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NAGARJUNA

COLLEGE OF ENGINEERING & TECHNOLOGY



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NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous College under VTU



Vision
Leadership and
Excellence in
Education



Mission
To fulfill the vision by
imparting total quality
education replete with the
philosophy of blending
human values and
academic
professionalism.

Department of Electronics and Communication Engineering

Presents

Tarangā - 2022

Newsletter - Edition VII

August 2022





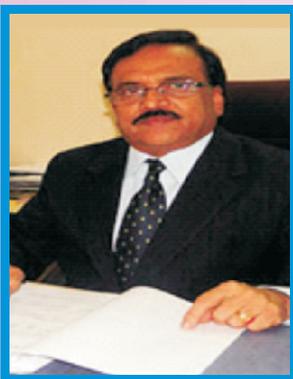
J. Chaitanya Varma-COO, NGI, Bengaluru

I am extremely delighted to know that ECE Department are bringing out their Eighth edition of their departmental newsletter TARANGA-2022. This will benefit all the students as they can now be aspired for greater heights by knowing about their Department's achievements. This will also foster professional and social networking from time to time. It indeed creates a great feeling to know about the initiative taken by the Department to facilitate the students with necessary information, record keeping as well as increasing student capabilities through active participation.



Bhanu chaitanya Varma- CEO, NGI, Bengaluru

I am happy to know that the Department of Electronics & Communication is bringing its Departmental Newsletter- Taranga 2022 that will showcase the events and happening of department activities. Department has developed and developing creative forums and the coordinated efforts of the students and faculty will also bring the necessary connect and bonding. I am sure that the newsletter will become a must-read chronicle on happenings around us. I congratulate editorial team of faculty and students for this magazine and wish them success. Best Wishes to the Team.



Dr. K. S. Deshikachar-Senior Director,NES Bangalore

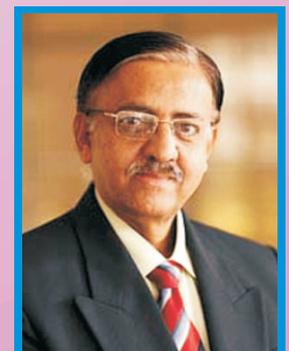
At the outset, I heartily congratulate you on the departmental newsletter TARANGA-2022. The introduction of this newsletter is the result of departments confidence, creativity, and innovation. Newsletters give out valuable and useful information about department onto your organization.

The purpose of a newsletter is to provide specialized information to a targeted audience. Newsletters can be a great way to market yourself, and also create credibility and build awareness for you and the services you provide.



Dr. S. G. Gopala Krishna-Director, NCET

I am very happy that our Electronics & Communication department is releasing 8th issue of 'TARANGA' as a forerunner of department activities. It is a technical platform to bring out the hidden talents of students and faculty. The major strength of the department is a team of well qualified and dedicated faculties who are continuously supporting the students for their academic excellence. So let us work together for the achievement of this goal. Also I invite the readers of 'TARANGA' for their contribution and suggestions for the forthcoming issues.





Dr. B V Ravishankar, Ph.D. (IISc) Principal, NCET

It is a matter of great pride and satisfaction for NCET to bring out the News Letter 'TARANGA 2022' released from the Department of ELECTRONICS & COMMUNICATION. The department has made tremendous progress in all areas academic, non-academics, capacity building relevant to staff and students. I am confident that this issue of Department News Letter will send a positive signal to the staff, students and the person who are interested in the Technical education and Technology based activities. Students have exhibited a great zeal and enthusiasm and significantly to the inter and intra college activities like Seminars, Workshops Conferences, Placement programs, Technical and Cultural events etc. The editorial team has initiated something that will continue to help and guide present and upcoming students of the Department. Personally, I feel that students should set standards and create environment so that they excel in their areas of interests and accordingly guide more students in future. On our part we will continue to swirl to make achievements for you. We wish you all the best in your endeavors. The greatest asset of the department is it's highly motivated and learned faculty who are very dedicated to teaching and also involved in up-gradation of knowledge. Their research experience will help to cultivate the future of our students to work in the global multicultural environment. With great demand in industry and great placement opportunities, the department stands tall and proud. A News Letter is like a mirror which reflects the clear picture of all sorts of activities undertaken by a Department and develops writing skills among students in particular and teaching faculty in general. I congratulate the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in Record time. I express my deep sense of gratitude to Dr.Nagesh K N, Prof & HOD, ECE under whose guidance this Newsletter work has been undertaken and completed within the stipulated time. Also my heartfelt Congratulations to staff members and Students for their fruitful effort.



Dr. Nagesh K.N, Professor & Hod ,Dept of ECE, NCET

I am very happy that our Department of Electronics and Communication Engineering is releasing 8th issue of 'TARANGA' as a forerunner of department activities. It is a technical platform to bring out the hidden talents of students and faculty. The major strength of the department is a team of well qualified and dedicated faculties who are continuously supporting the students for their academic excellence. This edition is reflection of Departmental activities– the achievements, the spirit of all the students and Teachers, fantasies and goals, experiences and be it curricular, co-curricular or extra– curricular during this semester. The department endeavors to produce confident professionals tuned to real time working environment. The department offers excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them.

The graduates of the Electronics & Communication Stream have been selected by some of the leading Software Industries. Department works for overall growth of students and inculcate the qualities/features that are required and acceptable by Society. Faculty/Students take initiative for Social causes at individual level and as a team under different Banners/Clubs of the Institute. I invite you to the Electronics and Communication Engineering Department if you are looking for an undergraduate program. My team is confident that your stint with ECE department will definitely make you outshine with a successful and accomplished career. We hope that we will continue to deliver our best to serve the society and mankind. I wish good luck to team members for the publication of Newsletter TARANGA-2022.

From Editor's Desk



Greetings from the Department of Engineering College. Our enrollment continues to ascend great heights of rigorous admissions standards. First of all we would like to thank all those who generously contributed for the 8th edition of ECE Department Newsletter. Our students find a diverse curriculum that emphasizes both traditional & emerging areas of Electronics & Communication Engineering, simultaneously developing experimental, communication & leadership skills. A major strength of our department is a truly outstanding faculty, many in the early stages of their careers who have become some of the brightest stars in the instrumentation discipline.

A Department Magazine is a mirror of college life. It reflects the literary, educational, and sports activities going on in the college. It projects the important events celebrated in the college during a certain month or year. It gives them training in the concentration of thoughts and ideas and in the discipline. Students can benefit a lot by the friendly guidance of a college magazine. The young writers and poets get an excellent opportunity for displaying their talent, essays, short stories, poems, informative articles are written by students and are published in the magazine. In this way magazine helps boost new talent. Obviously, it is a rare pleasure to see one's work in print in the college magazine.

This newsletter is to highlight all those approaches and achievements of the family members of ECE department during the Academic year 2021-22 both within and beyond academics which kept the campus life abuzz with enthusiasm. We thank Mrs Rani B A, Mrs.Naghma Anjum, Mrs.Rashmi G P for developing and drafting Taranga 2022.

We profusely thank the Management, Principal and HOD for their continuous support, encouragement and a free hand in this endeavor.

Editorially yours,
Sreenivasulu. K. N
Jyothi S K

Editorial Committee



Mrs Rani B A
Assistant Professor



Mrs.Naghma Anjum
Assistant professor



Mrs.Rashmi G P
Assistant professor

UG TOPPERS LIST – 2021-22 Odd semester

Sl.No	USN's	Name	SGPA
3rd Semester			
1	1NC20EC041	SRINIVAS S	9.38
2	1NC20EC004	C K CHANDAN	9.23
3	1NC20EC028	NARENDRA BABU MADHURI	9.06
4	1NC20EC029	NASEER ULLA KHAN	
5	1NC20EC023	MANDA SUNIL KUMAR REDDY	8.80
6	1NC20EC006	CHANDANA S	8.74
5th Semester			
1	1NC19EC061	Nandini H S	9.88
2	1NC19EC084	Saikrishna S	
3	1NC19EC090	Sneha S Kiragi	
4	1NC19EC095	Vaishnavi M	9.8
5	1NC19EC096	Veligondla Anusha	
6	1NC19EC046	Kubendra L Reddy	9.72
7	1NC19EC050	Manasa H R	9.68
8	1NC19EC041	Keerthi K N	9.64
7th Semester			
1	1NC18EC060	Nayana S	9.75
2	1NC18EC063	P.Vijay Kumar Reddy	
3	1NC18EC092	Tejaswini P	
4	1NC18EC015	C Bhavyashree	9.7
5	1NC18EC010	Sai Hanuman	9.65
6	1NC18EC073	Ramya Holla	
7	1NC18EC067	Priyanka G S	9.5

ECE DEPARTMENTAL ACTIVITIES:

I. AICTE sponsored Five Days FDP on “Machine Learning Applications on Image Processing”

The FDP was chaired by Dr. S G Gopalkrishna , Director NGI, Dr. Jitendra Nath Mungara, Principal, NCET, Dr. Nagesh K N (Professor & HOD), Convener of FDP, Dr.Rohith S (Associate Professor & coordinator of FDP) Mr. Sreenivasulu K N& Mr. Harish V , Asst. Professor, Dept. of ECE & Co-coordinators of FDP along with other Heads of the dept &all the faculty and participants were also present during the inauguration of FDP virtually Ms.Jyothi S K, Assistant Professor, Dept of ECE mastered the inaugural function of FDP. As per the Indian tradition, the FDP was inaugurated with Prayer by Mr. Ravikumar H S, Asst. Professor, Dept of Civil. Mrs. Zaiba, Assistant Professor, Dept of ECE, NCET welcomed all Keynote speaker, HOD's, faculties and participants to the FDP.

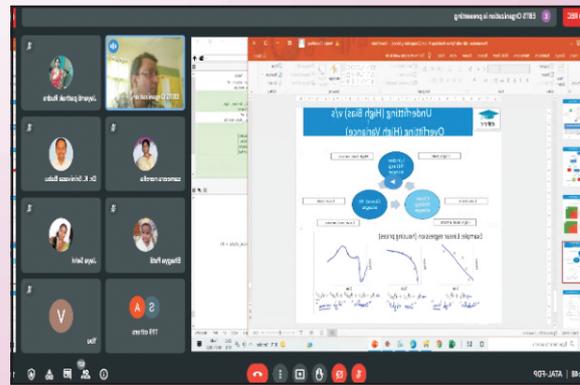
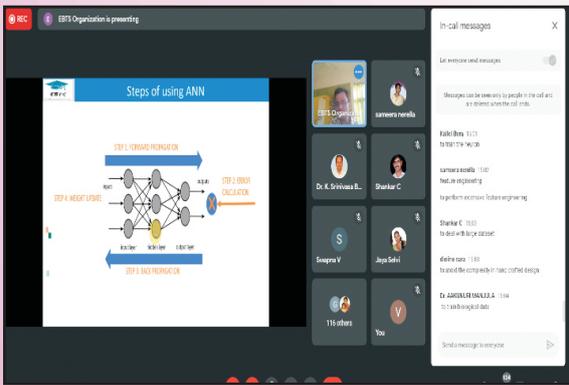
Dr. Nagesh K N (Professor & HOD), briefed about the procedures and protocols followed in conducting AICTE Sponsored Five Days Faculty Development Program (FDP) on Machine Learning Applications on Image Processing.

The Vote of thanks is delivered by Mrs. Deepthi Prakash, Asst.Professor Dept of ECE. She thanked AICTE, management, FDP internal and external organizers for their contribution in conducting this Training Program. The entire programme is witnessed by dignitaries, HODs, teaching and non-teaching staff and all participants across country. Followed by the remaining sessions of FDP. All the technical sessions were delivered then after as per the schedule by experts from relevant field.

Glimpses of Inaugural Session of FDP on 21.01.2022 are given below



Glimpses of Sessions of FDP on 21.01.2022 are given below



II. Expert Talk:

An expert talk on “Antenna design: Recent development and challenges” was organized by department of ECE on 21/05/2022. About 94 students of 6th semester attended the expert talk. The teaching and non-teaching staff were present. The Resource person Dr. Anand Sharma, Assistant Professor, MNNIT Allahabad explained about basics of antenna, types of antenna, antenna design parameters. He gave information about recent developments of antenna and discuss the parameters such as Reflection coefficient, radiation pattern, Antenna efficiency, gain polarization and efficiency.



Glimpses of Expert Talk on “Antenna design: Recent development and challenges”

III. ALUMNI TALK:

The Department of Electronics and communication, Nagarjuna College of Engineering And Technology organized a Distinguished Alumni talk on “**Overview of Azur Tools and IOS Applications**” on 21/05/2022 for Fourth and Eighth semester EC students.



The event was inaugurated by Dr.S G Gopalakrishna, Director, NGI, our distinguished alumni's Mr. Shiv Kumar, Technical Lead, Evoke Technologies, Hyderabad, Mr.Mrityunjay Kumar, Technical Lead, Mind tree Limited Bengaluru, Dr.Nagesh K N, Professor & HOD Department of ECE, Dr.Yogeesha. H C, Associate Director, IQAC and students. Mr.Ranjan Manish, Dean I4 cell, alumni relations and Mr. Ravi Shankar, Dean Placement and Training graced the event.

Session 1 lead by Mr. Shiv Kumar, Technical Lead, Evoke Technologies, Hyderabad (2006 BATCH)

Session 2 lead by Mr. Mrityunjay Kumar, Technical Lead, Mindtree Limited Bengaluru (2006 BATCH)

IV. Memorandum of Understanding with Industries/Companies



Memorandum of Understanding is signed between Itie Knowledge Solutions, Bengaluru and Department of Electronics & Communication

The Memorandum of Understanding (“MoU”) has entered on 11-06-2022 by NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY and M/s. RE-BATT ENERGY SOLUTIONS PRIVATE LIMITED. The M/s. RE-BATT ENERGY SOLUTIONS PRIVATE LIMITED is registered vide No: KITS/SK-REGN/2022-23/2254, as a 'startup' with the “Karnataka Startup Cell” directorate of Electronics, Information Technology, and Biotechnology, Government of Karnataka.



The programme was presided by Dr. B V Ravi Shankar, Principal, NCET, Managing Director Dr. Navya Rani M, Mr. Vinay Gangaraju, CEO Rebutt Energy Solutions Private Ltd., Dr.Nagesh K N, Prof&HOD, Dept of ECE and Convenor Entrepreneur development Cell Dr. Sriram.

Value Added Course:

In collaboration with Placement Department, As a part of providing Insights and Exploring different Opportunities in Software Industry, an Expert Talk Session has been conducted for 6th Semester Students on 09th April 2022 at 1.30 P.M. Session was chaired by Principal Dr.B.V Ravi Shankar, Dr.Nagesh K N, Prof & HOD, Dept.of ECE. The renowned Guest for the Session was Dr. Vishwa Kiran, Corporate Trainer. Dr. Vishwa Kiran interacted with Students about the Academics and informed how the Value-added Courses will play an effective role in shaping their career.



Glimpses of Industry Expert Talk on Placement opportunities in software industry



Glimpses of Value Added course Training for 6th semester students

AICTE ACTIVITY POINT PROGRAM

NCET, Electronics & Communication Engineering Department arranged AICTE Activity Point Program at Nandi Village, Chikkaballapura on 5th May 2022 for 6th semester ECE students.

Dr. Rohith S, Assoc. Professor, ECE & Mr. Nandakishore C V Asst. Professor ECE Coordinated the event. The main objective of the program is to spread awareness of the importance of Digital transactions, energy and Water management for the village community. To execute the work students are made into different groups and actively involved to explain the importance to village people.



Glimpses of AICTE ACTIVITY POINT PROGRAM at Nandi Village, Chikkaballapura on 5th May 2022 .



Electronics & Communication Engineering Department Organized AICTE Activity Point Program at Chickamarali Village, Chickballapur on **10th December 2021**. More than 150, 3rd, 5th and 7th semester ECE students participated for this Event. Students created Awareness about garbage disposal system and also discussed the importance about physical fitness and food preservation.



Visit for "AICTE activities point program" Organised by ECE department at beedignahalli village on 10th December 2021. Students created awareness and effectiveness of digital payment techniques in rural areas. 30 ECE students along with faculty members were visited.

Industrial visit-2021

1. The Department of Electronics and communication Engineering, Nagarjuna College Of Engineering And Technology has organized a one day industrial visit to "NDS Motors, Bengaluru" on 19/10/2021 for Seventh semester EC students. A total of 42 students along with two faculties Dr.Rohith S, Mr.Mahesh M R have joined the visit. The onsite guiding staff was very supportive to all students and guided to his best.



2. The Department of Electronics and communication Engineering, Nagarjuna College Of Engineering And Technology has organized a one day industrial visit to "Defence Institute of Quality Assurance, Bangalore " on 17/12/2021 for Fifth semester EC students. A total of 40 students along with two faculties Mr.Sreenivasulu and Ms. Jyothi S K have joined the visit. The onsite guiding staff was very supportive to all students and guided to his best.



Glimpses of Industrial Visit to UNIBIC FOODS by 4th semester students

Alumni Meet-2021

Department of Electronics and Communication organized Alumni Meet-2021 on 18th Dec 2021



GCAT IEEE CONFERENCE-2021

NGI
NAGARJUNA
GROUP OF INSTITUTIONS

IEEE
BANGALORE SECTION

NAGARJUNA
COLLEGE OF ENGINEERING & TECHNOLOGY

Nagarjuna College of Engineering & Technology
(An Autonomous Institute Under VTU)
Devanahalli, Bengaluru, Karnataka, India - 562164

Inauguration of
IEEE 2nd Global Conference for Advancement in Technology-2021
IEEE 2nd GCAT - 2021
01st - 03rd October 2021
Technically Co Sponsored By IEEE Bangalore Section
Organised by
Department of Electronics & Communication Engineering,
Department of Computer Science and Information Science Engineering

Date: 01-10-2021
Venue: NCET Auditorium

IEEE Conference ID:52182

Nagarjuna College of Engineering & Technology,
Bangalore, Karnataka.

The 2nd IEEE Global Conference for Advancements in Technology (IEEE GCAT-2021) has concluded its work successfully this time in Nagarjuna College of Engineering and Technology Bangalore, India. The IEEE GCAT-2021 was co-organized by Nagarjuna College of Engineering and technology technically sponsored by Institute of Electrical and Electronics Engineers (IEEE) Bangalore Section. IEEE 2nd Global Conference for Advancement in Technology- 2021, Technically cosponsored by IEEE Bangalore section organized by Dept of ECE, CSE and ISE which is going to held virtually from 1st to 3rd October 2021 on online platform. IEEE GCAT-2021 served as a platform for all budding researchers to innovate and collaborate their research in various domains in single platform. Hundreds of attendees, paper presenters, keynote and tutorial participants, students have benefited in many ways from this conference. More than 1000 scientific papers were presented by authors from 18 countries. 7 Invited, Keynote and Tutorial Speakers from different countries addressed to audience and shared knowledge and rich experience of application of ICT in their companies and countries. The Inaugural Function Started with Saraswati Vandana followed by welcoming the dignitaries, lighting the lamp and Release of Proceedings by dignitaries and delegates. The Conference Proceedings was released by all the Dignitaries.



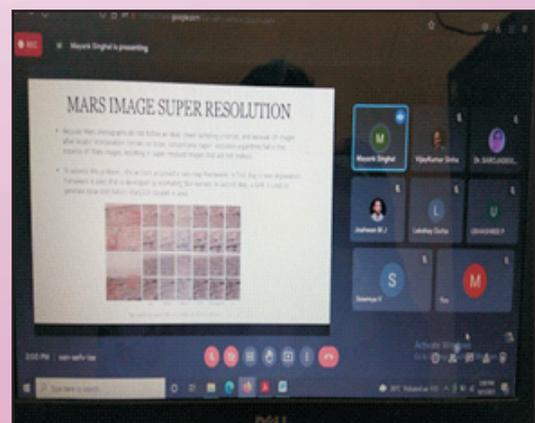
The brief note about the IEEE Conference was given by The General Chair **Dr. S G. Gopala Krishna** Director, NCET. He has highlighted various current innovations pertaining to all the branches and demands and the challenges in the recent innovations with appropriate examples.

Dr Jitendranath Mungara Principal, Nagarjuna College of Engineering and technology, Bengaluru, addressed the gathering and explained the process of Planning , Scheduling and organizing the IEEE Conference from the inception .He has thanked the management, IEEE internal and external organizers for their contribution in conducting this technical event.

The Chief Guest of the Inaugural Function of the IEEE Conference **Sri. G.K. Mithun Kumar**, IPS Superintendent of Police, Chickballapur. He highlighted the innovations in engineering and technology is essential in the current situation. The role of engineers with the knowledge of cyber security technology is more important in the society to overcome the cyber crime .The Convener of the conference Dr. Nagesh K N; Professor and HOD of ECE introduced the chief guest to the gathering.



The Guest of Honor **Dr. B.V. Ravi Shankar** Principal, B.M.S.C.E, Bangalore, addressed the gathering and spoke about the importance and weight age of IEEE papers and also about emerging technologies. He also highlighted the role of faculty members in adapting themselves to the thrust areas of engineering and technology.



Board of Studies Meeting

BOS meeting for finalizing the scheme and syllabus for 1st, 2nd, 3rd and 4th year ECE students was scheduled on 18th September 2021. 20 participants were actively involved in BOS meeting including all the members of BOS along with BOS chairman, External BOS nominee, Industry BOS member, Dean academics, Vice-Principal, Principal and Director. BOS chairman/ HOD presented the scheme of syllabus for 1st, 2nd, 3rd and 4th year framed for students of ECE in the BOS meeting. The total credits per semester and scheme was framed keeping in view the guidelines of VTU and AICTE norms. The scheme of syllabus was greatly appreciated by all the members in the BOS panel.

The VTU BOS nominee **Dr. Dinesh P Professor ECE Dept., DSCE** enlightened the importance of core ECE subjects and their importance in the current Industry. Industry BOS member, Dr. Nagesh Poojary Lead Technical architect, Continental Automotive Components Pvt. Ltd and Mr. Karthik Kanda swamy EC Cube Info Tech Pvt. Ltd Bengaluru shared his views as the industry requirements should match the syllabus in the academics. He highlighted the importance of certification courses and trends in current industry. The online meeting was schedules using Google meet App. **Link:**<https://meet.google.com/xqj-payb-ja>.



PARENT TEACHER MEETING

The Parent Teachers Meeting (PTM) was held in ECE Department on 24th December 2021 at 9:00AM to 4:00PM where the overall performance and development of the students has been discussed by their respective counsellors and HOD with the parents. Parents have interacted with the counsellors and course teachers.





BOARD OF EXAMINERS (BOE)

The ECE Department has organized Board of Examiners (BOE) meeting on 25/01/2022 to scrutinize the Semester End Examination (SEE) question papers for the academic exams February 2022. Dr. Bhargavi. S prof dept ECE, SJGIT has invited as external BOE member for the meeting.



I. PATENT

Sl. No	Title of the Patent/ Patent pending number/ Patent Application number	Jurisdiction/ publication/ Indian patent journal/ field	Inventors Name/ Faculty members/ students/ Emeritus professors	Year of Application/ Grant/ published date
1	Novel System Method, Design, Development Of Monitoring And Alerting System For Immobilized.	Indian Patent	Dr. Gopalakrishnan, Dr. Rohith S, Dr. Nagesh K N, Dr. Basavaraj G M, Prof. Mahesh M R	Patent published on 04.02.2022
2	“Novel System, Method And Study On Synthesis, Characteristics And Fabrication Of MOS2 Nano	Indian Patent	Prof. Nagma Anjum, Dr. Nagesh K N, Dr. Rohith S, Prof. Rani B A,	Patent published on 6/05/2022.
3	“Novel System, Method And Design Of Two-Way Video Monitoring Systems Using Android And Java Media	Indian Patent	Prof. Rani B A, Dr. Rohith S, Dr. Nagesh K N, Prof. Nagma Anjum,	Patent published on 6/05/2022.
4	“Development Of IoT Based Automatic Water Bodies Garbage Treatment Machine”.	Indian Patent	Dr.Rohith S, Prof. Mahesh M R, Dr. Basavaraj G M, Prof. Sunil Kumar.	Patent published on 6/05/2022.
5	“Novel System, Method, Design And Development Of Braille System For Visually Challenged People”.	Indian Patent	Prof. Sunitha M, Dr. Rohith S, Dr. Nagesh K N, Dr. Basavaraj G M,	Patent published on 6/05/2022.
6	IoT-Based Smart Health Assessment Mirror For Healthy Life	Indian Patent	Dr. Ajay Kumar Dwivedi	Patent published on 15/09/2021
2	Philosophizing of multifunction syllogistic unit using folding tree with clock gating 202121011465	Indian Patent	Dr.Nagesh K N, Dr.Premjyoti G patil Dr. Rohith S Mr. Nandakishore C V Mr. Srinivasulu K N	Patent published on 18/03/2021

II. INTERNATIONAL SCI JOURNALS:

Sl. No	Name of the Faculty	Title of the Paper	Title of the journal	Year of Publication
1	Broadband Dielectric Resonator Antenna with Dual Frequency Circularly polarized response for WLAN and WiMAX Applications	A. Sharma, A.K Dwivedi, Nagesh K.N, A. Gupta, D.K Tripathi	International Journal of Circuit Theory and Applications, Wiley	Oct-2021
2	High Isolated WiFi-2.4 GHz/LTE MIMO Antenna for RF-Energy Harvesting Applications	Kumar, Nagesh K.N, H. Venkatesh Kumar, S. A Siddique, Mishra and A.K Dwivedi	AEUE- International Journal of Electronics and Communications, Elsevier	Sep-2021
3	Circularly Polarized Dielectric Resonator Based MIMO Antenna with Pattern and Polarization Diversity for Vehicular Applications	Komal Srivastava, Ajay Kumar Dwivedi, Anand Sharma	International Journal of Circuit Theory and Applications, Wiley	Jul-21
4	Dual Band Modified Rectangular Shaped Dielectric Resonator Antenna with Diversified Polarization Feature	Ajay Kumar Dwivedi, Anand Sharma, Pinku Ranjan	International Journal of Circuit Theory and Applications, Wiley	Jul-21
5	UWB Multilayer Patch Antenna with EBG Structure for IEEE C, X, Ku and K Band Applications	A.K Patel, S. Yadav, Nagesh K.N, B. Mishra	Wireless Personal Communications	Jun-21
6	Remote Controlled Reconfigurable Hexa Band Antenna for RF Energy Harvesting Systems is complete	Shadab Azam Siddique, H. Venkatesh Kumar, Chethana Gosal S, Brijesh Mishra, Nagesh Kallollu Narayaswamy	International Journal of Circuit Theory and Applications, Wiley	Sep-21

III. Conferences:

SL No	Title of the paper	Name of the author	Title of the Conference	Place/Name of the College	Year of publication
1	“Modeling and Investigation of Novel Two-Port UWB- MIMO Antenna with Enhanced Isolation”, VLSI,	A.K Singh, A.K Dwivedi, Nagesh K.N, Vivek Singh*, R.S Yadav,	Lecture Notes in Electrical Engineering (LNEE), Springer,	MNNIT Allahabad, Prayagraj, Uttar Pradesh	2021
2	A CPW-Fed Annular Shape Antenna with Asymmetrical Hexagonal Slot Loaded Defected Ground Plane for Ultra-Wideband Applications”	A.K Dwivedi, B. Mishra, Chandrabhan, Shadab Azam Siddique and Vivek Singh*,	Lecture Notes in Electrical Engineering (LNEE), Springer,	MNNIT Allahabad, Prayagraj, Uttar Pradesh	2021
3	“A Miniaturized Planar Antenna with Optimized Slots and DGS for UWB Applications”,	A.K Singh, A.K Dwivedi, Vivek Singh, R.S Yadav,	IEEE 8th International Conference Engineering & Telecommunication — En&T-2021,	Moscow Institute of Physics and Technology, Moscow, Russia	2021
4	A Review on Microstrip Patch Antenna Parameters of different Geometry and Bandwidth Enhancement Techniques	Brijesh Mishra, Ramesh Kumar Verma, Yashwanth N, Rakesh Kumar Singh	International Journal of Microwave and Wireless Technologies	Cambridge University	2021

IV. Scopus Indexed Books and chapters :

Sl. No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference	Year	Name of the publisher
1	K. Srivastava, A.K Dwivedi, Nagesh K.N, A. Sharma	Dual Band, Dual Port Dielectric Resonator Based MIMO Antenna with Bi-directional Pattern Diversity using PRS	VLSI, Communication and Signal processing, Lecture Notes in Electrical Engineering (LNEE), (Springer Nature), 2021	Sep-2021	Accepted (In Production) Lecture Notes in Electrical Engineering, Springer
2	A.K Singh, A.K Dwivedi, Nagesh K.N, V. Singh, R.S Yadav	Modeling and Investigation of Novel Two-Port UWB- MIMO Antenna with Enhanced Isolation	VLSI, Communication and Signal processing, Lecture Notes in Electrical Engineering (LNEE), (Springer Nature), 2021	Sep-2021	Accepted (In Production) Lecture Notes in Electrical Engineering, Springer

V. FDPs attended by Faculties.

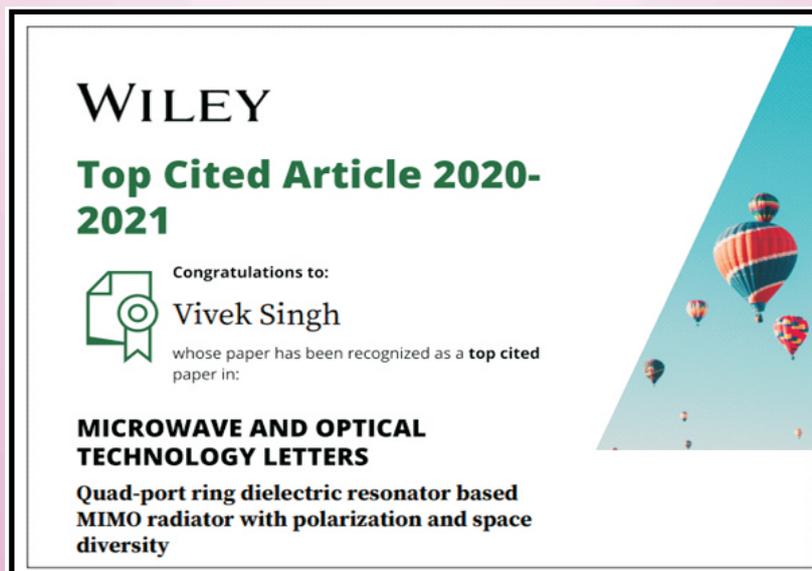
Sl no.	Name of the Faculty	Title of the FDP	Duration of the FDP	Dates from-to	Place/Institute of the FDP held
1	Dr. Nagesh K N	Signal processing for 5G and IoT.	5 days	06/09/21 - 10/09/21	Indian Institute of Technology, Kalyani.
2	Dr. Ajay Kumar Dwivedi	Antenna: Design, Fabrication and Measurement.	5 days	02/08/21 - 06/08/21	G.B Pant Institute of Engineering and Technology.
3	Dr. Vivek Singh	The Trends of Research and Development of Electronics and Communication Area”	5 days	17/01/22 - 21/01/22	National Institute of Technology.
4	Mr. Mahesh M R	Electronic Assitive Devices	6 days	07/01/22 - 13/01/22	AICTE- Bapuji Institute of Engineering and technology, Davanagere.

5	Sunil Kumar B S	Artificial Intelligence on System on Chip (SoC)	5 days	10/01/22 - 14/01/22	AICTE-Indraprastha Institute of Information Technology, Delhi (IIIT Delhi)
6	Ms. Sunitha M	Magnetic Levitation	5 days	20/09/21 - 24/09/21	ATAL FDP (online): Hindustan Institute of technology. Tamil Nādu .
7	Mr. Mallanna S D	Emerging Trends in OFC Technology"	5 days	02/08/21 - 06/08/21	ATAL FDP: National Institute of Technical Teachers Training and Research (NITTTR).
8	Mrs. Rani B A	Polymer based Nano structures for targeted drug delivery	5 days	07/02/22 - 11/02/22	ATAL FDP: CIPET: CSTS Guwahati.
9	Mrs. Naghma Anjum	Polymer based Nano structures for targeted drug delivery	5 days	07/02/22 - 11/02/22	ATAL FDP: CIPET: CSTS Guwahati.
10	Mrs. Zaiba	Advanced Technologies in Electrical and	5 days	03/1/22 - 07/1/22	Online workshop: KLS Gogte Institute of Technology, Belagavi.
11	Ms. Hemalatha B	"Futuristic Semiconductor devices for high end application"	5 days	03/01/22 - 07/01/22	AICTE Training and Learning (ATAL) Academy Online FDP - OIST (Online).
12	Ms. Jyothi S K	"Futuristic Semiconductor devices for high end application"	5 days	03/01/22 - 07/01/22	AICTE Training and Learning (ATAL) Academy Online FDP - OIST (Online).
13	Mrs. Rashmi G P	Advanced Manufacturing of Bio Medical devices for Precision Health Technologies	5 days	24/1/22 - 28/1/22	AICTE-ATAL FDP IIT TIRUPATI .

Faculty Achievements:
BEST PAPER AWARD:



The faculty of the ECE Department Successfully presented and received the best paper award for their work on “Design and Analysis of Four Port MIMO Antenna for n77 and MTI Wireless Edge 5G Applications” in the " American Institute of Physics (AIP) conference proceedings”. Technically Sponsored by IET - Institution of Engineering and Technology”.



Dr. Vivek Singh, Associate Professor, Department ECE, NCET published the paper “Quad-port ring dielectric resonator-based MIMO radiator with polarization and space diversity” has been recognized as a top-cited paper in MICROWAVE AND OPTICAL TECHNOLOGY LETTERS.



NCET College has secured Runner's up in State level PES Staff Cricket tournament 2022 organized by PES College and most of the staffs participated were from ECE Department.

STUDENT ACHIEVEMENTS:

Student's undergone internship at AICTE Eduskill 2021-22. ECE Department 91 Students of 7th semester undergone an Internship at AICTE EDUSKILL on Robotics Process Automation (RPA) Virtual Internship during Oct-Dec 2021.



Sl.No	Student Name	USN	Event participated	Date (DD/MM/YY)	Name Of the Organizers	Achievement /Remarks
1	P NIRANJAN	1NC18EC064	NPTEL ONLINE CERTIFICATION	JULY - SEPTEMBER 2021	IIT, Kharagpur	ELITE +Silver
2	MUKUL DEV	1NC18EC055	NPTEL ONLINE CERTIFICATION	AUGUST - OCTOBER 2021	IIT, Kharagpur	ELITE +Silver
3	KEERTHI K N	1NC19EC041	Android App development Course.	DECEMBER 2021- JANUARY 2022	VERZEO	----

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository. <https://npTEL.in/ncsr/>

Roll No: NPTEL21226453490035

To: MUKUL DEV
AT PAVANAGIRI COLONY BARANAGARAPALLE
NEELU MANJUNATH RAMAN SWAMI
CHENNAI
PIN: 600030

Score	Type of Certificate
>=80	Elite+Gold
75-80	Elite+Silver
>=60	Elite
50-60	Successfully Completed
<50	No Certificate

No. of credits recommended by NPTEL: 2
An additional 1 credit may be awarded if the University deems fit, based on the actual student effort towards

Elite
NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to **MUKUL DEV** for successfully completing the course **Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications** with a consolidated score of **72 %**
 Online Assignments | 21.25/25 | Proctored Exam | 51/75
 Total number of candidates certified in this course: 226

Prof. Ramesh M. Nayyar
Indian Institute of Technology Kharagpur
Aug 01st 2021
(8 week course)

Prof. Subramani Reddy
IIT Kharagpur

swayam

Roll No: NPTEL21226453490035 To generate and check scores: <https://npTEL.in/ncsr/>

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Roll No: NPTEL21C360513870076

To: POTHAMSETTY NIRANJAN
20111-02 BOLLALAKURU RAMAPAL, AP DISTRICT
ANDHRA PRADESH, INDIA
PIN: 501 100A

Score	Type of Certificate
>=80	Elite+Gold
75-80	Elite+Silver
>=60	Elite
50-60	Successfully Completed
<50	No Certificate

No. of credits recommended by NPTEL: 2
An additional 1 credit may be awarded if the University deems fit, based on the actual student effort towards

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to **POTHAMSETTY NIRANJAN** for successfully completing the course **Hardware Modeling using Verilog** with a consolidated score of **52 %**
 Online Assignments | 21.92/25 | Proctored Exam | 30/75
 Total number of candidates certified in this course: 148

Prof. S P Raja Seshar
IIT Kharagpur
Jul 04th 2021
(8 week course)

Prof. Subramani Reddy
IIT Kharagpur

VERZEO

Certificate Of Course Completion

Keerthi Kn

has successfully completed Android App Development course from 01-12-2021 to 31-01-2022.

During this course, we found the student to be a keen and enthusiastic candidate.

Verified Certificate

Certificate ID: 21567460
Date: 31-02-2022

Our Course Completion certificates are verified and are recognized by eminent industries and universities all over the world.

Ajay Billav
Course Co-ordinator

T. Nikhil
Academic Head

STUDENTS WITH IEEE MEMBERSHIP:

89 students of 8th semester from the department of Electronics & communication have enrolled for the IEEE membership which gives them access to the ultimate collection of technical periodicals and conference publications at no additional cost.

2022 Certificate of IEEE Membership

This certificate recognizes
Annapurna H

as a Student Member in good standing through December 2022, denoting
a personal and professional commitment to the advancement of technology



*...in the company of
innovators worldwide*

Jacob Ziv
2021 Medal of Honor Recipient
Technion Research Professor Emeritus,
Technion, Israel Institute of Technology,
Haifa, Israel
"For fundamental contributions to information
theory and data compression technology,
and for distinguished research leadership."



K. J. RAY LIU
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MEMBER TYPE: Student Member

MEMBER STATUS: Active

MEMBER EXPIRES: 12/31/2022

MEMBER INFORMATION

NAME: ANNA PURNA H

ADDRESS: 12345 Main St, City, State, Zip

PHONE: (123) 456-7890

EMAIL: annapurna.h@example.com

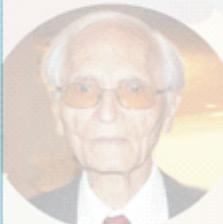
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2021 Medal of Honor Recipient
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Technion, Israel Institute of Technology,
Haifa, Israel
"For fundamental contributions to information
theory and data compression technology,
and for distinguished research leadership."



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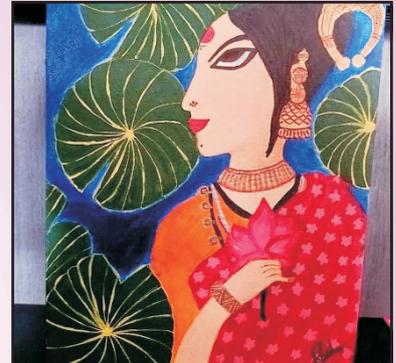


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Pencil Sketch & Paintings by EC Students and Faculties

PENCIL SKETCH and PAINTINGS BY Mrs.RASHMI G.P,Assistant Professor,ECE



PENCIL SKETCH BY Shreyas B J 1NC21EC087-T(1ST sem)



PENCIL SKETCH BY Medaboyina Bharath 1NC20EC024 (3RD semester)



PENCIL SKETCH BY N. Madhuri 1NC20EC028 (3rd semester)



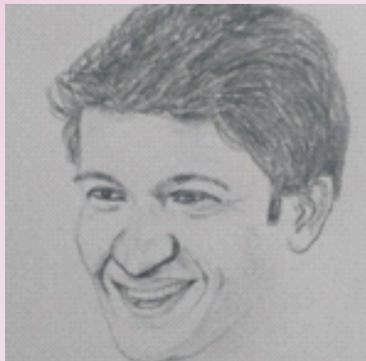
PENCIL SKETCH BY MEGHANA HR 1NC21EC002 (1ST semester)



PENCIL SKETCH BY Gowthami. L.R 1NC20EC013 (3rd semester)



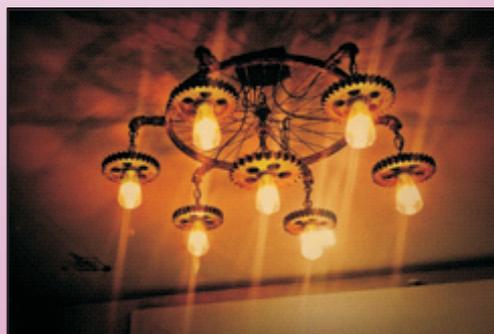
PENCIL SKETCH BY . Jyothi J , Assistant professor , Dept of ECEc

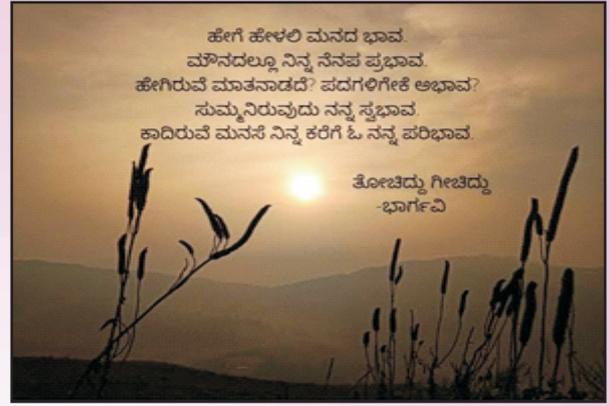
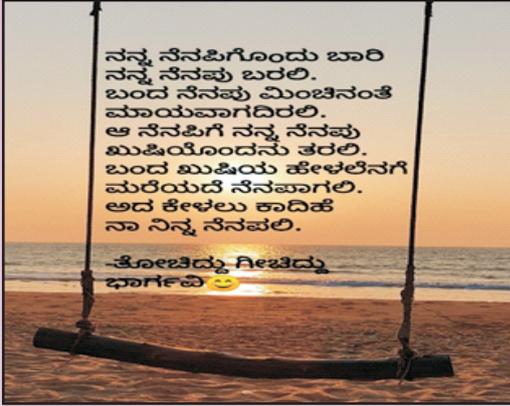
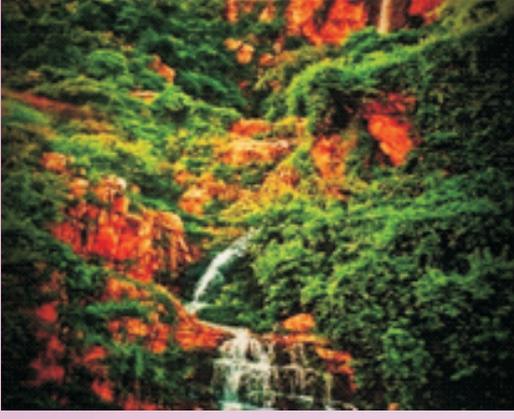


Clicks by Prajwal GR ,1NC21EC084 (1ST SEMESTER)



Clicks by Yashas P.T,1NC21EC063(1ST SEMESTER)





Poetry by Mrs. Rashmi G.P, Assistant Professor , Dept of ECE

ಕನ್ನಡತಿಯ ಮನವಿ

ಕನ್ನಡಿಗ ಅಂತ ಬರೀ ನವೆಂಬರ್ ಒಂದರಂದು ಕೂಗಿದರೆ ಸಾಕಾಗಲ್ಲ ಕಣ್ಣೀ
ದಿನ ಪ್ರತಿ ರೂಡಿಸಿ ,ಬೆಳೆಸಿ

ಉಳಿಸಿ -ಅನ್ನೋ ಪರಿಸ್ಥಿತಿ ಬೇಡವಾಗಿದ್ದರು ಬಂದಿದೆ
ಯಾಕೆ? ಅಂತ ಯೋಚಿಸಿ

ಇರುವ ನೆಲಕ್ಕೆ ಗೌರವ ಕೊಡದವರ ಮಧ್ಯೆ ಕನ್ನಡತಿಯಾಗಿ ಉಳಿಯುವುದು
ಕಷ್ಟವೇ.

ಆದ್ರೆ ಇಷ್ಟಪಟ್ಟು ಕಲಿತೀನಿ ಅನ್ನುವವರಿಗೆ ಕಲಿಸಿ ಪ್ರೋತ್ಸಾಹಿಸಿ.

ನಿಮ್ಮ ಭಾಷೆಯನ್ನು ನೀವು ಪ್ರೀತಿಸಿ ಪರಭಾಷೆಯನ್ನು ಗೌರವಿಸಿ
ಅನ್ನುವ ಸ್ವಚ್ಛ ಮನದ ಕನ್ನಡಿಗರಿಗೊಂದು ಮನವಿ.

ನಿಮ್ಮ ಭಾಷೆಯನ್ನು ಬದಿಗಿರಿಸಿ ಪರಭಾಷೆಯಲ್ಲಿ ಮಾತನಾಡುವ ಶೋಕಿ
ಯಾಕೆ ?

ಬಂದವರಿಗೂ ಕಲಿಸಿ, ಉಳಿಸಿ ,ಬೆಳೆಸಿ

ರಶ್ಮಿ ಜಿ.ಪಿ

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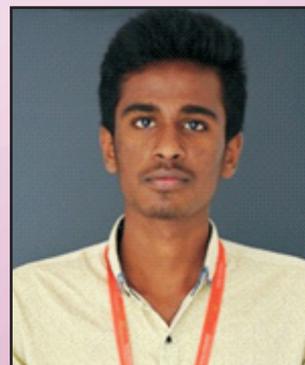
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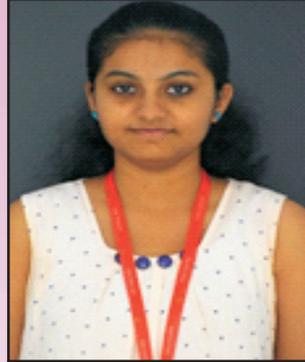
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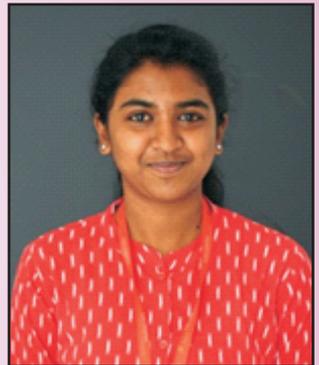
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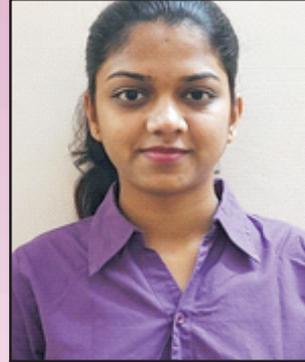
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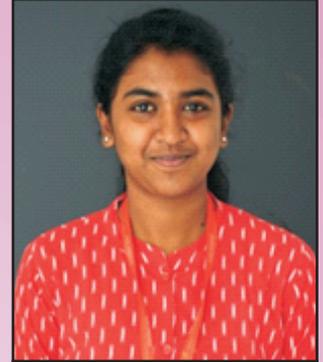
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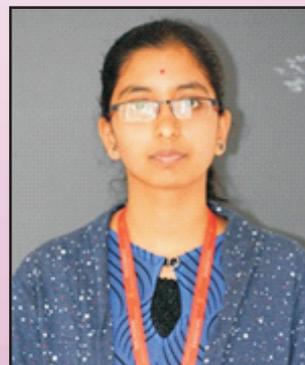
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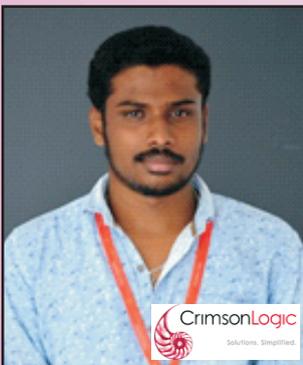
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Department of Electronics & Communication

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To transform the students as leaders in Electronics & Communication Engineering to achieve professional excellence in the challenging world.



Mission

- To create an environment for the students to have strong academic fundamentals and enable them to be life-long learners.
- To provide modern tools to the students in the field of electronics and communication to meet the real-world challenges.
- To Develop Communication skill, leadership qualities, team work and skills for continuing education among the students.
- To inculcate Ethics, Human values for solving societal problems and environmental protection.
- Validate engineering knowledge through innovative research projects to enhance their employability and entrepreneurship skills.