



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

TECHINNOVATION

NEWS LETTER

JAN - MAR, 2021

DEPT. OF ECE

VOLUME NO.: 19

ECE Department

Department of Electronics and Communication Engineering was started since the inception of Vignan's Institute of Management and Technology for Women during 2008 with an initial intake of 90. The strength was enhanced to 120 during 2010. The Department had added Post graduate programme in VLSI during the year 2011 and Embedded Systems during 2014 with an intake of 18 each.

The Department has state-of-art laboratories equipped with advanced and well maintained equipment, continuously updated application software packages, more than adequate computing systems with 24x7, 30 MBPS internet facility.

Department Vision

To transform the students into technologically competent professionals, with abilities to address the societal challenges of the time through innovative technical practices in electronics & communication engineering.

Department Mission

- M1: To foster inquisitive-driven advanced knowledge building among students for reinforcing the domain knowledge, develop capabilities, skills and solve complex engineering problems.
- M2: To prepare industry-ready graduates for global Electronics as well as communication-based engineering companies by conducting training programs, workshops and industry visits.
- M3: To build entrepreneurship and leadership qualities, research aptitude among students for the contribution of economic and technological development in cutting edge technologies in the national and as well as in the global arena.

Program Educational Objectives

- PEO1: To develop the student's ability on technical concepts to design, simulate, and synthesize various electronic and communication circuits & systems for their research advancements.
- PEO2: To impart analytical skills and to prepare the students to excel in applying state-of-the-art hardware and software tools to solve complex engineering problems for R&D, Industry, and societal requirements.
- PEO3: To prepare the students to work in teams, take independent decisions, and integrate engineering issues for a successful career in a multi-disciplinary environment.
- PEO4: To promote entrepreneurship among the students to become successful entrepreneurs with professional ethics.

Program Educational Objectives

A graduate of the Electronics and Communication Engineering Program will be able to

Professional Skills Ability: Identify, design electronics & communication circuits and conduct experiments with electronics & communication systems, analyze and interpret data, formulate and solve electronics & communication engineering problems.

Industrial Skills Ability: Design digital and analog systems, algorithms, fire ware, modern engineering tools, software, etc. as per needs and specifications and work in laboratory and multidisciplinary tasks.

Ethical and Social Responsibility: Communicate effectively in both verbal and written form, will have knowledge of professional and ethical responsibilities and will show an understanding of the impact of engineering solutions on the society, and also will be aware of contemporary issues.

Program Outcomes (Adapted from NBA)

Engineering Graduates will be able to:

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

HOD'S MESSAGE

MR. VIJAY KUMAR R. URKUDE

ASSOCIATE PROFESSOR &
HEAD OF THE DEPARTMENT,
DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING.



The department Offers B.Tech (ECE). The department has a team of highly experienced and Motivated faculty members. All the Faculty members are well qualified and Competitive enough in preparing the young minds (our students) for global Competition. Students achieve University top positions and are working with Top level companies like DXC Tech, TCS, HCL, and Cognizant etc.

Communication Classes for better placements. Co curricular and extracurricular Activities takes place at Institute level and students participate in various Intra-College, Inter-College, Inter-University fests / competitions. Faculty/Students take initiative for Social Causes at individual level and as a team under different Banners/Clubs of the Institute.



REPUBLIC DAY CELEBRATIONS

Celebrations for the national holiday of Republic Day were conducted on January 26th, 2021 at Vignan's Institute of Management and Technology for Women. On the college grounds. On the occasion of Republic Day, M. Rajender, who was serving as Chief Guest, gave a speech to the gathering. A prize distribution ceremony for the winners of several events like essay writing, artwork, and quizzes that were conducted by management as a part of these 72nd Republic day celebrations followed the event.

HARITHA HARAM

On March 17, 2021 at 12:30 p.m., in accordance with the HARITHA HARAM initiative of the Prime Minister, the National Service Society (NSS) volunteers of VMTW College conducted a Cleanliness Campaign on campus. All of the volunteers worked with their whole hearts till 2:30 in the afternoon. They had a wonderful day and went away with the knowledge that they had contributed to making the campus a cleaner and healthier place.



WOMEN'S DAY CELEBRATIONS

The celebrations for International Women's Day took place at Vignan's Institute of Management and Technology for Women on March 8, 2021. On campus, One of Hyderabad's most important and reputed Institutes, VMTW College, International Women's Day was commemorated, with a different kind of fervor. The head of department came up with the concept of "Celebrating Womanhood," which centered on the idea of empowering the female fraternity.





FACULTY ARTICLE

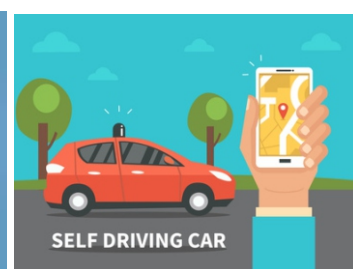
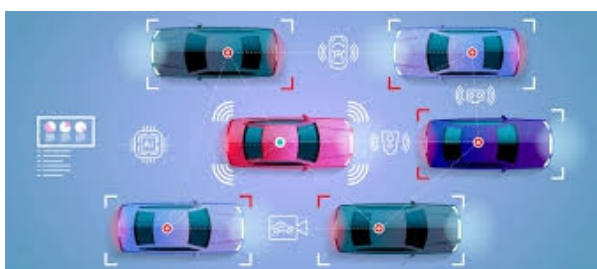
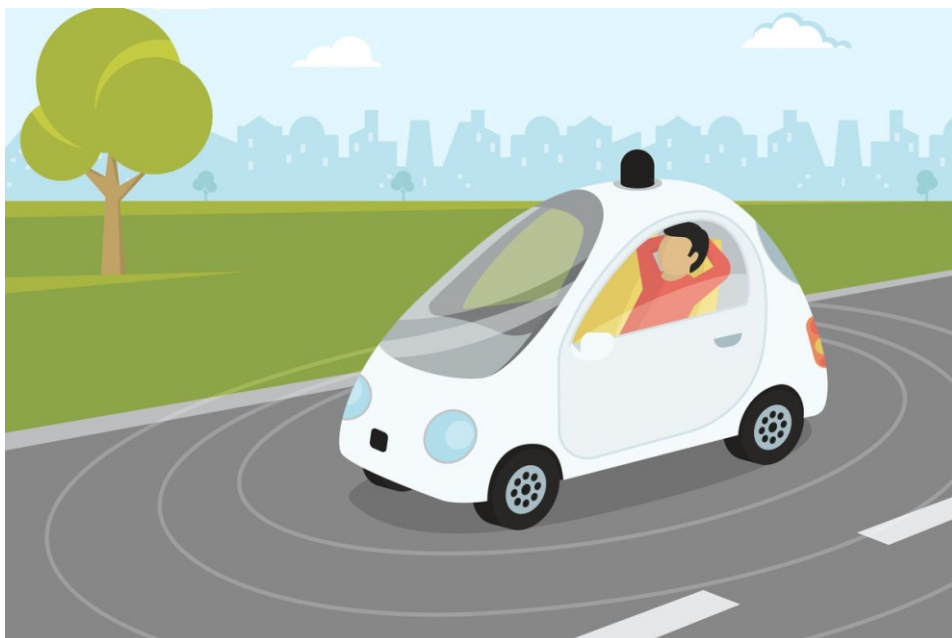
The article “**SELF-DRIVING CAR - A COMPUTER WILL PARK FOR YOU**” is written by Mr. K. ASHOK REDDY, as a Assistant Professor.

ABSTRACT: When A Computer Drives A Vehicle, The Vehicle Can Be Taken By The Computer

To A Remote Location For Parking. This Feature Will Change The Land Uses In The Metropolitan Areas. We Analyze The Advantages Of This Change And As A Model

We Analyze The Specific Case Of The State Of Israel.

CONCLUSION: Parking For Autonomous Vehicles Can Be Far From Where A Passenger Needs To Arrive; So, There Is No Need, For Example, For A Huge Parking Lot Near The Airport As Is Very Common Nowadays. Also, The Parking Lots Will Be Constructed In A More Compact Manner Because The Vehicles Park Strictly In The Right Position With Almost No Unused Space. In Addition, The Parking Slots Will Be Signified According To The Vehicle Type. As A Result The Parking Slots Will Not Be At The Size Of The Largest Potential Vehicle.



FACULTY ACHIEVEMENTS

PUBLICATIONS (2020-21)

S.NO.	AUTHOR	JOURNAL NAME	TITLE OF THE PAPER	ISSN NUMBER
1.	MRS. SWATHI GANGULA	INTERNATIONAL JOURNAL FOR SCIENCE TECHNOLOGY AND ENGINEERING	DESIGN OF CMOS O.T.A USING 180NM TECHNOLOGY FOR HIGH FREQUENCY APPLICATIONS	2349-784X
2.	MR. G. GANESH REDDY	IJVDCS	IMPLEMENTATION OF MULTI USEFUL APPLICATION FOR BLIND PEOPLE USING RASPBERRY PI3 AND WIRELESS COMMUNICATION	2322-0929
3.	MR. K. ASHOK REDDY	IJVDCS	IMPLEMENTATION OF MULTI USEFUL APPLICATION FOR BLIND PEOPLE USING RASPBERRY PI3 AND WIRELESS COMMUNICATION	2322-0929

MOU'S

S.NO.	TRAINING AND PLACEMENT	INTERNSHIP	STUDENT EXCHANGE	FACULTY EXCHANGE	DURATION
1.	SIX PHRASE	CALYXPOD	TECHONA ENTERPRISES	BRAIN O VISION SOLUTIONS	1 YEAR
2.	KODNEST	TECHONA ENTERPRISES	BRAIN O VISION SOLUTIONS		1 YEAR
3.	EDIFY PATH	BRAIN O VISION SOLUTIONS			1 YEAR



STUDENT ARTICLE

The Article **“SELF-DRIVING CAR RULES WILL LAG TECH, THINK TANKS PREDICT”** is Written By P. ANVITHA, Roll Num: 18UP1A0492.

ABSTRACT: Self-driving cars will sell by around 2020 and follows with other optimistic estimates including a prediction that 90 percent of cars in the US will be self-driving only by the year 2055. The IHS authors call slow government regulation and legal challenges more important barriers than software reliability or cyber security.

CONCLUSION: Predicting the net impact of self-driving cars is difficult, the RAND authors hint. Even if self-driving cars turn out to be safer and more energy-efficient than human-driven cars, for example, it is too early to predict their net impact on traffic, warns the RAND team. Former drivers who can sleep or read through most of a commute will be willing to undertake longer commutes, contributing to sprawl and energy consumption. Other effects will extend into urban infrastructure: if people share self-driving cars they may need less parking spaces in urban centers. That's good for urban planners wanting to build dense cities but will undermine the steady revenues parking facilities provide cities.

STUDENT ACHIEVEMENTS

A TALK ON PERSONALITY DEVELOPMENT

A discussion on the cultivation of one's personality was scheduled to take place on 2021 for the college-bound recipients of Future Smiles. Personality that is notable, adaptable, and complex in many ways. The following few remarks were said by the programme's coordinator, Dr. T. PULLAIAH, as his vote of thanks before the programme came to a close. 'This initiative, which was conceived by our cherished principal, never would have been a success if it weren't for his unending direction and unending encouragement.



PROJECT EXPO

Project Expo Held On March 18th 2021 At Vignan institute of management technology for Women. Project Expo. Every year our institute organises Project Exhibition cum competition of all final year student's projects of all department. An Expo is a global event that aims at educating the public, sharing innovation, promoting progress and fostering cooperation.



CAMPUS RECRUITMENT

S.NO.	COMPANY'S NAME	ON/OFF CAMPUS	BRANCH	OFFERS	PACKAGE	ROLE
1.	VRAIO	ON	ECE	1	6.0 LPA	JAVA DEVELOPER
2.	NTT DATA	ON	ALL	1	3.5 LPA	SOFTWARE DEVELOPER
3.	BANK OF AMERICA	ON	ECE	1	7-11 LPA	DATA ENGINEER
4.	MORGAN STANLEY	ON	ECE	1	8 LPA	DATA ENGINEER

