



AVN Institute of
Engineering & Technology



Department of Electronics & Communication Engineering

Academic year 2022-2023 Sem-I (July-Jan)

ECLATZ

Volume-II



E-Elegant
C-Cheerful
L-Loyal
A-Amiable
T-Tenacious
Z-Zenith

CHAIRMAN



**Sri AVN Reddy, MSC,
Founder-Chairman**

AVNIET was started in the year 2009 under the able leadership of our chairman sir Sri AVN Reddy. A Post-Graduate in chemistry, he is regarded as a person for having the vision to ignite the innate talent, creativity, innovativeness of the students to produce future leader for societal development. He is the person who brought revolutionary changes in the high school education and successfully approaching towards an evolving trend in providing high quality technical education. He is man of great sagacity and immense experience, always guiding the staff members, on transform the institute into a fountain of academic excellence. He is a true philanthropist, doyen in educational field and an embodiment of passion applying engineering solutions in global and societal contexts.

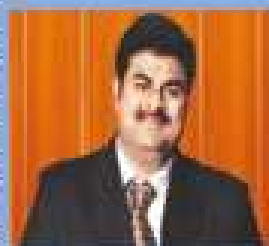
SECRETARY



**Mr. A Naveen Reddy,
MBA**

A Naveen Reddy, a Post Graduate in Business Management from Fitchburg State University USA, has made his mark in managing the organization. He is completely driven with management skills and had led to the growth of the institution.

VICE-CHAIRMAN



**Mr. A Pavan Reddy,
B.E. MSC (UK)**

A Pavan Reddy, a Mechanical Graduate from OU and M.Sc. from Middlesex University U.K, provides the institution a global outlook. The college has international exposure through him due to which AVNIET has very good placements.

PRINCIPAL



**Dr. P. Nageswara Reddy
B.Tech, ME, Ph.D.**

Dr. P. Nageswara Reddy Graduated in Mechanical Engineering from Sri Venkateshwara University, Tirupati in 1986 and obtained Master of engineering Degree in Mechanical Engineering (Refrigeration & Air-conditioning) from Bharathi University, Coimbatore in 1988. He Obtained Ph.D. degree in Mechanical Engineering from Jawaharlal Nehru Technological University, Hyderabad in 2001. He worked in several premier engineering colleges in various capacities and has a total experience of about 35 years in teaching and administration. He has successfully guided two Ph.D. Scholars and published more than 25 Papers in National and International journals and conferences. He visited a few universities in USA and presented a technical paper in ASME Conference at Salt Lake City, Utah State, USA in July 2019.

ECE HOD



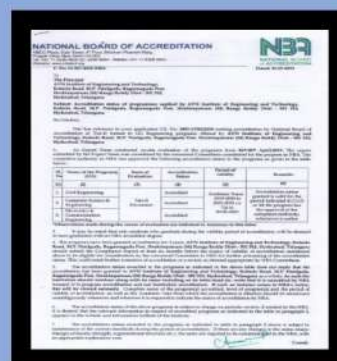
**Dr. N. Suresh
B.E, ME, Ph.D**

Dr. N. Suresh professor and Head, Department of ECE has completed B.E, ME, Ph.D. (ECE). He is having more than 15 Years of experience. He worked as a HOD in Various engineering colleges from 2015 – 2021 and received many awards in various educational institutions. He is reviewer for various national, International journals & conferences, also guided more than 30 B.Tech and M.Tech Projects. He has published more than 35 papers in reputed SCI & Scopus Indexed international journals, he is a IEEE, IETE, ISTE life member. He delivered technical speech in Various Workshops & FDP's as a technical speaker.

ABOUT AVNIET

Welcome to AVNIET, a premier institution offering engineering education in the streams of Cyber Security, AI&ML, Data Science, IoT, CSE, ECE, CIVIL and Mechanical. AVNIET comes from the able management of Dilsukhnagar Public Schools having 36 years of academic excellence, under the leadership of chairman Mr. AVN Reddy. Established in 2009, affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, and is approved by the All-India Council for Technical Education (AICTE), New Delhi. AVNIET is destined to offer comprehensive curriculum in the field of Technological education. Our students have a perfect place to learn and excel by striking a balance between academics and contemporary engineering practices.

AVNIET accredited with NAAC A grade in year 2022 & NBA



ABOUT ECE DEPARTMENT

Vision: To become a centre of excellence in the field of Electronics and Communication Engineering, keeping in view of advanced developments that produces Innovative, Skilful, socially responsible professionals who can contribute significantly to Industry and Research.

Mission:

M1: To provide the skilled manpower with state-of-art knowledge in Electronics and Communication Engineering.

M2: To provide the Professionals to the nation with innovations and ideas in the area of advanced Electronics and Communication through.

M3: To provide the professionals for participating in the design and development process of industries and society

Institution's Innovation Council (IIC)

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. Chief Functionaries of the IIC at AVN Institute of Engineering & Technology, Hyderabad

Name	Position
Dr. P. Nageshwara Reddy	Convener
Dr. Murali Krishna Namana	IPR Activity Coordinator
Mr. B Kishor Babu	Vice President
Dr. N Suresh	ARIIA Coordinator, Innovation Activity
Mr. K CHANDRA SHEKAR	Member
Mr. JANAGAM VENKATESH	Member
Mr. CH Sridhar	Member
Mr. G Chandra Shekar	Member
Mr. B. Rambhupal Reddy	Member

IETE STUDENT'S FORUM

The Institution of Electronics and Telecommunication Engineers (IETE) founded in 1953 is one of the leading professional societies in India. The IETE Students' Forum shall be set up at each major recognized Engineering College / University, with the assistance and involvement of senior faculty members of the Institution.

INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS(IETE) STUDENTS ASSOCIATION COMMITTEE MEMBERS

Name of the faculty	Designation
Mrs.B.MAMATHA	ISF FACULTY COORDINATOR

NAME	DESIGNATION
P. HARICHANDANA	PRESIDENT
C.KEERTHI	VICE PRESIDENT
G.PALLAVI	SECRETARY
AJAY	JOINT SECRETARY
A.SRIHARI	TREASURER



ABACUS STUDENT ASSOCIATION

In the year 2014 a unofficial student association in department is started and named as E-Cell. On 29 march 2018 a official student association was started in ECE Department and it is named has AVIENT BITS AND CHIPS UNION OF STUDENTS (ABACUS) and again on 23 April 2022 ABACUS was restarted in department. The purpose of ABACUS association is to help students and improve their graduation experience in different ways and also help students create connections, build relationship, and expand their skill beyond the classroom



AVIENT BITS AND CHIPS UNION OF STUDENTS ASSOCIATION LOGO AVIENT BITS AND CHIPS UNION OF STUDENTS ASSOCIATION COMMITTEE MEMBERS IN 2022

AVIENT BITS AND CHIPS UNION OF STUDENTS ASSOCIATION COMMITTEE MEMBERS

S.No.	Roll Number	Name of the Student	Designation	Year
1	195U1A0415	CHEGUNTA ESHWAR REDDY	President	IV
2	195U1A0459	NERAVETLA MANISHA	Vice-President	IV
3	205U1A0437	THURPATI RAMBABU	Secretary	III
4	215U5A04A2	S.VINUTHNA	Joint Secretary	II
5	215U5A0419	GADDAM VENU	Treasurer	III

S.No.	Name of the faculty	Designation
1.	Mrs.B.MAMATHA	Faculty Coordinator
2.	Mr.Ch.SREEDHAR	Faculty Coordinator

EVENTS ATTENDED AT IETE HYDERABAD



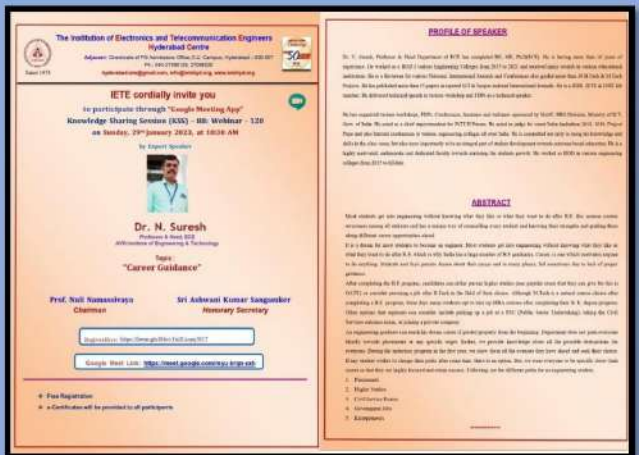
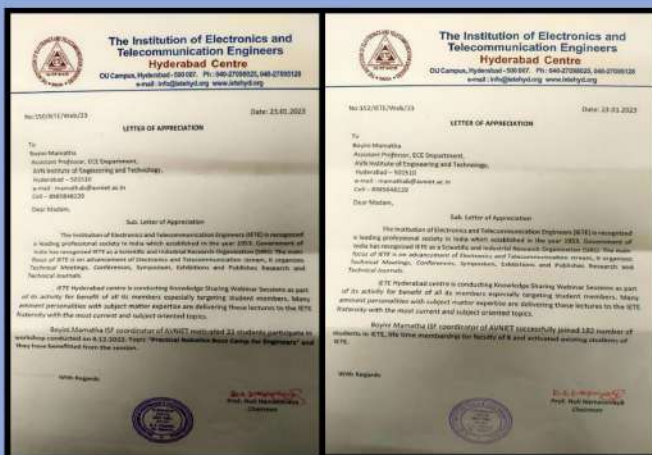
IETE REGIONAL MEET



ISF COORDINATORS MEET @ IETE, HYD.



ONE DAY WORKSHOP ON ROBOTICS @IETE, HYD.



APPRECIATION LETTER FROM IETE

ACTED AS RESOURCE PERSON

	No. of Students registered	No. of Faculty registered (lifetime)
Active members of IETE	230	10

LIST OF FACULTY

S.No	Name	Designation
1	Dr.N.Suresh	Professor & HOD
2	Dr. Vassoudevan.R	Professor
3	Dr.Shaik Noor Mohammad	Associate Professor
4	Dr.A.Rosi	Associate Professor
5	Mr.CH.Sreedhar	Assistant Professor
6	Mr.MD.Gandhi Babu	Assistant Professor
7	Mr.K.Santosh Kumar	Assistant Professor
8	Mrs.B.Mamatha	Assistant Professor
9	Ms.K.Soumya	Assistant Professor
10	Mrs.G.Swetha	Assistant Professor
11	Mr.M.Amarendar Reddy	Assistant Professor
12	Mr.M.Ramesh	Assistant Professor
13	Mrs.M.Arpana	Assistant Professor
14	Mr.Arshad Khan	Assistant Professor
15	Mr.M.Sreenu	Assistant Professor
16	Ms.K.Ramya	Assistant Professor
17	Mr.J.Venkatesh	Assistant Professor
18	Mrs.Komala Devi	Assistant Professor
19	Mr.B.Rambhupal Reddy	Assistant Professor
20	Mrs.M.Revathi	Assistant Professor
21	Mr.D.Sandeep	Assistant Professor
22	Mr.J.Shiva Shankar	Assistant Professor



INNOVATIVE TEACHING METHODOLOGIES

PUPIL CENTRED-SEMINAR



INSTRUCTIONAL TECHNOLOGY-USING TEACHING AIDS



TEACHER'S CENTRED-PRESENTATION



PUPILS CENTRED-GROUP DISCUSSION



FACULTY ACHIEVEMENTS

S.No.	NAME	DESIGNATION	ACHIEVEMENTS
1.	Dr.N.Suresh	Professor & HOD	FDP, Acted as Resource Person, Paper Publication, Resource Person – Two Days FDP on OBE, Six Days FDP on Communication & Computation, Resource Person for Guest Lecture on Control Systems, Resource Person for Online Lecture on Career Guidance, Resource person for webinar in Iete, FDP on Research methodologies and innovative teaching techniques
2.	Mr.CH.Sreedhar	Assistant Professor	FDP, IIC Innovative Ambassador –Foundation Level, IIC-Innovative Ambassador-Advanced Level, Six Days FDP on Communication & Computation, FDP on Research methodologies and innovative teaching techniques
3.	Mr.MD.Gandhi Babu	Assistant Professor	Participated webinar on overview of micro strip antennas and scattering parameters, Cyber security challenges and methods of mitigation, Performance comparison of navigation systems, FDP on Research methodologies and innovative teaching techniques
4.	Mr.K.Santosh Kumar	Assistant Professor	FDP on Research methodologies and innovative teaching techniques
5.	Mrs.B.Mamatha	Assistant Professor	ISF Coordinator received letter of appreciation from IETE HYD for making 22 students to participate in one day workshop on Practical Robotics Boot Camp for Engineers and making 182 students and 8 Faculty members register for IETE membership. FDP on Research methodologies and innovative teaching techniques
6.	Ms.K.Soumya	Assistant Professor	FDP on Research methodologies and innovative teaching techniques
7.	Ms.K.Ramya	Assistant Professor	NPTEL-Cryptography and Network Security, FDP on Research methodologies and innovative teaching techniques
8.	Mr.M.Amarendar Reddy	Assistant Professor	Work shop on-FDP on Values & Spirituality in Education, Research methodologies and innovative teaching techniques
9.	Mr.M.Ramesh	Assistant Professor	FDP on Research methodologies and innovative teaching techniques
10.	Mrs.M.Arpana	Assistant Professor	FDP on Research methodologies and innovative teaching techniques
11.	Mr.J.Venkatesh	Assistant Professor	IIC Innovative Ambassador – Foundation Level, IIC-Innovative Ambassador-Advanced Level Acted as Resource Person, FDP on Research methodologies and innovative teaching techniques
12.	Mrs.M.Revathi	Assistant Professor	FDP on Research methodologies and innovative teaching techniques
13.	Mr.Arshad Khan	Assistant Professor	Six Days FDP on Communication & Computation, FDP on Research methodologies and innovative teaching techniques
14.	Mr.M.Sreenu	Assistant Professor	FDP on Research methodologies and innovative teaching techniques

FACULTY CERTIFICATIONS

Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE
DEEMED TO BE UNIVERSITY
(An ISO 21001:2018 Certified Institution)
Prof. C.V. Subb Reddy, Hyderabad, India

Department of Electronics and Communication Engineering

Certificate of Participation

This is to certify that

.....
Dr N SURESH

has actively participated in **Six Days Faculty Development Program** on **Communication and Computation** held from 13 to 17 & 19.12.2022.

V. Jagan
HOD-ECE

C. B. Palanisundar
REGISTRAR

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
2, Institutional Area, Lodhi Road, New Delhi - 110003
Ph: +91(011)45142153, 24649429
E-mail: membership@iete.org

LIFE MEMBERSHIP CARD
(NON-TRANSFERABLE)

Mem No.: M-503518 Enrol Dt.: 11-02-2023
Name: B Rambhupal Reddy
DOB : 12-10-1983

B.R.

S.P. Singh
Gp Capt Sonpal Singh (Retd)
Secretary General

The Institution of Electronics and Telecommunication Engineers
Hyderabad Centre

CERTIFICATE OF PARTICIPATION

This is to certify that

BOYINI MAMATHA

has participated in the IETE Knowledge Sharing Session (KSS) – 82: Webinar - 114 on
"Overview and Insights to Cellular and Mobile Communication"
organized by IETE, Hyderabad Centre on 20th November 2022.

Sri Ashwani Kumar Sangamker
Honorary Secretary

Prof. Nuli Namastiraya
Chairman

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Ministry of Education, Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTIONS INNOVATION COUNCIL

This is to certify that

Mr. CH Sridhar

of

AVN Institute of Engineering & Technology, Telangana

has undergone Innovation Ambassador (IA) training 'Advanced Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year 2021-22.

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Officer
MoE's Innovation Cell

Date of Issue: 05-09-2022

E-certificate No: IA/Advance/118042

IIC ID: IC002218562

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

This certificate is awarded to

MADUGULA RAMESH
for successfully completing the course

Cloud Computing

with a consolidated score of **54 %**

Online Assignments: 22.83/25 Proctored Exam: 31.51/75

Total number of candidates certified in this course: 4761

Prof. Jayanta Mukhopadhyay
Chairman, NPTEL

Jan-Apr 2022
(12 week course)

Prof. Dattajai Chakraborty
Coordinator, NPTEL

Indian Institute of Technology Kharagpur

www.nptel.ac.in

NPTEL ID: NPTEL22CS0533531526

Annamacharya Institute of Technology and Sciences
(Pulapeta (V), Bhusampalem (P), Rang Reddy Dist., Hyderabad - 501512)
(Approved by AICTE and Permanently Affiliated to JNTUH)
Accredited by NAAC with 'B+' Grade

Department of Electronics and Communication Engineering

Certificate of Participation

This is to certify that **MADUGULA RAMESH**, Assistant professor of AVN Engineering College, Kotheda Bhusampalem has participated in One Week online Faculty Development Programme on, **"Communication Systems using Machine Learning Algorithms (CSMLA)"** organized by the Department of Electronics & Communication Engineering, Annamacharya Institute of Technology and Sciences, Hyderabad, during 14-19 March, 2022.

Nitesh Gaikwad & Dr. Komati Sathish
Coordinators

Dr. A. Sreenivasa Rao
Convener & HoD, ECE

Dr. P.V. Krishna Murthy
Principal

Ministry of Education, Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTIONS INNOVATION COUNCIL

This is to certify that

Mr. JANAGAM VENKATESH

of

AVN Institute of Engineering & Technology, Telangana

has undergone Innovation Ambassador (IA) training 'Advanced Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year 2021-22.

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Officer
MoE's Innovation Cell

Date of Issue: 30-08-2022

E-certificate No: IA/Advance/118044

IIC ID: IC002218562

The Institution of Electronics and Telecommunication Engineers
Hyderabad Centre

CERTIFICATE OF PARTICIPATION

This is to certify that

MOHAMMAD GANDHI BABU

has participated in the IETE Knowledge Sharing Session (KSS) – 68 :
Webinar - 100 on
"PERFORMANCE COMPARISON OF NAVIGATION SYSTEMS"
organized by IETE, Hyderabad Centre on 24th July, 2022.

Sri Ashwani Kumar Sangamker
Honorary Secretary

Prof. Nuli Namastiraya
Chairman

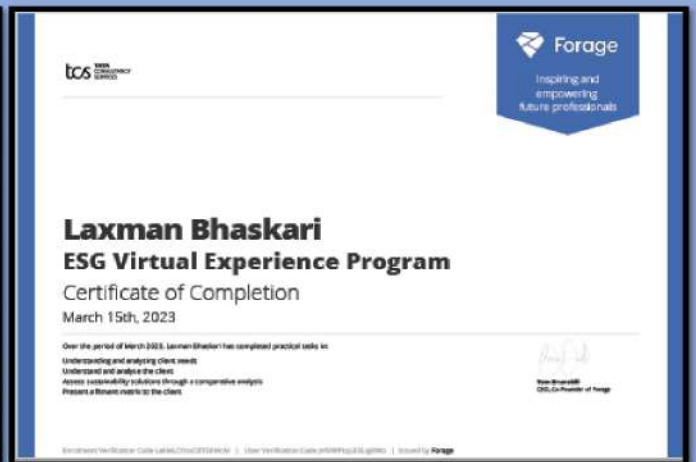
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STUDENTS ACHIEVEMENTS

Reg. No	Year/ Sem	Name of the Students	Name of the Programme	Date
205U1A0407 205U5A0412	III/I	B.Sai Karthik Reddy B.Anil Yadav	Webinar – Becoming a Professional Programmer	18.9.2022
205U1A0437 205U1A0433 205U1A0218 205U1A0440 205U1A0432 215U5A0419 205U1A0428 205U1A0414 205U1A0434 215U5A0428 215U5A0401 215U5A0409 215U5A0421 215U5A0417 215U5A0429 215U5A0415 215U5A0413 215U5A0431 215U5A0408 215U5A0416 215U5A0424 215U5A0414	III-I	T.Ram Babu T.Sreeja Reddy G.Bhargav Y.Jashwanth Reddy Shiva Raj G.Venu ShivaTeja G.Tejaswi T.Varsha P.Hari Chandana Narsimha Renuka Vishnuja Pallavi R Divya Ruchitha Ramesh Shravan Charan Mahesh Navya Ajay goud	One Day Workshop on PRACTICAL ROBOTICS – BOOT CAMP FOR ENGINEERS	04.12.2022
205U1A0427 215U5A0427	III-I	M.Ramya Satvik	Two days Technical Fest- First prize in Probotics under Fixit	23.12.222 -24.12.22
205U1A0434 215U5A0421 215U5A0435	III-I	Varsha T.Sravan Kumar Akhil Kumar	Two days Technical Fest- Second prize in Probotics under Tech Buzz	23.12.222 -24.12.22
205U1A0433	III/I	T.Sreeja Reddy	First Prize in Rangoli - Cultural Fest	12.01.2023
205U1A0433	III/I	T.Sreeja Reddy	Second Prize in Mehendi -Cultural Fest	12.01.2023
215U5A0428	III/I	Harichandana	Pot Painting-Cultural Fest	12.01.2023
215U5A0424	III/I	K.Navya	Bouquet preparation-Cultural Fest	12.01.2023

STUDENT'S CERTIFICATIONS



PLACEMENTS DETAILS

S.NO	Name of the Company	Name of the student	Package
1	Eidiko	P.Akshay	5LPA
2	Zognu	Rithik Ghanathe	4LPA
3	Intellipaat	Rupa samudrala	9LPA
4	Learning Shala	Rupa samudrala	5.28LPA
5	Surya Tech	1. G. Sai Teja 2.B.Ganga Praveen 3.B.Shivakumar 4.O.Harish 5.T.Shashank 6.S.kotes 7.Abhil Ashreddy Gangula 8.P.Akshay 9.B.Madhu 10.T.Manikanta 11.P.Shirish 12.G.Rithik 13.T.Nikhil Reddy 14..B.Suresh 15.P.Venkatanarayana 16.D.Rakesh 17.A.Shashank Reddy 18.S.Sai Teja 19.M.Ruthivila Reddy 20.C.Eswar Reddy 21.M.Praveen 22.M.Raghuvardhan 23.K.Kranthi Kumar 24.M.Maheshwar Reddy	3.LPA
6	Q-Spiders incubation	1.S.Rupa 2.M.Vaishnavi 3.S.Pallavi Reddy 4.S.Niharika 5.T.Sruthi 6.S.Kotes 7.P.Akshay 8.T.Shashanka	—
7	Planet spark	1.R.Sathvika Reddy 2.Rupa Samudrala 3.Abhinaya Reddy	6.80LPA
8	Genpact	B.Deepthi	3LPA
9	Acedemor	1.P.Jayasritha 2.C.Eshwar Reddy 3.T.Sruthi 4.A.Shashank Reddy 5.Madhu Goud 6.P.Akshaya 7.K.Ritieshsai 8.P.Sravani 9.N.Manisha 10.T.Manikanta 11.S.Pallavi Reddy 12.R.Sathvika Reddy 13.M.Vaishnavi	6.5LPA

STUDENT ACTIVITIES

Events In The Month Of July:



PROJECT EXPO



CIRCUIT MANIA



QUIZ



GIRLS BOX CRICKET

Events In The Month Of August:



One week Faculty Development Program

Events In The Month Of September:



Teacher's Day Celebrations



Engineer's Day

Events In The Month Of October:



Dussera celebrations

Events In The Month Of November:



Interaction with I year students



Interaction with II year students



One Day Seminar on Entrepreneurship



Guest lecture on Control Systems

Events In The Month Of December:



III year student's Industrial Visit to Physitech Electronics



Project Expo by IV Year Students



2 Days Faculty Development Program

Events In The Month Of January:



Project Expo by II Year Students



Students and Staff of ECE Department 2022-2023

Thank You Note

We would like to thank our Management, Principal, HOD & Faculty for giving opportunity to publish the magazine on behalf of our Department. We feel happy to publish ECLATZ volume-II magazine. We got immense support from our faculty, and special thanks to Magazine Faculty coordinator Mrs.B.Mamatha Ma'am. She encouraged us and helped in completion of Magazine.

MAGAZINE COORDINATORS

STUDENT COORDINATORS:

N.MANISHA REDDY – IV YEAR

G.VENU – III YEAR

FACULTY COORDINATOR:

Mrs.B.MAMATHA

ASSISTANT PROFESSOR