

SHRI G. S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

GOVT. AIDED AUTONOMOUS INSTITUTE ESTD. IN 1952 | "NIRF RANKED INSTITUTE"

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION

NEWS LETTER

(1ST JULY 2022 - 30TH JUNE 2023)

VISION:-THE DEPARTMENT IS COMMITTED TO PROVIDE A HOLISTIC EDUCATION THAT TRANSFORMS THE STUDENTS INTO RESPONSIBLE ENGINEERS AND FACILITATES THEM TO BUILD SUCCESSFUL CAREERS AND EXCEL IN THE FIELD OF ELECTRONICS AND INSTRUMENTATION WITH SOCIAL AND ETHICAL STANDARDS.

MISSION:-TO PREPARE EMERGING ELECTRONICS AND INSTRUMENTATION ENGINEERS TO POSSESS GOOD COMMUNICATION SKILLS WITH THE ABILITY TO WORK IN MULTI-DISCIPLINARY GROUPS, LEAD TEAMS AND UNDERSTAND THEIR PROFESSIONAL AND ETHICAL RESPONSIBILITIES FOR SERVING THE NEEDS OF THE SOCIETY.

Editors- Dr. P. P. Bansod (Prof. & HOD), Mr. Rajesh Khatri (Asso. Prof.), Ms. Neha Pande (Asst. Prof.) and Ms. Kirti Bhargava (Asst. Prof.), Avneesh Vijay (UG student)

ONE WEEK TRAINING PROGRAM (12-18 June, 2023)

Department of Electronics and Instrumentation organized a training program on Advanced Approaches in Modelling and Simulation for Cutting-Edge Electronic systems in association with Banasthali Vidhya Pith, Rajasthan under STUTI-DST, Govt. of India during 12-18 June 2023. The convener of the training program was Dr. Gireesh. G. Soni, Associate Professor of the Department. In this program 35 candidates from different states participated and gained knowledge of various research areas including VLSI, image processing, solar cell, industrial grade microcontrollers etc.



Participants and Organizing committee of DST- STUTI

Expert Lecture: Dr. R. B. Pachori (Professor IIT Indore)

Dr. R.B. Pachori delivered lecture on EEG signal analysis on 12 June 2023, in his talk he illustrated the processing of EEG signal using various mathematical modelling and its ability to identify various diseases. He also discussed how signal processing can help to develop medical facilities for rural areas. He emphasized on multi disciplinary research.

RETIREMENT

Dr. D. K. Mishra attended superannuation on 31st May 2023. He served the department and the institute for more than 30 years. He held many positions as Dean, Head of the department, TEQIP coordinator etc.



Dr. R. B. Pachori, Professor IIT Indore



DEPARTMENTAL ACHIEVEMENT

VISIT OF STUDENTS TO IIT-INDORE



III year students along with Faculty members of the department at IIT Indore

Students of department got an excellent opportunity to visit IIT, Indore. Students were taken to various laboratories like Basic Electrical & Electronics lab, Machine lab, Antenna Design, SARAL unit, RF lab, NSDCS lab etc. Students explored the research area of electronics field and various opportunities available at IIT Indore.

IIT visit was done by III year student with faculty member Dr. R. C. Gurjar, Dr. Anuj Rawat and Ms. Neha Pande.

AWARDS/ACHIEVEMENTS

Prof. S. M. Dasgupta Award:

- **Mr. A.R. Mansoori** received the award for Best Technical Staff of the Institute in 2022.
- **Ms. Neha Jain**, Final year student of the department received the award for the best student of the Institute.

Gold Medal

- **Riya Goyal** received the Gold Medal (2021-22) for scoring highest marks in Electronics and Instrumentation Engineering.



Mr. A. R. Mansoori and Ms. Neha Jain at Award Function SGSITS - AAYAM 2022-23

NBA ACCREDITATION

Department was Accredited for a period of 3 years (2023 - 2025).

MOU

MOU has been signed among IIT Indore, IIT Jammu, IET-DAVV Indore, IIIT Gwalior and SGSITS Indore to Design and Fabricate Pacemaker Chip under Chip to Startup (C2S) Project funded by MietY, Government of India.

GRANT

Department has received a project entitled "Chip to Startup" (C2S) funded by MeitY, Government of India with a grant of Rs. 96 Lacs for five years.

EXPERT LECTURES

- Professor P. P. Bansod delivered a lecture on Pacemaker on 1 June 2023. This lecture was attended by faculty members and students from IIT Indore, IIT Jammu, IET-DAVV Indore, IIITM Gwalior and SGSITS Indore. In the lecture he described about the functioning of pacemaker and how it can be fabricated using VLSI technology.
- Dr. Chetan Singh Thakur, Assistant Professor IISC Bangalore, Alumini of E & I department interacted with second year students of the department on 12 April 2023 about the Biomedical Signal Processing and Neuromorphic Engineering and its use in VLSI.

ENTREPRENEURSHIP



Mr. Uma Shankar Rajak, a student of Final year Electronics and Instrumentation has successfully launched startup - **AddyMade** which creates videos for Business Promotions.

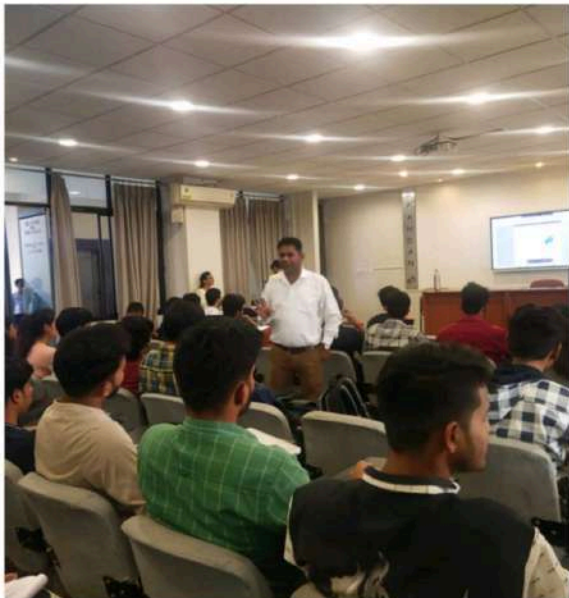
FACULTY AND STUDENT ACHIEVEMENTS

TRAINING PROGRAM BY INDUSTRY EXPERT

Department organized a certified training program for III year students conducted by Robotronics Pvt. Ltd. Indore.

Motive of the course was to provide a bridge between industry and academics.

The student learnt Python programming essentials from the industrial experts.



Mr. Bhupendra Thakur (Robotronics Pvt. Ltd.)
delivering lecture to students



Anukul Pandey placed at REEF Dubai on Package of
21 Lac



Amisha Karamchandani
NMIMS Mumbai



Sakshi Maheshwari
IIM Sambhalpur

Ph. D. AWARDED

- Dr. R.C. Gurjar, Associate Professor of the Department, awarded Ph.D. on 15 Feb 2023 under the guidance of Dr. D. K. Mishra.
- Dr. Anuj Rawat, Assistant Professor of the Department was awarded with Ph.D. on 25th February 2023 from University of Delhi under the guidance of
- Dr. V. K. Verma awarded Ph.D. on 23 June 2023 under the guidance of Dr. D. K. Mishra and Dr. R.S. Gamad.
- Dr. Yudhisthir Raut was awarded Ph.D. under Dr. P.P. Bansod and Dr. R. S. Gamad.

NPTEL CERTIFICATION COURSES

- Dr. Gireesh G. Soni, Associate Professor completed certification course on "Optical Wireless Communications Beyond 5-G Networks and IOT" in April 2023.
- Ms. Kirti Bhargava, Assistant Professor. completed certification course on "Analog Circuits" in April 2023.
- Avneesh Vijay student of III year completed certification course on "Introduction to Internet of Things" in April 2023.

RESEARCH PUBLICATIONS

- Gireesh G. Soni, Abhishek Tripathi, Manaswi Shroti, Experimental study of rain affected optical wireless link to investigate regression parameters for tropical Indian monsoon, Optical and quantum electronics. June 23 ISSN / eISSN: 0306-8919 / 1572-817X.
- Vaishali Narendra Naik, R. S. Gamad , P. P. Bansod, Effect of despeckling filters on the segmentation of ultrasound common carotid artery images, Biomedical Journal August 22, ISSN / eISSN: 2319-4170 / 2320-2890.

ACADEMIC ACHIEVEMENTS

- Man Singh Baghel- Gate (2022-23) AIR-825.
- Sakshi Maheshwari- CAT/IIFT -89.64 percentile (CAT 2022-23) got admission in IIM Sambhalpur
- Amisha Karmchandani got admission in NMIMS- Mumbai.
- Dr.Gireesh G. Soni achieved top rank in the NPTEL course on Optical wireless comm. beyond 5G network and IOT.

PLACEMENTS

- 90 percent of the final year eligible student of the department got their placement in various companies like Deloitte, Deutsche Bank, Accenture, Vedanta Ltd., Cognizant, C.G. Power & Industrial Solutions etc.
- **Anukul Pandey of final year got place in REEF Dubai with a the package of 21 Lacs.**

STUDENT ACHIEVEMENTS

INTERNSHIP

Following students of III year got selected for Internship at various reputed Institutes / Organizations during May-June 2023.

- Shrey Pathak - IIT Indore.
- Somya Sahu - Goldman Satche, Bengaluru.
- Ansh Gupta - IIT Bombay.
- Lavisha Yadav - IIT Roopar.
- Harsh Vardhan Upadhyay - ISRO.



Electronics & Instrumentation Cricket Team



Avneesh Vijay III year student receiving prize for State level Child Protection Quiz



Ansh Gupta, III year, Paarth Parikh, Udit Phand, Vasudev Kesharwani, students in E-Yantra Robotics Competition sponsored by MHRD at IIT Bombay.

IEEE STUDENT MEMBERSHIP

- Ayush Porwal (III Year)
- Shrey Pathak (III Year)
- Lavisha Yadav (III Year)
- Jayesh Kumar Sharma (II Year)

EXTRA-CURRICULAR ACTIVITIES

- Samruddhi Shahapurkar. II Year won RGPV State level Kho- Kho tournament-women.
- Avneesh Vijay, III year, secured Third position in "Child Protection Quiz" at State level, Second position at District level and first position at University level.
- Ekansh Bharatkar, II Year was selected for M.P. team to play National MUAY THAI Championship, Chennai.
- Department team won first Prize in Intra College Cricket, Basketball and Table Tennis.
- Shivani Mukati participated in All India Inter University Rifle Shooting Competition.
- Ansh Gupta, III year, Paarth Parikh, Udit Phand, Vasudev Kesharwani, students secured AIR 5 of total 372 teams in E-Yantra Robotics Competition sponsored by MHRD at IIT Bombay.
- Diksha Bhawsar ,IV year participated in group dance at IIT Indore
- Shubham Jain, III year participated in coding contest GDSC at AITR Indore.
- Shubham Jain, III year participated in Code Fest of Chemkirti at NIT Durgapur.
- Anshaj Malhotra, IV year and Amandeep Saluja, III year participated in (GSRACERS) SAE Northern India Section EFFI-CYCLE 2020.
- Adarsh Singh Chouhan, II year E & I Trilok Jamra II year were volunteer in AUTO SHOW-22 by Govt. of M.P. Department of Industrial Policy and Investment Promotion.

IMPORTANT MEETINGS

The Departmental Program Assessment and Quality improvement committee (DPAQIC) meeting, Board of Studies (BOS) meetings are scheduled twice a year at the end of semester to review and analyze the progress of the program and suggest the Academic Council the required changes in scheme and syllabus of UG and PG courses. This year meetings of DPAQIC and BOS were held on -

DPAQIC -29 Nov. 2022 and 14 June 2023

BOS - 30 Nov. 2022 and 4 July 2023