

Department of Electronics Engineering **NEWSLETTER**

<https://satiengg.in/departments/electronics-engineering>



Quarterly Edition: April-June 2023



Top News

Professor Dr. Y. K. Jain of our department has been appointed as Deputy Director.

54 students from Electronics Department were placed in Leading Multinational Companies in the AY 2022-23.

Board of Studies (BoS) Meeting was held on 05.05.2023.

Our 3rd year students awarded scholarship from Cummins India Foundation [CIF].

Vision

To contribute in service of humanity and nations development by fulfilling the needs of industry and society through technically enriched and competent professionals with social values, entrepreneurship skill, leadership quality and capability of research in the area of Electronics and Instrumentation/ Electronics and Communication.

Mission

M1: By offering well balanced curriculum to impart quality technical knowledge.

M2: By providing them facilities for hands on practice and research.

M3: Inculcating Social values, leadership, ethics, self-confidence, entrepreneurship skills and providing platform to explore their creativity and hidden talents.

Department offers immense scope to explore and expand your horizons.



Two-Week in-House Internship Program was organized on Embedded System Design (15.05.2023 to 26.05.2023).



Message from HoD



In the current technology landscape, Electronics as an industry is quickly outpacing other streams in terms of growth and potential. With rapid development in nano-meter thin semiconductor technology, ultra high-speed communication, automotive engineering, automation, etc the branch has opened up a vast sea of opportunities for engineers globally.

As a department, we need to leverage this growth and capitalise on these opportunities. With the likes of digital highways, seamless connectivity, intelligent cellular networks, digital governance, etc., electronics as a part of big tech, now plays a pivotal role in the global economy.

India being one of the major potential markets as well as lucrative suppliers to tech companies around the world, it is quickly becoming a hotbed for foreign MNCs looking for talent in multiple spaces, be it VLSI, fabrication, defence hardware, drone tech, etc.

For an engineering student in this landscape, focusing on your craft, perfecting both technical and soft skills will enable you access to these spaces, creating immense learning opportunities and a strong career track.

Dr. Ashutosh Datar

HoD, Department of Electronics Engineering

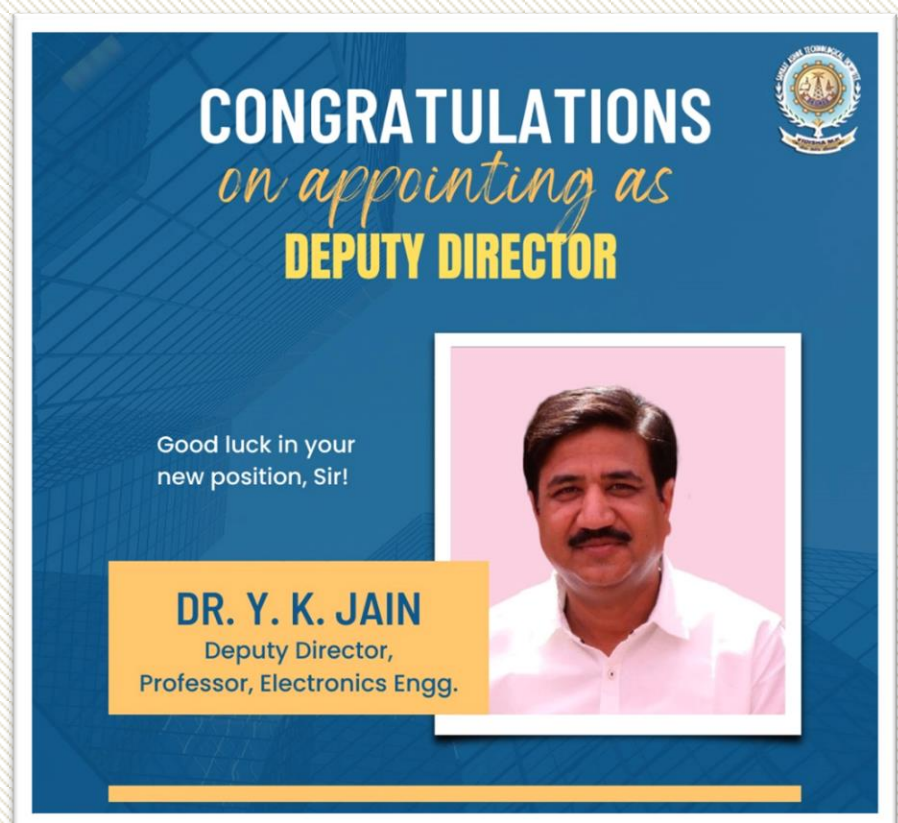
Major Announcement

It is a matter of great pleasure that Dr. Y. K. Jain, Professor from our department has been appointed as Deputy Director of our Institute in June 2023.

He has an experience of more than 30 years out of which 10 years on the post of Professor. He has visited more than 10 Institutions across the Country as an AICTE Expert (EVC member) for extension of approval and approval for new courses.

His pleasant temperament, ability to work in a team and to organize many has brought him this far. It is well deserved. Congratulations to him in this new position.

Best Wishes!!





Two-Week in-House Internship Program on Embedded System Design (15.05.2023 to 26.05.2023)

A two-week in-house internship program on Embedded System Design was organized by the Department of Electronics Engineering from 15.05.2023 to 26.05.2023. Students were trained for hardware/software system design using Embedded System Software such as Proteus VSM Design Software, Edsim Simulator Software and Keil uvision Software. In the Valedictory Program, certificates were awarded to the successful students by the Dean Academic Dr. Jetendra Parashar and the Head of the Department Dr. Ashutosh Datar.



Board of Studies (BoS) Meeting

A Board of Studies meeting was held on 05.05.2023. Major highlights of the meeting is as follows:

- Flexible curriculum
- Inclusion of Open Elective courses, HECs, Value Addition courses.
- Provision of regular internships in every year.
- Designed for obtaining Minor degree and Honors.
- Phase-wise inclusion of subjects like 5G networks, Machine vision, AI-ML, Internet of Things, etc.
- Initiative to start Students Chapter of Technical Societies.
- Establishing the BIS Standards Club (Electronics Engineering) in association with Bureau of Indian Standards (BIS).



Faculty Achievements



Patents Published

Faculty Name	Patent	Country
Dr. Jyotsna Ogale	"A System for Classifying Multiple Signals for Direction of Arrival Estimation", German Patent, Germany Government, (Design) Patent, Patent Number: 202022105574	Germany
Dr. Jyotsna Ogale	"Safety Jacket Integrated with Safety Belt Based on Artificial Intelligence", Indian Patent, Indian Government (Design), Patent Number: 372911-001	India
Dr. Jyotsna Ogale	"Multiple Slope Solar Dryer and Solar Still," The Patent Office Journal, Issue No.: 11/2023, Publication Date: Friday, 17.03.2023, Indian Patent (Design), Patent Application Number: 202321014565A; Application Date: March 03, 2023.	India

Books/Book Chapters Authored

Faculty/Author's Name	Title of Book/ Book Chapter	Publisher	Year of Publication, Volume etc
Alok Jain	Power Electronics: Devices, Circuits and MATLAB Simulations, 2nd edition	Penram International Publishing (India) Ltd., Mumbai, India	2022-23
Sweety Jain, Vivek Singh Kushwah, Sanjay Chouhan and Mohamed El Bakkali	Study of SAR in Tumor for Biomedical Applications Based on Microstrip Patch Antenna	Springer	pp 237-247, 1 May 2023
Sweety Jain	A Feasibility Study for Biomedical Applications via Microwave Imaging	Taylor & Francis	Accepted
Vidhi Rawat, Vibhakar Shrimali, Alok Jain and Abhishek Rawat	Detection of Fetal Abnormality using ANN Techniques	Springer	pp 259-270, Jan. 2023
Abhishek Jain, Preeti D. Swami, Ashutosh Datar	An improved Patch-Group based Sparse Representation method for Image Compressive Sensing	Springer	2022-23, pp. 283-294
Devendra Kumar Shakya	Application of IoT and Various attacks on IoT	Springer	pp.705-719, December 16-18, 2022.



A book published by Dr. Alok Jain

3 patents were published by Dr. Jyotsna Ogale



Faculty Achievements (Continued..)



Publication in International Journals/Conferences

Faculty/Author's Name	Title of Paper	Journal Name	Year of Publication etc	DOI / ISSN number
Abhishek Jain, Preety D. Swami, Ashutosh Datar	Dimension Adaptive Hybrid Recovery with Collaborative Group Sparse Representation based Compressive Sensing for Color Images	International Journal of Nanotechnology (IJNT), Inderscience Publishers	2023, 20, 361-389	10.1504/IJNT.2023.131125
Abhishek Jain, Preety D. Swami, Ashutosh Datar	A truncated patch-group-based hierarchical reconstruction model for color image compressive sensing	Soft Computing	2023,20,1-15	10.1007/s00500-023-08275-w
Sudhir Sharma, Bhoopendra Singh, Ashutosh Datar	Duty ratio control technique with torque ripple minimization for induction motor-based electric vehicle applications	Journal of Power Electronics	2023, 23, 617-624	10.1007/s43236-023-00595-2
Pampa Sinha, Kaushik Paul, Sayanti Chatterjee, Fausto Pedro Garcia Marquez, Jyotsna Ogale, Ahmed Ali, Baseem Khan	Cross Country High Impedance Fault Diagnosis Scheme for Unbalanced Distribution Network Empolying Detrended Cross Correlation.	IET, Generation, Transmission & Distribution	June 2023, Volume , Page No- 1-17	doi-10.1049/gtd2.12911
Mousumi Basu, SAbroni Das, Chitralkha Jena, Jyotsna Ogale, Ahmad Ali, Baseem Khan	Fixed Head Hydrothermal Scheduling Considering Uncertainty of Local Demand and Renewable Energy Sources	IET, Generation, Transmission & Distribution	June 2023, Page No. 1-12	10.1049/gtd2.12914
Majid Ali, Mohsin Ali, Koondhar, Jyotsna Ogale, Ahmad Ali, Baseem Khan	Intelligent Hybrid Microgrid Energy Sources and Grid Integration Using Microcontrollers	Computers and Electrical Engineering (Elsevier)	July 2023 Page No.1-13	10.1016/J.COMPEL.2023.108873

7 SCI/SCIE Research Papers were published in International Journals



Faculty Achievements (Continued..)

Shishir Dixit, Pushendra Singh, Jyotsna Ogale , Praveen Bansal, Yashwant Sawale	Energy Management in Microgrids with Renewable Energy Sources and Demand Responses Employing Differential Evolution	Computer and Electrical Engineering	July 2023 Page No- 1-10, Volume- 110	DOI- 10.1016/J. j.complec eng.2023. 108848
Devendra Kumar Shakya	Evaluation of Different Mapping Schemes for Detection of Tandem Repeats in DNA Sequences	International Conference on Machine Intelligence and Smart Systems (MISS2023), SRIIT, Gwalior, India,	February 24-25, 2023	
Sudhir Sharma; Bhoopendra Singh; Ashutosh Datar	A review on direct torque control strategies in induction motor drives for electric vehicle applications	2023 IEEE International Conference (SCEECs), Bhopal India	2023, 1-8	
Neil Joshi, Neelesh Mehra	A Review Paper on Text Extraction From Textured Image Using Threshold Image Segmentation	Journal of Emerging Technologies and Innovative Research	2023-06- 30, Volume 10, Issue 6	ISSN : 2349- 5162

NPTEL/SWAYAM Certification

Name of faculty	NPTEL/SWAYAM Certification
Dr. Sweety Jain	Fabrication Techniques for MEMs based Sensors, Digital Switching I and Basic of Software Defined Radios
Dr. Shilpa Datar	Introduction to Industry 4.0 and Industrial Internet of Things (IIoT) and Digital Circuits
Prof. Bharti Mehra	Introduction to Industry 4.0 and Industrial Internet of Things (IIoT) and Microprocessor & Microcontroller
Dr. Suchi Mishra	Introduction to Industry 4.0 and Industrial Internet of Things (IIoT)
Abhishek Jain	Digital Image Processing
Dr. Ankita Srivastava	Digital Circuits
Prof. Niraj Kumar	Control Engineering and Internet of Things



Prof. Abhishek Jain bagged a 1% Topper Certification in NPTEL-SWAYAM course on Digital Image Processing.

Dr. Ankita Shrivastava earned a 5% Topper Certification in NPTEL-SWAYAM course on Digital Circuits.



Placements



S. No.	Name	Company	Package
1	Vidhan Rathore	Value Labs	9 LPA
2	Vishnu Kant Mishra	Byjues	8.5 LPA
3	Deepanshu Dhote	TCS Digital	7.5 LPA
4	Gresi Jain	TCS Digital	7.5 LPA
5	Naman Kesarani	Argusoft	7.12 LPA
6	Subhashini Singh	Argusoft	7.12 LPA
7	Suditya Gupta	Fynd	7 LPA
8	Shravan Malviya	Incture	6.25 LPA
9	Lakshya Chourasia	Hexaware	6 LPA
10	Vidhan Rathore	Hexaware	6 LPA
11	RISHABH RATHORE	Meditab	6 LPA
12	Harshit Borkar	Meditab	6 LPA
13	Bharat Singh	Rapidops	5.82 CTC
14	Shubham Choudhary	Rapidops	5.82 CTC
15	Vasu Sharma	Rapidops	5.82 CTC
16	Ashutosh Pandey	Learning routes	5.7 LPA
17	Pratik Kanchan	Learning routes	5.7 LPA
18	Shivarth Chourey	Jio Spark	5.0 LPA
19	Akash Saxena	Jio Spark	5.0 LPA
20	Vidhan Rathore	Sisken	5 LPA
21	Nikhil Ahirwar	Ceasfire	4.8 LPA
22	Aniket Shrivastava	Eicher	4.5 LPA
23	Harshit Borkar	HCL	4.25 LPA
24	Shravan Malviya	Trianz	4.25 LPA
25	Shravan Malviya	Mastek	4.2 LPA
26	ashutosh pandey	Qspider	4.2 LPA
27	Vandana singh	Qspider	4.2 LPA
28	Rajneesh Gurjar	Qspider	4.2 LPA
29	Mohd Farid Mansoori	Qspider	4.2 LPA
30	Jagrati Pachori	Qspider	4.2 LPA
31	Pooja Jagtap	Mastek	4.2 LPA
32	A Kunal Rao	Qspider	4.2 LPA
33	Reet VEDI	Qspider	4.2 LPA
34	Shivani Lodhi	Qspider	4.2 LPA

54 students were placed in Leading Multinational Companies in the AY 2022-23.



Placements (Continued..)



35	Reet Vedi	Mastek	4.2 LPA
36	Harshit Borkar	Hexaware	4 LPA
37	Pratyush Chauhan	Hexaware	4 LPA
38	Ramendra Singh Sikarwar	Hexaware	4 LPA
39	Mahan Pathak	Hexaware	4 LPA
40	Reet Vedi	Hexaware	4 LPA
41	Mayank Sharma	Hexaware	4 LPA
42	Ali Asgar Bohra	Hexaware	4 LPA
43	Akash Singh Kushwah	Hexaware	4 LPA
44	Pratik Kanchan	Ninja	3.5LPA
45	Shatakshi Gupta	Ninja	3.5LPA
46	Naman Keshewani	Ninja	3.5LPA
47	Mayank Sharma	Ninja	3.5 LPA
48	Prakrati Krishan Nema	Physicswaalah	3.00 LPA
49	PIYUSH JAIN	Pantagon Space	3 LPA
50	Priya Singh	Peol Solutions	3 LPA
51	Mayank Kumar Choudhary	Peol Solutions	3 LPA
52	Yogesh Bhummarkar	Peol Solutions	3 LPA
53	UPENDRA PATEL	Pantagon Space	3 LPA
54	Aliasgar bohra	Pantagon Space	3 LPA

Best wishes to all the placed students for their future endeavors. We are proud of you!



Congratulations
For Getting Placed In
ValueLabs



Vidhan Rathore
E.C.E

Package: 27 LPA (3 Year Compensation)



Student Achievements



Our proud student Sudhir Kumar of 2018 Batch, Electronics and Communication Engineering is selected in UPSC CAPF with AIR 117.

Previously, he was also selected in MPPSC-2020. We wish him a very bright future ahead.

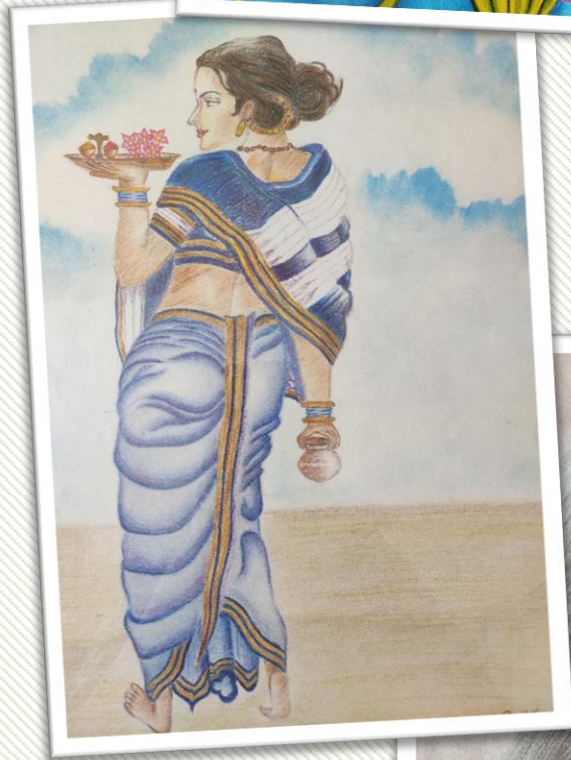
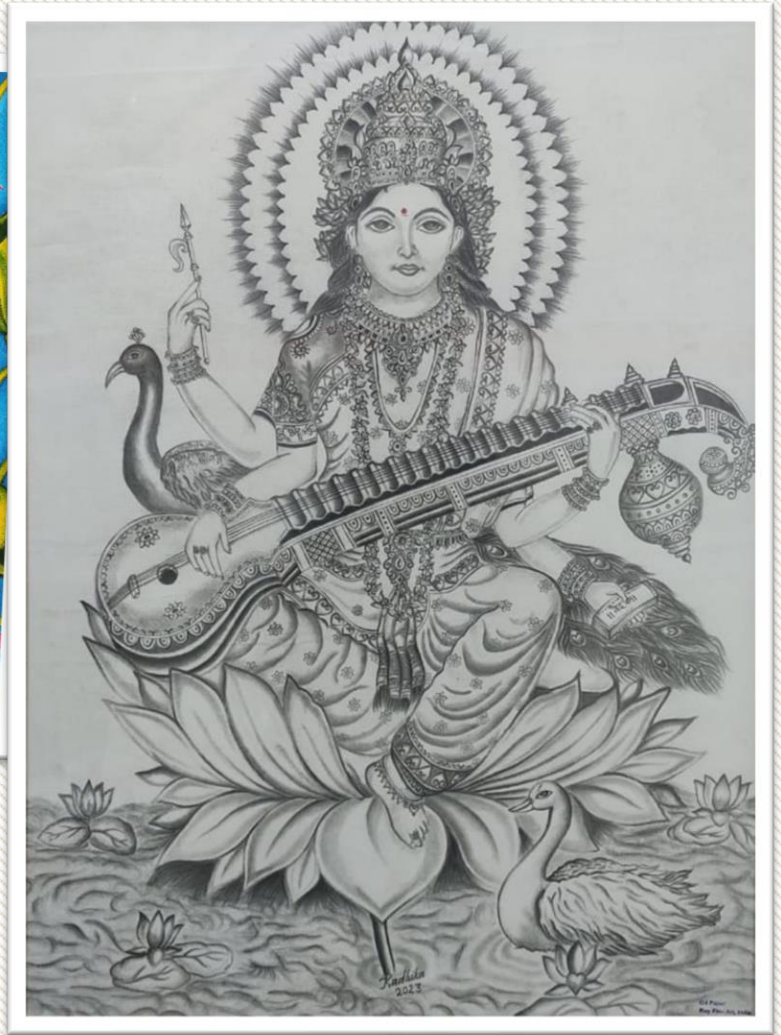


Congratulations to Harshita Meena, 3rd Year, Electronics student for successfully conquering various Gold and Silver awards in the RGPV NODAL SWIMMING EVENT held at SISTec, Bhopal.

She won Gold Medal for 200 meter IM, Silver Medal for 50 meter Butterfly and Silver Medal for 50 meter freestyle. We wish her many more successes in her life.



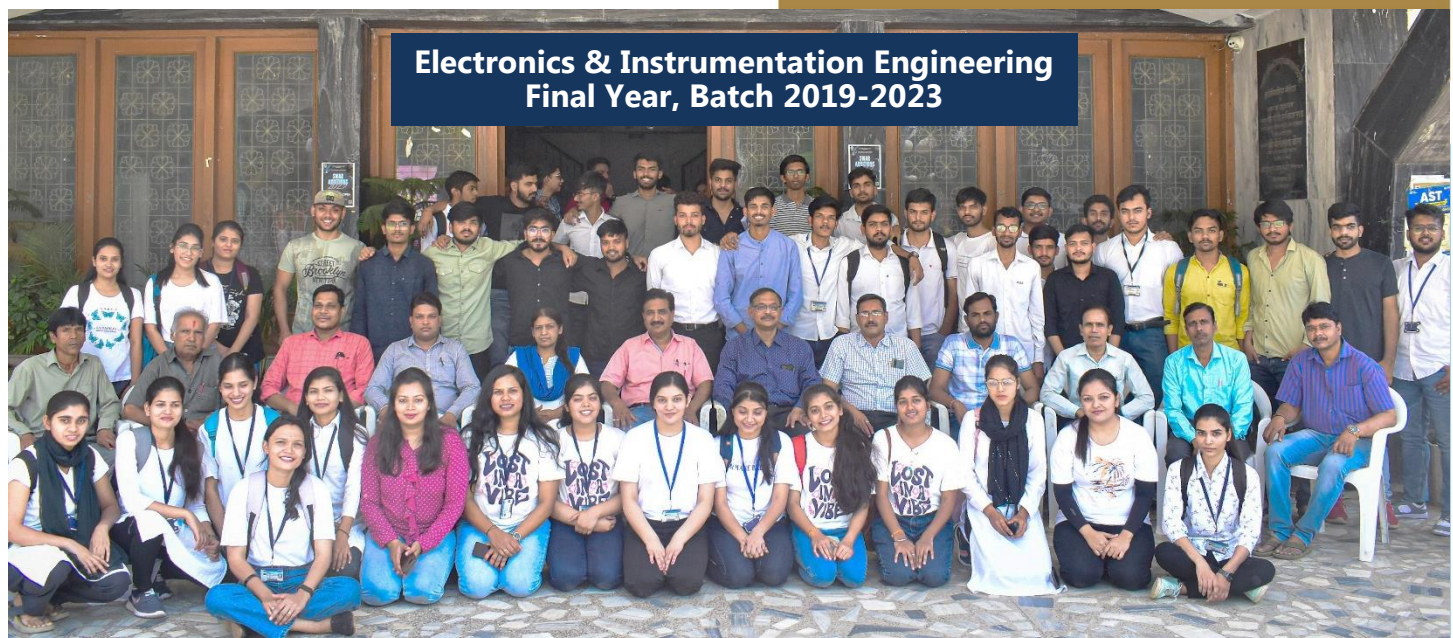
Congratulations to our proud III year students Prachi Giri (EC), Bhoopendra Singh Lodhi (EI) and Mahima Tomar (EC) who have been awarded scholarship from Cummins India Foundation [CIF] under the 'Cummins Scholarship Program; Nurturing Brilliance' which is for supporting meritorious students. Cummins also entrusts these scholars to its senior employees, who as mentors provide guidance to selected students through the entire duration of the course. Laptop is also provided to facilitate smooth e-learning. They were selected amongst the 200 students at PAN India level.



Radhika Karkare, Final Year, EC



Happy farewell!



Editorial Board

Advisor

Dr. Ashutosh Datar, HoD

Coordinator

Prof. Abhishek Jain

Members

**Dr. Shilpa Datar, Dr. Suchi
Mishra, Dr. Sweety Jain**

Articles/achievements for the subsequent editions can be submitted at newsletter.electronics@satiengg.in

It's been a remarkable journey with you all. All our efforts were only to bring out the hidden geniuses in you. Each of you has the potential to become the leader of your working spheres. We wish you a bright future and a prosperous life.

Your journey with this organization may stop here, but it is the beginning of another successful part of your life. Our blessings and warm wishes shall always be with you. Bring radiance into your life. We are excited to see your bright future. Always stay connected to the department.

Happy farewell!

**-All faculty & staff
Department of Electronics Engineering**