

STUDENT ACHIEVEMENTS 2023

SL NO	ACHIEVEMENTS
1	PG students Ms. Bindushree V, Ms. Pavithra G, and Ms. Shruthi S from the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor Dept. of ECE presented their research paper titled 'Comparison of Schmitt Trigger Oscillators using Logic Gates in 45nm CMOS Technology' in the IEEE International Conference on 'Intelligent and Innovative Technologies in Computing, Electrical and Electronic' held from 27 th -28 th January 2023 at B.N.M. Institute of Technology, Bangalore.
2	(February 02, 2023) Ms.Anindita Chattopadhyay, Ms. Pooja Desai, Mr. Viswas P, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled 'An Improved Quaternary Decoder Design Using 32nm CMOS and GNRfet for High Density Memory Application 'in the International Conference on Nano Composites for Aerospace Application held from 2 nd - 4 th February 2023 at Cambridge Institute of Technology, Bengaluru.
3	(February 10, 2023) Ms. Jayashree L and Ms. Suveditta, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled 'Set Up and Hold Time Analysis of D Flip-Flop Based on CMOS and GNRfet' in the 3 rd International Conference on Technology, Engineering, Management for Societal Impact using Marketing, Entrepreneurship and Talent (TEMSMET 2023) held from 10th -11th, February 2023 at Vidya Vikas Institute of Engineering and Technology, Mysuru.
4	(February 23, 2023) Mr. Naveen Kumar N and Mr. Sandesh Y M, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled 'Implementation of the AES Algorithm on FPGA' at Emerging Research in Computing, Information, Communication and Applications held from 23 rd -25 th February 2023 at Nitte Meenakshi Institute of Technology (NMIT), Bengaluru.
5	(March 01, 2023) Dr. R Jayagowri, Associate Professor, Department of Electronics and Communication Engineering and Mr.Rohit Praveen Mungekar PG student from the department published a research paper titled 'Color Tone Determination Prior Algorithm for Depth Variant Underwater Images from AUV's to Improve Processing Time and Image Quality' in Multimedia Tools and Applications - An International Journal published by springer and indexed in Web of Science Q2.
6	ELSOC the student community of Department of Electronics and Communication Engineering conducted a 5 day hands-on 'ARDUINO BOOTCAMP' from February 27 th – March 3 rd 2023. 140 students from various departments attended the event. Dr. Archana H R and Dr. Maligi Anantha Sunil, Assistant Professors from Dept., of ECE were the event coordinators.
7	April 02, 2023: The student team from 2 nd year Department of Electronics and Communication Engineering Mr. Amal Srivastava, Mr. Rajath V, Ms. Deeksha Jayanth and Mr. Adithya G Jayanth under the guidance of Dr. Rajath Vasudeva Murthy, Assistant Professor in the department have secured 2 nd place in the national level finals of 'Krishi Bot' theme at the eYantra Robotics Competition conducted by Indian Institute of Technology, Bombay.

8 **April 02, 2023:** The student team from 2 nd year Department of Electronics and Communication Engineering, Mr. Amit Chandrashekhar Hegde, Ms. Aditi Phaneesh, Mr. Vishnu Prakash Bharadwaj and Mr. Amogh Ananda under the guidance of Dr. Rajath Vasudeva Murthy, Assistant Professor in the department have secured 5 th place in the national level finals of ‘HolA Bot’ theme at the eYantra Robotics Competition conducted by Indian Institute of Technology, Bombay.



9 **April 19, 2023:** Mr. Chand Pasha A, Ms. Diksha, Ms. Shwetha C Sannamani, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled ‘Design of Quaternary Inverter Using 32nm SOI Technology’ in the in IEEE International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS-2023), held from 19th -21st April 2023 at Bangalore Institute of Technology, Bengaluru.



10 **April 29, 2023:** Mr. Ritvik Srivastava, Ms. Divisha Agarwal, Ms. Apoorva G Kanthi, students from Department of Electronics and Communication Engineering under the guidance of Dr. Archana H R, Assistant Professor in the department have been awarded 1st prize for their project titled ‘Species and Disease Detection in Maize Plant using ML/IP’ under the UG award 2022 category by Institute of Smart Structures and Systems (ISSS) society.



ISSS Awards 2022

UG Awards						
Sl. No.	NAME	INSTITUTION	EMAIL ID	GUIDE	Title	
1	1. Ritvik Srivastava 2. Divisha Agarwal 3. Apoorva G Kanthi	BMS College of Engineering	archanahr.ecce@bmsce.ac.in	Dr. Archana H R Department of ECE, BMS College of Engineering	Species and Disease Detection in Maize Plant using ML/IP	First
2	1. K. Likhitha Suma Venkat 2. P. Naga Lakshmi 3. Sk. Ibraheem 4. M. Sai Manvitha Reddy	Lakireddy Bali Reddy College of Engineering	likhithavenkat2207@gmail.com	Dr. O Rama Devi HoD Dept. AI and Data Science, Lakireddy Bali Reddy College of Engineering	SMART FARM	Second
3	1. Darshan S 2. Omkar Singh 3. Ramya H G	Nitte Meenakshi Institute of technology, Bangalore, Yelahanka	naina.r.karkal@nmit.ac.in	Dr. Naina R Karkal ECE Dept., Nitte Meenakshi Institute of technology (NMIT)	Growth and characterization of Zinc Oxide thin films using Radio Frequency sputtering for SAW device applications	Third

11	<p>May 12, 2023: Mr. Sanyam Mishra, 8th semester UG student from the Department of Electronics and Communication Engineering represented India in ‘Asian Powerlifting Championship’ and conquered ‘Gold Medal’ for the country.</p> 
12	<p>September 01, 2023: Dr. Rajanikanth K N Associate Professor, Department of Electronics and Communication Engineering, Mr. Sanketh J, Mr. Sree Suryadatta M Vadhooras, Mr. Vinay Kumar K V and Mr. Vinayak Rao H K students from the department presented a paper titled ‘Visual Kinetic SLAM Hardware Acceleration for Navigation’ at IEEE 2023 International Conference on Network, Multimedia and Information Technology (NMITCON) held at Nitte Meenakshi Institute of Technology Bangalore, India.</p>
13	<p>September 30, 2023: Dr. Veena M B, Associate Professor, Department of Electronics and Communication Engineering and Mrs. Dhanyavathi A, Ph.D. student published a journal paper titled ‘Osteoporosis Detection and Classification of Femur X -ray Images Through Spectral Domain Analysis using Texture Features’ in International Journal of Advanced computer science and applications, Vol.14, No.9, Sep 30, 2023 pp766-773.(Scopus/WOS indexed)</p>
14	<p>September 30, 2023: Dr. Veena M B, Associate Professor, Department of Electronics and Communication Engineering and Mrs. Meena Deshpande Ph.D. student published a journal paper titled ‘Performance Analysis of Object Detection Algorithms Based on Transform and Statistical Texture Classification Methods’ in Journal of the Balkan Tribological Association, Vol. 29, No3, 322-331, Sep 2023 (Scopus indexed)</p>
15	<p>October 01, 2023: Dr. Meera A, Professor and Aishwarya S K student, Department of Electronics and Communication Engineering published a research paper titled ‘Design of Low Power Flash ADC using Memristor Based Encoder and Three Stage Comparator’ at the Journal of Emerging Technologies and Innovative Research(JETIR). 2023 JETIR October 2023, Volume 10, Issue 10</p>
16	<p>October 18, 2023: Dr. R Jayagowri, Associate Professor, Department of Electronics and Communication Engineering and Roohum Jegan Ph. D student from the department published a research paper titled ‘Voice Pathology Detection using Optimized Convolutional Neural Network and Explainable Artificial Intelligence-Based Analysis’ in the Computer Methods in Biomechanics and Biomedical Engineering WOS indexed Q4 Journal.https://doi.org/10.1080/10255842.2023.2270102</p>

17	<p>October 20, 2023: Dr. Shachi P, Assistant Professor, Mr. Rohit Hugar, Ujjwal Rakesh, students, Department of Electronics and Communication Engineering, presented a paper titled ‘Particle-swarm Optimization-based Digital FIR Filter Design’ at the International Conference on Evolutionary Algorithms and Soft Computing Techniques, EASCT-2023, organized by RV Institute of Technology and Management, Bengaluru.</p> 
18	<p>October 20, 2023: The following research paper was presented at the 2nd International Conference on Computing, Communication, and Cyber Physical Systems (IC3CPS 2023) organised by Reva University held on 20th and 21st October 2023.</p> <ul style="list-style-type: none"> • Dr. Poornima G, Associate Professor and Mr. Maruthi H C, Ph. D student Dept., of ECE on ‘An Optimal Approach to find optimal locations for base station to achieve energy efficiency in WSN's’ • Dr. Poornima G, Associate Professor and Mr. Naganna, Ph. D student Dept., of ECE on ‘An Efficient Machine Learning and Filter Based Implementation of Data Fusion in WSN’.
19	<p>October 30, 2023: Mr. Pavan S Murthy and Ms. Kshama Marathe 7th semester students, Department of Electronics and Communication Engineering won 1st prize in the ‘Pitch-A-Thon’ an IEEE sponsored event on the topic ‘Antenna Mavericks’ under the guidance of Dr. Karthikeya G S, Assistant Professor, Dept., of ECE.</p> 
20	<p>November 20, 2023: Mr. Pavan S Murthy and Ms. Kshama U Marathe, students 7th semester, Department of Electronics and Communication Engineering won 1st prize in the Nokia ideathon contest on the topic ‘Aperture Coupled Cost-Effective 5G Antenna Design for 26GHz Region’</p>

	<p>organised by Nokia Networks Pvt., Ltd under the guidance of Dr. suma M N, Professor and Karthikeya G. S, Assistant Professor, Dept., of ECE.</p> 
<p>21</p>	<p>November 20, 2023: Ms. Keerthana Jayaprakash and Ms. Anushka P, students 7th semester, Department of Electronics and Communication Engineering won 2nd prize under best project category titled 'Industrial Metaverse using Digital Twin' organised by Nokia Networks Pvt., Ltd under the guidance of Dr. suma M N, Professor and Dr. K R Sudhindra, Associate Professor, Dept., of ECE.</p> 
<p>22</p>	<p>December 08, 2023: Dr. Veena M.B, Associate Professor and Mr. Girish N Ph.D student, Department of Electronics and Communication Engineering published a research paper titled 'Evaluation of WATERMARK Channel for Underwater Communication using Dual Tree Complex Wavelet Transform based Orthogonal Frequency Division Multiplexing Model' in the International Journal of Computer Network and Information Security Published Online on December 8, 2023 by MECS Press. Vol 15, No.6 PP 16-29, ISSN: 2074-9104, DOI: 10.5815/ijcnis.2023.06.02 (Scopus)</p>
<p>23</p>	<p>December 19, 2023: Dr. Veena M.B, Associate Professor, Mr <u>Rohan Deodurg</u>, Mr. <u>V Shrinidhi</u>, and Ms <u>S Soundarya</u> M.Tech Students, Department of Electronics and Communication Engineering presented a paper titled 'Design of Optimized CNN for Image Processing using Verilog' in 4th IEEE Global conference for advancement in Technology on 6-8 Oct. 2023, Published in IEEE Xplore on 19th Dec 2023 DOI: 10.1109/GCAT59970.2023.10353422.</p>