



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

Dr. G. Apparao Naidu, Principal

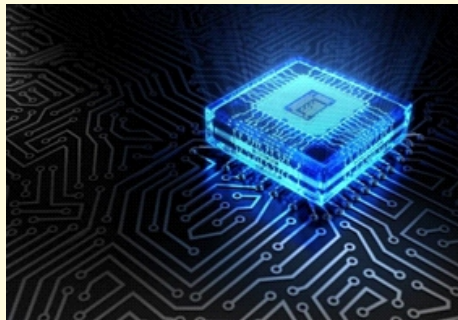
Dr. A. Sudhir Babu, HOD, CSE.

Mrs. V. Suzan Shalini, Assistant Professor, BS&H.

Mrs. B. Geetha, Assistant Professor, CSE.

Ms. P. Prasanna Lahari, CSE (Student)

Ms. S. Snigdha, CSE (Student)



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.

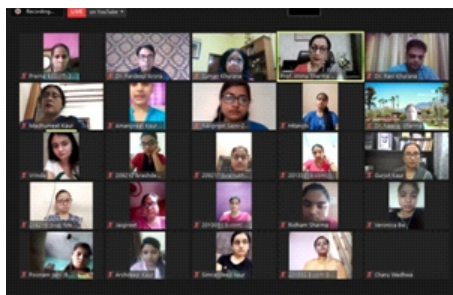
These professionals can work as a data scientist, computer programmer, systems analyst, hardware engineer, software developer, system engineer, IT consultant, system designer, networking engineer, web developer, database administrator, mobility tester, programmer, e-commerce specialist, and software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



BATHUKAMMA CELEBRATIONS

Bathukamma is a colourful and vibrant festival of Telangana which is celebrated by women, with flowers that grow exclusively in each region of the state. This festival is a symbol of Telangana's cultural identity.

Due to covid-19 this festival is celebrated online in ZOOM app on 9-10-2020 where all the students and faculty joined and celebrated by conducting several activities like bathukamma design compition, singing, rangoli, mehendi compitions etc.



TRADITIONAL DAY CELEBRATION 2020

Vignan Institute of Management and Technology celebrated the Traditional Day in the month of November. Traditional Day is observed as a celebration of India's diverse culture. It's a day designated for people to wear traditional attire or specific culture of their choice. Everyone dressed in their best ethnic attires. Students, teachers and non-teaching staff participated with great ecstasy. Everyone displayed their various cultures by dressing their best which was a colorful treat to the eyes in itself.

ONLINE ORIENTATION PROGRAM

Orientation program was organized in the month of November, 2020 for the first year students of the CSE Department of VMTW virtually Where faculty of VMTW and first year students and their parents joined. Session starts at 10.00 Am and ends 3.00.PM. In this Principal and H.O.D of CSE addressed the gathering and senior students shared their experiences in the college.

FACULTY DEVELOPMENT PROGRAMMES

S.NO.	NAME OF THE FACULTY	DESIGNATION	TITLE OF THE PROGRAMME	DURATION
1.	MR. M VISHNU VARDHANA RAO	ASSISTANT PROFESSOR	CYBER SECURITY & BLOCK-CHAIN TECHNOLOGIES	26-31 OCT, 2020
2.	MRS. VASIREDDY INDRANI	ASSISTANT PROFESSOR	INTELLIGENT COMPUTING AND DEEP LEARNING	20-25 NOV, 2020
3.	MRS. D. SWAROOPA	ASSISTANT PROFESSOR	THE JOY OF COMPUTING USING PYTHON	SEP-DEC 2020
4.	MS. G. RAMYA	ASSISTANT PROFESSOR	MACHINE LEARNING WITH R	27-SEP TO 1-OCT,2020
5.	MRS. CHERUKU MOUNIKA	ASSISTANT PROFESSOR	MACHINE LEARNING WITH R	27-SEP TO 1-OCT,2020
6.	MRS. D. SWAROOPA	ASSISTANT PROFESSOR	DATA SCIENCE WITH PYTHON PROGRAMMING	17-OCT 2020
			OPERATING SYSTEMS	16-NOV 2020

PUBLICATIONS

S.NO.	AUTHOR	JOURNAL NAME	TITLE OF THE PAPER	ISSN NUMBER
1.	MR. M.VISHNU VARDHANA RAO	SOLID STATE TECHNOLOGY	A BUILDING DAMAGE CLASSIFICATION FRAMEWORK FOR FEATURE SUBSET SELECTION USING ROUGH SET WITH MUTUAL INFORMATION	VOL 63, ISSUE: 2S (2020)
2.	MR. P. VINAY BHUSHAN	JOURNAL OF CRITICAL REVIEWS	A REVIEW OF PRIVACY PRESERVING KNN CLASSIFICATION PROTOCOL OVER ENCRYPTED RELATIONAL DATA IN THE CLOUD	VOL 7, ISSUE 15, (2020) 2394-5125
3.	MRS. P. PRATHIMA	INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY EDUCATIONAL RESEARCH	ANALYSIS OF DESIGN AND NETWORK ISSUES IN DATA CENTER AND CLOUD COMPUTING	VOL 9, ISSUE: 6(6) ISSN 2277-7881
4.	MR.SUNIL CHANDOLU	INTERNATIONAL JOURNAL OF RESEARCH IN ADVENT TECHNOLOGY	GENDER VOICE RECOGNITION WITH CLASSIFICATION APPROACH USING RANDOM FOREST AND DECISION TREE ALGORITHM	VOL.8, NO.4 ISSN 2321-9637
		INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING (IJITEE)	RESTAURANTS RATING PREDICTION USING MACHINE LEARNING ALGORITHMS	VOL-9 ISSUE-6 ISSN 2278-3075

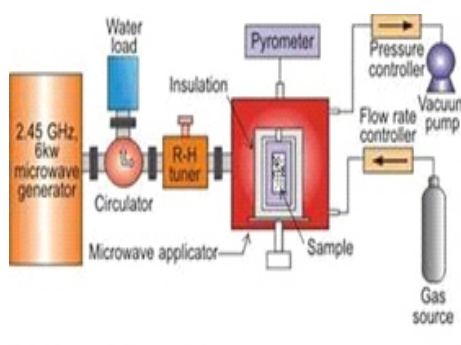
ARTICLE ON MICROWAVE SINTERING

By S. Bhavani, CSE (18UP1A05A3).

Microwaves have been used since the 1960s for heating purposes, particularly for food- and water-based products. Industrially, the use of microwave energy has become increasingly important because it represents an alternative to traditional with high-temperature processes

Microwave sintering is considered a relatively new ceramic material processing technique that differs significantly from conventional sintering methods due to the nature of the heat transfer mechanisms involved. Hence, microwave sintering is classified as a non-conventional sintering technique.

This method presents itself as a fast, economical, and flexible processing tool. Some of the most important advantages against conventional sintering systems include lower energy consumption and production costs, reduction of processing times, higher heating rates, and, in some cases, even an improvement in the physical properties of the consolidated material.

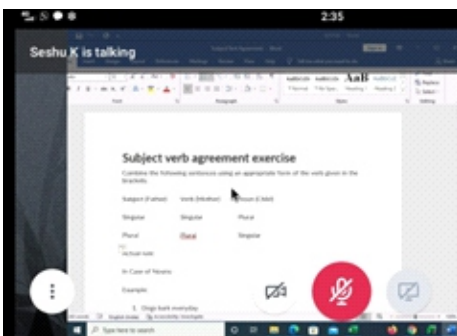


ACTIVITIES CONDUCTED AS A PART OF PRE-PLACEMENT TRAINING



TRAINING PROGRAM

Department of CSE organized a CRT program virtually by Mr. K. Seshu, in the month of December in which aptitude, reasoning and some programming concepts were discussed. The main objective was to help the students to improve their skills for attending competitive exams and interviews. The event was coordinated by Mr. C. Sunil Kumar and Ms B. Geetha.



EVENTS ORGANIZED

A One Day Training program on "Machine Learning Concepts Using Python" conducted by Computer Science Department on 14-12-2020. A total of 110 students participated in this webinar.

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. 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.

AWARENESS PROGRAM

Awareness program on "Pre assessment for placement" by Co-Cubes was organized by CSE for final year students on 05-12-2020. In this program topics Quantitative aptitude, Reasoning, Programming were discussed.