



## VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(Approved by AICTE, Affiliated to JNTU, Hyderabad)  
KONDAPUR VILLAGE, GHATKESAR MANDAL, RANGA REDDY DISTRICT - 501 301.

Volume - 10

### NEWS LETTER

# TECHINNOVATION

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**"The modern human lives in a cesspool of man-made electromagnetic radiation."**

**"New session with an Orientation program for B.TECH students from July 19, 2018"**

## EDITORIAL DESK

Hello!!! We are happy to welcome you all aboard the fledgling 10th edition for the scintillating year 2018. TECHINNOVATION is the newsletter of the ELECTRONICS & COMMUNICATION ENGINEERING which aims to bring forward the buzz from the department in the past few months. The edition demystifies the realms of Electronics & Communication Engineering and also provides insight to the latest technology adopted in the field. Hope our deeds would ignite everyone's life!!!

### VISION

Emerge as a centre of excellence for electronics & communication engineering to impart professional education through advanced pedagogical techniques and transform the students into technologically competent professionals, with abilities to address the societal challenges of the time through innovative and appropriate design solutions.

### MISSION

To foster inquisitive-driven advanced knowledge building among students to reinforce the domain knowledge and develop capabilities and skills in undertaking the designs for solutions with the help of electronics and communication industry - institute interaction.

To prepare industry ready graduates for global electronic as well as communication based engineering companies by conducting training programs, workshops, industry visits.

To build leadership qualities research aptitude among students for the contribution of economic and technological development in cutting edge technologies in national and as well as in the global arena.



VTW Engineering College started its new session with an Orientation Program for B.TECH students from July 19, 2018 to July 28, 2018 the program me comprised of Faculty and student, Management with interactive sessions

**BEST PAPER PRESENTATION  
BY ECE STUDENT**



**Ms. S. VARSHINI IV ECE**

**INDUSTRIAL VISIT  
TO TOP COMPANIES**



**FACULTY RECEIVED  
BEST AWARD  
DR. N. USHA RANI**

## OUR INSTIGATION

70 students attended seminar at VMTW on 28th & 29 September "Valmiki Foreign Education services"

## Center For TCS

"TCS Ninja Exam "At VMTW

100 students attended "TCS Ninja Exam in ECE Labs and ECE Department have been providing the infrastructure which is helpful to the Companies for smooth transition placement drive activities.

**TECHNICAL ARTICLE BY  
Mr. PONNAM HARIKRISHNA**

On "Circulant Matrix-based Continuous Wavelet Transform for achieving Low Complexity ECG Featyre Extraction in health Monitoring Applications"

**GUEST LECTURES  
& WORKSHOPS ON  
LATEST TRENDS**

- Advanced Digital IC
- Mimo Techniques
- Band Radiation Detection
- Recent Trends In Wireless Communication Technologies
- Trends In Cmos Technologies

**INVITED SWAMI  
BODHAMAYANANDA  
AS GUEST**

on center for Human Excellence and "Value Based Education"

## ACADEMIC PERFORMANCE

Name of the Student	Hall Ticket No.	Percentage %
N. VINDHYA	13UP1A0466	65.429
B. MOUNKA	14UP1A0401	64.857

## PLACEMENTS

Selected list of companies that visited campus for Recruitment

- ENTHSQUARE
- TECHNOFLAIR
- TCS Ninja
- MAHIRA Tech Solutions Pvt. Ltd.

## NSS ACTIVITIES

In accordance with the PrimeMinister's "SWACHH Bharat Mission" on various activities held in VMTW.

- Cleanliness Campaign
- Blood Donation Camp
- Eye Camp

## CULTURAL ACTIVITIES

- Traditional Day
- Bathukamma
- Yoga Day

## FRESHER'S WELCOME PARTY

which was enthusiastically organized by the second ECE students

## TEACHER'S DAY CELEBRATION IN THE ECE DEPT.

Students of ECE celebrated teacher's day here on Wednesday. The HOD of ECE Department Dr. A.NARMADA delivered a speech about Dr. Sarvepalli Radha- Krishnan, who was a great scholar and teacher.

Cont...

VMTW Engineering College started its new session with an Orientation Program for B.TECH students from July 19, 2018 to July 28, 2018 the program me comprised of Faculty and student, Management with interactive sessions.

On 19th July, 2018 the fresher's were given a warm welcome which was followed by PUJA and registrations. A copy of handbook, syllabus and college timetable were given to each student. Students were also familiarized with academic calendar, time table, anti-ragging rules and various university rules.

On 20th July, 2018 started a day with Assembly and meditation student-student interactive session was organized in which students were divided into small groups for Yoga and communication skills classes to promote interaction of students among themselves. After lunch break group formation for Debate and Group discussions simultaneously different activity on creative arts like painting ,singing Dancing, outdoor games where conduct in ground and Indoor games in seminar halls where organized.

On 21th July, 2018 started a day with Assembly and meditation and visited field trip to orphanage home, Old age home, physically handicapped home, and mentally handicapped home return to campus back.

On 23th July, 2018 started a day with Assembly and meditation A Guest Lecture was conducted for the students on Human Values by Expert PROF.M L SAI KUMAR delivered his thoughts and interacted with the Students.

Human Values and Professional Ethics in not only our professional life but also in our day-to-day-

life. He insightfully explained that our understanding of most of the aspects of life-VISHWAAS (Trust), SAMMAAN (Respect), S N E H ( C a r e ) , MAMTA(Affection), SHRADDHA(Reverence), PYAR (love) , which we claim to have an understanding of, need to be put into perspective. These basic feelings play a decisive role in ensuring happiness in an individual's life in particular and society in general.

At the end, participants felt the need to conduct more workshops which help them to grasp the significance of variety of issues and perspectives of life which have practical relevance. Encourage students by motivating and showing them inspiring videos.

On 24th July, 2018 started a day with Assembly and meditation And Career Talk Counseling Was Conduct by DR .TALLA VENKAT REDDY he talked on various situation how to handle in Career development is more than just deciding on a major and what job you want to get when you graduate. It really is a lifelong process, meaning that throughout your life you will change, situations will change, and you will continually have to make career and life decisions. The goal of Career Counseling is to not only help you make the decisions you need to make now, but to give you the knowledge and skills you need to make future career and life decisions. He was happy to interact with the students and tried to motivate students with some presentations.

On 25th July, 2018 started a day with Assembly and meditation providing students with the knowledge on computer -

familiarity and in afternoon session organizing Group discussion and Debate.

On 26th July, 2018 started a day with Assembly and meditation Foundation course on Mathematics using different methods, a lecture was delivered by HOD T.SRINIVASULU and in afternoon session visited all the departments

On 27th July, 2018 started a day with Assembly and meditation Foundation course on Chemistry a lecture was delivered -

by K. SATISH and in afternoonsession the entire HOD addresses first year students in seminar hall.

On 28th July, 2018 started a day with Assembly and meditation Final day a Diagnose on English skills and delivery a lecture on communication skills and inter personal skills which was conducted by K.SHYAM SUNDAR and V.SUZAN SHALINI afternoon session by concluding ceremony and prize distribution by principal and HOD'S.

## Swami Bodhamayananda invited as Guest



Participated in the Guest Lecture organized at VMTW, on center for Human Excellence and "Value Based Education" on 30th august September 2018. The lecture was delivered by Swami Bodhamayananda, Director, Vivekananda Institute of Human Excellence, Ramakrishna Math, and Hyderabad. In his lecture, Swami Bodhamayananda stressed on the importance of the youth cultivating excellent character. He opined that internal cleansing is much more urgent and

important than the external and material development.. Our attitude coupled with hard work determines true success. A strong determination, unflinching will power and faith SWAMIJI exhorted the students to involve in the service of the poor and the needy. He assured of the support of his institute in showing the way, if VMTW students come forward as a team to serve society. Earlier, the Swamiji was felicitated by principal.

## Students Achievements

- Ms. SRI HARSHA IV ECE has participated paper presentation in Bharat institute of engineering and technology on 31/07/2018.
- Ms. S.VARSHINI IV ECE has participated paper presentation in Bharat institute of engineering and technology on 31/07/2018.
- Ms.G.PRANITHA has participated work shop in CVR college of engineering on 4, 5, 6/10/2018.

## MOU with Valmiki Group

70 students attended seminar at VMTW on 28th&29 September "Valmiki Foreign Education services" believes that the quality of the instruction is the key factor in determining the success And Organized awareness programme. Around 70 students participated in campus for preliminary test and guide students for international education and also prepare them for examination success. Valmiki group is to provide all services related to overseas education under one roof. The effort is to facilitate the students in attaining the desired objective and signed MOU.

## Guest lecture

A two day Guest lecture on “Design characteristics of special function ICs” for III years ON 13-08-2018 & 14-08-2018 by Mr.Rajiv Patnaik, PGP Electronics.

On August 13,2018 he focused on the at present day's electronic products are based around programmable integrated circuits. Therefore today's electronic engineering degree courses have to provide both teaching and practical experience of programmable technologies as an essential thread within the core subject area of digital electronics.

On August 14,2018 second session was on Digital integrated circuits (digital ICs, also referred to as “logic” ICs) provide a very wide range of functions. The simplest are gates, counters and registers, while the most complex are probably the microprocessors used in computers. He motivated students in interaction session and conclude the session by quizze.



A Guest lecture on “Advanced Digital IC” for III year students was conducted by Dr.Renuka devi, GNITS, Hyd. On Aug 14, 2018 Delivered on the importance basics of integrated circuits, design From Custom to Semicustom and Structured Array Design Approaches. CMOS Gate Forest is such a semicustom array which offers an integration level comparable to that of a full-custom VLSI environment. A hierarchical design approach has become essential in

A Guest lecture on “MIMO techniques “for IV years 22-09-18 was conducted by Dr.Asha devi, SNIST, Hyderabad Keywords- The use of multiple antennas – 'MIMO' – is a key enabler for obtaining the promised data rates in LTE, and will be even more important in 5G. This talk will explain the fundamentals of how the channel capacity can be multiplied and exploited, and how the MIMO propagation channel can be modelled. A system perspective is added including how it is implemented in LTE and 3G.



A Guest lecture on “Band radiation detection” for IV year students was conducted by Dr.P.Srihari, VNR engg college, Hyd. On Oct 1,2018 speaker discussed about the major achievements and research and development (R&D) trends from the last decade in the field of single crystal scintillator materials are described. Two material families are included, namely, those of halide and oxide compounds. In most cases, the host crystals are doped with  $Ce^{3+}$ ,  $Pr^{3+}$  or  $Eu^{2+}$  rare earth ions. Their spin and parity allowed 5d-4f transitions enable a rapid

A Guest lecture on “Recent trends in wireless communication technologies” for IV year students was conducted by Mr A. Gopala Sharma, Assoc. Professor, working in Stanley Engineering College. On oct 8, 2018 .has delivered a lecture on Wireless communication is the transfer of information over a distance without the use of wires. Wireless communication is generally considered to be a branch of telecommunications. Wireless operations permit services, such as long-range communications that are impossible or impractical to implement using wires. Wireless communication brings fundamental changes to data networking and telecommunications, and makes integrated networks a reality.



A Guest lecture on “Trends in CMOS technologies” for II year student's was conducted by Dr.Sreekanth,MRECW, Dullapally. On Aug 22, 2018 The main emphasis of the speaker was on the development trends in CMOS technology are discussed. It is clear that the trend in putting more and more transistors and memory bits on a chip will continue. There is likely to be detours on the technology roadmap, each driven by a different emphasis on the system functions implemented on a chip. While scaling CMOS transistors for density and performance will continue, there will be plenty of opportunities for improvement in system performance without pushing CMOS transistors to their limits.

A Guest lecture on “Basics of signals and analysis of systems” for II year students was conducted by Mr. Satya Prasad, TIMES Education on 28-08-18. On Aug 28,2018 main emphasis of the speaker is on introduction to Digital Signal Processing and finally an Introductory discrete and continuous probability concepts, single and multiple random variable distributions, expectation, introductory stochastic processes, correlation and power spectral density properties of random signals, random



Guest lecture on “Applications of transmission lines” for III year students was conducted by Dr.Runu Kumari, BITS, Shamirpet on 9-10-18. On Oct 9,2018 in On Oct 9,2018 in On Oct 9,2018 in

## Workshops

- A one day workshop on “Design characteristics of special function ICs” was conducted by MR.RAJIV PATNAIK on 13 & 14 Aug 2018 on integrated circuits
- A Two day Workshop on “Operating principles of RTOS and design fundamentals” for IV year students by MR.RAJIV PATNAIK, on 24 & 25 Aug 18.

## STUDENTS PLACEMENT

**VMTW TRAINING & PLACEMENT CELL ORGANIZED PLACEMENT DRIVE WHERE FOLLOWING STUDENTS ARE SELECTED & SHORT LISTED FROM DEPARTMENT OF ECE**

- ★ 3 Students selected for ENTHSQUARE on 2nd Aug 2018 as PYTHON Developer
- ★ 5 Students selected for TECHNOFLAIR on 2nd Aug 2018 as JAVA Developer
- ★ 2 Students selected for TCS NINJA on 2nd Sept 2018 as SOFTWARE Trainee
- ★ 27 Students selected for MAHIRA TECH SOLUTIONS PVT.LTD. on 2nd Sept 2018 as BACKEND ONLINE SUPPORT

## FACULTY ACHIEVEMENTS

The Merit Faculties Have Awarded Incentives And Encouraged To Perform Well In The Teaching Learning Process And The List Of Such Merit Faculty Is Presented Here.

S.No.	Faculty Name	Subjects Taught	Academic Year
1	P. ANUSHA	Network Analysis	2017-18
2	DR. N USHA RANI	Control Systems	2017-18
3	E. NAGARAJU	Radar Systems	2017-18

## NSS ACTIVITIES

VMTW College organized a Cleanliness Campaign on 8th August 2018 at 2:30 pm in the college campus. Around 100 students from the ECE department has participated in it the proceedings began with a pledge in which the students swore that they would devote 100 hrs per year.



As we celebrate DR.L.RAITHAIAH'S Birthday we organized A blood donation camp in collaboration with Lions Club.

## EYE CAMP at VMTW

STUDENTS were screened for eye defects in an eye camp organized by the NSS volunteers of the college On 28th and 29th Sep 2018 at 1:30 pm in the college campus.



## CULTURAL ACTIVITIES

**BATHUKAMMA** is a colorful floral festival of Telangana and is celebrated by VMTW womenfolk on 13 OCT with exotic flowers of the region. The festival has over the years become a symbol of Telangana culture and identity.



Students of ECE celebrated **TRADITIONAL DAY** with much enthusiasm, on 5-OCT 2018. The colorful traditional attire of young women brought a festive look to VMTW.



## INDUSTRIAL VISIT

- ECE 3/4 students went for Industrial Visit to the following places
- Around 48 students were invited by NSRC
- 28 students were invited by NFC.
- 62 students were invited by INFOSYS HYDERBAD
- 30 students of ECE-II have visited SULAKSHNA CIRCUIT DESIGN on 20-Aug-2018
- 40 students of ECE-III have visited ELICO LIMITEDs On 17-AUG-2018



## YOGA DAY AT VMTW

The yoga day was celebrated with great enthusiasm by the students - The proceedings began at 8:30 am with the lighting of the lamp by principal Dr. P. SUDHAKARA RAO, HOD, S DR. GAUTAMI LATHA ANGA, DR. A. NARMADA, T. SRINIVASULU, L. KIRAN KUMAR, The special faculty for yoga pointed out the importance of yoga in order to remain physically fit and mentally alert.



## TEACHER'S DAY

The HOD of ECE Department Dr. A. NARMADA delivered a speech about Dr. Sarvepalli Radha- Krishnan, who was a great scholar and teacher. On 5th of September celebrated as Teachers' Day all over the India every year. Spoke about the importance of Teachers and motivating the students. She said all the teaching and non-teaching staff should work together as a family.

