, NSTEDB)	Ramachandra college of Engineering, Eluru, A.P.	11 -16 May 2020 (One week)	R&D	6 Days
3	Dr. K. Ankamma Professor	OUTCOME BASED EDUCATION SYSTEM (21st -23rd May 2020)	Lendi college of Engineering, Vijayanagaram	(01 Week) 21/05/2020 to 26/05/2020	OBE	6 Days
		ARTIFICIAL INTELLIGENCE-FDP (22-5-2020 to 26-50-2020)	CMREC, Hyderabad	(05 Days) 06/05/2020 to 10-05-2020	Manufacturing	5 Days
		Emerging Technologies in Robotics (26- 30 May 2020)	Mallareddy Engg College (Autonomous), Hyderabad	(05 Days)26/05/2020 to 30/05/2020	Manufacturing	5 Days
4	Dr. S.Madhava Reddy Professor	Water Challenges during and Post Covid-19	IIT Madras, ICCW	7-28 May, 2020	Water challenges	22 Days
		Rainwater Harvesting	IIT Madras associated with ICCW	01-05 June, 2020	REH	5 Days
		Webinar series Titled " Recent Revolutions in Mechanical Engineering	J.B Institute of Engineering and Technology(A), Hyderabad	02-06 June, 2020	Mechanical Engineering	5 Days

S. No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
5	Dr. R.Uday Kumar Associate Professor	Role of teachers in quality enhancement & Accreditation	SanthiRam Engineering college, Nandyal.	05.06.20-11.06.20	General	7 Days
		Advanced manufacturing enterprise in digital era	Aditya Institute of Technology & management,Tekkali. A.P	01.06.20-05.06.20	Manufacturing	5 Days
		Research opportunities and challenges in manufacturing sector	SVERI College of Engineering, pandharpur, Maharashtra.	01.06.20-06.06.20	Manufacturing	6 Daya
6	B.Govinda Reddy, Assistant Professor	ROBOTICS	NPTEL/AICTE	JULY-SEPT-2019	ROBOTICS	12 Weeks
		Research Opportunities and Challenges in Manufacturing Sector	Shri Vithal Education & Research Institute's College of Engineering, Pandharpur	1-6-2020 TO 6-6-2020	MANUFATURING	6 Days
		EMERGING TECHNOLOGY IN ROBOTIC	MALLA REDDY COLLEGE OF ENGINEERING, HYderabad	26-5-2020 TO 31-5-2020	ROBOTICS	6 Days
7	Dr. V.V.N. Satya Suresh, Associate Professor	FDP on 'Digital Manufacturing with Autodesk Fusion 360'	Conducted by Coursera	Jan -May, 2020	Manufacturing	24 weeks
		FDP on 'AutoCAD for Design and Drafting Exam Prep'	Conducted by Coursera	Jan-May, 2020	Manufacturing	24 weeks
		FDP on SCIlAB- An open source substitute for MATLAB	Conducted by JNTUH and IIT Bombay	25th - 30th May, 2020	Software	6 Days
8	Mr. K.V.Kasi Viswanadham, Assistant Professor	Fundamentals of manufacturing processes	NPTEL,swayam	July to nov, 2019 Treated as 1.5 FDP	Manufacturing	12 weeks
		Purely the Fundamentals of mechanical engineering	Chennai institute of Technology,chennai	One week fdp-1st - 5th June,2020	Mechanical engineering	5 Days
		Research opportunities and challenges in Manufacturing sector	College of engineering, Pandharpur, Maharashtra	One week fdp-1st - 6th June,2020	Manufacturing	5 Days
9	Mr.P.Srinivasa Rao, Assistant Professor	FDP of one week on "Robotics"	NPTEL-SWAYAM	Jul-Sep, 2019 (Eight week course)	Robotics	56 Days
		Workshops on Intellectual property rights	IPPO and PDPU	10th & 11th April 2020	IPR	2 Days
		FDP on "Modeling and Optimization for Materials & manufacturing Processes"	LRBRCE, Mylavaram	18/5/2020 to 22/5/2020 (1-week)	Mechanical	5 Days

S. No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
10	K.C.Sabitha Assistant Professor	FDP on Recent Advances in Material Characterization	NITTR & GRIET	May 23th to 28th 2020	Manufacturing	6 Days
		Vehicle Evaluation with safety & emission Aspect	Marathwada Mitra Mandal's Polytechnic Thergaon, Pune	7th -10th June 2020	Manufacturing	4 Days
		FDP on Purely the Fundamentals of Mechanical Engineering	Chennai Institute of Technology, Chennai	1 - 5 June,2020	Mechanical	5 Days
11	Mr.P.V.Prasad Reddy Assistant Professor	One Week Online Faculty Development Program (Total no. of Sessions:15) On "Emerging Technologies in Mechanical Engineering"	VEMU INSTITUTE OF TECHNOLOGY, P.Kothakota, Chittoor Dist. Andhra Pradesh, India.	26-30th May, 2020	Manufacturing and robotics	5 Days
		5 day FDP on "Drone View of Hotspots in Mechanical Engineering"	St.PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH, AVADI, CHENNAI-54	25-29th May, 2020	Manufacturing and robotics	5 Days
		NPTEL-AICTE online Eight week FDP on "Robotics" conducted from	NPTEL – SWAYAM	Eight week July – Sep, 2019	Robotics	56 Days
12	M. Pratyusha Assistant Professor	FDP on Innovation to Academicians	Rama Chandra College of Engineering (NewGen IEDC-REC Eluru)	11th -16th May 2020	Innovation to Acadamecians	6 Days
		FDP on Recent Advances in Materials Characterization	GRIET in association with NITTTR Chandigarh	23rd -28th May 2020	Materials Characterization	6 Days
		FDP on "Research Opportunities and Challenges in Manufacturing Sector"	Shri Vithal Education & Research Institute's College of Engineering, Pandharpur	01st - 06th June, 2020	Research Opportunities and Challenges in Manufacturing Sector	6 Days
13	Ms.B.Haritha Reddy Assistant Professor	e-workshop EWONAR-2020	Baba Mastnath University Rohtak, Haryana	11th may to 17 may 2020	-	7 Days
14	G Sreenivasulu Reddy, Assistant Professor	Concepts of Thermodynamics -FDP	NPTEL (IIT, Kharagpur)	July-Oct, 2019	Thermal	12 Week
		Futuristic Technologies in Mechanical Industries - FDP	DYPIEMR, in Association with ISTE &IWS.	1 Week Course 5th - 9th, June, 2020	Manufacturing	5 Days
		Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion-Course	Georgia Institute of Technology-Coursera	3 Week Course	Design	3 weeks

S.No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
15	Mr. D Kameswara Rao Assistant Professor	Materail: Recent Trends and Engineering Applications	GRIET, Hyderabad	2nd - 7th June 2020	Mechanical Materials	6 Days
		Online training on SCI Lab	SASI/ IIT	27th April -2nd May 2020	English	6 Days
		Emerging Technologies in Mechanical Engineering	VIT, Chittor	26th May -30th May 2020	Mechancial	5 Days
16	Mr. K Sarupya Santhosh Assistant Professor	Principles of Metal Forming Technology – FDP	NPTEL - AICTE	Jul – Sep 2019	Manufacturing	12 weeks
		LaTeX – FDP and Training	Sanjay Ghodawat University, Kolhapur	27th April – 2nd May 2020	Documentation and Computers	6 Days
		MATLAB based Teaching-Learning in Mathematics, Science and Engineering – STTP	Ramrao Adik Institute of Technology, Nerul, Navi Mumbai	18th – 22nd May 2020	Any Engineering	5 Days
17	Mr.B RamaKrishna Assistant Professor	partcipated in one week National faculty Development program and Online training on "Scilab"	Sasi Instiute of Technology and Engineering, Kakinada in Association with Spoken Tutorial Software Training Project Developed By IIT Bombay	27 April To 2 May 2020	Research	6 Days
		partcipated in one week National faculty Development program and Online training on"Moodle Learning Management System" Organised by Sasi Instiute of Technology and Engineering, Kakinada	Sasi Instiute of Technology and Engineering, Kakinada in Association with Spoken Tutorial Software Training Project Developed By IIT Bombay	27 April To 2 May 2020	Research	6 Days
		Education 4.0	IQAC, Atharva College of Engineering, Mumbai	28th - 30th April 2020	Education	3 Days
18	K. Prudhvi Raj Assistant Professor	Faculty Development Programme on "Spoken Tutorial Technology"	Spoken Tutorial Project IIT Bombay	18 MAY to 22 MAY 2020	MECH	5 Days
		Workshop on “Renewable Energy: Applications & Entrepreneurship”	SSBTs COET, Jalgaon	26th to 30th May, 2020.	MECH	5 Days
		The Role of Industry and Academia in Building Institutions and Innovations A Three Day Online Workshop	ANURAG UNIVERSITY Industry Institute Interaction Cell	28th - 30th MAY 2020.	MECH	3 Days

S. No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
19	Mr. M. Yadi Reddy Assistant Professor	3D Printing its role in Fight towards COVID-19	CMR TC, Hyderabad	4-05-2020 to 9-05-2020	Manufacturing	6 Days
		ICT Tools	SVEC in Association with IIT, Bombay	11-05-2020 to 16-05-2020	IT	6 Days
		Advances in Python and Cyber Security	CREC, Tirupathi in Association with IIT, Bombay	21-05-2020 to 27-05-2020	CSE	7 Days
20	Dr. G Rakesh Kumar Asst.Professor	e-FDP on Research Opportunities and Challenges in Manufacturing Sector	SVERI's College of Engineering, Pandharpur	1st – 5th June 2020	Manufacturing	5 Days
		2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT) 2019	BITS Dubai Campus	20th-22nd November 2020	Manufacturing	3 Days
		2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT) 2019	BITS Dubai Campus	20th-22nd November 2020	Manufacturing	3 Days
21	Mrs. K.Sirisha Asst.Professor	MOODLE Learning Management	IIT Bombay, In Collaboration With SASI College, A.P	27th April To 2nd May 2020	Teaching And Learning Tools	6 Days
		Online Teaching	Conducted By North Storm Acadamy On	13th And 14th May 2020	Teaching And Learning Tools	2 Days
		BLENDED LEARNING	TASK, Telangana	20th To 23rd May 2020	On Line Teaching Methodology	4 Days
22	Mrs. Y.V.N. Chandana Assistant Professor	Manufacturing of Composites -FDP	NPTEL (IIT, Kanpur)	Course Aug-Nov 2019	Materials	8 Week
		Processing of Polymers and Polymer Composites	NPTELIIT(ROORKEE)	Course Jan-March 2020	Materials	8 Week
		CATIA 3D Experience Virtual Faculty Development Program.	TASK in collaboration with EDS Technologies	25th May to 29th May	Design & Manufacture	5 Days
23	Dr. T Niranjan Assistant Professor	Advances in Production and Industrial Engineering, FDP	Kalasalingam Academy of Research & Education, Krishnankoil-626126, Tamil Nadu	FDP from 25th May -30th May 2020	Production Engineering	One week
		Drone View of Hotspots in Mechanical Engineering, FDP	St.Peter's Institute of Higher Education and Research, Chennai-54, Tamil Nadu	25th May-29th May 2020	Production	5 Days
		Disruptive Technologies in Mechanical Engineering, FDP	Sreenidhi Institute of Science and Technology, Hyderabad-501301 Telangana	One Week FDP from 08th June -13th June 2020	Research	6 Days

S.No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
24	Dr. P. Badari Narayana Associate Professor	International Workshop On Materials for Energy Conversion and Storage	IIT Tirupati	24th-25th December 2019	Energy Storage	2 Days
25	Mr. J Pavan Kumar Assistant Professor	Research Challenges and opportunities Post Covid-19 (RECOP2020) (FDP)	Sri vasavi Engineering College, Tadepalligudem, West Godavari District, Andhra Pradesh	4 May to 9 May 2020	Research Challenges	6 Days
		Advances in Mechanical Engineering and Manufacturing Process (FDP)	CMR Institute of Technology , Hyderabad	11 May 2020 to 13 May 2020	Production	3 Days
		Covid 19 Awarness program (Technical Quiz)	NSS Unit KPRIT, Hyderabad.		Social Awareness	
26	Ms. K Udayani Assistant Professor	Short Term Course "Engineering Research Methodology"	Dept of Mech Engg, UCEOU	09th - 13th Dec 2019	Research	5 Days
		3 day online workshop "Education 4.0"	IQAC, Atharva College of Engineering, Mumbai	28th - 30th April 2020.	Teaching	3 Days
		“Faculty Awareness Program on NAAC Accreditation”	RD’s Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune	10th -15th May 2020	Quality	6 Days
		Crash course on Mastercam 2020		13.05.2020 to 15.05.2020	Prodcution	3 Days
27	Ms. C. Sucharitha Assistant Professor	Online Teaching-learning and Online assessment demo Confirmation	Inpods	03.06.2020 to 05.06.2020	NAAC System	4 Days
		One Week Webinar Series on "Advance CNC & VMC Programming by Department of Mechanical Engineering	Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur in association with Indian Machine Tool Manufacturers' Association (IMTMA)	02.06.2020 -06.06.2020	Manufacturing	5 Days
		Five Days Faculty Development Programme" on “Application of Tools and Techniques in Research Methodology	Noorul Islam Centre for Higher Education - Kumaracoil, Thuckalay, Kanyakumari District	03/06/2020 to 07/06/2020	Online Teaching	5 Days

S.No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
28	Mr. S. Ajay kumar Assistant Professor	Research Among Youth RAY 2020	Vardhaman College of Engineering	28th - to 3rd June 2020	R & D	8 Days
		Emerging Technologies in ROBOTICS	Malla Reddy Engineering College	26th – 30th May 2020	Technical	5 Days
		Advanced Research Challenges in Material Science	Sri Vasavi Engineering College, Tadepalligudem, Andhra Pradesh	One Week FDP-01st to 06th June 2020	R & D	6 Days
29	Mr. P Shashidar Assistant Professor	Emerging Technologies in Mechanical engineering	VEMU Institute of Technology, AP	26/05/2020 to 30/05/2020	R& D in Mechanical Engineering	5 Days
		Webinar onAdvanced Material Characterization Techniques	LENDI Institute of Engineering and Technology, Kakinada	28/05/2020 to 30/05/2020	Material science	3 Days
		FDP on Research Opportunities and Challenges in Manufacturing sector	SVERI's College of Engineering, Maharastra	01/06/2020 to 06/06/2020	Manufacturing	6 Days
30	Mr. K Santosh Kumar Assistant Professor	Art of Writing Papers in Research Methodology	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad.	One week FDP 7th May-13th May 2020	Technical	7 Days
		Recent Trends in Research Methodology	Bhimavaram Institute of Engineering & Technology	Three Day FDP 19th May – 21st May 2020	R&D	3 Days
		Advances in Mechanical Engineering and Manufacturing Processes	CMRET,HYD	Three Day FDP 11th May – 13th May 2020	Manufacturing	3 Days
31	Ms.K.Sri Harika Assistant Professor	National FDP and online training on LaTex	SGU in association with IIT-Bombay	27/04/2020 to 2/05/2020	General	6 Days
		FDP on Teachers Version 2.0	North Storm Academy	2 days	Online Course planning and design	2 Days
		FDP on Futuristic Technologies in Mechanical Industries	DYPIEMR, Pune	26/05/2020 to 30/05/2020	Production & Research	5 Days
32	Ms. P Meghana Assistant Professor	Fundamentals of Manufacturing Process	NPTEL	JULY-NOV 2019	Manufacturing	24 weeks
		Drone View Of Hotspots In Mechanical Engineering	St.Peters Institute of Higher Education and Research, Chennai	25-29th May 2020	Mechanical Engineering	5 Days
		Preconditioning the Budding Engineers to Success	St.Peters Institute of Higher Education and Research, Chennai	7th – 9th June 2020	Engineering	3 Days

S.No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
33	Ms. K KruthiSarma Assistant Professor	Control of mobile robots	coursera	2 week 20th April - 1st June 2020	Robotics/ mechatronics	12 Days
		ROBOTICS	NPTEL	1st August 2019 to 29th September 2019	Robotics/ mechatronics	4 weeks
34	Mr. U PhaniVivek Assistant Professor	IoT for Emerging Applications	E&ICT Academy IIT Guwahati & CBIT Hyderabad	04 – 08 February 2020	IoT	5 Days
		Webinar on Electric Solar Vehicle Project	ISIE India	17 – 19 April 2020	Solar Vehicles	3 Days
		Online training on Engineering Graphics	BIM Labs	18 to 23 May 2020	Engineering Graphics	6 Days
		FDP on Recent Advances in Materials Characterization	NITTTR Chandigarh	21 – 27 May 2020	Materials	7 Days
35	G Ashok Assistant Professor	Fundamentals of manufacturing process	NPTEL-SWAYAM	22/7/2019 – 13/10/2019	Manufacturing	12 weeks
		3D printing Revolution	Coursera	21/5/2020 to 10/6/2020	3D printing	3 weeks
36	Mr K Sudheer kumar Assistant Professor	Partcipated in one week National faculty Development program and Online training on "Scilab"	Sasi Instiute of Technology and Engineering, Kakinada in Association with Spoken Tutorial Software Training Project Developed By IIT Bombay	27 April To 2 May 2020	Research	6 Days
		Partcipated in one week National faculty Development program and Online training on"Moodle Learning Management System" Organised by SasiInstiute of Technology and Engineering, Kakinada	Sasi Instiute of Technology and Engineering, Kakinada in Association with Spoken Tutorial Software Training Project Developed By IIT Bombay	27 April To 2 May 2020	Research	6 Days
		Research Challenges and opportunities Post Covid-19 (RECOP2020)	Sri vasavi Engineering College, Tadepalligudem, West Godavari District, Andhra Pradesh	From 4 May to 9 May 2020	Research	6 Days

S.No	Name of the Faculty, Designation	Faculty as participants in Faculty development/training activities/STTPs	Organized by	Date	Relevant Area	Duration
37	B V Himasekhar Sai Assistant Professor	Recent Advances in Material Characterization	NITTTR, Chandigarh	23rd may -28th may 2020	Materials	6 Days
		Emerging Technologies in Mechanical Engineering	VEMU INSTITUTE OF TECHNOLOGY	26th may -30th may 2020	Mechanical	5 Days
		Advances in mechanical Engineering	RISE Krishna sai group of institutions	1st June -3rd June 2020	Mechanical	3 Days
38	Dr. Asheesh Kumar Assistant Professor	Internet of Things	NITTR Chandigarh, AICTE/ATAL	One Week, 20 – 24 April, 2020,	Internet of Things	5 Days
		Purely the Fundamentals of Mechanical Engineering	Chennai Institute of Technology, Chennai	One Week , 1-5 June 2020	Design	5 Days
		Advances in Materials for Engineering Applications	Vignan's Institute 0f Engineering for Women's	One Week , 6-10 June 2020	Production	5 Days
		AI for Corona Virus Analysis,	EduxLabs India	Two Days workshop 10th-11th April 2020	AI	2 Days
39	Mr. E Sai Krishna Assistant Professor	Research Opportunities and Challenges in Manufacturing sector	SVERI College of Engg.	1 - 6 June 2020	Manufacturing	6 Days
		Interactive Session On Living Integrally	JBIET	27th to 28th June 2020	Living Intergrally	2 Days
		Matlab Onramp	MATLAB	1-5 June 2020	MATLAB	5 Days
		Machine learning Onramp	MATLAB	1 – 6 June 2020	MATLAB	6 Days
		Deep Learning Onramp	MATLAB	1 – 6 June 2020	MATLAB	6 Days
40	Mr. V Vijaya Bhaskar Assistant Professor	ICMPC-10, CONFERENCE	GLA University, Madhura,UP, INDIA	on 21 & 22 ,Feb-2020	COMPOSITES-DESIGN	2 Days
		Emerging Technologies in Mechanical Engineering-FDP	VEMUIT,AP	26-30/05/2020	All areas	5 Days
41	Mr. V Pramod Assistant Professor	Research Opportunities and Challenges in Manufacturing Sector	Shri Vithal Education & Research Institute	01-06thJune 2020	Manufacturing	6 Days
		Innovative Techniques for Effective Teaching Online and Offline	Mahatma Gandhi Institute of Technology	12-13th June2020	Online Teaching	2 Days
		Advances in Mechatronics	Mahatma Gandhi Institute of Technology	19/02/2020	Mechatronics	1 Day

Co-Curricular Achievements

S.NO.	NAME OF THE STUDENT	ROLL NO.	EVENT	ORGANAIZED BY	DATE	PARTICIPATION/ AWARD
1	Hemanth Kumar	17265A1403	AeroDesigning and Manufacturing	Skyy Rider Institutions, Jatani, ODISA	10th to 13th July 2019	Participation
2	Pathi Anish Jaisimha	17265A1409	AeroDesigning and Manufacturing	Skyy Rider Institutions, Jatani, ODISA	10th to 13th July 2019	Participation
3	Rohith Andugulapati	17265A1401	AeroDesigning and Manufacturing	Skyy Rider Institutions, Jatani, ODISA	10th to 13th July 2019	Participation
4	K Nasiruddin	17261A1427	DST & Texas Instruments India Innication	Texas Instruments India, Bangalore	2019	Participation
5	K V Jeevesh Reddy	17261A1428	Kinematics for 4 DOF Robotic Manupulator	Amal Jyothi College of Engineering, Kanjirapally, Kerala	4th May 2020	Participation
6	K V Jeevesh Reddy	17261A1428	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals
7	Kattunga Bhargav Sai Ram	17261A1432	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals
8	Mariya Sidduqua	17261A1434	Internet of Things	AEP	01st Mar to 30th Apr 2020	Participation
9	Mohammed Ahteshamuddin	17261A1436	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals
10	Mohammed Amaan Ali Siddiqui	17261A1437	Experiment to Prove the dangerous of bentonite used in foundry	Bannari Amman Institute of Technology, CHENNAI	10th to 11th Sept 2019	Participation
11	Pranahith Babu Yarra	17261A1442	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals

S.NO.	NAME OF THE STUDENT	ROLL NO.	EVENT	ORGANAIZED BY	DATE	PARTICIPATION/ AWARD
12	Rhea V Nair	17261A1445	Automotive Electronics & Electric Vehicle Design (AE-EVD)	Smt. Kashibai Navale College of Engineering, Pune	04th to 11 Jan 2020	Participation
13	Sai Suraj Karra	17261A1447	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals
14	Puddutha Mahesh Bharath	17261A1443	Entrepreneurship Bootcam Program	AEPL, Hyderabad	18th February, 2020.	Participation
15	Rashpal Singh Kalsi	17261A1444	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals
16	Pandu	17261A1411	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Participation
17	K Madhu Mohan Chary	18265A1405	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals
18	Kurapati Naveen Kumar	18265A1406	Electric Vechicle Design and Dynamics	AMZ Automotive	14th May 15th June 2020	Participation
19	Viswateja Dusa	18261A1451	2 day Workshop on Embedded Systems	Dept of ECE, Meenakshi College of Engineering, Chennai	17 th 18th May 2020	Participation
20	Gandi kumuda	19261A1412	Auto CAD	AUTODESK	2019-2020	Participation
21	Mohammed Aziz Ahmed	18261A1432	Stock Market workshop and Hackathon- 2020, Strategy Consulting Virtual Internship - Boston Consulting Group (2020), Internship	IIIT Hyderabad Megathon- 2019, IIT Hyderabad-THub Hyderabad (2020).	2019-2020	Participation
22	Bhagavatula Krishna Sai Praneeth	16261A1408	" 8 days' internship on Robotics and Automation'	Elite Techno Groups	12th to 19th December, 2019.	Participation
23	Bhagavatula Krishna Sai Praneeth	16261A1408	" Workshop on Ethical Hacking"	IIT Hyderabad	4th and 5th January, 2020.	Participation

S.NO.	NAME OF THE STUDENT	ROLL NO.	EVENT	ORGANAIZED BY	DATE	PARTICIPATION/ AWARD
53	Kattunga Bhargav Sai Ram	17261A1432	IICDC-2019-c2020	IT University	26th Oct 2019	Participation
54	Kattunga Bhargav Sai Ram	17261A1432	IICDC-2019 C2020	IT University	26th Oct 2019	Participation
55	Kattunga Bhargav Sai Ram	17261A1432	IICDC-2019-TIVA	IT University	21st Oct 2019	Participation
56	Kattunga Bhargav Sai Ram	17261A1432	IICDC-2019-MSP	IT University	21st Oct 2019	Participation
57	Kattunga Bhargav Sai Ram	17261A1432	SQL for Data Science	UCDAVIS	16th May 2020	Participation
58	Mariya Sidduqua	17261A1434	Internet of Things	AEP	01st Mar to 30th Apr 2020	Participation
59	S Mrinalini	17261A1438	Biped Walking Robot	Roboversity	30th July 2019	Participation
60	S Mrinalini	17261A1438	AngularJS to develop Web Apps Faster	MGIT, Hyderabad	26th Jun 2020	Participation
61	S Mrinalini	17261A1438	Hexapod	Roboversity	30th July 2019	Participation
62	Palavalasa Kiran	17261A1441	Learning How to Learn: Powerful mental rools to help you master tough subjects	Coursera	03th May 2020	Participation
63	Pranahith Babu Yarra	17261A1442	Full stack developer	Conduira Online Platform	1st to 28th june 2020	Participation
64	Sai Suraj Karra	17261A1447	Video-based Product Assembly Tracking	MGIT, Hyderabad	2019-2020	Participation
65	Sohan Gurram	17261A1450	Smart Parking System	ELOI Embedded Systems	15th June to 03rd July 2019	Participation
66	Mahesh Bharath	17261A1443	Section Student Congress19	JNTUH	10th Aug 2019	Participation
67	Puddutha Mahesh Bharath	17261A1443	Technology and Career Conference	GITAM Univerisity Hyderabad	29th to 30th Sept 2019	Participation
68	Puddutha Mahesh Bharath	17261A1443	Entrepreneurship Bootcam Program	AEPL	18th February, 2020.	Participation
69	Rashpal Singh Kalsi	17261A1444	Student Woovly Ambassador Program	Woovly India Pvt Ltd	2020	Participation

S.NO.	NAME OF THE STUDENT	ROLL NO.	EVENT	ORGANAIZED BY	DATE	PARTICIPATION/ AWARD
71	Sai Srinivas S	17261A1431	Emerging Trends in Welding and Non-Destructive Evaluation	The Indian Institute of Welding, Hyderabad	30th Aug 2019	Participation
72	Sonthena VeeraBhadra Sai Sreenivas	17261A1451	IICDC-2019-TIVA	IT University	24st Oct 2019	Participation
73	Sonthena VeeraBhadra Sai Sreenivas	17261A1451	IICDC-2019-WEBENCH	IT University	28th Oct 2019	Participation
74	Sonthena VeeraBhadra Sai Sreenivas	17261A1451	IICDC-2019C2020	IT University	28th Oct 2019	Participation
75	Sonthena VeeraBhadra Sai Sreenivas	17261A1451	IICDC-2019-MSP	IT University	24th Oct 2019	Participation
76	Sonthena VeeraBhadra Sai Sreenivas	17261A1451	Technology and Career Conference	GITAM Univerisity Hyderabad	29th to 30th Sept 2019	Participation
77	Kurapati Naveen Kumar	18265A1406	Electric Vechicle Design and Dynamics	AMZ Automotive	14th May 15th June 2020	Participation
78	Kattunga Bhargav Sai Ram	17261A1432	3D Printing	3Dings	1st Feb 2020	Participation
79	Kushank Goyal	19261A1421	Aeromania Workshop	CBIT	19-20 Feb 2020	Participation
80	M. OM Harik	18261A1434	Mechanical Design	Dassaults Systems	3rd June 2020	Certified Associate
81	K.Yeshwanth Rao	18261A1423	A short Course on "Learn to design Your own solar Home System"	Energy Swaraj Foundation	28th June 2020	Participation
82	K.Yeshwanth Rao	18261A1423	FUN with Machine Learning	Codezilla Club	20th June 2020	Participation
83	Hemanth Kumar	17265A1403	AeroDesigning and Manufacturing	Skyy Rider Institutions, Jatani, ODISA	10th to 13th July 2019	Participation
84	Pathi Anish Jaisimha	17265A1409	AeroDesigning and Manufacturing	Skyy Rider Institutions, Jatani, ODISA	10th to 13th July 2019	Participation
85	Rohith Andugulapati	17265A1401	AeroDesigning and Manufacturing	Skyy Rider Institutions, Jatani, ODISA	10th to 13th July 2019	Participation
86	K Nasiruddin	17261A1427	DST & Texas Instruments India Innication	Texas Instruments India, Bangalore	2019	Participation
87	K V Jeevesh Reddy	17261A1428	Kinematics for 4 DOF Robotic Manupulator	Amal Jyothi College of Engineering, Kanjirapally, Kerala	4th May 2020	Participation
88	K V Jeevesh Reddy	17261A1428	Innovative Challenge Design	Texas Instruments India, Bangalore	2019	Shotlisted in Quaterfinals

Extra-curricular Achievements

S.No.	Roll NO.	Name	Event	Location	Date	Position
1	17261A1408	B.TEJASWINI	Blood Donation	Blood Donation Camp-2019, Lions Club in colab. Of MGIT, Hyderabd	6th Nov 2019	Participated
2	17261A1410	B.ShivaTeja	Volley Ball InterCollegiate Sports and Games.	VNRVJIET , in collab of JNTU Hydarabad	2019-20	2nd Position
3	17261A1414	B.Nikhil Venkat	Volley Ball InterCollegiate Sports and Games.	VNRVJIET , in collab of JNTU Hydarabad	2019-21	2nd Position
4	17261A01422	G.Raj Kumar	I-innovate 1 Million Seconds Online Hackthon	TSIC and TITA by Publishsutra	3rd to 14th May 2020	TOP 50 Best Teams
5	17261A1423	Bala prem Raj	Internal Hackathon 2020, SMART INDIA HACKATHON-2020	MGIT, Hyderabad	21st Jan 2020,	Participated
6	17261A1424	Jayanth Balaji U	Triathlon 2019	GHAC , Hyderabad in collab with RACE, hyderabad	10th Nov, 2019	Appriciation
7	17261A1427	K. Nasiruddin	One - day International Workshop on AngularJs to develop Web Apps faster	Dept of CSE in association with NYCI, Brainovision Solutions India Pvt. Ltd	26th June 2020	Participated
8	17261A1428	K. Jeevesh Reddy	Regular blood Donor	TSCS, VVM blood Bank	24th Jan 2020	Appriciation
9	17261A1428	K. Jeevesh Reddy	Webinar on "Build for India: A Step towards Atmanirbhar Bharat"	India Council Student Coordination Team, IEEE Delhi	06th June 2020	Participated

S.No.	Roll NO.	Name	Event	Location	Date	Position
10	17261A01434	Mariya	GENESIS, Literary Club	MGIT, Hyderabad	27th Sep 2019	Organized
11	17261A01437	Mohd. Amaan Ali Siddiqui	Volunteer for Hyderabad	Comic CON INDIA	12-13 Oct 2019	Appriciation
12	17261A01438	S.Mrinalini	Blood Donated	Blood Donation Camp-2019, Lions Club in colab. Of MGIT, Hyderabd	6th Nov 2019	Participated
13	17261A01445	Rhea Nair	Basket ball,	Arena 2020, BITS Pilani, Hyd	23-24th Jan 2020	Participated
14			GENESIS, Literary Club	MGIT, Hyderabad	27th Sep 2019	Organized
15	17261A01451	Sreenivas Sonthena	Volunteer for AISYWC 19 , IEEE Hyderabad	CMR Group of Institutes, Hyderabad	28th to 30th Sep 2019	Recognition
16	18265A1403	B. Mahendhar Reddy	Internal Hackathon 2020, SMART INDIA HACKATHON- 2020	MGIT, Hyderabad	21st Jan 2020,	Participated
17	16261A1446	SHAIK MAQSOOD	Organised Blood Donatation CAMP for MGIT	Rudhira Voluntary Blood Bank		Organized
18			Organised Blood Donatation CAMP for MGIT	Jeevan Jyothi Voluntary Blood Bank, Lions Club and HDFC Bank	6th Nov 2019	Organized
19	16261A1439	B.Rahul	Blood Donated in MGIT	Lions Club and HDFC Bank	6th Nov 2019	Participated
20	17265A1408	Mohanvamshi	Blood Donated in MGIT	Lions Club and HDFC Bank	6th Nov 2019	Participated
21	19265A1401	B.Ashish	IDEATHON -WWC-MCT DEPT	WWC, MGIT, Hyderabad	5th March 2020	Consolation with Branch wise Winner
22	18261A1434	M.Om Harik	Regular blood Donor	TSCS, VVM blood Bank	24th Jan 2020	Appriciation
23	18261A1446	T.Namratha Reddy	Throw Ball	Anurag Group of Institutions(AGI)	6th to 10th Jan 2020	Participated
24	18261A1447	T.Namratha Reddy	Volley Ball	GITAM, Hyderabad	27-28 December 2019	Participated
25	18261A1448	T.Namratha Reddy	Throw Ball	GITAM, Hyderabad	27-28 December 2020	Participated
26	18261A1449	T.Namratha Reddy	Basket ball	Arena 2020, BITS Pilani, Hyd	23rd Jan 2020	Participated
27	18261A1450	T.Namratha Reddy	Foot Ball	Arena 2020, BITS Pilani, Hyd	23rd Jan 2020	Participated
28	18261A1451	T.Namratha Reddy	Throw Ball	Arena 2020, BITS Pilani, Hyd	23rd Jan 2020	Participated

S.No.	Roll NO.	Name	Event	Location	Date	Position
29	18261A1452	T.Namratha Reddy	Basket ball	MGIT, Hyderabad	3/1/2020	Winner
30	18261A1453	T.Namratha Reddy	Running (200 m)	MGIT, Hyderabad	3/1/2020	First
31	18261A1454	T.Namratha Reddy	Running (100 m)	MGIT, Hyderabad	3/1/2020	second
32	18261A1455	T.Namratha Reddy	Disc Throw	MGIT, Hyderabad	3/1/2020	First
33	18261A1456	T.Namratha Reddy	Shot Put	MGIT, Hyderabad	3/1/2020	Second
34	18261A1457	T.Namratha Reddy	Cricket	MGIT, Hyderabad	3/1/2020	Second
35	19261A1410	Gade Yogesh Ram Sagar	Football nirvana	MGIT, Hyderabad	3/1/2020	Participated
36	18261A1418	Gogineni Anish Babu	NSS Volunteer	MGIT, Hyderabad	2019 to 20	Appriciation
37	17261A1445	Rhea V Nair	Throwball	BITS Pilani, Hyderabad	23rd to 26th Jan 2020	2nd Prize
38	17261A1445	Rhea V Nair	Football	BITS Pilani, Hyderabad	23rd Jan 2020	PARTICIPATED
39	17261A1421	GV Saketh	TI , India India Innvation Challenge design Contest 2019, anchored by IIM , bangalore	IIM Bangalore in collaboration with TI India	2019	Quaterfinalist
40	17261A01422	G.Raj Kumar	TI , India India Innvation Challenge design Contest 2019, anchored by IIM , bangalore	IIM Bangalore in collaboration with TI India	2020	Quaterfinalist
41	17261A1428	K. Jeevesh Reddy	Webinar on "Finding your target Audience"	IEEE, HMR Institute of Technology and Management, GGSIPU, Newdelhi	20th May 2020	Participated
42	17261A1428	K. Jeevesh Reddy	Webinar on "Build for India: A Step towards Atmanirbhar Bharat"	India Council Student Coordination Team, IEEE Delhi	06th June 2020	Participated
43	17261A1428	K. Jeevesh Reddy	TI , India India Innvation Challenge design Contest 2019, anchored by IIM , bangalore	IIM Bangalore in collaboration with TI India	2019	Participated
44	17261A01432	K.Bhargav Sai Ram	IICDC -2019 Business Test	TI University Program, TI INDIA	26th Oct 2019	Participated

Technovation 2020

Technovation is the annual technical fest of the Department of Mechatronics Engineering at MGIT, during Nirvana. It was conducted on March 12 2020 within college premises. Several events, comprising of both technical and non-technical domain were conducted. Robotics 101, PC by parts, Manufacturing on the move, Poster presentation, Career Guidance, Neon Games, CTRL+ALT+CAD were namely a few key events of the fest.

Convenor- Dr. K. Sudhakar Reddy- HOD, Mechanical (Mechatronics) Engineering
Faculty Co-ordinators: Dr. Ankamma Rao
Dr. V.V.N. Satya Suresh
Student Co-ordinators: Raj Kumar
Saketh Narayan

SAE:

SAEINDIA is an affiliate society of SAE International, registered as an Indian non-profit engineering and scientific society dedicated to the advancement of the mobility community in India. As an individual member driven society of mobility practitioners, SAEINDIA comprises members associated with transforming the transportation industry - which includes engineers, executives from the industry, government officials, academics and students. Principal emphasis is placed on industries such as automotive, aerospace and commercial vehicles. SAEINDIA promotes and undertakes initiatives for knowledge dissemination and advancement in mobility technologies catering to land, sea, air and space. Out of many student centered events, BAJA SAEINDIA is one of the grandest events falling under the umbrella of SAEINDIA.

The booming club has been conducting events in the college and has continuously promoted the club and it's activities.

INAUGURAL FUNCTION OF SAE INDIA MGIT COLLEGIATE CLUB

By

Mr. Mr. Sarwat Hussain (World bank member)

and

SAE-MGIT organized a "Evolution of Automobiles" on Feb 26th 2020 Mr. Sarwat Hussain (World bank member) under the Aegis of SAE-MGIT CLUB

A unique inspirational creative event and project launch programme'
conducted on 8th November 2019 by Brahma Kumaris at
Global Peace Auditorium, Shanti Sarovar, ISB Road, Gachibowli, Hyderabad.

The session started with a motivational speech by Ms.Arunima Sinha, who was thrown away by robbers from a running train and she came out of it with one lost leg, and another leg with a steel rod inserted in it, with several stitches on face and spinal injury. While she was in hospital Media and the people blamed that she attempted suicide etc., so she had decided to come out of such situation and do something for her to be in better situation. With lots of courage, hope, and strong determination she succeeded in becoming the first woman amputee climber of Mount Everest, later the Indian Government honored her with 'Padma Shri'. Now she is the brand ambassador of many organizations, sports authorities. The Message by her was "Even though you are physically disabled, nothing can stop you if you are mentally strong enough. Don't listen to others who don't know your inner strength."

Ms.Gracy Singh and team danced for Vasudhaika kutumbam, Nature the God, Dance by blind students also made us inspired.

The Governor of Telangana, Dr. Tamilisai Soudararajan stated that she is associated with Brahma Kumaris. She started with an example of neem fruit , which a child got and after eating it, he said that the neem fruit is so sweet. Truly speaking neem fruit is not sweet, there are other sweet fruits available which the child had never had at all. So, the fruit with less sweetness itself makes him happy. Try to give the sweet fruits available with us, so he will come to know which is sweeter and make him happier. Here the spiritual events are like sweet fruits, Neem fruits are like non spiritual activities. The message by her was "let everyone get introduced to the spiritual activities so that one can enjoy the happiness in life."

The practical possibility of 'soft robotics'

I want my mechanism to move in small confined space by changing its shape, suddenly climb up a wall and again float in liquid. Now on the other hand I want to grasp a delicate object. To achieve this versatility the gripper must be made purposefully flexible and soft. What all required is my mechanism should have a high degree of flexibility and softness. Definitely rigid links would not serve the purpose as they have limits in performing tasks. Here arises a need of an uncommon built that comes to visualization

Ms. K. Kruthi Sharma
Assistant professor
M.Tech Mechatronics

How soft Robot manipulators are made

Deformable materials like Silicon, Shape changing memory alloys, any compliant materials or structures that contains multiple flexible layers are the wide options to choose. Some of these function by 'Laminar Jamming'. Laminar jamming is varying the stiffness in the structure due to pressure variation. In this, the frictional forces act like glue and we can control the pressure and stiffness, damping and spacing between the layers

The manufacturing is closely dependent on advanced manufacturing processes, thin film manufacturing, bonding, shape deposition manufacturing, Lithography, molding, 3-D printing.

Soft robots have versatile applications and therefore require integration of many disciplines, but primary focus being on Material science, Chemistry, Plastic engineering and Mechatronics.

Harvard's Octobot' is the first soft robot developed at Harvard University. Harvard's Octobot is gas powered by pneumatic source which also contains fuel storage. Fuel used is a liquid fuel which is Hydrogen peroxide. This is powered by a chemical reaction upon which a small amount of liquid inside the Bot converts into large volume of gas and helps in inflating the bot.
The reaction control is done by a micro fluidic logic control. Micro fluidics is study of fluid flow at micrometer scale. Transporting the fluid in form of tiny droplets in specially designed channels which are closed or open is the idea behind micro fluidics. In this phenomenon, surface tension forces are larger than the gravitational forces and turbulence.

The research level is at which stage?
The research and development of building completely a mechanically compliant robot though difficult has made its mark. But Soft robots that are manufactured are being integrated with motors, boards and other devices which are hard components. In this regard a total soft component based-robot including soft actuators, soft electronics is still at nascent stage.

Takeaways of soft Robots

Soft robots are flexible and soft structures developed by Bio-inspiration.

They provide safe physical human robot interactions unlike a rigid robot.

A soft robot can also be a soft outer structure with rigid skeleton inside.

There is no proper shape confined to a soft robot but can be shaped in versatile shapes based on requirements

First major development is in medical field which includes diagnosis, rehabilitation and surgery.

Industrial Visit

S.No	Name of the Company	Visit Date	No. of StudentsVisited
1	M/s G.I. Automations Hyderabad	22/08/18	52
2	M/s Sai Deepa Rock Drilling Tools , Hyderabad	22/08/18	50
3	M/s. Fluroshield Equipment's, Hyderabad	22/08/18	47
4	M/s Sai Deepa Rock Drilling Tools , Hyderabad	22/09/18	54
5	M/s Fluroshield Equipment's, Hyderabad	22/09/18	48
6	M/s G.I. Automations Hyderabad	22/09/18	48
7	M/s Fluroshield Equipment's, Hyderabad	09/02/19	61
8	M/s Sai Deepa Rock Drilling Tools , Hyderabad	09/02/19	61
9	M/s G.I. Automations Hyderabad	09/02/19	56
10	M/s Sai Deepa Rock Drilling Tools , Hyderabad	16/03/19	44
11	M/s Fluroshield Equipment's, Hyderabad	16/03/19	48
12	M/s G.I. Automations Hyderabad	16/03/19	46

INDUSTRIAL VISIT
SAI DEEPA ROCK DRLLING TOOLS, HYDERABAD

Department of Mechanical engineering (Mechatronics), Mahatma Gandhi institute of Technology arranged one day Industrial Visit for III year Mechanical/ Mechatronics students to **"M/s SAI DEEPA ROCK DRILLING TOOLS", HYDERABAD** for better technical knowledge enhancement of students.

The students observed various machinery like CNC lathe, milling, slotting machines, assembly lines, heat treatment processes, their working and the ongoing production processes. They were able to see the industrial furnaces used for heat treatment process, shot blasting, blackening process after heat treatment. At the end students were allowed to interact with the Technical personnel and express their doubts and got clarifications. The industrial visit ended with a query session and students were motivated to become entrepreneurs.

Students observed M/s Sai Deepa's manufacturing facilities of high-tech machinery, advanced manufacturing techniques and most advanced rock drilling tools to meet the growing needs of the Indian and international customers. Industry experts explained about working of the Closed / Open die Forging plants, cutting machines, CNC milling, turning, drilling centers, High end seal quench heat treatment, Shot Blasting Painting and packing facility to produce world-class rock drilling tools.

STUDENT PLACEMENTS

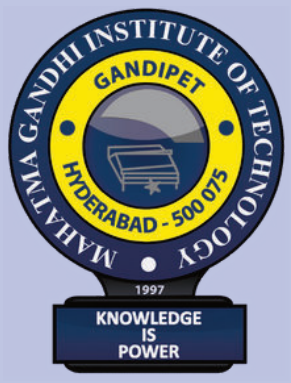
S.No.	Name	Roll No.	Name of the Employer
1	SAI ROHIT	15261A1408	M/s Cognizant Technology Solutions India Pvt. Ltd., Hyderabad
2	A HEMANT RAJ	16261A1401	M/s TCS Limited , Hyderabad
3	AJAY THATI	16261A1402	M/s TCS Limited , Hyderabad
4	AKKAPALLY PRATHIK	16261A1403	M/s Doubtnut, Bangalore
5	BHARDWAJ ANKUSH SINGH	16261A1409	M/s TCS Limited , Hyderabad
6	BOINI ANIRUDH	16261A1410	M/s. Infosys, Hyderabad
7	HARIKA PENDLI	16261A1417	M/s L&T Infotech, Hyderabad
8	KODIGANTI SAHASRA KEERTHI	16261A1424	M/s Jukshio Technology Innovation Private Limted, Hyderabad
9	KOPPOLU RAMPRASAD	16261A1426	M/s Jukshio Technology Innovation Private Limted, Hyderabad
10	M GOVERDHAN RAO	16261A1427	M/s General Datum, Hyderabad
11	MAHENDARKAR KARTHIK	16261A1428	M/s.Sukshi Technologies, Hyderabad
12	MAYANK CHADHA	16261A1429	M/s Cognizant Technology Solutions India Pvt. Ltd., Hyderabad
13	MEKALA M K VENKATA DHEERAJ	16261A1430	M/s Cognizant Technology Solutions India Pvt. Ltd., Hyderabad
14	NALBAND SAI KIRAN CHARY	16261A1432	M/s Garuda 3D, Hyderabad

S.No.	Name	Roll No.	Name of the Employer
15	PAMIDIMUKKALA KALYAN	16261A1435	M/s Doubtnut, Bangalore
16	PARTH MEHTA	16261A1436	M/s Genpact, Hyderabad, M/s Cellerite Systems Pvt Ltd.
17	PASUNUTI RISHITHA	16261A1437	M/s Sukshi Technologies, Hyderabad
18	RAHUL BOLLU	16261A1439	M/s HCL Technologies Limted, Hyderabad
19	RAYUDU SAI DIVYA	16261A1440	M/s Mahindra & Mahindra Ltd., Zaheerabad
20	RONTALA VINAY KUMAR	16261A1441	JOB
21	S VISHAL	16261A1442	M/s Skyes, Hyderabad
22	TIRUNAHARI SRI SHARAN	16261A1450	M/s Rexnord, Hyderabad
23	VANAMALA DHEERAJ	16261A1451	M/s Jukshio Technology Innovation Private Limted, Hyderabad
24	BHONGIRI VAMSHI	17265A1404	M/s Solarrise Tech, Hyderabad
25	KONDA AVINASH	17265A1406	M/s. Infosys, Hyderabad
26	NOOKA MOHANAVAMSHI	17265A1408	M/s Sukshi Technologies, Hyderabad
27	PATHI ANISH JAISIMHA	17265A1409	M/s. Media Mint, Hyderabad
28	V VENKATESH	17265A1413	M/s. Wipro Ltd., Hyderabad

Higher education Details

S.No.	Name	Roll No.	Details of higher Educataion
1	C VIJAY KUMAR	16261A1412	MS, University of Texas, Arlington
2	DAMMU HITESH	16261A1414	M.S, (Bio Medical Engineering) IIT, Madras
3	GOPIREDDY SUSHVAN REDDY	16261A1415	M.S (Mechatrionics) , Michigon Technological university, U.S.A
4	HARIKA PENDLI	16261A1417	M S, U S A
5	K KESHAVA SHANKAR NAGU	16261A1418	M.S (University of Bristol), UK
6	K YESHWANTH PRASANNA	16261A1419	M S , KTH Royal Institute of Technology(, Swedan
7	NALBAND SAI KIRAN CHARY	16261A1432	M.S(Industrial Engineering) Texas A & M University , U.S.A
8	PAMIDIMUKKALA KALYAN	16261A1435	M S, U S A
9	PARTH MEHTA	16261A1436	M.S, (Bio Medical Engineering) IIT, Madras
10	PASUNUTI RISHITHA	16261A1437	MS Australia

S.No.	Name	Roll No.	Details of higher Educataion
11	SACHIN JACOB ABRAHAM	16261A1443	M S, Clemson University, USA
12	SADDI NITIN REDDY	16261A1444	M S, U S A
13	SHAIK MAQSOOD	16261A1446	M.S (Deakin University)
14	SHIVOMALA RAVITEJESHWAR REDDY	16261A1447	M.S, Wright State University, U S A
15	TIRUNAHARI SRI SHARAN	16261A1450	M.S, Wright State University, U S A
16	RAMIDI HASIKA REDDY	16261A1454	M S, U S A



MAHATMA GANDHI INSTITUTE OF TECHNOLOGY

AUTONOMOUS | Affiliated to JNTUH

SAE MGIT

QUADTEK RACING MGIT