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COLLEGE VISION

To be a nationally recognized Centre of excellence in engineering education and research for creating professionally competent and socially committed engineers equipped to meet the developing technological and socio-economic needs.

COLLEGE MISSION

We are committed to:

- Impart technical education through value-based holistic teaching and learning integrating innovative practices.
- Nurture the practice of real-world problem solving, the spirit of entrepreneurship, and critical thinking among the students.
- Foster a conducive environment for Research, Innovation, and extension services.
- Develop the potential human resources to meet the requirements of cutting-edge technology.
- Prepare all students for successful careers based on a strong moral & ethical foundation.

DEPARTMENT VISION

Become a centre of excellence in creating competent and ethically responsible computer science professionals through a conducive learning and research environment to address the needs of industry and society.

DEPARTMENT MISSION

- ✓ Impart in-depth knowledge to the students through effective pedagogies and hands-on experience with the latest tools and technologies.
- ✓ Provide state-of-the-art facilities for research and innovations in computer science and engineering
- ✓ Inculcate the spirit of teamwork, communication skills and lifelong learning among students with a sense of societal and ethical responsibilities.
- ✓ Strengthen the industry-academia interface in order to fill the gaps in the curriculum.

PSO

Our students, immediately at the end of the computer science and engineering program, will be able to

- ❖ Attain the capacity to plan and design hardware, software and networking systems effectively and efficiently with the aid of suitable programming based frameworks.
- ❖ Understand, analyse and develop programs related to real life and research problems to assess and perceive potential risk to give inventive solutions.

PEO

Our students, four or five years, after graduation will

- ❖ Take leadership in industries/public sector/ related to computer science and engineering or in a multidisciplinary environment.
- ❖ Perform with ethical and moral values in multicultural teams and communicate effectively among team members
- ❖ Demonstrate creative skills in entrepreneurial and collaborative ventures or undertake research.

“ We, the Department of Computer Science & Engineering feel enthusiastic to launch the first edition of our Department Newsletter “CS Insights”. Computer Science and Engineering Department at VISAT provides our students a top-notch, state-of-the-art education comprising the best in terms of facilities, faculty and experiential learning. We believe in nurturing our students such that they emerge as industrious, creative and quality conscious professionals. ”

Prof. Divya Nair, HoD CSE



CS Reflections



Work on world’s largest radio telescope begins in Australia, South Africa

The world's largest radio astronomy facility is currently under construction in Australia and South Africa. Scientists will use the exceptionally powerful Square Kilometre Array (SKA) to probe the mysteries of the universe.

On Monday, the construction of the largest radio astronomy facility in the world began in Australia and South Africa. The Square Kilometre Array will consist of 131,072 low-frequency antennae in Australia (SKA-Low), combined with a sister facility (SKA Mid) in South Africa with 133 dish antennae.

“Astronomers like myself will use the telescopes to trace hydrogen over cosmic time and make precise measurements of gravity in extreme environments. What’s more, we hope to uncover the existence of complex molecules in planet-forming clouds around distant stars, which could be the early signs of life elsewhere in the Universe,” wrote SKA scientist Cathryn Trott in The Conversation.

Smelling in VR environment possible with new gaming technology.

An odor machine, so-called olfactometer, makes it possible to smell in VR environments. First up is a "wine tasting game" where the user smells wine in a virtual wine cellar and gets points if the guess on aromas in each wine is correct.



"We hope that the new technical possibilities will lead to scents having a more important role in game development, says Jonas Olofsson, professor of psychology and leader of the research project at Stockholm University.

'Brain-like computing' at molecular level is possible

Scientists discovery reveals 'brain-like computing' at molecular level is possible. New research shows organic molecular switch 'emulates synaptic behavior.'

A breakthrough discovery at University of Limerick in Ireland has revealed for the first time that unconventional brain-like computing at the tiniest scale of atoms and molecules is possible.



Achievements

- NASA International Space Apps Challenge the largest in NASA Space Apps history!

Congratulations to Jacob Ninan Raju & Amal Suresh P (“Galactic Problem-Solver”) for outstanding participation and efforts to solve challenges on Earth and in space.

- Congratulations to Jevin k Mathew, Abel Benny, Rahesh Rajappan, Sabin Shajan and Vishnu Manoj Kumar for won prizes in Astra Tech fest St. Joseph Engineering College.
- HoD, Prof. Divya Nair has completed 7 Day National Level Online Faculty Development Program on Outcome Based Education (OBE) from 08 December to 15 December 2022

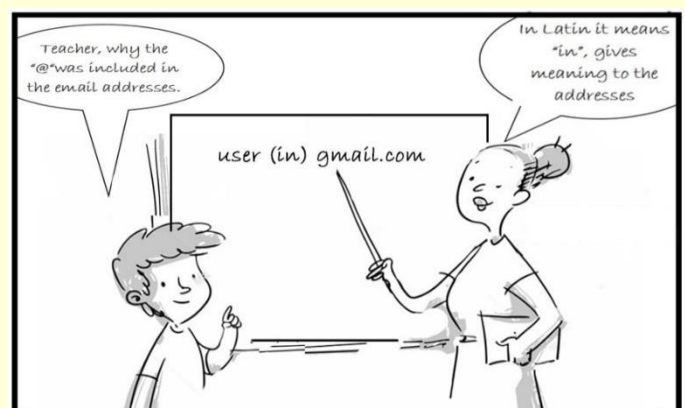


Latest Addition to the Team

- **Ms. Annie Sonia**
Asst. Professor
- **Ms. Jyothi Chandran**
Asst. Professor
- **Ms. Mega M**
Asst. Professor



Introspect



Event Highlights



➤ National Workshop on “RESEARCH METHODOLOGY – WRITING EFFECTIVE RESEARCH ARTICLES & FUNDING PROPOSALS”

VISAT IQAC along with Computer Science & Engineering Department organized a National Workshop on “RESEARCH METHODOLOGY – WRITING EFFECTIVE RESEARCH ARTICLES & FUNDING PROPOSALS” on 10th October 2022. The Chief guest was Dr. C. Arunachala Perumal, Prof. SA Engineering College Chennai and Senior member of IEEE.



വിസാറ്റ് കോളേജിൽ നടന്ന റിസർച്ച് മെത്തഡോളജി, ഫണ്ടിംഗ് ശില്പശാലയുടെ ഉദ്ഘാടനം കോളേജ് ഡയറക്ടർ വി. ഗ്.കുമാർ പ്രഭാകർ നായർ നിർവഹിക്കുന്നു.



റിസർച്ച് മെത്തഡോളജി വർക്‌ഷോപ്പ്

ഇലഞ്ഞി : വിസാറ്റ് എൻജിനീയറിംഗ് കോളേജിൽ ഐക്യഎസി യും കമ്പ്യൂട്ടർ സയൻസ് ഡിപ്പാർട്ട്മെന്റും സംയുക്തമായി നടത്തിയ റിസർച്ച് മെത്തഡോളജി വർക്‌ഷോപ്പ് കോളേജ് ഡയറക്ടർ പ്രഭാകർ നായർ ഉദ്ഘാടനം ചെയ്തു. ചെന്നൈയിലെ എസ്എ എൻജിനീയറിംഗ് കോളേജ് പ്രഫസർ ഡോ. അരുണാചല പെരുമാൾ മുഖ്യപ്രഭാഷണം നടത്തി.

പ്രിൻസിപ്പൽ ഡോ. കെ.ജെ. അനൂപ്, രജിസ്ട്രാർ പി.എസ്. സുബിൻ, ഡീൻ പ്രഫ. ബിന്ദു എലിയാസ്, ഡോ. ഫെഡ് മാത്യു, കോളേജ് ഐക്യഎസി കോ-ഓർഡിനേറ്റർ ദിവ്യ നായർ, ഡോ. റ്റി.ഡി. സുബാഷ് തുടങ്ങിയവർ പ്രസംഗിച്ചു. അധ്യാപകരും എം. ടെക് വിദ്യാർത്ഥികളും പങ്കെടുത്തു. നൂതന ഗവേഷണ രീതിശാസ്ത്രത്തെപ്പറ്റി ഡോ. ഫെഡ് മാത്യു ക്ലാസെടുത്തു.

Upcoming Events

- Inauguration of Department association “Cyborgs” – Feb 3rd week
- One-day Python Workshop – Feb 3rd week
- Tech Talk – Feb 4th week
- PC Building Speed Competition – Feb 3rd week
- Dept. Library Inauguration– March 2nd week

Retrospect

Y2K bug - Millennium Bug

A computer flaw, the so-called "Millennium Bug," led to anxiety and the Y2K (Year 2000) scare. When complex computer programs were first written in the 1960s, engineers used a two-digit code for the year, leaving out the "19." As the year 2000 approached, many believed that the systems would not interpret the "00" correctly, therefore causing a major glitch in the system.



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