

WARTECH



KOMMURI PRATAP REDDY INSTITUTE OF TECHNOLOGY

Department of Computer Science & Engineering

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Chairman:

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Vice Chairman:

Sri Kommuri PrashanthReddy

Secretary:

Sri Kommuri Rakesh Reddy

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Dr. Sarat Chandra Nayak

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About The College



Kommuri Pratap Reddy Institute of Technology was established in the year 2008 by Kommuri Pratap Reddy Educational Society (KPES). The College is ideally located in a green campus of 12 acres land and is a place which is away from pollution but not far away from the city. The College is well connected by both private and public transport.

The College has state of the art laboratories, spacious class rooms and well established Library to cater to the student's needs. The whole campus is Wi-Fi enabled and has good internet connectivity. The College has good separate hostel facilities for Boys and Girls. The College has a hygienic canteen which provides good food to the staff and students of the college. The College also has a medical room with a Doctor and support staff.

Chairman's Message



It gives me immense pleasure and satisfaction that the Department of CSE is coming out with this latest edition of Newsletter. This Newsletter is a reflection of the facilities and the achievements of the Department. I wish all the best to the Department in its endeavors.

Vice Chairman's Message



I wish to express my happiness and gratitude to the Department of CSE on the happy occasion of the release of Newsletter. The Newsletter highlights the achievements of students and staff. All the Best!!.

Secretary's Message



I am happy to note that the Department of CSE is bringing out a Newsletter highlighting its achievements. I wish this department brings more and more Laurels to the College. I take this opportunity to wish you all the best.

Principal's Message



The Newsletter is a manifestation of the achievements in the department by the faculty and the students. I understand that the department of CSE has been consistently achieving several milestones and is constantly upgrading itself with latest technologies.

Also it is very glad to note that various teaching learning methodologies are being used to further strengthen the knowledge base of the students.

I wish all the success to the Department.

Head of the Department Message:



At the outset, I congratulate the editorial team members of CSE newsletter, for their efforts in bringing out the Newsletter. Newsletter is an amalgamation of all the events held in the department and plays an instrumental role in providing a greater exposure of the achievements accomplished by the students as well as faculty. I wish all the very best in your endeavors. My appeal to my dear students is to attend all classes, make use of library, laboratory extensively and read text books regularly, take part in technical paper presentations and seminars and undergo training in various skills sets.

This will make them more confident and they will not face difficult times in their professional career. In this respect, I humbly request the parents and guardians to show more interest in their ward's day to day activities and overall performance. Parents are also requested to attend without fail the parents association meetings held by the colleges.

Vision

The Vision of the Department is to provide leading programs in computer science whose graduates are recognized as innovative and well-prepared computing professionals.

Mission

The Department of Computer Science and Engineering teaches and conducts research in computer science and engineering and provides service to the University, the region, the nation, and the world. Faculty and staff strive to develop future leaders in academics and industry, with excellent technical skills, strong characters, and interesting learning abilities.

Program Educational Objectives (PEOs)

PEO's	Statement
PEO1	The graduates of Computer Science and Engineering will have successful career in technology.
PEO2	The graduates of the program will have solid technical and professional foundation to continue higher studies.
PEO3	The graduate of the program will have skills to develop products, offer services and innovation.
PEO4	The graduates of the program will have fundamental awareness of industry process, tools and technologies.

Program Outcomes (POs)

Engineering Graduates will be able to:

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. 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.

PO3. 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.

PO.4 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.

PO5. 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.

PO6. 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.

PO7. 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.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. 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.

PO11. 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.

PO12. 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 Specific Outcomes (PSOs)

Foundation of mathematical concepts: To use mathematical methodologies to crack problem using suitable mathematical analysis, data structure and suitable algorithm.

PSO1

Foundation of Computer Science: The ability to interpret the fundamental concepts and methodology of computer systems. Students can understand the functionality of hardware and software aspects of computer systems.

PSO2

Foundation of Software development: The ability to grasp the software development lifecycle and methodologies of software systems. Possess competent skills and knowledge of software design process.

PSO3

About The Department

The Computer Science & Engineering Department offers UG & PG courses:

B. Tech in CSE

M. Tech in CSE

The Department of CSE has several Research areas of interest depending

upon the faculty interest. Broadly the areas of interest identified are:

1. Computer Networking
2. Data Mining
3. Computational Intelligence
4. Financial Time Series Forecasting
5. Predictive Systems
6. Data Base Security & Cryptography
7. Cloud Computing etc.

The department has four state-of-art laboratories equipped with latest technologies that help the students to perform practical's and also carry out their project works. Most of the faculty members also make use of these laboratories to pursue their research.

Some of the facilities available are

- a) Operating Systems Lab using C/C++ Compiler software.
- b) Linux programming lab using Redhat/Fedora/ Ubuntu software
- c) Database Engineering Lab using Oracle and Werk software.
- d) Computer Programming lab which has 60 computers with Turbo C/C++ compiler and MS office packages.

e) Case tools and Web technologies Lab installed with Apache Tomcat, HTML and Selenium.

f) Compiler Design lab

g) IT work shop lab, which has 30 computers. IT mainly deals with physical components of the computer, Installation of OS, Software and Hardware trouble shooting.

Department has its own Library which helps the faculty and students to refer text books. The Department also has a repository of projects done by the students.

Objectives

The department of CSE is continuously making efforts to improve the teaching learning process. Various methods are used apart from the traditional chalk & talk in the class rooms. The faculty is strongly encouraged to adopt various innovative methods like using Power point presentation and audio visual representations.

Industrial visit:

An industrial visit was organized by KPRIT for Studentsof CSE 3rd

Yearalong with the faculty coordinators to BSNL, GachiBowli on 23-jan-2018.

Students visited following Departments.

- (1) GSM/CDMA labs
- (2) Optical fiber cable
- (3) Electronic switch (CDOT).
- (4) Transmitter Tower



Guest lecturers:

- A guest lecture was conducted on “*Student Motivation and Career Guidance*” on 06-01-18 at 10:00 AM, Central Auditorium. All 2nd and 3rd year students of CSE were participated. The resource person was Ms.Deepika, from Google, Hyderabad. The resource person motivated the students to plan their career as for the industry demand, scope and opportunity.





Students Achievements:

1. D.Hari Vamshi from 2nd year Participated in National Level workshop on “Data Science and Advanced Analytics” Organized by Accenture Innovation center for Analytics-Bangalore& Ashoka Institutions held on 6th Jan,2018.
2. D.Harivamshi, Laxman, Nawaz, and Vikram Pareek from 2nd year participated in National Debate competition held on January 2018 on topic “Does Indian epics Ramayana and Mahabharata represent real events?”.

Faculty Achievements:

Faculty Development Program:

1. Dr.Sarat Chandra Nayak professor from CSE department attend FDP on “**Data Science &R Programming**” InJNTUH. Which was held on Dec 2017.
2. R. Krishna Nayak Asst professor from CSE department “**Big Data**”in Sreenidhi College. Which was held on Dec 2017.
3. M. Praveen Asst professor from CSE department attend FDP on “**Cloud Applications using on Bluemix**” conducted by TASK. Which was held on Dec 2017.

Paper publications:

1. **S.C Nayak**, B.B.Misra, and H.S Behera,”ACFLN:Artificial Chemical Functional Link Network for Predictionof Stock Market Index”, Evolving Systems, **Springer, 2018.**
2. **S.C Nayak**, B.B.Misra, and H.S Behera,”On Developing and Performance Evaluation of Adaptive Second Order Neural Network with GA based Training (ASONN-GA) for financial Time series Prediction, 2018, Advances in Applied Meta heuristic Computing, **IGI Global.**

3. **S.C.Nayak**, S. Das and B. Sahoo, "Predictive Ability of FLANN on BSE Index, in proc. International conference on innovative techniques in Science, Engineering and Information Technology,2018.(Accepted)
4. **S.C.Nayak**, Karthik Jilla and, Archana Bathula , "Stylized facts of Financial Time Series: A Comprehensive Analysis", International Journal of Recent trends in Engineering and Research, 2018.
5. **A. Prakash**,N SAINATH, DBK Kamesh (2018), An Efficient Technique for Energy proficient Clustering Based Routing For Packet Split and Merge in Wireless Sensor Networks.
6. **G. Divya, A. Prakash, K. Bindhu Priya, G. Sushmitha**, "A New Blended Learning Management System" , IJCRT, 2018.

Books published

1. **S.C.Nayak**, Global Stock Market Prediction and Analysis: A Soft Computing Approach, LAP Lambert AcademicPublishing,2018, ISBN: 978-613-4-90907-5.

List of Class Toppers:

K. Bindhu Priya from 3rdyear CSE bearing Roll no: 15RA1AO513 gained aggregate 73% with first class.



K. Bindhu Priya from 3rdyear CSE bearing Roll no: 15RA1AO522 gained aggregate 71% with Second class.



Vikram Pareek form 2nd Year CSE bearing Roll no: 16RA1A0553 gained GPA 8.96.



Up Coming Events

- Industrial visits for 2nd and 3rdCSE students alongwith staff.
- Planning for Guest lectures and Seminars on new trends and techniques.
- Planning to organise FDP for faculty members.
- Workshops and Technical fest is going to be organisingby CSE department for coming semester.