



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 socio-economic 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

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COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering was started since the inception of Vignan's Institute of Management and Technology for Women during 2008 with an initial intake of 60. The strength was enhanced to 120 later. The Department had added Post graduate programme in Software Engineering during 2013 with an intake of 18.

The Department is headed by well qualified faculty strength of 38 under the dynamic leadership of Mr. A.Sudhir Babu, with experience of about 29 years of teaching and research.

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

In Computer Science & Engineering the student will go through the algorithms, programming languages, operating systems, database management systems, computer network, computer graphics and artificial intelligence.

Computer Science Engineering is a course that deals with design, implementation, and management of information systems of both software & hardware processes. A computer scientist specializes in theory of computation and design of computational systems. Computer Science engineering aids with various disciplines such as electrical and electronics engineering, information technology, software engineering, and more.

candidates can find various entry-level jobs in the IT industry or related fields, given they fulfill the required skill set such as knowledge of subjects like programming, database management, data structures and more. Candidates have various career options after completing computer science engineering courses.

Computer science is a vast field with a variety of disciplines where each of them is independent and yet connected to each other. Digitalisation has increased the market value of online businesses which has led every company to increase their online presence in the form of a website, application, or social media.

NATIONAL INTELLECTUAL PROPERTY AWARENESS PROGRAM

On December 8, 2021, Shri Anurag Jain, Secretary of the Department of Public Information and Intellectual Property, inaugurated a National Intellectual Property Awareness Mission (NIPAM) as part of the initiative of the Government's "Azadi Ka Amrit Mahotsav." One million schoolchildren across India are going to be taught about intellectual property and the rights associated with it as part of an ambitious endeavour. On January 20, 2022, as a component of this VMTW-organized awareness programme on intellectual property rights (IPR), There were a total of 250 members who took part.



GUEST LECTURE

A Guest Lecture on Data Science is organized by Computer Science department on 14-03-2022 and the speaker was Dr.P.Chandra Sekhar Reddy (Professor, GRIET).

SWATCH BHARATH

As a part of NSS activity Swatch Bharath was conducted in VMTW campus on 5-2-2022 to clean the campus premises and outside of campus. Many students participated in this event and displayed their initiative towards waste minimization.



BLOOD DONATION CAMP

As a part of NSS activity blood donation camp was conducted in VMTW campus. Many students and faculty donated blood on this program.



WOMEN'S DAY CELEBRATIONS



INTERNATIONAL WOMEN'S DAY

The International Women's Day was celebrated at VMTW campus on 8/3/2022 in the seminar hall. The day marks an occasion to celebrate the progress made towards achieving gender equality around the world. The theme of 2022 women's day is "Gender Equality today for sustainable tomorrow."

FACULTY ARTICLE ON DATA SCIENCE

By K.Prathyusha, Assistant Professor.

Data science is the domain of study that deals with vast volumes of data using modern tools and techniques to find unseen patterns, derive meaningful information, and make business decisions. Data science uses complex machine learning algorithms to build

predictive models. Data science encompasses preparing data for analysis and processing, performing advanced data analysis, and presenting the results to reveal patterns and enable stakeholders to draw informed conclusions. Data preparation can involve cleansing, aggregating, and manipulating it to be ready for specific types of processing. Analysis requires the development and use of algorithms, analytics and AI

models. It's driven by software that combs through data to find patterns within to transform these patterns into predictions that support business decision-making. The accuracy of these predictions must be validated through scientifically designed tests and experiments. And the results should be shared through the skillful use of data visualization tools that make it possible for anyone to see the patterns and understand trends

FACULTY DEVELOPMENT PROGRAMMES

S.NO.	NAME OF THE FACULTY	DESIGNATION	TITLE OF THE PROGRAMME	DURATION
1.	DR. C. SRINIVASA KUMAR	PROFESSOR	MACHINE LEARNING	FEB-APR, 2022
2.	DR. A. SUDHIR BABU	PROFESSOR	INTRODUCTION TO MACHINE LEARNING AND ITS APPLICATIONS	21-30 MAR, 2022
3.	DR. CH. BASAVARAJ	ASSISTANT PROFESSOR	GETTING STARTED WITH DATA ANALYTICS ON AWS	22 MAR, 2022
			CREATE YOUR FIRST PYTHON PROGRAM FROM UST	23 MAR, 2022

FACULTY PUBLICATIONS

S.NO.	AUTHOR	JOURNAL NAME	TITLE OF THE PAPER	ISSN NUMBER
1.	MR. M. VISHNU VARDHANA RAO	WIRELESS PERSONAL COMMUNICATIONS-WPC	A NOVEL FEATURE-BASED SHM ASSESSMENT AND PREDICATION APPROACH FOR ROBUST EVALUATION OF DAMAGE DATA DIAGNOSIS SYSTEMS	21 JAN 2022
2.	DR. RANGA SWAMY SIRISATI	JAC : A JOURNAL OF COMPOSITION THEORY	CREATION OF SYNTHETIC DATA OF CHEST X-RAYS FOR DETECTION OF COVID-19 USING UNETGAN	ISSN : 0731-6755 VOL XV, ISSUE II, 2022
3.	DR. BASAVARAJ CHUNCHURE	INTERNATIONAL JOURNAL OF ENHANCED RESEARCH IN MANAGEMENT & COMPUTER APPLICATIONS	AI BASED MACHINE LEARNING MODEL FOR COVID DATA ANALYSIS	VOL. 11, ISSUE 2, 2022
4.	MR. C. SUNIL	JAC : A JOURNAL OF COMPOSITION THEORY	CREATION OF SYNTHETIC DATA OF CHEST X-RAYS FOR DETECTION OF COVID-19 USING UNETGAN	ISSN : 0731-6755 VOL XV, ISSUE II, 2022

COURSERA COURSES

Many of our faculty members have successfully completed the Courses provided by Coursera. These courses helped all the teaching and non-teaching faculties to learn the different things with the standpoint of very experienced faculties worldwide.

Some students completed NPTEL courses and got certificate. Many of our students have also completed the courses and many of them have joined the different courses. This is very excellent initiative taken by joint collaboration.

A PROUD MOMENT

Sharanya, a student of CSE, received a job offer from Amazon with a pay package of 20 lacs per annum.



MEMORANDUM OF UNDERSTANDING (MOU)

1. A Three-year memorandum of understanding (MOU) between VMTW and Huawei Services(Hong Kong) Co.Ltd affirms the parties intent to work together and indicates a common course of action.
2. A Two-year memorandum of understanding (MOU) between VMTW and Coign Consultants Pvt.Ltd. affirms the parties intent to work together and indicates a common course of action.
3. A One-year memorandum of understanding (MOU) between VMTW and Gradeway Prep affirms the parties intent to work together and indicates a common course of action.

STUDENT ACHIEVEMENTS



Sahithi a student of VMTW got selected in state level throw ball team and participated in national level competition conducted by Karnataka and got participation certificate.

CAMPUS RECRUITMENT

S.NO.	COMPANY'S NAME	ON/OFF CAMPUS	BRANCH	OFFERS	PACKAGE	ROLE
1.	EUNIMART	ON	CSE	1	5.0 LPA	SOFTWARE DEVELOPER
2.	DXC	ON	ALL	28	4.0 LPA	ASSOCIATE ENGINEER
3.	TCS	NATIONAL HIRING	ALL	15	3.6 LPA	SOFTWARE ENGINEER
4.	PUBLICIS SAPIENT	ON	ALL	1	10.0 LPA	SOFTWARE DEVELOPER
5.	FLIPKART	ON	ECE & EEE	2	13.52 LPA	SUPPLY CHAIN
6.	WIPRO	NATIONAL HIRING	ALL	23	3.5 LPA	SOFTWARE DEVELOPER
7.	PLANETSPARK	ON	ALL	1	7.10 LPA	BDE
8.	AMAZON - OPEATIONS	ON	ALL	4	4.5 LPA	OPERATIONS TEAM LEAD
9.	ADP	ON	ALL	2	5.0 LPA	TECHNICAL DEVELOPER
10.	VEON	ON	ALL	3	3.36 LPA	PROGRAMMER ANALYST
11.	BIRLASOFT	NATIONAL HIRING	ALL	1	2.5 LPA	SOFTWARE DEVELOPER
12.	ZENSAR	ON	ALL	4	5.0 LPA	SOFTWARE ENGINEER
13.	AMDOCS	ON	ALL	13	5LPA + 20K	SOFTWARE ENGINEER
14.	CSS CORP	ON	ALL	7	4.0 LPA	SOFTWARE DEVELOPER
15.	UST GLOBAL	ON	ALL	13	3.5 LPA	SOFTWARE DEVELOPER
16.	COGNIZANT	ON	ALL	46	6.75 LPA	GENCNXT
					4.0 LPA	GENC
17.	WORKSBOT	ON	ALL	57	4.0 LPA	FULL STACK DEVELOPER
					3.0 LPA	DATA SCIENTIST ENGINEER