



# VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

# TECHINNOVATION

## NEWS LETTER

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### 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

The republic day celebrations held on 26 Jan 2020 at Vignan's institute of management and technology for women. in the campus. Chief Guest" Dr. Raja Ambethkar M "addressing the gathering on the occasion of Republic Day.

The Importance of Indian constitution and four principles of justice, liberty, equality and fraternity that are enshrined in the preamble of Indian constitution. The event followed by prize distribution ceremony for winners of various competitions namely essay writing, painting, quiz conducted by management as a part of this 71st Republic day celebrations

## PARENTS FACULTY INTERACTION PROGRAMME

The faculty and parent meeting held at 9th march 2020. The faculty members from ECE Department invited parents of students enrolled in B.Tech to the campus. The purpose of this meeting was to make the parents understand the academic progress of their children in a better manner. The faculty keenly took a note of the concerns expressed by both parents and students. These interactions proved to be a successful communication bridge.



## HOLI CELEBRATIONS

The HOLI Celebrations at Vignan Institute of Management and Technology For Women. The HOLI Festival Is An Ancient Indian Tradition Which Celebrates The Triumph Of Good Over Evil. Colored Powder Is Thrown and Rubbed on People's Faces and People Come Together in Song And Dance. The Festival Is Filled with So Much Fun That the Very Mention Of The Word HOLI Brings A Smile To Anyone's Face.

## SWACHH BHARATH

In accordance with the Prime Minister's SWACHH Bharat Mission, the NSS volunteers of VMTW College organized a Cleanliness Campaign on 12th march 2020 at 2:30 pm in the college campus. The oath was followed by cleaning activities in and around the college campus, which formed the best part of the event. All the volunteers worked whole-heartedly till 3:30 pm. They thoroughly enjoyed it and left with the satisfaction of having made the campus cleaner and healthier.





## CULTURAL EVENTS

# WOMEN'S DAY CELEBRATIONS

One of Hyderabad most prominent and reputed Institute VMTW College celebrated woman hood on International Women's Day but with a different enthusiasm Centered on the theme empowering the women fraternity, "Celebrating Womanhood", an idea generated by HOD, the female colleagues exchanged several views on topics related to both personal and professional lives. In the college and various issues in the society.



## A TALK ON PERSONALITY DEVELOPMENT

TA Talk on Personality development was arranged on 28th march 2020 for Future Smiles college-going beneficiaries. Prominent, versatile and multi faceted personality, popular writer- Dr. T. Yougunder, Prof. GNITC was invited as speaker. The programme concluded with the following few lines by the co-ordinator MR.VIJAY KUMAR R URKUDE in his vote of thanks.



## STUDENT ARTICLE

The Article "**Artificial Intelligence Technology in Optical Fiber Communication Engineering**" is Written By Barla Rekha, Roll Num: 16UP1A0453

**ABSTRACT:** Optical fiber communication engineering as a kind of "wired" optical Communication mode which uses light wave as carrier and optical fiber as Transmission medium to transmit information from one place to another, especially optical fiber has a special position in the communication industry.

Keywords: Artificial Intelligence, Communication Engineering, Optical Fiber.



## FACULTY ARTICLE

The Article "**Raspberry Pi (Python AI) for Plant Disease Detection**" is Written By Mr. Vijay Kumar R Urkude, Associate Professor & Head of the Department, Electronics and Communication Engineering.

**ABSTRACT:** The diagnosis of diseases at an early stage is the main goal of this paper.

We concentrate on image processing techniques in this research. This entails a Range of processes ranging from taking a picture of the leaves to using Raspberry PI to diagnose the condition.



## TECHNICAL EVENTS

### PAPER PRESENTATION

S.NO.	NAME OF STUDENT PARTICIPANT	ROLL NUMBER	YEAR	TYPE OF EVENT	HOST ORGANIZATION
1.	MALAMANTI MOUNIKA	18UP1A0433	2020	TECHNICAL	VNR VJIE
2.	PEDDI AISHWARYA	18UP1A0442	2020	TECHNICAL	VNR VJIE
3.	YELLOJU SRAVANI	18UP1A0453	2020	TECHNICAL	VNR VJIE



### GROUP DISCUSSION & DEBATE COMPETITION

S.NO.	NAME OF STUDENT	YEAR	TYPE OF EVENT	POSITION
1.	KORIPADU ANITHA DEVI	II ECE	GROUP DISCUSSION	WINNER
2.	KARNE NEELIMA	II ECE	GROUP DISCUSSION	RUNNER
3.	SHEELA NIKITHA	II ECE	DEBATE	WINNER
4.	KOLA KEERTHANA	II ECE	DEBATE	RUNNER



### CAMPUS RECRUITMENT

S.NO.	COMPANY'S NAME	ON/OFF CAMPUS	BRANCH	OFFERS	PACKAGE	ROLE
1.	DXC TECH	ON	CSE & ECE	18	3.6 LPA	ASSOCIATE PROFESSIONAL
2.	TCS	ON	ALL	11	3.6 LPA	SOFTWARE ENGINEER
3.	HALLIBURTON	ON	CSE	5	8.7 LPA	SOFTWARE DEVELOPER
4.	COGNIZANT	ON	CSE & ECE	6	4.0 LPA	SOFTWARE DEVELOPER
5.	CGI	ON	CSE & ECE	12	3.5 LPA	GRADUATE TRAINEE ENGINEER



## PUBLICATIONS

Mr. G. Ganesh Reddy, Assistant Professor, Department of Electronics and Communication Engineering, has published paper in Journal IJITECH in the year 2019-20 with the title "Design and Implementation of Terrorbot for Detect Terrorists and Soldiers."

## INTERNSHIP BSNL-RTTC

To build a Professional Network, our students (46) enrolled for Internship in BSNL-RTTC, Hyderabad, for the academic year 2019-2020. Internship duration one week (17th to 22nd February, 2020) on Communication.



## LITERARY CLUB ACTIVITY YOUR BEST

If you always try your best  
Then you'll never have to wonder  
About what you could have done  
If you'd summoned all your thunder.

And if your best  
Was not as good  
As you hoped it would be,  
You still could say,  
"I gave today  
All that I had in me."

-CH. SUPRIYA,  
Roll No.: 16UP1A0460