AVN Institute of
Engineering & Technology

NBA
NATIONAL BOARD
of ACCREDITATION

ACCREDITED WITH GRADE
A
NAAC

Department of
Electronics & Communication Engineering

Academic year 2021-2022

ECLATZ

Volume-I

THE INSTITUITON OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
IETE
TELECOMMUNICATION ENGINEERS
INDIA

INDIAN SOCIETY FOR TECHNICAL EDUCATION
ISTE

AVN INSTITUTE OF ENGINEERING AND TECHNOLOGY
ECE
ABACUS
LET'S GROW TOGETHER

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

Students and Staff of ECE Department
2021-2022

MAGAZINE COORDINATORS

STUDENT COORDINATORS:

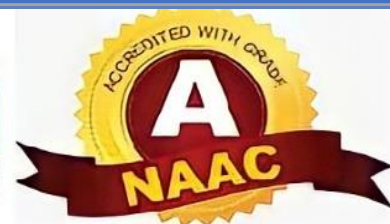**N.MANISHA REDDY – III YEAR**

G.VENU   – II YEAR

FACULTY COORDINATOR:

Mrs.B.MAMATHA

ASSISTANT PROFESSOR

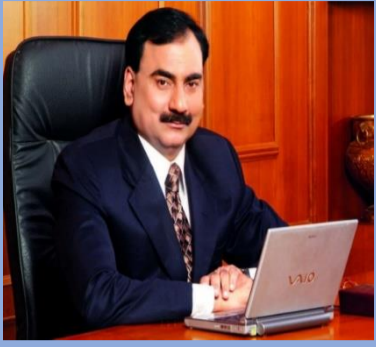**AVN** INSTITUTE OF ENGINEERING & TECHNOLOGY
Accredited by NAAC & NBA

NBA NATIONAL BOARD of ACCREDITATION

ACCREDITED WITH GRADE A NAAC

WWW.AVNIET.COM

Campus:
Koheda Road, Ibrahimpatnam (M), Ranga Reddy (Dist).
9248011441/2/6/8

CHAIRMAN

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 foe 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.

Sri.AVN Reddy, MSC.
Founder-Chairman

VICE CHAIRMAN

Elder son of chairman Mr.Avn Reddy, he reflects his father's vision, the values and had always succeeded in providing them with his shares of thoughts and steered in his own style. An MBA graduate, he is completely driven with the management skills and led to the growth of the institutions to a higher of prosperity.

Mr.A.Naveen Reddy,
MBA

SECRETARY

Younger son of chairman Mr.AVN Reddy, he utilizes his international exposure in providing the institutions with global outlook. He provides an international interface that he had developed over the years using his creative abilities and versatility.

Mr.A.Pavan Reddy,
B.E. M.SC.,(Uk)

Principal

Brining along with him his 19years of teaching experience, he has joined AVN institute of engineering and Technology as Principal. He has published more than 20 papers in National and international conferences and journals. He is a life member in international Association of Computer Science and information Technology, Fellow of Institution of electronics and Telecommunication Engineering, and an editorial board member in various reputed international journals.

Dr.Harikrishna Kamatham,
M.S(USA), Ph.D,FIETE

ECE HOD

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

Dr.N.Suresh
B.E,M.E,Ph.D

ABOUT AVNIET

AVNIET was established in 2009. AVNIET comes from the able management of Dilsukhnagar Public School having 36 years of academic excellence, under the leadership of Chairman Mr. AVN Reddy. AVNIET is the 11-year-old successful technical institution located at Ibrahimpatnam town 18 Kms away from Hyderabad in Ranga Reddy district. AVNIET boasts of a sprawling campus situated in the lap of nature and endowed with ambience of peace and serenity. AVNIET, a premier institution offering engineering education in the streams of CSE, ECE, CIVIL and Mechanical, 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 primary objective is to produce high quality enterprising students with excellent technical skills by which they can contribute for the society development.

AVNIET accredited with NAAC A grade in year 2022 &NBA
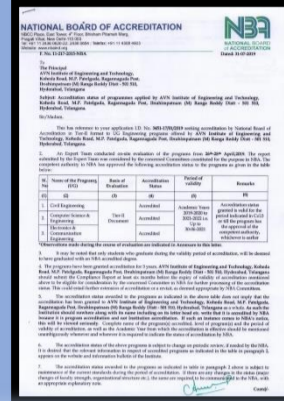
ABOUT ECE DEPARTMENT

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:

MI: 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.

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

NAME	DESIGNATION
A.PRATHYUSHA	PRESIDENT
C.ESHWAR REDDY	VICE PRESIDENT
N.MANISHA REDDY	SECRETARY
T.RAMBABU	JOINT SECRETARY
G.VENU	TREASURER

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.

OBJECTIVES OF THE CLUB:

1.Improving the standards of Engineering Education.

2.Counseling the students in the emerging new opportunities

3.Encouraging and motivating the outside Class room studies /Work/Shops/Projects/Seminars

4.Increasing the student base and corporate membership of IETE

ISTE (Indian Society for Technical Education

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for Technical Education System in our country with the motto of Career Development of Teachers and Personality Development pf Students and overall development of our Technical Education System.

Objective Of The ISTE:

1.To formulate general goals & responsibilities of technical education

2.To develop effective teachers & educational administrators.

3. To improve instructional methods & practices & administrative usages.

COURSES OFFERED:
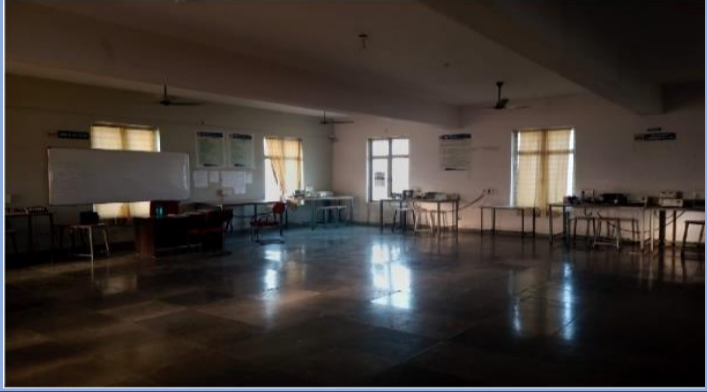
➢ B.TECH ECE – 120 seats

➢ M.TECH VLSI & ES – 24 seats

TOPPERS OF THE SEMESTER

Year - Sem	Hall Ticket No.	Name of the student	Percentage
IV-I	195U5A0412	K.SHIVANI	7.6 CGPA
III-I	195U1A0471	P.AKSHAYA	77.3%
II-I	205U1A0437	T.RAMBABU	73%

DEPARTMENTAL FACILITIES

S.NO	FACILITY	ROOM NO	PHOTO
1	HOD CABIN STAFF ROOM	B-205/A	
2	E-CAD Lab	B-402	
3	Digital System Design Lab	3-308/B	
4	Electronics Devices & Circuit Lab	B-208/A	
5	Linear IC Applications Lab	B-208/B	
6	BS Lab DSP Lab	B-201/A	
7	ECA Lab	B-201/B	

8	ADC Lab	B-201/C	
9	Microprocessors & Microcontrollers Lab	B-308/A	
10	Microwave Engineering Lab	B-301/A	
11	Dept. Library	B-301/C	
12	Dept. Seminar Hall	B-001	
13	Project Lab	B-301/B	
14	Embedded System Lab	D-201	

LIST OF FACULTY

S.NO	NAME OF THE FACULTY	DESIGNATION
1	Dr.Harikrishna Kamatham	PROFESSOR & PRINCIPAL
2	Dr.N.Suresh	PROFESSOR & HEAD
3	DR. R. Purushotham Naik	PROFESSOR
4	Dr.K ashok kumar	PROFESSOR
5	Dr.G.Sudhagar	PROFESSOR
6	DR. G. Jagga Rao	PROFESSOR
7	Mr.MD.GandhiBabu	ASSOC.PROF
8	Mr.Ch.Sreedhar	ASSOC.PROF
9	Mr.B.Kishore Babu	ASSOC.PROF
10	Mr.K.Santhosh Kumar	ASSOC.PROF
11	Mt.M.Ramesh	ASST.PROF
12	Mrs.B.Mamatha	ASST.PROF
13	Mr.M.Kanekeshwar reddy	ASST.PROF
14	Ms.k.Soumya	ASST.PROF
15	Mrs.M.Arpana	ASST.PROF
16	Mrs.G.Swetha	ASST.PROF
17	Mr. Arshad Khan	ASST.PROF
18	Ms.Rekha B	ASST.PROF
19	Mrs.E.Tejaswi	ASST.PROF
20	Mrs.k.Nagarani	ASST.PROF
21	Mr.D.Sounder	ASST.PROF
22	Mr.M.Amarendhar reddy	ASST.PROF
23	Ms.K.Ramya	ASST.PROF
24	Mr.M.Sreenu	ASST.PROF
25	Mr. R Trupthi	ASST.PROF
26	Mr.K Chndrashekar Nayak	ASST.PROF
27	Mr.Jerritothula Babu	ASST.PROF
28	Mr.K.Venkat	LAB ASSISTANT
29	Mr.P.Vedesh	LAB ASSISTANT
30	Ms.Sk.Reshma	LAB ASSISTANT

FACULTY ACHIEVEMENTS

S.NO	NAME OF THE FACULTY	ACHIEVEMENTS
1	DR.N. SURESH	NPTL-COMPUTER ARCHITECHURE, FDP-ICT TOOLS FOR ENGINEERING COLLEGE TEACHING AND OUTCOME BASED LEARNING,WEBINAR -CAREER GUIDANCE,ICACCMS, PAPERS PUBLISHED-38
2	M.KANAKESHWAR REDDY	NPTL-CMOS DIGITAL VLSI DESIGN, CLOUD COMPUTING, FDP-AI AND IOT, DISRUPTIVE TECHNOLOGIES IN ELECTRONICS & COMMUNICATIONS, CMOS DIGITAL VLSI DESIGN,AWS ACADEMY CLOUD FOUNDATION, PAPERS PUBLISHED-4
3	M.RAMESH	NPTL-CLOUD COMPUTING, FDP-CLOUD COMPUTING, PAPERS PUBLISHED-3
4	CH.SREEDHAR	FDP-COMMUNICATION SYSTEMS USING MACHINE LEARNING ALORITHMS, MACHINE LEARNING WORKSHOP-INTRODUCTION TO HIGH FREQUENCY ELECTROMAGNETIC SIMULATION FROM ANSYS, PAPERS PUBLISHED-2
5	MD.GANDHI BABU	ATAL FDP-DATA SCIENCE WEBINAR-CYBER SECURITY AICTE STIP-EMBEDEED SYSTEM BASED SMART FARMING WITH LESS WATER AND FERTILIZER VIA IOT TECHNOLOGIES CONFERENCE –TRANSFORMATIONS IN ENGINEERING PAPERS PUBLISHED-5
6	K.SOUMYA	NPTL-CLOUD COMPUTING, MICROPROCESSORS AND INTERFACE FDP-DATA SCIENCE,5G FOR MOBILE COMMUNICATIONS AICTE STIP - EMBEDEED SYSTEM BASED SMART FARMING WITH LESS WATER AND FERTILIZER VIA IOT TECHNOLOGIES CONFERENCE –TRANSFORMATIONS IN ENGINEERING, PAPERS PUBLISHED-3
7	M.ARPANA	FDP-SIMULATION AND MODELING OF DATA COMMUNICATIONS&NETWORKS, COMMUNICATION SYSTEMS USING MACHINE LEARNING ALORITHMS WORKSHOP-INTRODUCTION TO HIGH FREQUENCY ELECTROMAGNETIC SIMULATION FROM ANSYS.
8	B.MAMATHA	WEBINAR-INTELLECTUAL PROPERTY RIGHTS,PLC AND ITS INDUSTRIAL APPLICATIONS,DRONE TECHNOLOGY FDP-DISRUPTIVE TECHNOLOGIES IN ELECTRONICS & COMMUNICATIONS ,PAPERS PUBLISHED-7
9	K.RAMYA	FET-ROBOTIC PROCESS AUTOMATION TRAINING ADET- ROBOTIC PROCESS AUTOMATION TRAINING, PAPERS PUBLISHED-3
10	B.REKHA	FDP- COMMUNICATION SYSTEMS USING MACHINE LEARNING ALORITHMS, PAPERS PUBLISHED-4
11.	G.SWETHA	FDP- COMMUNICATION SYSTEMS USING MACHINE LEARNING ALORITHMS, PAPERS PUBLISHED-3
12	K.NAGARANI	WEBNIAR-PLC AND ITS INDUSTRIAL APPLICATIONS, PAPERS PUBLISHED-4
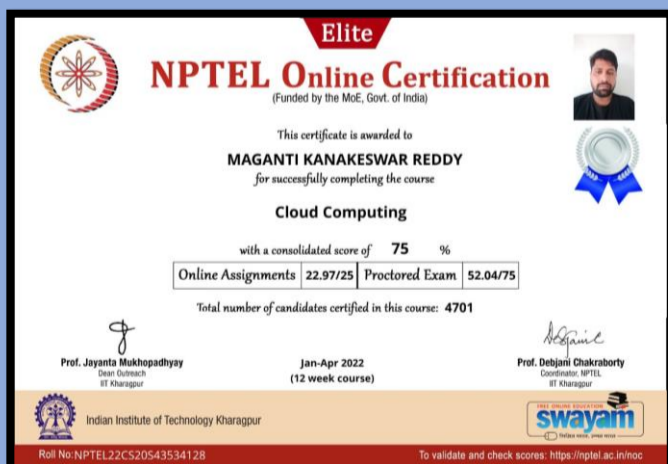
STUDENT ACHIEVEMENTS

Internship Certificate
INTERNSHIP CERTIFICATE

THIS IS TO CERTIFY THAT

Gaddam Venu

has successfully completed internship program in VLSI.. from 20th Mar, 2022 to 20th May, 2022. During the internship, the student was found to be dedicated, hardworking and diligent.

Academic Head — Director Signature

APSIS Solutions — INNOVATING THROUGHOUT

1stop Keep Growing

Bharath Institute of Higher Education and Research
Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)
(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

Certificate of Participation

This is to certify that

Ms. Munnangi Vaishnavi

AVNIET

has participated in International webinar series on "Information Technology and Global Employment Opportunities" on 26 June 2021 by "Mr.Ravi Srinivasan" organized by Department of Computer Science and Engineering, School of Computing, Bharath Institute of Higher Education and Research, Chennai - 73.

Dr. B. Persis Urbana Ivy — HoD- CSE
Dr. S. Neduncheliyan — Dean - SoC

Sphoorthy Engineering College Certificate
SPHOORTHY ENGINEERING COLLEGE
B.Tech. • MBA

J HUB

CERTIFICATE
OF PARTICIPATE
36-Hrs HACKATHON

This Certificate is awarded to :

NAME: **M. Vaishnavi**
COLLEGE: **AVNIET**
OF **3rd -ECE** FOR PARTICIPATING IN THE **36-Hrs HACKATHON** ORGANISED BY CREATOR CLUB HOSTED BY SPHOORTHY ENGINNERING COLLEGE IN ASSOCIATION WITH **JHUB, JNTU** ON 17TH & 18TH OF JUNE, 2022

SECRETARY
S. JAGAN MOHAN REDDY

PRINCIPAL
Dr. JBV SUBRAHMANYAM

DEAN
Dr. B.V.KANNAN

C.F.E
SHARATH VEDALA

GTT Foundation Certificate
GTT FOUNDATION

This is to certify that

VAISHNAVI MUNNANGI

has successfully completed the **Barclays LifeSkills Programme** conducted by **GTT Foundation** at Avn institute of engineering and technology

We wish the participant a very successful career ahead.

Date: 9TH MAY 2022

Dr. Uma Ganesh
Principal Trustee,
GTT Foundation

Supported by
BARCLAYS

National Sports & Physical Fitness Board
National Sports & Physical Fitness Board
Regd. Under Trust Act.1882 (Govt. of India) No. 4937
Regd. With Ministry of Micro, Small and Medium Enterprises (Govt. of India)
No. 22/05/15/14D0006545
Affiliated To
Asian Sports & Physical Fitness Board
MSME

Fair Play Pledge Certificate

This certificate is proudly awarded to
Gaddam Venu

who solemnly resolves to promote fair play and uphold the nobility of a True Sportsperson in every situation. He/She will abide to all the rules and regulations, respect all the athletes/teammates and opponents, elevate the Spirit of Sports and not indulge in any kind of biasness.

Sh. Padi Richo
President
National Sports & Physical Fitness Board
Former Sports Minister – Arunachal Pradesh
Vice President – Indian Olympic Association

Dr. (Prof.) Sandeep Bhalla
Founder & Secretary Gen.
National Sports & Physical Fitness Board
Director of Sports
Indira Gandhi TMS University, Ziro, Ar. P.

Office : # 1776-D, (FF), SUSHANT CITY, ANSAL API, PANIPAT 132103 HARYANA (INDIA)
E-Mail: nationalsportsboard@gmail.com   Mob. 9996035055   Web: www.nationalsportsboard.com

Certificate of Project Completion
CERTIFICATE
OF PROJECT COMPLETION

APSIS Solutions — INNOVATING THROUGHOUT

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Gaddam Venu

has successfully undergone Industrial Program on VLSI.. from Apsis Solutions from 10th Feb, 2022 to 10th Apr, 2022 and successfully completed the projects on
- Basic Circuits written in Verilog HDL implemented on the FPGA
- UART Communication to print a single character
- FSM Designs : Mealy & Moore Machines and Up Down Counter
Under the guidance of the mentor and company representative

15-Apr-2022
DATE

APS-2204000187

1stop Keep Growing

PROJECT HEAD

EduSkills Certificate
EduSkills
Nation Building Through Skills

PARTICIPATION CERTIFICATE

Proudly Presented to

RAMIDI SANDEEP REDDY

AVN Institute of Engineering & Technology

For sucessfully participating in the

BLUE PRISM RPA FOUNDATIONS
Learn-A-Thon

from 10th August to 23rd August 2020

Director, EduSkills

Organised by
blueprism | University
Academic

Certificate No: 709a929ade1275139e54f1fdd85801f8

Blue Prism University Certificate
blueprism | University

CERTIFICATE OF PARTICIPATION

Certificate of Participation

is hereby granted to

Yalla Prasanna Kumari

in recognition of successful participation in

Blue Prism Foundation Training

Date of Completion: **23/08/2020**

THIS CERTIFICATE IS NOT VALID AS A FORMALLY AUTHORIZED COURSE COMPLETION OR CERTIFICATION.

PLACEMENT DETAILS

S.NO	NAME OF THE STUDENT	LIST OF COMPANIES OFFERED	PACKAGE PER YEAR
1	MAHESH SOMAPANGA	TECH MAHINDRA	3.25
2	AMBICA SANDRA	1	4
3	AMULYA PULIJALA	1	3.2
4	SHIVANI KASARLA	INFOSYS(3.6LPA), HEXAWARE(4LPA) WIPRO (3.06LPA0, TECHMINDRA(3.25LPA) SONATA SOFTWARE(4LPA), IOPEX TECNOLOGIES(4LPA)	4
5	GENTELA N V S LALIT	FIXITY TECHNOLOGY	4
6	RAMIDI SANDEEP REDDY	2	4
7	SHIVANI NARA	TCS, CSS	3.6
8	K.SHIRISHA	CSS CORP PRIVATE LIMITED	2.5
9	NAGARI SATHVIKA	IBM, WIPRO	4.5LPA,3.5LPA
10	VORUGANTI PRANATHI	HEXAWARE TECHNOLOGIES	4
11	SRILEKHA SHASTRULA	1	3.6
12	YALLA PRASANNA KUMARI	WIPRO	3.5
13	NANDINI MALAVATH	TCS	3.6
14	CHANDRAKATH REDDY	FISSION INFO TECH PRIVATE LIMITED	3.2
15	SAI PAVAN KUMAR	FISSION INFO TECH PRIVATE LIMITED	3.2
16	LANKA TEJDEEP	FISSION INFO TECH PRIVATE LIMITED	3.2

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AVNIET PLACEMENTS 2021-22

Congratulations

Ms.K.Shirisha
195U1A0411
for Getting Placed @CSS Corp Privated Limited
@ @avnietofficial
www.linkedin.com/in/avniet-placements

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AVNIET PLACEMENTS 2021-22

Congratulations

S Mahesh
185U1A0485

for getting placed at @ Tech Mahindra
@ @avnietofficial
www.linkedin.com/in/avniet-placements

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AVNIET PLACEMENTS 2021-22

Congratulations

Srilekha Shastrula
185U1A0486

for getting placed at @ Infosys
@ @avnietofficial
www.linkedin.com/in/avniet-placements

ALUMNI TALK'S

Name: Saba Sultana

Roll No: 165U5A0420

Present Company Name: Yiot Softech pvt LTD

Designation: Hardware engineer

I am glad to provide you with my feedback about the college. My overall experience to date has been amazing, and the college is having an amazing infrastructure. Your college has provided me with a number of opportunities to grow and explore my skills. I have always found a positive and healthy environment and the teachers are highly supportive. Most of my doubts were cleared after the classes get over. I am highly thankful to you for providing me with an opportunity to be a part of your college. It has added a number of values to my life.

Name: Nethi Harish
Roll No: 155U1A0465
Company Name: AR Solutions
Designation: Team Leader

AVNIET is dedicated for students in transforming motivations. Professional Skills, and to gain self-confidence, it maintains high educated staff, AVNIET achieved A grade in NAAC and NBA. The college has provided me with a number of opportunities to grow and improve my skills.

Name: Seena Sabu

Roll No:155U1A0486

Company name: CSS Corp

Designation: System engineer

The college has an amazing infrastructure. The college has provided me with a number of opportunities to grow and improve my skills. I have always found a positive and healthy environment and the faculties are highly supportive and helped me to improve my academic and interpersonal skills. I never felt I was alone, there was always someone who could help me or someone I could ask help if I had a problem.

Name: Sai Sandeep Nelapati
Roll No: 145U1A0468
Designation: IT employee (AUSTRALIA)

I've finished my Master's Degree in 2021 with specialisation in Information Systems. "I thank the institute and the faculty for all the efforts put in by them, along with the perseverance and right moves have paid off finally. All my batch mates are doing well in their respective jobs which reflect the quality of the students the institute has produced.

Technical Events

GUEST LECTURE

INDUSTRIAL VISIT

FACULTY DEVELOPMENT PROGRAM

WORKSHOP

PARENTS TEACHERS MEETING

EXPERT TALK

NON-TECHNICAL EVENTS

BATHUKAMMA CELEBRATIONS

RUDRASANDHAAN 2022

Note Of Thanks

We would like to thank our Management, Principal sir, ECE HOD & Faculty for giving this opportunity to publish the magazine on behalf of our Department, we felt very happy to design this year magazine. We got immense support from our faculty, and special thanks to Magazine Faculty coodinator Mrs.B.Mamatha Ma'am. She encouraged us and helped in completion of Magazine.