

ANNUAL REPORT

2019-2020



Geetha Shishu Shikshana Sangha®
GSSS INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka
Approved by AICTE, New Delhi & Govt. of Karnataka
Accredited with Grade 'A' by NAAC
K R S Road, Metagalli, Mysuru-570016, Karnataka, India



DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

SAIT

ABOUT THE DEPARTMENT:

The Department is offering B.E. degree course in “Electronics & Instrumentation Engineering”, which is a multi-disciplinary branch of engineering, dealing with the science and technology of measurement of a large number of variables embracing the engineering disciplines like electrical, electronics, mechanical, communication and computer engineering. In today’s world of technological advancements Electronics & Instrumentation Engineering plays a vital role with aircraft instrumentation, biomedical instrumentation, distributed control systems, process controls and robotics. Knowing the ever growing importance & also demanding fast changing technical requirement of measurement and analysis, computers, microprocessors, micro controllers and digital signal processors (DSP) and programming languages are very essential. Analytical, mathematical, conceptual and practical skills are essential for an Instrumentation Engineer. All industries require controls and measurements of equipments and parameters leading to automation of industrial processes. Accurate and reliable measurements lead to better quality of products. Hence, quality of measurement and instrumentation is an important aspect studied during the course.

VISION:

To Achieving excellence in technical education and research to serve as a valuable resource for industry and society through innovation and team work leading to global competence.

MISSION:

1. To provide students with technical knowledge, practical and managerial skills that will enable the graduating engineers to serve the society better with ethical values.
2. To undertake synergetic projects which offers opportunities for long term interaction with academic and industry.
3. To prepare the students to visualize beyond the stochastic thinking and belong to a new era of acquisition and application of instrumentation technology to meet the requisition of the changing world.

CONTACT US:

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STUDENTS ACHIEVEMENTS

PLACEMENTS

Sl. No.	Student Name	USN	Name of the Company Placed	CTC	Photo
1	SUMI S	4GW16EI033	HPE-R&D Accenture/ TCS Ninja	9.8LPA 4.5 LPA 3.5 LPA	
2	SURABHI M S	4GW16EI043	Accenture/ TCS Ninja	6.5LPA/ 3.5 LPA	
3	GANAVI V Y	4GW16EI012	Accenture/ L & T	4.5 LPA/ 4 LPA	
4	NISHA C	4GW16EI026	Accenture	4.5 LPA	
5	PRATEEKSHA M	4GW16EI028	Accenture	4.5 LPA	
6	PAVITRA S	4GW16EI027	Accenture	4.5 LPA	
7	AKANKSHA J	4GW16EI003	Accenture	4.5 LPA	

8	KAVYA C	4GW16EI017	Accenture	4.5 LPA	
9	SAIBA KHANUM	4GW16EI036	Accenture	4.5 LPA	
10	RAZIYA SULTANA	4GW16EI032	Accenture	4.5 LPA	
11	A MANUJA	4GW16EI001	Accenture	4.5 LPA	
12	HEMALATHA K Y	4GW16EI015	Accenture	4.5 LPA	
13	MEGHANA THORWATH V	4GW16EI023	L & T	4 LPA	
14	PREETHI K	4GW16EI029	ERNST & YOUNG	3.61LPA	
15	TANUSHREE M U	4GW16EI046	ERNST & YOUNG	3.61LPA	
16	SUSHMITHA C	4GW16EI044	Juniper Networks (Internship) Wipro	30k per month 3.5LPA	

17	KUMARI GUNJAN	4GW16EI020	TCS Ninja	3.5 LPA	
18	RAVEENA A	4GW16EI031	TCS Ninja	3.5 LPA	
19	MEGHANA S VASISTA	4GW16EI022	TCS Ninja	3.5 LPA	
20	AISHWARYA S	4GW16EI002	TCS Ninja	3.5 LPA	
21	KEERTHI M R	4GW16EI019	IBM	4.5 LPA	
22	POOJA V	4GW15EI019	Lancelot Technology	1.8 LPA	
23	JYOTHI T S	4GW16EI016	Qspiders	Training and Hiring	



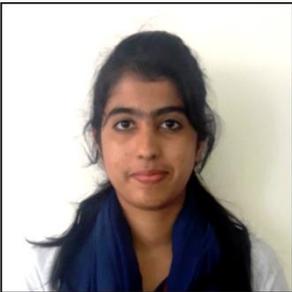
Sushmitha C P, student of 4th semester, Electronics and Instrumentation Engineering (EIE) is the recipient of Schneider Electric India Foundation Scholarship of Rs.50,000/- (Fifty Thousand) per year for her 2nd, 3rd and 4th year of study.

DEPARTMENTAL ACHIEVERS (ODD SEMESTER - 2019)

Semester – III

First Topper	Second Topper	Third Topper
		
PREETHU K 4GW18EI022 91.78%	SHRAVYA 4GW18EI021 87.67%	SHALINI 4GW18EI019 86.00%

Semester – V

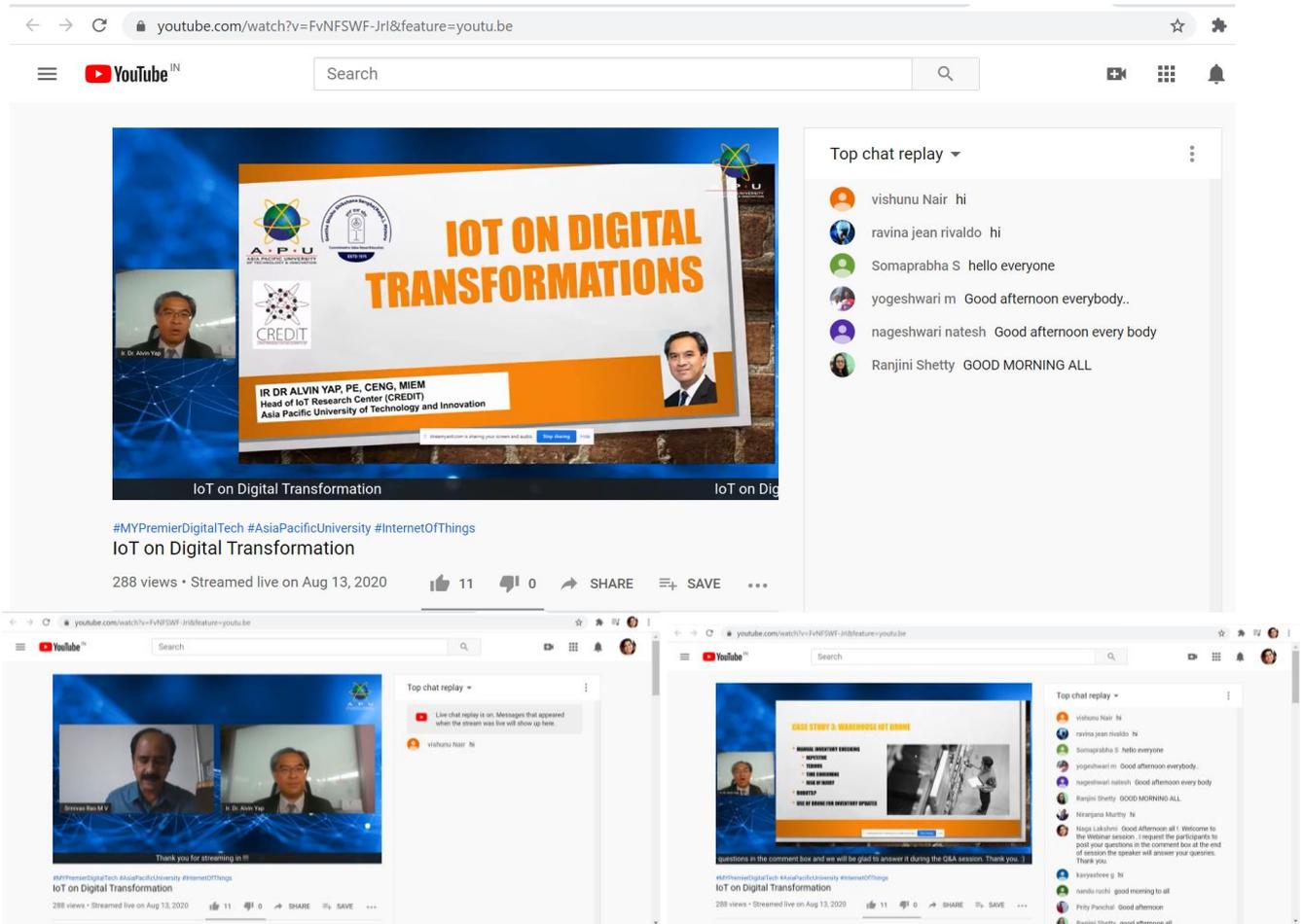
First Topper	Second Topper	Third Topper
		
SRIJEETA DEV 4GW17EI027 83%	ADITI C A 4GW17EI001 80.88%	JUWAYRIAH 4GW17EI010 80.75%

Semester – VII

First Topper	Second Topper	Third Topper
		
SOWRABHA K M 4GW16EI041 85.37%	THANUSHREE M U 4GW16EI046 84.37%	RAVEENA A 4GW16EI031 83.5%

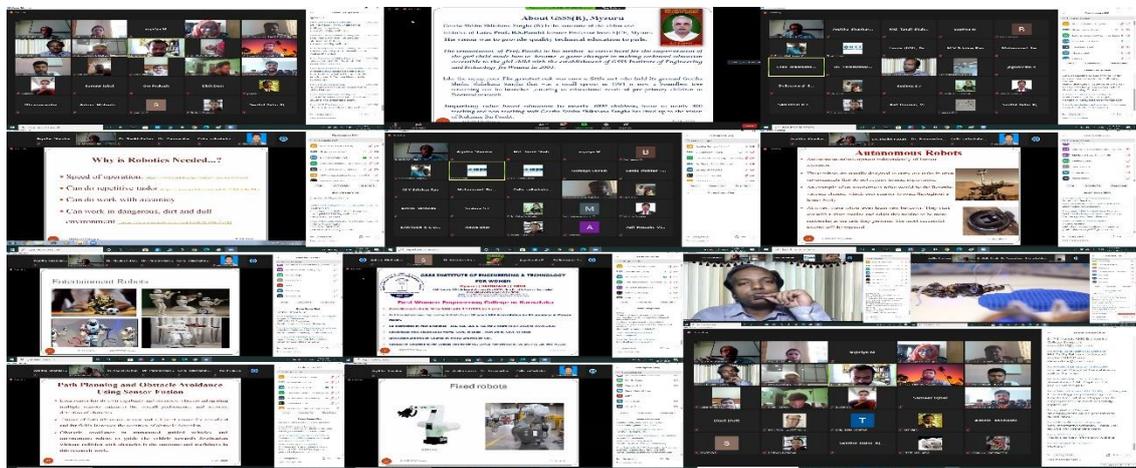
DEPARTMENTAL ACHIEVEMENTS:

WEBINAR ON IOT ON DIGITAL TRANSFORMATION



Department of Electronics and Instrumentation engineering had organized a webinar on “IoT on Digital Transformation” in association with Asia Pacific University, Malaysia on 13th August 2020. Internet of Things (IoT) is one of the emerging technologies in the age of Industry 4.0. It transforms the way how industry operates, and introduces new inventions to make our lives better. Join Ir. Dr. Alvin Yap at this webinar to explore further on IoT, its growth potentials and the opportunities that are lying in place.

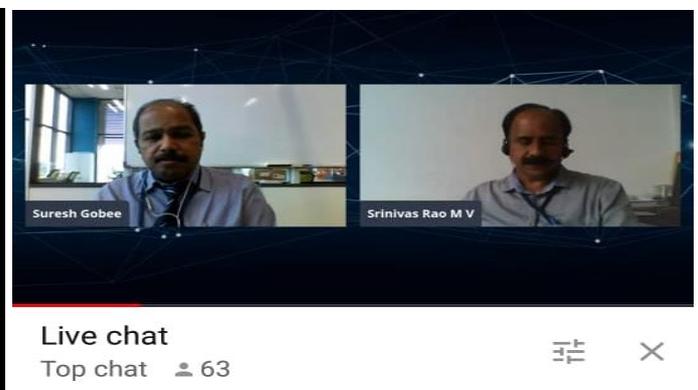
WEBINAR ON MOBILE ROBOTICS



Dr. M Shivakumar, Professor, Dept. of EIE and Principal was invited as a speaker for the webinar on “Mobile Robotics” on 25th July 2020 organized by IEEE Bangladesh Section in association with IEEE Robotics and Automation Society, Bangladesh Chapter. The webinar was initiated and moderated by **Dr. Shaika Fattah**, SMIEEE, Professor, Dept. of EEE, BUET Chair, IEEE RAS Bangladesh Chapter.

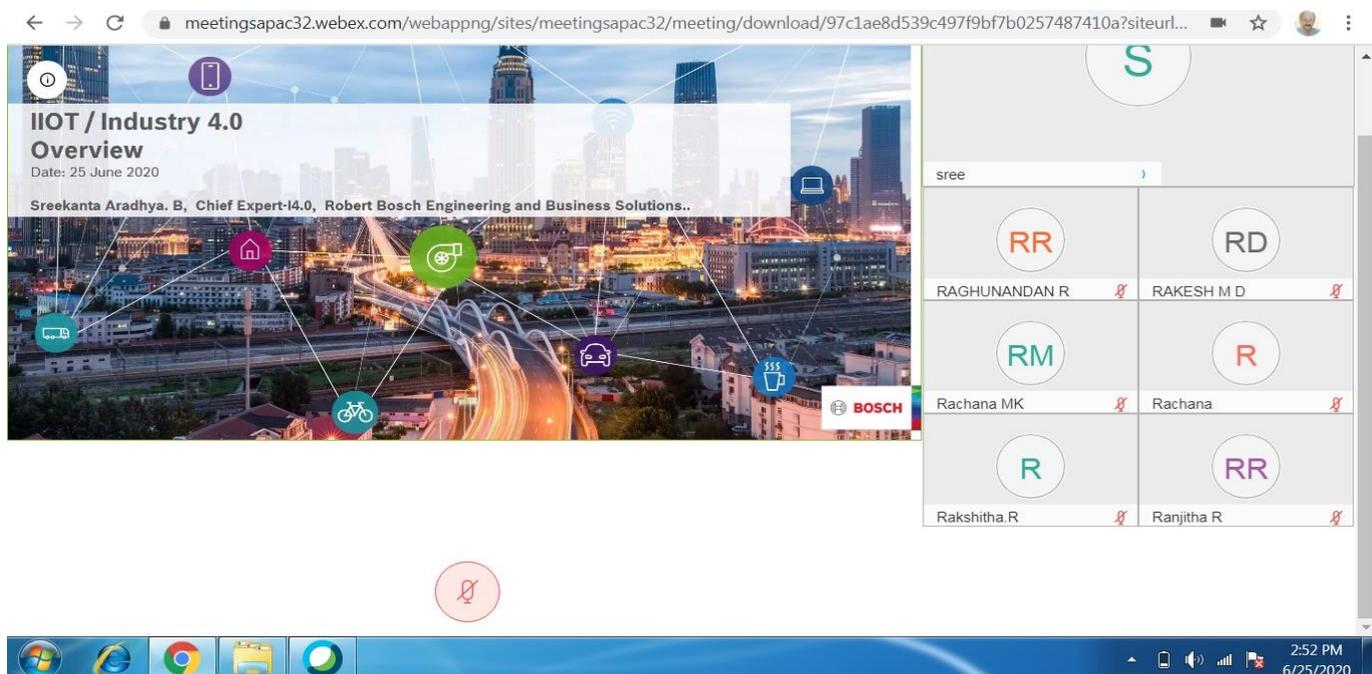
Dr. Celia Shahnaz, Professor, Dept. of EEE, BUET Chair, IEEE Bangladesh Section, Vice-Chair, IEEE RAS Bangladesh Chapter was invited as a Special Guest.

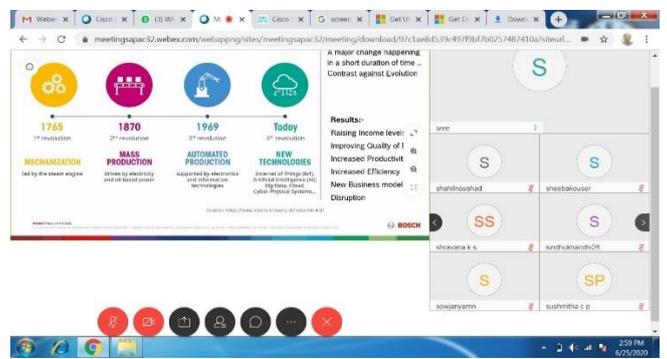
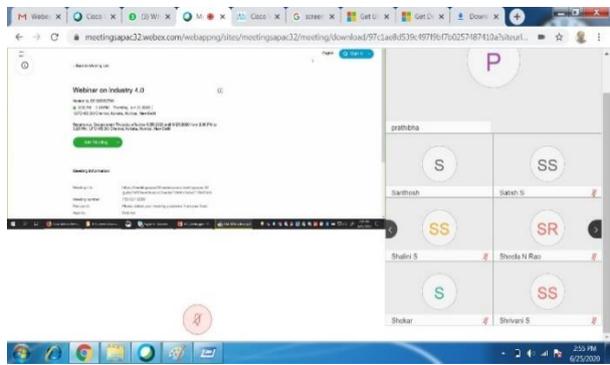
WEBINAR ON ADVANCES IN AUTONOMOUS MOBILE ROBOTICS



Department of Electronics and Instrumentation engineering had organized a webinar on Advances in Mobile Robotics on 15th July 2020 in association with Asia Pacific University, Malaysia. Future engineers play a major role in Automation & Robotics - learn more about the advancements of technologies at this upcoming webinar, presented by Mr. Suresh Gobee - Head of Asia Pacific Robotics Research Centre (APCORE), in collaboration with the Instrument Society of India.

WEBINAR ON INDUSTRY 4.0





Dept. of EIE organized a webinar on Industry 4.0 on 25th June 2020 for the faculties and students of all over the Karnataka. This webinar is held to upgrade the skills and knowledge about the current trends in industry with application of 4.0. Mr. Sreekanta Aradhya , Chief Experts, Industry 4.0 , Robert Bosch India Pvt. Ltd., Bengaluru was the resource person for this event.

ROBOTEER 2020-EXCLUSIVELY FOR DIPLOMA STUDENTS



Department had organized a “Roboteer-2020” for Diploma students on 28th January 2020. The workshop was conducted for one day on the basics of Arduino programming and its application on obstacle avoidance robot. The main aim of this workshop is to give awareness on Engineering and also to give knowledge glimpses on Robotics.

ROBOTEER 2019-EXCLUSIVELY FOR PU STUDENTS



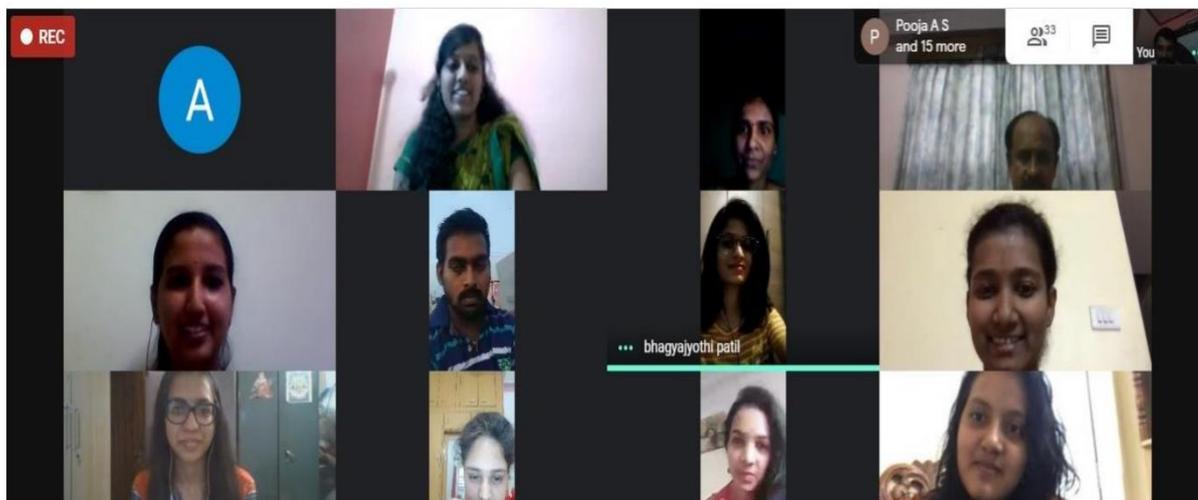
Department of Electronics and Instrumentation Engineering had organized Robotic Workshop “Roboteer-2019” for Pre-University students on 14th November 2019 with motivation of introducing the college and department to the PU students and make awareness about Engineering courses and its vastness.

ROBOTEER 2019-INTER COLLEGE ROBOTIC EVENT



The Department of Electronics and Instrumentation Engineering, GSSSIETW had organized Inter-College Robotic event “ROBOTEER-2019”. ROBOTEER event aimed to provide a platform for students to demonstrate their knowledge and programming skills in embedded systems and Robotics. The objective of this Event is to build a robot which can find its way in a maze with walls from start point to finish point with many dead ends. The robot has to reach its destination in minimum time.

GLOBAL ALUMNAE MEET 2020



Department of Electronics and Instrumentation Engineering of GSSSIETW organized 1st global alumnae meet on 9th may 2020. Alumnae joined the meeting from the various regions of India and abroad and enthusiastically shared their experiences.

STUDENT PUBLICATION / PARTICIPATION

MOOC Courses	Technical Event (Seminar/workshop/s ymposium etc.)	Co-curricular activities
53	13	02

FACULTY ACHIEVEMENTS

1. **Dr. M Shivkumar** delivered a webinar on “**Mobile Robotics**” on **25th July, 2020** organized by **IEEE Bangladesh section in association with IEEE Robotics and Automation Society, Bangladesh chapter.**
2. **Ms. Nagalakshmi T S** delivered a webinar on “**Introduction to AI and it’s Tools**” organized by Dept. of CSE ATME, Mysuru on **11th July 2020.**
3. **Ms. Nagalakshmi T S** delivered a webinar on “**AI-A case study on object recognition**” organized by Dept. of ISE, VKIT, Bengaluru on **4th July 2020.**
4. **Mrs. Amrutha R** and **Ms. Deepika T V** delivered One day skill development on “**Virtual Instrumentation**” on **24th August 2019** for **7th Semester students.**
5. **Mr. Nagesh M S** and **Ms. Nagalakshmi T S** delivered One day skill development on “**Electronics components and devices**” on **13th August 2019** for **3rd Semester students.**
6. **Mrs. Lalitha K** completed a course on Arduino Simulation and Block Coding on April 16, 2020 in Udemy.
7. **Mrs. Lalitha K** completed Python tutorial Course on 27th March 2020 by Solo Learn Platform.
8. **Mrs. Sowjanya M N** completed 7.5 hours of Arduino Programming and hardware fundamentals with Hackstar online course on April 12th, 2020 from Udemy.

9. Mrs. Sowjanya M N completed a course on Fundamentals of Python offered by Amity Future Academy on april 25th 2020.
10. Mrs. Amrutha R attended online MOOC course on Practical PLC Programming-II from Udemy.
11. Ms. Deepika T V Completed a Java tutorial course from Sololearn on 13th May 2020.
12. Ms. Nagalakshmi T S completed the MOOC online course of 8.5hrs on Kali Linux Tutorial for Beginners in Udemy on April 12th 2020.
13. Ms. Nagalakshmi T S completed Python 3 Tutorial course from Solo Learn on 25th March 2020.
14. Ms. Nagalakshmi T S completed C++ Tutorial course from Solo Learn on 24th March 2020.

Faculty FDP / Workshops / Journals / Publication Summary 2019-20

International Conference	Publications	FDP/Workshops/Webinar attended	Total
1	4	36	41

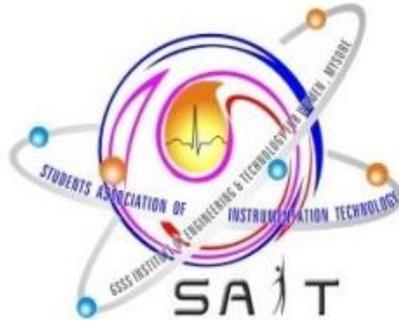
Individual Faculty FDP/Workshop /Journal/ Publication Details for AY 2019-2020

Sl. No	Faculty Name	Publication	FDP/Workshop /Seminar attended	Seminar/Work shop/Webinar presented	MOOC Courses	Total
1	Dr. M Shivkumar	3		1		2
2	Mr. M V Sreenivas Rao	3	7			2
3	Mrs. Lalitha K		13		2	2
4	Mrs. Amrutha R	1	13	1		3
5	Mrs. Sowjanya M N		11		2	2
6	Mr. Nagesh M S		20	2		2
7	Ms. Deepika T V		12	1	1	3
8	Ms. Nagalakshmi T S		12	3	3	3
TOTAL		5	88	8	8	19

KCST PROJECT AWARD:

- Ms. Deepika Dinesh Kumar Bind, Ms. Saibha Khanum, Ms. Sowrabha K M and Ms. Ashwini S of 8th semester awarded of Rs. 5000 from KCST for project entitled “Robotic aid in segregation of dry, wet and metallic waste in industrial environment” under the guidance of Mr. M V Sreenivas Rao.

Students Association of Instrumentation Technology



Objectives of SAIT:

- To provide a platform for students to interact with eminent Academicians, Industry and Research Professionals.
- To promote team building activities that is required for working effectively in small diverse groups.
- To plan and organize activities like Technical / Personality Development Workshops, Seminars, Industrial Visits, etc.
- To organize technical symposiums and guest speakers from wide areas of technical research and development to mark this event. Various technical events like Quiz, On Spot Programming, Paper Presentation, and Technical Debate are conducted under the banner of SAIT.

TALK ON “COMPETITIVE EXAM”



Talk on “Competitive Exam” for 6th and 8th semester students by Ms, Vaishali S, Assistant Manager, Canara bank, Mysuru (alumnae of 2014 batch) on 12th March, 2020

TECHNICAL TALK ON “OPPORTUNITIES IN CORE INDUSTRIES”



Technical talk on “Opportunities in Core Industries” for 5th and 7th semester students Srinivas Prasad K S, Founder Director , Vaasudev Process management Pvt. Ltd and Aswath N Bhargava, Director, Saadhana Engg. & Business Consulting Service, Bengaluru on 4th November 2019 for 7th semester students.

ONE DAY SKILL DEVELOPMENT ON “VIRTUAL INSTRUMENTATION”



One day skill development on “Virtual Instrumentation” by Mrs. Amrutha R and Ms. Deepika T V , Asst. Professor, Dept. of EIE on 24th August 2019 for 7th Semester students.

ONE DAY SKILL DEVELOPMENT ON “ELECTRONICS COMPONENTS AND DEVICES”



One day skill development on “Electronics components and devices” by Mr. Nagesh M S and Ms. Nagalakshmi T S, Asst. Professor, Dept. of EIE on 13th August 2019 for 3rd Semester students

INDUSTRIAL VISITS

INDUSTRIAL VISIT TO “BHORUKA ALUMINIUM LIMITED”



Industrial Visit to **Bhoruka Aluminium Limited**, Mysuru on 13th March 2020 for 4th semester students.

VISIT TO “IISC, BENGALURU”



Visit to **IISc, Bengaluru** on 29th February 2020 for 6th semester students.

INDUSTRIAL VISIT TO “NARAYANA HRIDAYALA”



Department had organized an Industrial Visit to “**Narayana Hrudayalaya**”, Mysuru for Fifth Semester Students on 25th November 2019.

INDUSTRIAL VISIT TO “DMS TECHNOLOGIES”



Department had organized an Industrial Visit to “**DMS Technologies**”, Mysuru for Third Semester Students on 24th October 2019

Parent Teachers meeting held on 13th and 14th September 2019



Parents teachers meeting was organized on **13th and 14th September, 2019** for 3rd, 5th and 7th Semester students. The meeting was conducted with an aim to discuss about performance of students in the exams, attendance status and to take feedback from the parents about the existing system. They gave a very good feedback related to teaching standard, regular follow up of the students, organizing industrial visit and technical talks and knowledge provision to the students in the department and are the key things that make GSSSIETW best.

RESEARCH CENTER DETAILS

Sl. No.	Name of the Candidate/USN	Name of the Guide	Topic	Present status of Ph.D
1	Mr. Gavisiddappa 4GW13PEN01	Dr. M. Shivakumar	An approach to integration of multiple cues in biometric to improve the accuracy of system	Completed Comprehensive Viva
2	M.V.Sreenivas Rao 4GW15PEJ02		Analysis of Battery Packs and Development of Autonomous Recharging for Mobile Robots	Completed Comprehensive Viva
3	Basavanna.M 4GW16PEJ01		An Approach for Dynamic Obstacle Avoidance in Mobile Robots using Electrosensors	Completed Comprehensive Viva
4	Thertha Prasad 4GW17PEJ01		An approach for image based obstacle avoidance and WSN based path planning in mobile robot	Partially Completed Course Work Exam

EDITORIAL TEAM

Mr. M V Sreenivas Rao, Associate Professor & Head, Department of EIE

Ms. Laliha K, Assistant Professor, Department of EIE

Ms. Nagalakshmi T S, Assistant Professor, Department of EIE

