



St. MARTIN'S ENGINEERING COLLEGE

UGC Autonomous
NBA & NAAC A+ Accredited
Dhulapally, Secunderabad – 500100



PULSE

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

NEWSLETTER

Volume 1 | Issue 2 | December 2022

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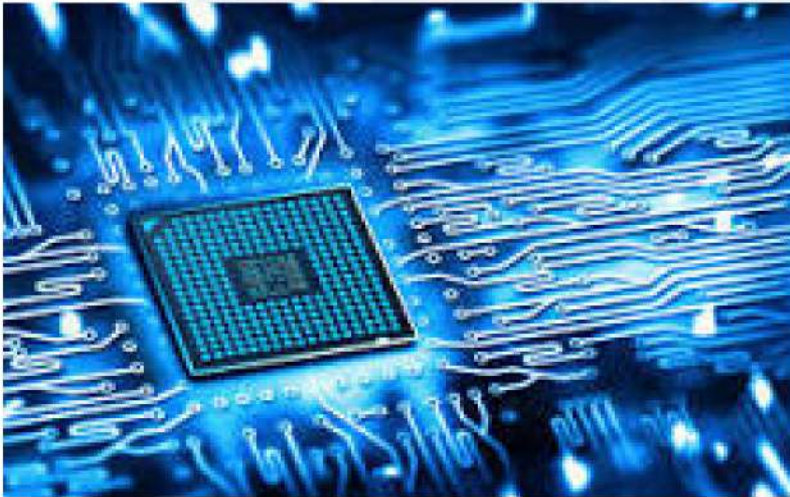
BOARD MEMBERS

36-38

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Department Vision

To develop a centre of excellence for imparting high quality education in Electronics and Communication Engineering to produce technically competent, innovative and socially responsible professionals to meet global challenges.



Department Mission

M1: To impart knowledge in a way that caters to the needs of the present and emerging technological world.

M2: To turnout competent professionals trained in design and development of hardware and software based products.

M3: To infuse sense of ethics and social responsibility among the students.

About the Department

Electronics and Communication Engineering, the evergreen and always blooming field of study was established in the academic year 2002-03 with an intake of 60 and the intake increased to 90 in 2004, 120 in 2005, 180 in 2012 and 240 in 2015-16 till date. We are technologically updated and follow the strict curriculum provided by JNTUH to impart a standard education to our students. There are 53 well qualified and trained faculty from various reputed universities and institutions. Currently there are 6 Professors, 10 Associate Professors, and 37 Assistant Professors in the department who nurture the students with both theoretical and practical knowledge. The Department is accredited by NBA three times since 2008.



To impart quality technical education the department has the state of art facilities/ laboratories which are well equipped and furnished with latest editions of equipment's and software as per the curriculum followed. which form the basis and provide the right platform to carry out research work. Laboratories used are

- Electronic Devices Lab
- Basic Simulation/Digital Signal Processing Lab
- Digital System Design Lab
- Microprocessors and Microcontrollers Lab
- Microwave Lab
- Analog and Digital Communications Lab
- VLSI and E-CAD Lab
- Electronic Circuit Analysis Lab
- ICA Lab



Message from the Principal Sir



Dr. P. Santosh Kumar Patra
Principal, SMEC

Dear All,

Greetings from St. Martin's Engineering College,

It gives me an immense pleasure to share the insight of Electronics and Communication Department. The department of ECE has opened their lock by creating a news letter called PULSE. The second edition of PULSE take us to the tour of ECE department by highlighting significant activities carried out by faculties, students & alumni in areas of academics, research, sports and cultural.

Department has organized International Conferences, FDPs, Workshops, Guest Lectures, Seminars and industrial visits throughout the year to enhance the overall technical knowledge of the students. Co-curricular and extra-curricular activities like Swayamkrushi, Helping hands, Sports, NCC has groomed students skills and connected them to the outside world with confidence. Faculties have contributed their knowledge in research by presenting papers Internationally, Patents and Books.

I wish these efforts will definitely enrich our environment with academic diligence. I wish all the best for the academic, research and developmental activities in the department to achieve greater heights. I appreciate the efforts put in by editorial and design board of Electronics and Communication Engineering department to bring out the news Letter PULSE. My best wishes to the department for the future endeavors.

Message from Head of the Department :



Dr . B. Hari Krishna
(Professor & HOD)

Warm greetings!! I am happy to release this year's second issue of department newsletter. There are many updates to share with respect to the department activities, staff and student achievements, and placements details etc., happened during the last one year. Department of Electronics and Communication Engineering has always been striving to keep itself ahead of the competition. I am very happy to inform that our department having 150% placements (every one having more than two offers). Last year more than 20 events organized by our department to develop technical skills to students and faculty. This news letter will carry all our achievements and colourful memory for our department.

Message from DEAN ACADEMICS:

I am happy to know that our ECE department bringing out Newsletter, **PULSE** which highlights the academic activities, achievements, contributions of faculty and students. I congratulate HOD ECE and his team for their initiative and wish them grand success.



Dr. SVS. Rama Krishnam Raju,
(DEAN Academics)

Message from DEAN R&D :



Dr. Sanjay Kumar Suman,
(DEAN R&D)

It is indeed a pleasure to note that the Dept of ECE is bringing out a newsletter, PULSE, highlighting the academic, co-curricular, extra curricular and R&D achievement of the students and faculty members. At the outset, I congratulate the team behind this activity for the meticulous work they have undertaken.

Best Wishes

Message from Faculty:

I am extremely delighted to be associated with the department newsletter PULSE, which highlights all the department inter and intra curricular activities this will benefit all the students as they can now be aspired for greater heights, by viewing about their departments achievements. This will also foster professional and social networking from time to time. I congratulate the team pulse for undertaking this tremendous work.



Mr. S. Ravi Kumar
(Associate Professor)

Message from Alumni :



Mr. Chintala Uneendra
(Alumni)

Hello Everyone , I am Chintala Uneendra working in Infosys Limited Company as a Specialist programmer. This was my dream to achieve Specialist Programmer Role when I was in the 3rd year , now i achieved my dream and the reason behind this is the knowledge I gained at SMEC.

SMEC not only gives you academic knowledge but also the non academic knowledge like Soft Skills , Communication Skills which are very essential to crack any interview. It was a great experience to pursue my bachelors at SMEC, which is the only college with 100% placements history. Iam very happy to be a part of this organization and I thank our beloved Principal Sir , St. Martin's management and to my faculty for guiding and supporting me in my career.

Governor Award

Our collage has been facilitated and appreciated by Honorable Governor of Telangana Dr. Tamilsai Soundararajan for the 4th time in active participation in the social activities regularly.



Happiness Award

AICTE Award goes to St. Martin's Engineering College



"Life is a memorable journey that is meant to be experienced to the fullest every day by making every moment an opportunity to learn and spread love and happiness." St. Martin's Engineering College believes that every student must learn about the purpose and significance of education through focusing on their mental and physical well-being as well as spiritual strength. The happiness of our youth in institutions of education is directly linked to spirituality, health and comprehensive well-being. The empowered youth can take a vital part in making our nation the empowered country. National Happiness Unicorn Awards is a commendable initiative in this direction. YOL (YourOneLife) is officially recognized by AICTE as the happiness ranking partner and evaluator of Happiness in all Higher-Ed colleges in India affiliated to AICTE. On Sunday 21st August 2022, followed by the Heartfulness Meditation with Kamlesh D Patel, the current Heartfulness Guide, known as Daaji, Heartfulness Education Trust hosted a program at Kanha Shanti Vanam in collaboration with All India Council of Technical Education and YourOneLife. National Happiness Unicorn Awards to various Universities were given and Heartfulness Global Essay Event was also launched as part of this program. 22 Colleges and Universities have been offered the awards at national level and SMEC is one among them. The Programme was attended by Smt Kalvakuntla Kavitha garu, honourable MLC of Nizamabad. T.S.State. On this auspicious occasion, the recipient of National Happiness Unicorn Award. Principal, Dr.P. Santosh Kumar Patra sir conveyed his happiness. and congratulated the team SMEC. Chairman. Sri Marri Laxman Reddy garu was felicitated during the Programme. Executive Director St. G. Chandrasekhar Yadav garu expressed his delightness on receiving the prestigious award and he also expected that SMEC would receive more achievements in future too.

Patent Granted(Faculty) :

Dr. P . Joel Josephson invented "Smart Device to Monitor The Construction Materials Managed and Self-Phased Ordering of Building Materials" Indian patent Number-202241051171A (Awarded in the month of September 2022) Patentee : **Status :Granted .**

Dr. P . Joel Josephson invented "A Hybrid digital image processing Techniques for Object Detection from Complex Background Image" Indian Patent Number _202241013549A (Awarded in the month of June, 2022) Patentee : **Status :Granted .**

List of patents granted :

S. No.	Patent FilingNo.	PATENT TITLE	DoF
1.	202241062209	REAL TIME MONITORING OF WATER QUALITY IN IOT ENVIRONMENT	01-11-2022
2.	202241062210	VEHICLE COLLISION AVOID ANCE USING V2V AND V2I PROTOCOLS IN VEHICLE ADHOC NETWORK	01-11-2022
3.	202241062219	VENTILATOR USING ARDUINO WITH BLOOD OXYGEN SENSOR FOR COVID PATIENTS	01-11-2022
4.	202241062211	AN EFFECTIVE ROAD ANOMALY DETECTION WITH SELF SUPERVISED LABEL GENERATION	01-11-2022
5.	202241062189	HANDGESTURE CONTROLLEDROBOUSINGRASPBERRYPI	01-11-2022
6.	202241062194	SEMANTIC SEGMENTATION OF BRAIN TUMOR FROM MRI IMAGE AND CNN CLASSIFICATION USING GLCM FEATURE	01-11-2022
7.	202241062195	PERSON ACTION RECOGNITION ON FACE USING YOLOV3 FAMILY AND TEXTURE FEATURES	01-11-2022
8.	202241062202	VIRTUAL TRIAL ROOM IMPLEMENTATION USING PYTHON	01-11-2022
9.	202241062190	SPEAKING EYE FOR THE BLIND	01-11-2022
10.	202241062196	PREDICTING FLOODS USING MACHINE LEARNING	01-11-2022
11.	202241062186	THIRD GENERATION ATM MACHINE USING ADVANCED COMPUTER VISION TECHNIQUES	01-11-2022

Patent Granted(Faculty) :

S. No.	Patent FilingNo.	PATENT TITLE	DoF
12.	202241062200	ARTIFICIAL INTELLIGENCE FRAMEWORK FOR SKIN CANCER DETECTION AND CLASSIFICATION	01-11-2022
13.	202241062184	RFIDBASEDSMARTSHOPPING TROLLEY FORAUTOBILLING SYSTEM	01-11-2022
14.	202241062192	SEGMENTATIONOFWHITEBLOODCELLSFROMACUTE LYMPHOBLASTICLEUKAEMIA IMAGES USINGDUAL THRESH	01-11-2022
15.	202241062193	ANDROID MALWAREDETECTION USINGMACHINE LEARNING APPROACH	01-11-2022
16.	202241062201	DETECTION ANDCLASSIFICATIONOFCOVID-19 CASESUSING CNNWITHX-RAYSFIGURES INMATLAB	01-11-2022
17.	202241062185	REALTIMEVEHICLE DETECTIONWITHVIDEOTAKENFROM UNMANNEDAIRVEHICLE INCRITICAL AREAS	01-11-2022
18.	202241062167	INTERNET OFTHINGS CUSTOMIZEDHEALTH CARE SYSTEM	01-11-2022
19.	202241062171	IOTBASEDSURVEILLANCEROBOTWITHLIVESTREAMING	01-11-2022
20.	202241062166	EARTHQUAKEANDHAZARDOUS GASESDETECTION IN COALMINESUSINGIOT	01-11-2022
21.	202241062178	INTELLIGENT IOTIRRIGATIONSYSTEM	01-11-2022
22.	202241062170	ARTIFICIAL INTELLIGENCE TOOLFORCHESTX-RAYCLASSIFICATION	01-11-2022
23.	202241062177	DESIGN AND IMPLEMENTATION OF ANTI THEFT ATM MACHINE USING IOT TECHNOLOGY	01-11-2022

Funded Research & Consultancy Projects Sanctioned

St. Martin's Engineering College has received Award of Work order to the Lab Training Partner for Rangareddy District of Telangana on providing services for "Employment/Self-employment Capacity building of the Engineering pass-out students belonging to Scheduled Caste/Scheduled Tribe community" project in the campus.



राष्ट्रीय इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी संस्थान (रा.इ.सू.प्रौ.सं)
NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY (NIELIT)
 (इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार की स्वायत्त वैज्ञानिक संस्था)
 An Autonomous Scientific Society of Ministry of Electronics & Information Technology (MeitY), Government of India



रा.इ.सू.प्रौ.सं
NIELIT

CHENNAI CENTRE / चेन्नई केंद्र

No: 11/31/2022/CHN/PRJ-ITM-TL / 138 Date: 07th July 2022

M/s St. Martin's Engineering College,
 Sy No: 98 & 100, Dhulapally Road, Dhullapally,
 Near Komapally, Secunderabad,
 Telangana-500100.

Sub: Award of Work order to the Lab Training Partner for Rangareddy District of Telangana on providing services for "Employment/Self-employment Capacity building of the Engineering pass-out students belonging to Scheduled Caste/Scheduled Tribe community" project in your campus.

Ref: Your response to our EoI enquiry no. 11/31/2022/CHN/PRJ-ITM-TL

With reference to the subject mentioned above, we are pleased to inform that **M/S ST. MARTIN'S ENGINEERING COLLEGE, RANGAREDDY**, is identified as Lab Training Partner(LTP) to provide services for students belonging to Scheduled Caste/Scheduled Tribe community of Telangana for 60 (Sixty) Candidates with 20 candidates in each of the three said courses at your campus under the "Employment/Self-employment Capacity building of the Engineering pass-out students belonging to Scheduled Caste/Scheduled Tribe community" project as per the terms and conditions given in annexure I.

If the terms and conditions of the EoI and the work order are acceptable to you, you are requested to sign the agreement indicating detailed terms and conditions given in annexure II on stamp paper of Rs.100 within 10 working days from the date of receipt of this work order and comply with conditions indicated thereon.

Kindly acknowledge the receipt of this communication and confirm your acceptance.

Thanking You.

Yours faithfully

 (Shoukath Cherkat)
 Group Head - A & F

आइ.एस.टी.ई.ओ.एम्.सेस, 25, गंधी मण्डपम रोड, (अन्ना सेंटेनरी पुस्तकालय के सामने) चेन्नई - 600 025.
 ISTE Complex, 25, Gandhi Mandapam Road, (Opp. Anna Centenary Library), Chennai - 600025.
 दूरभाष / Phone : 044-24421445 / 46 वेबसाइट / Website : www.nielit.gov.in/chennai
 ✉ chennai@nielit.gov.in 🐦 @CHN_NIELIT
 HQ : New Delhi | वेबसाइट / Website : www.nielit.gov.in

Awards/Recognitions (Faculty) :



Mr.K.Balasubramanyam
(Assistant Professor)

Top ranking in NPTEL course: **Kalangi Balasubramanyam** (22CS100S63693848) successfully completed NPTEL online course at the SWAYAM platform, Jul-Oct 2022. Course : **"Operating System Fundamentals"**



Top ranking in NPTEL course: **DR. M Thirupathi**(22GE29S33694304) successfully completed NPTEL online course at the SWAYAM platform, Jul-Oct 2022. Course : **"Fundamentals of Artificial Intelligence"**



Dr. M. Thirupathi
(Professor)



Dr. A. Chaithanya Krishna
(Professor)

DR. A. Chaithanya Krishna has qualified **UGC NET (TL01500858)** in Dec 2021 - June 2022.



MoU Agreement :



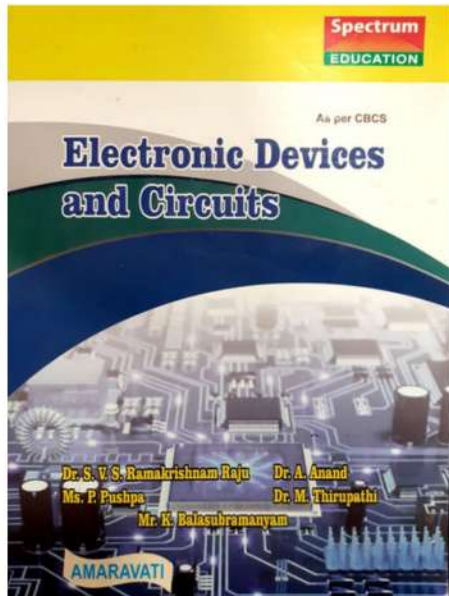
SAK INFORMATICS

Student@knowledge

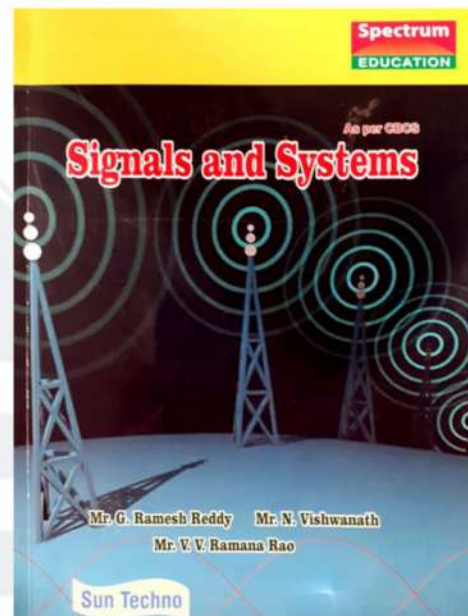
SAK Informatics was established in 2012 year for Course Designing, Training, and placement guidance. SAK Informatics is one of the best Web Designing and Digital Marketing companies in Hyderabad offering complete and comprehensive solutions for Custom Web Application Development, Mobile Application Development, E Commerce Sites, Content Management, Search Engine Optimization and Search Engine Management. In this age of globalization, no business or purpose could achieve its desired success unless it has a strong presence on World Wide Web or Internet. In SAK Informatics, we take special care of creating high quality websites and mobile apps that reflect the values and core principles of your organization and help you to reach your target audience & achieve your business goals. Our Ecommerce solution provides your business the push hat it requires to flourish. To get direction Best Web Design Company in Hyderabad

SAK Informatics is Based at Hyderabad, we offer high application oriented training. SAK Informatics providers Training and Projects in Embedded systems, Power systems, Power Electronics, Electronic Drivers, Machines, DSP/DIP, VLSI, Data warehousing, .Net, C#, Java/J2EE and Linux as well as develops its own range of quality Embedded products. SAK Informatics has successfully powered itself in training thousands of students and professionals. The teaching philosophy deployed strives to create in-depth knowledge about the subject at hand. We believe that depth is an essential ingredient to achieve heights in training and development. Students from SAK Informatics have proved the point by their work in the fast paced industry world.

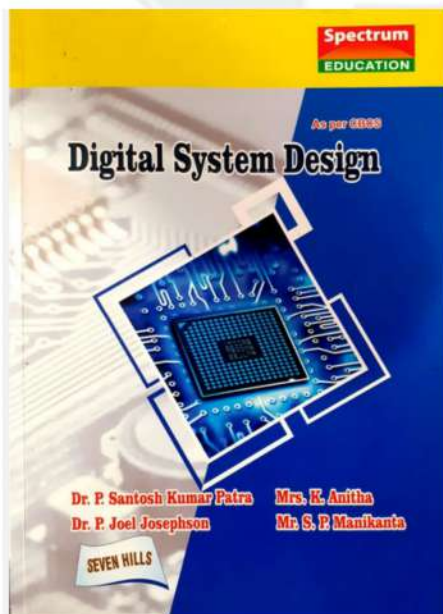
Book Publications (Faculty)



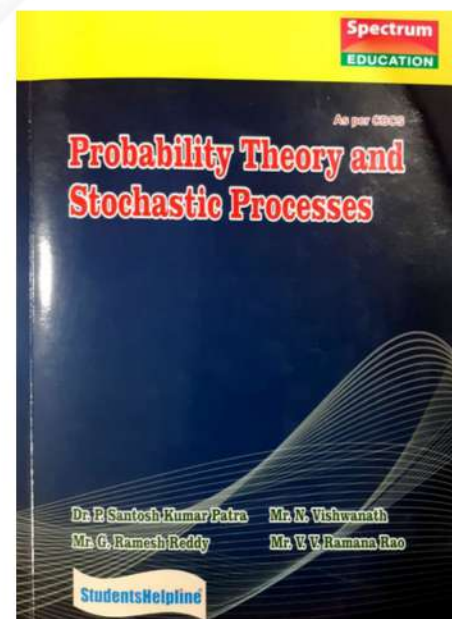
Dr. S.V. S. Ramakrishna Raju
Dr. A. Anand
Ms. P. Pushpa
Dr. M. Thirupathi
Mr. K. Balasubramanyam



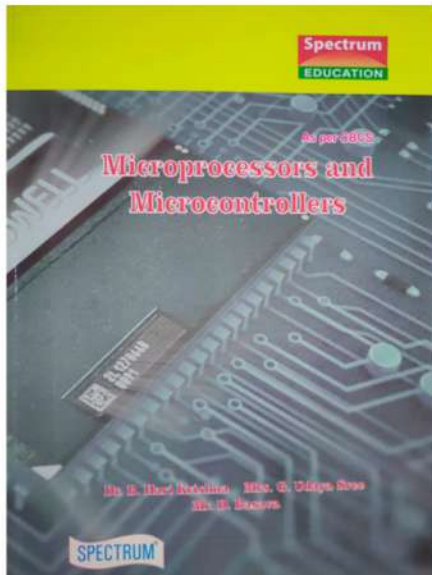
Mr. G. Ramesh Reddy
Mr. N. Vishwanath
Mr. V. V. Ramana Rao



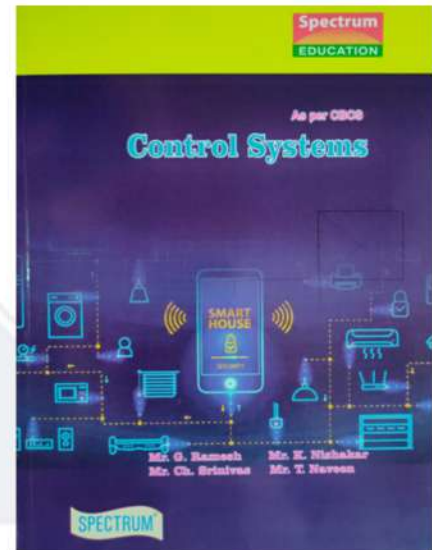
Dr. P. Santosh Kumar Patra
Dr. P. Joel Josephson
Mrs. K. Anitha
Mr. S. P. Manikanta



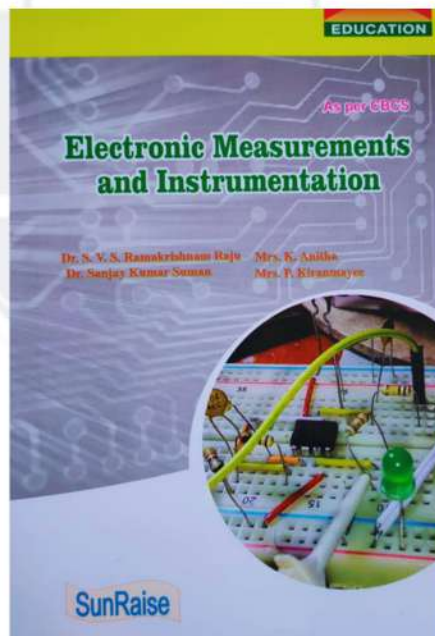
Dr. P. Santosh Kumar Patra
Mr. N. Vishwanath
Mr. G. Ramesh Reddy
Mr. V. V. Ramana Rao



**DR.B.Harikrishna
Mrs.Udaya Sree
Mr.D.Basava**



**Mr.G.Ramesh
Mr.K.Nishakar
Mr.Ch.Srinivas
Mr.T.Naveen**



**Dr.S.V.S. Ramakrishna Raju
Dr.Sanjay Kumar Suman
Mrs.K.Anitha
Mrs.P.Kiranmyee**

Paper Publications [Faculty]



1	Dr. A Chaitanya Krishna	Improved Spotted Hyena Algorithm with Seagull Optimization Algorithm Based Adaptive Deep Convolution Neural Networks for Human Activity Recognition	Journal of optical communication and networking	SCI
2	Dr. M Thirupathi	Optimal floor planning in VLSI using improved Meta-Heuristic Optimized Model	Journal of optical communication and networking	SCI
3	Dr.P Joel Josephson	Optimization based feature selection approach for EEG Signal Classification	Computational Intelligence and Nueroscience	SCI
4	Mr.Balasubramaniam	Machine learning based Predicting the Assisted Living Care Needs.	IEEE Xplore	Scopus
5	Mr.N Vishwanath	Optical Character Recognition based on Nueral Networks	IEEE Xplore	Scopus

6	Ms. P Pushpa	Early stage timing prediction in SoC Physical Design using Machine Learning	IEEE Xplore	Scopus
7	Mr.S P Manikanta	Normalized Algorithm with Image Processing Methods for Estimation of Crack Length	IEEE Conference Indexed	Scopus
8	Mr.Manikesh Jha	Smart Grid using Power Internet of things Architecture	IEEE Xplore	Scopus
9	Mr.Poshamalla	Internet of things based smrt home security analysis system	IEEE Xplore	Scopus
10	Mrs.G LaxmiPriyanka	Detailed analysis of machine learning and deep learning technologies for web security	IEEE Xplore	Scopus
11	Dr. G Ramesh Reddy	Virtual Teaching Learning Practice and its Impact on Technical Courses during COVID-19: A Post Pandemic Study	Baltic Journal of Law and Politics	Scopus
12	Mr.P Pavan Kumar	The Development of the Multi-Layer Security Network Authentication System using Block chain Technology	IEEE Xplore	Scopus
13	Mr.K Naga Venkateswara Rao	A Framework of Artificial Intelligence for the Manufacturing and Image Classification System	IEEE Xplore	Scopus
14	Me. G Sanjeev	Optimization Cooperative Sensing in Cognitive Radio Networks: A Sensing- Throughput	IEEE Xplore	Scopus
15	Mrs.P Kiranmayee	A new PSO based Channel Allocation Scheme System for managing interference in 5G and higher level Wireless Communication Systems	IEEE Xplore	Scopus
16	Mr.CHVenkateswarlu	Cryptanalysis of Internet of Things (IOT) Wireless Technology using lattice based open source public key NTRU cryptosystem	IEEE Xplore	Scopus
17	Mr. Chandan Kumar Roy	Design and Development of Health care system using deep learning techniques	IEEE Xplore	Scopus

18	Mrs.Sunita Arvind Rathode	A framework of Ssecurity attacks, issues classifications and configuration strategy for IoT networks for the succesful impleentation	IEEE Xplore	Scopus
19	Mrs.UdayaReddy	A Critical Review on how the techniques, strategy, validation, default are managed in harmful threads detection process in the internet of things network	IEEE Xplore	Scopus
20	Mr.D Thirupathi	Multiclass classification-based Industrial Internet of things threat detection systems	IEEE Xpolre	Scopus
21	Mr.D Basava	Implementation of machine Learning based Trust management system in social internet of Things	IEEE Xpolre	Scopus
22	Mr.S Ravi Kumar	Emperical Analysis of Machine Learning for Big data and its Applications using CNN	Taylor and Francis	Scopus
23	Mr.K Nishakar	Use of Blockchain technologies against cyber security threats and increase IT industry security	Taylor and Francis	Scopus
24	Mrs.G Shiva Kumari	Developing Future Wireless communication networks using IoT	Taylor and Francis	Scopus
25	Mr.Gabbeta Ramesh	Artificial Intelligence in Computer Network technology in the Big Data Era	IEEE Xplore	Scopus
26	Mr.M Venkanna	A detailed investigation of Artificial Intelligence in economic growth and development of emerging economies	Taylor and Francis	Scopus
27	Mr.Rajeshwar	Examinig Cybersecurity curricular frameworks for business schools using Artificial Intelligence	Taylor and Francis	Scopus
28	Mr.B Dasu	Approach based on Machine Learning Algorithms to predict people's ointention to use Mobile Learning Platforms	Taylor and Francis	Scopus
29	Mr.M Govind Raj	Machine Learning Approach for object detection in Video	IEEE Xpolre	Scopus
30	Mrs.Divya Vani	A Survey on Cognitive Radio Network using FUZZY ARAS MCDM Method	IEEE Xpolre	Scopus

ACTIVITIES CORNER

Teachers Day Awards



Dr. B. Hari Krishna (Professor & HOD) received momento as a token of appreciation from our chairman **Sri. M. Laxman Reddy Garu** and our principal **Dr. P. Santosh Kumar Patra**.

Dr. M. Thirupathi was awarded the title of "**THE GO GETTER TEACHER**" for excelling in his qualification exams.



Mr. S.P. MANIKANTA was awarded the title of "**HUMBLEBRAG**" for responding to 100% posts on social media and "**DECENNIAL**" for successfully completing 10 years in the institution.

Mrs. K. ANITHA was awarded the title of "**QUINQUENNIAL**" for successfully completing 8 years in the institution.



Ms. P. PUSHPA was awarded the title of "**THE MOST UPGRADED TEACHER**" for securing highest percentage in certification course.

Mrs. G. UDAYA SREE was awarded the title of "**THE PROLIFIC WRITER**".



ACTIVITIES CORNER

Teachers Day Awards

Dr. A. CHAITANYAKRISHNA was awarded the title of "**THIRST FOR KNOWLEDGE TEACHER**" and "**THE INVENTOR TEACHER**".



Dr. P. JOEL JOSEPHSON was awarded the title of "**THIRST FOR KNOWLEDGE TEACHER**" and "**THE INVENTOR TEACHER**".

Mr. G. RAMESH REDDY was awarded the title of "**DECENNIAL**" for successfully completing 10 years in the institution and "**THE MOST UPGRADED TEACHER**".



Mr. M. VENKANNA was awarded the title of "**DECENNIAL**" for successfully completing 15 years in the institution.

Mr. S. RAVI KUMAR was awarded the title of "**DECENNIAL**" for successfully completing 13 years in the institution.



Mr. K. NISHAKAR was awarded the title of "**QUINQUENNIAL**" for successfully completing 9.9 years in the institution.

A National Level Two-Day FDP on “5G Antenna Design with AIML Applications using HFSS”

The Faculty Development Program on "5G Antenna Design with AIML Applications using HFSS" was hosted by the Department of Electronics and Communication Engineering. This FDP aims on providing the recent advancements in Antennas with different parameters and providing hands-on experience on HFSS Software, thereby enhancing the skills of faculty and students. Each session is enriched with the well experienced resource persons who has great skill set in Antenna Design and applications. The following topics are focused in the FDP. The characteristics of Antennas, the Artificial Magnetic Conductor for Antenna The Program was Initiated by Principal Dr. P. Santosh Kumar Patra. Sir has explained how the Antennas are the main source of communication in sending and receiving the information from the satellites.



Glimpses of the Event

The two-day FDP i.e., on 27-05-2022 & 28-05-2022 was organized in two sessions per day. The Inaugural session started at 10:00 AM by congratulating all the participants with a motivational speech. Later the Session — 1 was started by the Resource Person Dr. S. Pedda Krishna Professor, VIT-AP, Amaravathi. He delivered a wonderful session on Designing and Implementation of 5G Antenna which should be having high data speeds with the different type of bands, the Sub-6 GHz bands which is very similar to 4G, where the frequencies transmitted from cell phone towers are below 6GHz. The other mm Wave (millimeter wave, above 24GHz) having the high-frequency bands. Where these high frequencies have very larger bandwidths, used for keeping everyone connected in busy environments.

As the aim of the workshop was to create opportunity to academicians, research scholars to learn and implement their research and all the participants could learn the concepts of Designing a 5G Antenna from 10:30 AM to 12:30 PM. It is followed by the session II from 1:30 PM to 3:30 PM by Dr. Jayendra Kumar, Professor, VIT-AP, Amaravathi. Sir gave a very good explanation of implementing the Antennas like Microstrip Antenna etc., with the help of HFSS Software, the session was very interesting.

Events organized by the department

A ONE DAY ONLINE SEMINAR ON DIGITAL DESIGN USING VHDL

A One Day Online Seminar on "Digital Design using VHDL" was hosted by the Departments of Electronics and Communication Engineering aims to provide a knowledge to all the leading academic scientist, researchers, Professors and students to learn about the design and coding techniques on the most widely used platform of VHDL applications which has been a common and volatile platform. This Seminar provided an inter disciplinary platform for students to how to analyze the digital circuits using VHDL. The Program was Initiated by Convenor Dr. B. Harikrishna, Prof. & HOD, ECE. During his address note, Hod Sir emphasized the importance of coding in all the domains irrespective of the studies and branches of education. Later the event was corresponded by eminent Resource person, Dr. Sanjeev Sharma, Professor & Dean, Quality assurance and skill development centre, New Horizon College of Engineering, Bangalore. Around 300+ Students participated in the program.



Glimpses of the Event

The One day Seminar on 27-06-2022 was organized in one session. The Inaugural session started at 10:00 AM by congratulating all the participants with a motivational speech followed by Seminar proceeding inauguration by the Patron Dr P. Santosh Kumar Patra, Principal, SMEC. Later a wonderful session enthusiastically started at 10.20 AM by Dr. Sanjeev Sharma, Professor & Dean, Quality assurance and skill development centre gave us a detailed explanation of design cycle of VHDL. He explained the architectural organization of 1-bit ALU by optimizing the circuit. He also told that it is important to redesign the circuit along with coding. The synthesis and simulation for 1 bit ALU is explained very clearly by him till 12:00 PM. Later he has showed the simulation result after reduction.



The vote of thanks was given by Dr. S. Ravi Kumar Prof., ECE thanking the resource person Dr. Sanjeev Sharma. The feedback is collected from all the participants through google form. The response and experiences feedback were excellent from the participants and are interested to be the part of the event in the future.



A Two day workshop for 1st year students on "Arduino & IoT for beginners"

A Two day workshop was conducted for 1st year ECE students where basic knowledge on Arduino and IoT was shared with hands on experience.





ST. MARTIN'S ENGINEERING COLLEGE
 UGC Autonomous
A Non-Minority College Approved by AICTE, Affiliated to JYUET, Hyderabad/NAAC Accredited 'A' Grade/ ISO & ISO 9001:2008 Certified/ NBA Accredited (2018-2021) (A) (C) - Program Accredited (2018-2021) (A) (C) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)



Department of Electronics and Communication Engineering

INVITATION

We cordially invite you to the One Day Workshop
 On
"Arduino & IoT for beginners"
 On
 9th September, 2022 at 10:00 AM (Friday)

Chief Guest



Mr. Guru Thalluri
 Technical Lead, Embedded Systems
 AK Informatics, Hyderabad
Presidential Address



Dr. P. Santosh Kumar Patra
 Principal, St. Martin's Engineering College

Organizers: **Convener**
 CH Venkateswarlu, Dr. D. Ranadheer Reddy
 G. Udaya Sri
 Sunita Arvind Rathod
 Prof & HOD, ECE Dept.

Prof & HOD, S&H Dept.
 Dr. B. Hari Krishna






Industrial Visit I

The Department of Electronics and Communication Engineering has organized an industrial visit on 8th November 2022 to LEDchip Indus Private. Limited for the 3rd year B.Tech Students. The visit was organized with prior permission and guidance of our beloved Principal, Dr.P.Santosh Kumar Patra Sir and ,Dr.B. Hari Krishna, HOD ECE. Mr.S.P.Manikanta is the coordinator and Mrs. K. Anitha, Mr. B. Dasu and Mr.K. Bala Subramanyam are the co-organizers of this industrial visit.

After reaching the industry, the students were taken to the manufacturing unit and the demonstrator explained the process of manufacturing the LEDs. This explanation helped the students to gain the practical knowledge on LEDs.



Students gained the following benefits from this industrial visit :

- Making semiconductor wafers.
- Adding epitaxial layers.
- Adding metal contacts.
- Mounting and Packaging.
- Sealing the material
- Testing-sorting-packing techniques



Industrial Visit II

The Department of Electronics and Communication Engineering has organized an industrial visit on 11th November 2022 to INDUSTRIAL VISIT TO CSIR-NGRI, HYDERABAD for the 3rd year B.Tech Students. The visit was organized with prior permission and guidance of our beloved Principal, Dr.P.Santosh Kumar Patra Sir and ,Dr.B. Hari Krishna, HOD ECE. After reaching the industry, the students were taken to the manufacturing unit and the demonstrator explained the process of Ground Level Management and Sesimographic Lab



Students gained the following benefits from this industrial visit :

- Primary wave (P-wave) seismic refraction
- Magnetics.
- Very-low- frequency electromagnetic
- Inductive electromagnetic terrain conductivity
- Two-dimensional direct-current electrical resistivity



Principle scientist Dr.vijaykumar interacting with our students

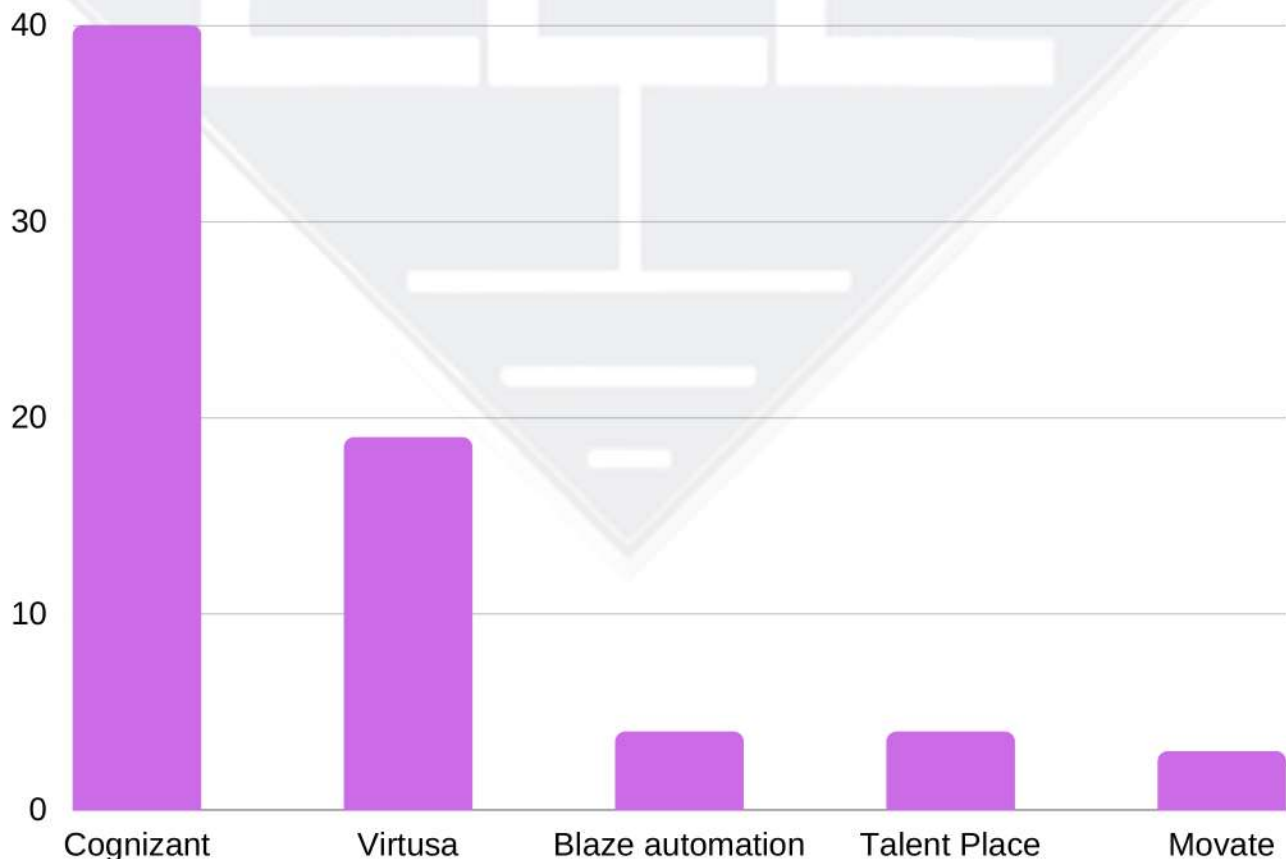
STUDENTS CORNER

Placement Details

The Campus placement cycle of 2023 Batch started in June 2022. As of November 2022, 77 offers were secured by the B-Tech students during the campus placement cycle. A total of 240 B-Tech students enrolled for the campus placement. The highest package provided by the companies is 6 LPA and a average package of around 4 LPA.



Blaze Automation Services (P) Ltd



Shinning Stars of ECE Department

Heartiest Congratulations to the following students for getting placed in VIRTUSA with a Package of 5.50 LPA



A.ABHISHEK
19K81A0404



A.ABHISHEK
19K81A0405



CH.CHANDRA MOULI
19K81A0410



ABHINAY KUMAR REDDY
19K81A0435



B.ANIL KUMAR
19K81A0468



D.NIHARIKA
19K81A0472



K.BHARATH KUMAR
19K81A0481



M.GAYATHRI REDDY
19K81A0489



M.NAVANEETHA
19K81A0493



AMULYA PAILLA
19K81A04A0



E.S.ANASURYA
19K81A04D0



G. SAI AKANKSHA
19K81A04D1

Heartiest Congratulations to the following students for getting placed in VIRTUSA with a Package of 5.50 LPA



THUPAKULA PRANAY

19K81A04H5



Y.LIKITHA DEVI

19K81A04J0



RAKESH BHUPATHI

19K81A04J5



K.LAKSHMI DEEPIKA

19K81A04K7



TARUN REDDY NALLA

19K81A04M5



PALNATI PAVAN KUMAR

20K85A0406



SRI LEKHA BURUGUPALLY

20K85A0429

Sports

St. Martin's Football team has secured 1st place at Padma Bhushan Dr. B.V. Raju memorial state level tournament conducted by BVRIT at its 25th anniversary on 12th - 13th of October 2022



St. Martin's volleyball team has secured 2nd place at national level inter engineering collage sports fest "AURA" conducted by Chaitanya Bharathi Institute of Technology on 4th - 6th of November 2022

సెయింట్ మార్టిన్ ఇంజనీరింగ్ విద్యార్థుల ప్రతిభ



జాతీయస్థాయిలో ప్రతిభ కనబర్చిన క్రీడాకారులను అభినందిస్తున్న కళాశాల ప్రెసిసిపాల్ డా.సంతోష్ కుమార్

కుత్బుల్లాపూర్, నవంబర్ 7 : దూలపల్లి సెయింట్ మార్టిన్ ఇంజనీరింగ్ విద్యార్థులు వాలీబాల్ పోటీల్లో జాతీయస్థాయిలో ప్రతిభ కనబర్చారు. ఈ నెల 5, 6 తేదీల్లో సీబీఐటీలో నిర్వహించిన జాతీయ స్థాయి స్పోర్ట్స్ ఫెస్ట్లో 24 జట్లు పాల్గొన్నాయి. వీటిలో సెయింట్ మార్టిన్ కళాశాలకు చెందిన జట్టు రన్నర్ ఆఫ్ ట్రోఫీని గెలుచుకొని జాతీయస్థాయిలో ఎంపికైంది. ఈ సందర్భంగా కళాశాల చైర్మన్ మర్రి లక్ష్మణ్ రెడ్డి, ఎగ్జిక్యూటివ్ డైరెక్టర్ చంద్రశేఖర్ యాదవ్, ప్రెసిసిపాల్ డా. సంతోష్ కుమార్ పాత్రలు విజేతలను అభినందించి ప్రోత్సహించారు.

Helping Hands



St. MARTIN'S ENGINEERING COLLEGE
An Autonomous Institute
NBA & NAAC A+ ACCREDITED
Dhulapally, Secunderabad-500100.





HELPING HANDS ORGANISATION
TOGETHER WE CAN!



Plants are free
Pot cost: ₹150/-

HARITHA HARAM 2K22
Free Distribution of Plants
05-08-2022 to 31-08-2022



Bookings Open for Ganesh
Ganesh Idols cost

Size	Price
8"	₹150/-
10"	₹200/-
12"	₹250/-

CONTACT : 8897729204
Collection of funds will be donated at laalana Welfare Organisation, Nagole (Orphanage Age)



Pay /  :7997870028



HELPING HANDS

Helping hands was initiated in our college in the year 2016 by Shaik Ilyas from the Civil department

We have conducted 3 events recently

- Plant donation
- Food distribution at Abhi Sai Datta trust
- Fund raiser through idol distribution

Instagram:- hh_organisation

Email: helpinghandsorganization22@gmail.com



Street Cause

“STREET CAUSE INDUCTION PROGRAM” was organized by Street Cause SMEC which was founded on 2017, it was an inception of Board members of STREET CAUSE, St. MARTIN’S ENGINEERING COLLEGE and the college has been the home of Street Cause for 5 years and continues to be and this was only possible due to the principal of our college Dr. P. Santosh Kumar Patra sir, whose constant support and encouragement has always been the driving force for us and through his help we are able to organize various NGO related events.



With the encouragement of our principal sir Dr. P. Santosh Kumar Patra and the management of our college, the STREET CAUSE was able to organize Street Cause Induction Program and Award distribution ceremony for the dedicated coordinators of Street Cause-SMEC. A total of 60 members had participated in this event to contribute to its great success, in which 40 students are new coordinators of Street cause, 11 are Board members of Street Cause from St. Martin’s Engineering College and 10 were alumni. The event was organized on 12th November 2022 from 11:00 AM to 03:50 PM.



IEEE Swayamkrushi

SWAYAMKRUSHI-2022” a National Level Entrepreneurship Development Event which is going to be held on 25th JUNE 2022 in our college.

This event is organized by the IEEE Student Branch of St. Martin’s Engineering College.

It is a non-technical event whose main motive is to provide ideology of entrepreneurship and cultivating towards the self sustain and encourage students to enhance their Entrepreneurship skills by providing them a similar platform which can simulate the real world marketing experience to them.

The module of the event is organized in such a way that the student participants are allotted a stall with a tent/canopy, tables and electricity and are instructed to start their business. This event is organized for one day and participants are expected to gain as much as profit and experience possible.

St. MARTIN'S ENGINEERING COLLEGE
UGC AUTONOMOUS

MAAC

Presents
A National Level Entrepreneurship Development Event
SWAYAMKRUSHI-2022
To be your own boss...

EVENTS
Market Mario
Catchphrase Quiz
Product Marketing

EVENT DATE:
25th June 2022
VENUE:
St. Martin's Engineering College

Registration Fee
Rs.2000/- per team
TEAM SIZE:
Maximum of 7 students

Organizers
IEEE Student Branch Members
Contact :
9059973303
9652702092
8978028616

Steps for Registration :
Fill the business proposal link given below
Complete the payment after the approval of the proposal.
Last Date for submitting proposal : 17 June 2022

Business proposal link: <https://forms.gle/ANR7vZUMDNH4DN9>

PATRON:
Dr. P. Santosh Kumar Patra
Principal, SMEC

CONVENER:
Dr. B. Hari Krishna , HOD, ECE

CO-CONVENER :
Dr. A. Anand, Prof, ECE
Dean Events & Activities

CO-ORDINATORS :
Mr. Venkanna Mood
Associate Professor, ECE
Mr. G Ramesh
Assistant Professor, ECE

STUDENT CO-ORDINATORS :
K. Thanushree - Chair
M. Nawaneetha - Vice Chair
S. Suraj - Secretary



Our ECE department students with zeal and motivation won 2nd place in IEEE SWYAMKRUSHI

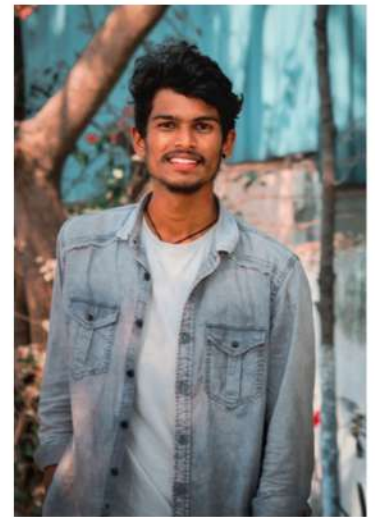
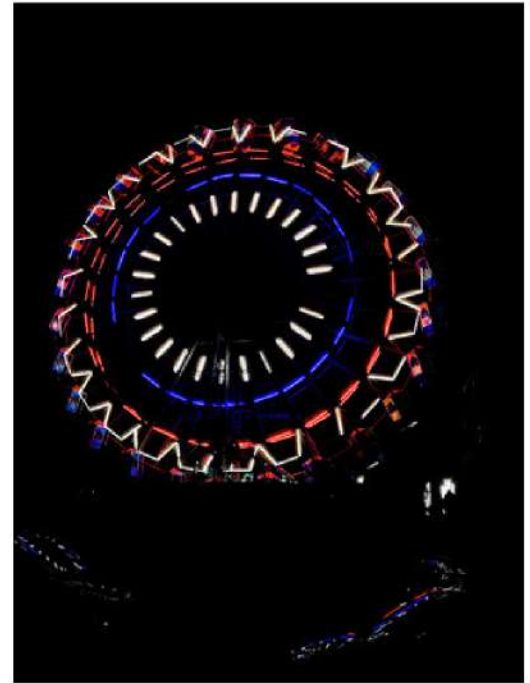


INDUCTION PROGRAM

1st year ECE students visited the department and were guided through the labs



Photography

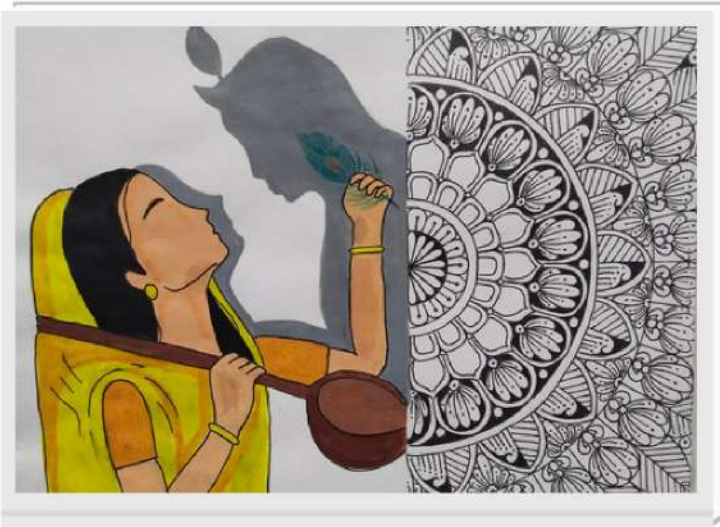


By:

D .Shiva Krishna

21K81A04K9

Art Gallery



By:
Renu Ashritha Sai
21K81A0406

Art Gallery



By:
Y.Goutham rao
22K85A0404



**ఓ ఉపాధ్యాయుడా చైతన్య పథికుడా
విజ్ఞాన రేఖలను ప్రసరించు భానుడా
॥ ఓ ఉపాధ్యాయుడా ॥**

**జాతి దేహములోన మేధస్సు నీవు
దేశాన్ని వెలగించు తేజస్సు నీవు
విశ్వానికెంతో విలువైన వాడా
మానవాళికి మేలు చేకూర్చ రావా
॥ఓ ఉపాధ్యాయుడా॥**

Written by
Dr. A.Chaitanya Krishna



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