VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

# INSIGHT &



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**VOLUME NO.: 12 APR-JUN. 2019** 

#### **Vision of the Department**

To achieve value oriented and quality education with excellent standards on par with evolving technologies and produce technocrats of global standards with capabilities of facing futuristic challenges.

#### **Mission of the Department**

- M1: To enrich advanced knowledge among students for reinforcing the domain knowledge and develop capabilities and skills to solve complex engineering problems.
- M2: To impart value based professional education for a challenging career in Computer Science and Engineering.
- M3: To transform the graduates for contributing to the socioeconomic development and welfare of the society through value based education.

#### **Program Educational Objectives**

- PEO1: To acquire logical and analytical skills in core areas of Computer Science & Information Technology.
- PEO2: To adapt new technologies for the changing needs of IT industry through self-study, graduate work and professional development.
- PEO3: To demonstrate professional and ethical attitude, soft skills, team spirit, leadership skills and execute assignments to the perfection.

#### **Program Specific Outcomes**

- PSO1: **Software Development:** Ability to grasp the software development life cycle of software systems and possess competent skill and knowledge of software design process.
- PSO2: **Industrial Skills Ability:** Ability to interpret fundamental concepts and methodology of computer systems so that students can understand the functionality of hardware and software aspects of computer systems.
- PSO3: **Ethical and Social Responsibility:** Communicate effectively in both verbal and written form, will have knowledge of professional and ethical responsibilities and will show the understanding of 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.

#### **EDITORIAL BOARD**

Dr. P. Sudhakara Rao, Principal

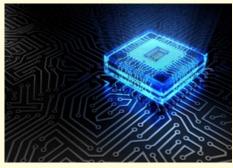
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## COMPUTER SCIENCE AND ENGINEERING

CSE comprises the basic knowledge of computer programming and networking. The computer science experience will give ample knowledge about the implementation design and management of the entire information system in both the aspects- hardware as well as software. The field of CS has some of the greatest advantages like having great pay, innovative and challenging working patterns, and constantly learning new things.

Computer Science Engineering (CSE) is an academic programme that integrates the field of Computer Engineering and Computer Science. It is one of the most sought after courses amongst engineering students. The course contains a plethora of topics but emphasises the basics of computer programming and networking. The topics covered in the course are computation, algorithms, programming languages, program design, computer software, computer hardware, and others.

Computer science engineers are involved in many aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers to circuit designing and writing software that powers them. CSE is one of the engineering specialisations. However, candidates pursuing this programme have the option of further choosing amongst various other specialisations like telecommunication, web designing, computer hardware and software implementation and maintenance, etc.

These professionals can work as a data scientist, computer programmer, systems analyst, hardware engineer, software developer, system engineer, IT consultant, system designer, networking engineer, web developer, database administrator, mobility tester, programmer, e-commerce specialist, and software tester.



#### NATURE AWARENESS PROGRAM

Nature is exciting, inspiring, refreshing and constantly changing. It is full of mysteries to be marveled at and beauty to be admired. However, today's generation rarely have an opportunity to explore their connection with nature.

With this aim VMTW conducted Nature Awareness Program in the month of April. It is a fun-filled one day program in which some events like teaching under trees ,plantation, yoga were conducted.



# TRADITIONAL DAY CELEBRATIONS

The Traditional day celebrations held on 4th June 2019 at Vignan Institute Of Management And Technology For Women. It was an opportunity to represent Indian culture.In this event all the students wore traditional and different styles of dresses. This was followed by cultural and entertainment program.

#### YOGA DAY CELEBRATIONS

The yoga day was celebrated on june 21st 2019 at VMTW campus with great enthusiasm by the students. On the occasion of International Yoga Day some programs were conducted like Poster Making Competition, Essay Writing and some sports and cultural events. Students participated in events with zeal and vigor.

#### **PRAJWALAN 2K19**

Prajwalan 2K19 is the three day mega event organized by VMTW in the month of April from 18 to 20 April 2019. This event will be comprised of various competitions spread across three days. The contests include technical events, cultural events and Sports. The events target the emerging young minds throughout India. First two days is for Technical and Sports fest, that aims at bringing out the ideas, technology and talents that will not only make lives better for tomorrow, but also allows us to survive in the planet in a better way. This program will provide a synergistic approach to students to demonstrate technical, analytical, innovative and imaginative aspects of their personality. The Third day Cultural Fest aims at bringing out the young talent in extracurricular activities. This will be a good platform for the students to exaggerate themselves in cultural activities







INSIGHT NEWS LETTER 2 VOLUME NO.: 12 APR - JUN, 2019 DEPT. OF CSE

# Faculty Article on Soft Computing

By Mr. S. Dilli Babu, Asst Professor.

Soft computing is the use of approximate calculations to provide imprecise but usable solutions to complex computational problems. The approach enables solutions for problems that may be either unsolvable or just too time-consuming to solve with current hardware. Soft computing is sometimes

referred to as computational intelligence.

Soft computing provides an approach to problem-solving using means other than computers. With the human mind as a role model, soft computing is tolerant of partial truths, uncertainty, imprecision and approximation, unlike traditional computing models. The tolerance of soft computing allows researchers to approach some problems that traditional computing can't process.

The inspiration was the human mind's

ability to form real-world solutions to problems through approximation. Soft computing contrasts with possibility, an approach that is used when there is not enough information available to solve a problem. In contrast, soft computing is used where the problem is not adequately specified for the use of conventional math and computer techniques. Soft computing has numerous real-world applications in domestic, commercial and industrial situations.

FACULTY DEVELOPMENT PROGRAMMES										
S.NO.	NAME OF THE FACULTY	DESIGNATION	TITLE OF THE PROGRAMME	DURATION						
1.	MR. V. JAGADEESHWAR REDDY	ASSISTANT PROFESSOR	FULL STACK DEVELOPMENT USING DJANGO	23 JUN, 2019						
2.	MRS. P. PRATHIMA	ASSISTANT PROFESSOR	IT INDUSTRY REAL TIME TOOLS	29 JUN TO 3 JUL, 2019						
3.	MRS. DULI SWAROOPA	ASSISTANT PROFESSOR	INTRODUCTION TO AUTOMATA, LANGUAGESAND COMPUTATIO	JAN-APR, 2019						
			ARTIFICIAL INTELLIGENCE	22-26 MAY, 2019						
PUBLICATIONS										
S.NO.	AUTHOR	JOURNAL NAME	TITLE OF THE PAPER	ISSN NUMBER						
1.	MR. P. RAJENDRA PRASAD	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN COMPUTER APPLICATIONS AND MANAGEMENT STUDIES	EFFICIENT SYSTEM TO PREDICT OF LUNGS DISEASE USING DATA MINING TECHNIQUE	VOL 9,ISSUE 2 (2020) ISSN 2319 – 1953						
2.	DR. RANGA SWAMY SIRISATI	INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING (JITEE)	DIMENSIONALITY REDUCTION USING MACHINE LEARNINGAND BIG DATA TECHNOLOGIES	VOL-9 ISSUE-2 ISSN 2278-3075						
3.	MR. SUNIL CHANDOLU	INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING (JJITEE)	CLASSIFICATION METHOD FOR IMBALANCED DATA USING ENSEMBLE LEARNING SYSTEM	VOL-9 ISSUE-4 ISSN 2278-3075						

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4.

MRS. K. HELINI

**LEARNING MODELS** 

PREDICTING CORONARY HEART DISEASE:

A COMPARISON BETWEEN MACHINE



#### Student Article on Ethical Hacking

By Ms. A. Jaswistha, CSE.

The inspiration was the human mind's ability to form real-world solutions to problems through approximation. Soft computing contrasts with possibility, an approach that is used when there is not enough information available to solve a problem. In contrast, soft computing is used where the problem is not adequately specified for the use of conventional math and computer techniques. Soft computing has numerous real-world applications in domestic, commercial and industrial situations.

The main types of ethical hacking include:

White Hat Hackers (also known as Ethical Hackers) -They never intended to harm a system; instead, they try to find out weaknesses in a computer or a network system as a part of penetration testing and vulnerability assessments. These hackers aren't doing anything illegal, and it's usually done as their job.

Black Hat Hackers (also known ascrackers)hack to gain unauthorized access to a system and harm its operations or steal sensitive information. This is illegal as they intend to do bad things, including stealing corporate data, violating privacy, or damaging the system.

Grey Hat Hackers— These area blend of both black hat and white hat hackers. They act without malicious intent, but for their fun, they exploit a security weakness in a computer system or network without the owner's permission or knowledge but plan to let the owner know of the defect.

## MEMORANDUM OF UNDERSTANDING (MOU)

- A One-year memorandum of understanding (MOU) between VMTW and SRI Gajanan E-Slates Pvt.Ltd affirms the parties intent to work together and indicates a common course of action.
- 2. A One-year memorandum of understanding (MOU) between VMTW and Valmiki affirms the parties intent to work together and indicates a common course of action.

### HIGHER EDUCATION COUNSELLING

- Around two fifty members of the CSE department's student body signed up to participate in a orientation program on "skills enhancement" by FACE.
- Around three hundred members of the CSE department's student body signed up to participate in interactive session on "placement assessments" by Co-Cubes.

#### **CAMPUS RECRUITMENT**

S.NO.	COMPANY'S NAME	ON/OFF CAMPUS	BRANCH	OFFERS	ROLE				
1.	TCS	ON	CSE	2	SOFTWARE DEVELOPER				
2.	DXC TECHNOLOGIES	ON	CSE	4	ASSOCIATE SOFTWARE ENGINEER				
3.	PARAGON DIGITAL	ON	CSE	36	DIGITAL MARKETING				
4.	SHELLPRO	ON	CSE	15	PHP & DESKTOP ENGINEER				
5.	WIPRO	ON	CSE	5	JR. SOFTWARE ENGINEER				
6.	CGI	ON	CSE	3	SOFTWARE ENGINEER				
7.	FLEXTRONICS	ON	ALL	61	PCB ENGINEER				
8.	TAVANT TECHNOLOGY	ON	CSE	3	SOFTWARE DEVELOPER				
9.	JESPER APPS	ON	CSE	3	SOFTWARE TRAINEE				
10.	ILM	ON	CSE	53	TRAINER TRAINEE				
11.	BYJUS	ON	ALL	4	BDE				
12.	AMAZON	ON	ALL	4	CUSTOMER SERVICE ASSOCIATE				
13.	VETRAFORE	ON	CSE	2	SOFTWARE TRAINEE				
14.	ETHNUS CODEMITHRA	ON	CSE	8	DEVELOPER				

#### **INDUSTRY INSTITUTE INTERACTIONS (2018-19)**

S.NO.	COMPANY'S NAME	SECTOR	ATTENDED	COMPLETED ON	NO. OF STUDENTS
1.	FLIPKART INTERNET PRIVATE LIMITED	IT	2-JUNE-19	16-JUNE-19	20
2.	ARDENT COMPUTECH PRIVATE LIMITED	IT	3-MAY-19	12-MAY-19	20

#### **PLACEMENTS AND TRAINING**

#### Add on /Certification programs:

To encourage advanced learners and slow learners Training and placement cell of VMTW conducted some certification programs.

- 1. 6 days certification program on Machine learning applications using python was conducted for advanced learners.
- 2. 6 days certification program on Web Designing using HTML/PHP/MY SQL" for slow learners.
- Few students registered for NPTEL and course era courses and go certificates.