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.
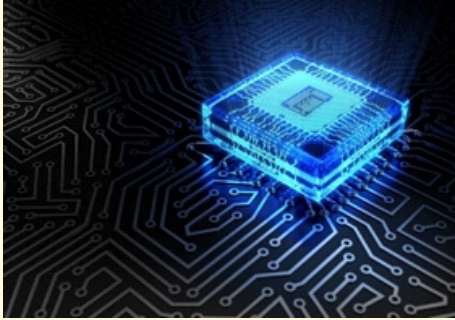
COMPUTER SCIENCE AND ENGINEERING

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.

WOMEN'S DAY CELEBRATIONS

The International Women's Day was celebrated at VMTW campus on 8th March, 2020. The purpose of celebrating Women's Day is to raise awareness about the status and dignity of women and to commemorate the cultural, political, and socioeconomic achievements of women. It is also a focal point in the women's rights movement, bringing attention to issues such as gender equality, reproductive rights, and violence and abuse against women.

REPUBLIC DAY CELEBRATIONS

Like every year, VMTW students and professors staged a great Republic Day programme. On 26 January 1950, India's constitution went into effect, and the country became a republic, therefore everyone was quite delighted. At 9:00 am, prayer began. The college then held a parade and flag-raising. Dr. K. Chandra Shekar, our college's principal, raised the national flag and spoke on "Youth Power." Then, patriotic speeches and the national song followed. Many students did programmes.

FACULTY DEVELOPMENT PROGRAMMES

S.NO.	NAME OF THE FACULTY	DESIGNATION	TITLE OF THE PROGRAMME	DURATION
1.	MR. K. BHARATH REDDY	ASSISTANT PROFESSOR	PROGRAMMING IN JAVA	JAN-APR 2020
2.	DR. P. VINAY BHUSHAN	ASSISTANT PROFESSOR	QUANTUM COMPUTING	8-20 MARCH 2020
			PROGRAMMING IN JAVA	JAN-APR 2020
			PYTHON FOR DATA SCIENCE	JAN-FEB 2020

PUBLICATIONS

S.NO.	AUTHOR	JOURNAL NAME	TITLE OF THE PAPER	ISSN NUMBER
1.	MR. M. VISHNU VARDHANA RAO	INTERNATIONAL JOURNAL OF ADVANCED SCIENCE AND TECHNOLOGY	ANALYSIS OF CLASSIFICATION TECHNIQUE FOR PREDICTION OF DAMAGES LEVELS IN BUILDINGSTRUCTURES	VOL. 29, NO. 05, (2020) ISSN: 2005-4238
2.	MR.P. RAJENDRA PRASAD	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN COMPUTER APPLICATIONS AND MANAGEMENT STUDIES	HYBRID SYSTEM TO PREDICTION OF HEART DISEASE USING DATA MINING NAIVE BAYES ALGORITHM	VOLE 9,ISSUE 2 (2020) ISSN 2319 – 1953
3.	MRS. K. HELINI	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
4.	MR.GATTU PRASAD	A JOURNAL OF COMPOSITION THEORY	A COMPREHENSIVE STUDY OF VARIOUS APPLICATIONS OF GRAPH-THEORY IN MODELING: PROSPECTIVE OF VARIOUS GRAPH COLORING AND DIRECTIONS	VOL XIII, ISSUE IV ISSN 0731-6755
5.	MR. SUNIL CHANDOLU	INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING (IJRTE)	SECURE ENERGY TRADE-OFF ANALYSIS IN WIRELESS AD-HOC NETWORKS USING NOVEL SCALABLE & SECURE MANAGEMENT PROCEDURE	VOL 8, ISSUE-3 ISSN 2277-3878

EVENTS

S.NO.	DATE	NAME OF THE EVENT	RESOURCE PERSON(S)
1.	10-02-2020 TO 14-02-2020	A ONE WEEK FDP ON IMAGE PROCESSING USING MACHINE LEARNING ALGORITHMS	DR. L. SRIDHARA RAO, ASSOCIATE PROFESSOR, JB INSTITUTE OF ENGINEERING AND TECHNOLOGY, HYDERABAD.
2.	24-02-2020	A SEMINAR ON MACHINE LEARNING USING PYTHON PROGRAMMING	MRS. M. SWAPNA, ASSISTANT PROFESSOR, AVN INSTITUTE OF ENGINEERING AND TECHNOLOGY, HYDERABAD.

Article on Information Retrieval (IR)

By A. Yagna Mukhi, II CSE - B.

Information retrieval (IR) in computing and information science is the process of obtaining information system resources that are relevant to an information need from a collection of those resources. Searches can be based on full-text or other content-based indexing. Information retrieval is the science of searching for information in a document, searching for documents themselves, and also searching for the metadata that describes data, and for databases of texts, images or sounds. Automated information retrieval systems are used to reduce what has been called information overload. An IR system is a software system that provides access to books, journals and other documents; stores and manages those documents. Web search engines are the most visible IR applications.
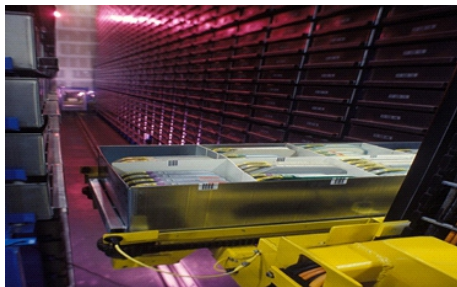

Article on "WWW" and "The Web"

By K. Soumya, II CSE - A.

"WWW" and "The Web" redirect here. For other uses of WWW, see WWW (disambiguation). For uses of web, see Web (disambiguation).For the first web software, see WorldWideWeb. Not to be confused with the Internet. Three capital letter W superimposed on each other, on top the slogan "Let's Share What We Know", and below "World Wide Web" The historic World Wide Web logo, designed by Robert Cailliau. A web page displayed in a web browser. A global map of the Web Index for countries in 2014 . The World Wide Web (WWW), commonly known as the Web, is the world's dominant software platform. It is an information space where documents and other web resources can be accessed through the Internet using a web browser. The Web has changed people's lives immeasurably. It is the primary tool billions of people worldwide use to interact on the Internet. Web applications are web pages that function as application software.

Multiple web resources with a common theme and usually a common domain name make up a website. Websites are stored in computers that are running a web server, which is a program that responds to requests made over the Internet from web browsers running on a user's computer. Website content can be provided by a publisher or interactively from user-generated content. Websites are provided for a myriad of informative, entertainment, commercial, and governmental reasons. The Web was originally conceived as a document management system. The information in the Web is transferred via the Hypertext Transfer Protocol (HTTP) to be accessed by users through software applications.

STUDENTS ACHIEVMENT

Niharika Reddy of Computer Science and Engineering department has successfully completed her general English course conducted by Rin Shine Academy and got a certificate.

HIGHER EDUCATION COUNSELLING

Around 200 students in the CSE department signed up to take part in a workshop on "overseas education" that was put on by the Valmiki Foreign Education Services programme.

From the VMTW an advisory session given by M/s.Manya Princeton Review entitled "Effective ideas on how to break GRE" was attended by around 150 students from the Computer Science and Engineering department.

STUDENTS REGISTERED IN VARIOUS PROFESSIONAL SOCIETIES

During the year 2019–20, there will be 79 students studying Computer Science and Engineering at the department that is affiliated with the CSI Computer Society of India. Students from a wide array of professional societies are represented here.