KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

काकतीय प्रैद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ – ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

foCuS
Newsletter

ISSUE 24
JULY - 2022

VIEWS

> It gives me immense pleasure to know that the next issue of newsletter is ready. I congratulate all those who have contributed in bringing this out. I appreciate the efforts of the editor board in collecting the information related to this newsletter.
>
> **Dr. K. Ashoka Reddy**
> Principal, KITSW

> It's a pleasure to announce the release of focus which majorly comprises articles with the updates in the latest technology. The unique feature of this newsletter is that it is being planned and designed by the students.
>
> **Dr. P. Niranjan**
> Prof. & Head
> Department of CSE

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K I T S W

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION

▶ Attaining centre of excellence status in various fields of Computer Science and Engineering by offering worthfull education, training and research to improve quality of software services for ever growing needs of the industry and society.

MISION

▶ Practice qualitative approach and standards to provide students better understanding and profound knowledge in the fundamentals and concepts of computer science with its allied disciplines.

▶ Motivate students in continuous learning to enhance their technical, communicational, and managerial skills to make them competent and cope with the latest trends, technologies, and improvements in computer science to have a successful career with professional ethics.

▶ Involve students to analyze, design and experiment with contemporary research problems in computer science to impact socio-economic, political and environmental aspects of the globe.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

▶ Graduates with fundamental knowledge should escalate the technical skills within and across disciplines of Computer Science Engineering for productive career by maintaining profesional ethics

▶ Graduates should develop and exercise their capabilities to demonstrate their creativity in engineering practice and exhibit leadership with responsibility in teamwork.

▶ Graduates should refine their knowledge and skills to attain professional competence through life-long learning such as higher education, research and professional activities.

PROGRAM SPECIFIC OUTCOMES (PSOs):

▶ **Software Development and Quality assurance**

Transform various legacy or manual systems into computer automated systems using Modern Programming Languages, Integrated Development Environments, and apply Testing Tools for efficient verification and validation of those software systems.

▶ **Maintenance**

Demonstrate knowledge in fixing and updating multidisciplinary software problems working in real time environment.

▶ **Immediate professional practice**

Work as a software practitioner or continue higher education by adopting advanced technologies in various fields of computer science and Engineering.

PROGRAM OUTCOMES(POs) : B.TECH

▶ 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.

PROGRAM OUTCOMES (POs): M.Tech

- Engineering Knowledge: An ability to independently carry out research/ investigation and development work to solve practical problems.
  Problem Analysis: An ability to write and present a substantial technical report / document.

- Design/Development of solutions: Students should be able to demonstrate a degree of mastery over as per the Specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.

PROGRAM SPECIFIC OUTCOMES (PSOs): M.Tech

- Software Development and Quality Assurance: Apply the Knowledge and current technologies of software engineering to Pursue Research over complex problems of Computer Science domains.

- Maintenance: Equipped with the Industry Ready, Teaching Skills and Entrepreneur-ship Capabilities.

- Immediate Professional Practice: plan, manage and assess effectively the software products by using the Software Engineering Concepts and Methodologies.

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Calendar of Events of Dept. Association Activity

The list of Association Hour activities for the academic year 2021-2022 is as follows.

S.No	Date	Name of the event
1.	12-02-2021	IDL (Indian Developer League)
2.	05-03-2021	Techfantoms
3.	19-03-2021	Career Guidance Program
4.	09-04-2021	P Prep Practice for Placement
5.	23-04-2021	Networks
6.	08-05-2021	Coding Competetion
7.	23-05-2021	This. App

Association Hour Incharge

N. C Santosh Kumar

Assistant Professor

Achievements in 2022 - 2023

Department of CSE is Sponsored by DST with an Amount of 40,43,336/- for a Project named " Automation of Forming Tools for Smart Farming using Android Application" coordinated by Prof. P. Niranjan, Md. Sharfuddin Waseem

KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
DRIVERLESS TRACTOR
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PI: *Md. Sharfuddin Waseem*   CO-PI: *Dr. P. Niranjan*