

# WARTECH



**KOMMURI PRATAP REDDY INSTITUTE OF TECHNOLOGY**

## Department of Computer Science & Engineering

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**WARTECH, JANUARY-JUNE 2017 VOL 1, Issue2**

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### **Chairman:**

Sri KommuriPratap Reddy

### **Vice Chairman:**

Sri KommuriPrashanthReddy

### **Secretary:**

Sri KommuriRakesh Reddy

### **Principal:**

Dr. Ravi Gujjala

### **Head of the Department:**

Dr.Sarat Chandra Nayak

### **Editorial Board**

### **Faculty Members:**

Mrs. T.Aswani

Mr.B.Ramesh

Ms. P. Janaki

### **Student Members:**

**Y.Shravya Reddy**

**M.Leela**

### **About The College**



KommuriPratap Reddy Institute of Technology was established in the year 2008 by KommuriPratap 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.



### **Departmental Activities:**

#### **Traditional Day:**

Students from 2<sup>nd</sup> and 4<sup>th</sup> year participated in Traditional day, which was held on 3<sup>rd</sup> Jan 2017.



#### **Technical Quiz:**

2<sup>nd</sup> and 4<sup>th</sup> year students from CSE participated in technical quiz, which was held on 2<sup>nd</sup> Jan 2017.

A total of 5 teams participated in the quiz. Among them one team is selected as winner.



#### **Technical debate:**

We have conducted Technical debate on for 2<sup>nd</sup> and 4<sup>th</sup> year students on "Should social networking sites be banned in office and colleges" on 31<sup>st</sup> dec 2016. Students participated enthusiastically and expressed their thoughts.

#### **Industrial visit:**

An industrial visit was organized by KPRIT for Students of CSE final year & Second year along with the faculty coordinators to DOORDARS HA NKENDRA, Ramanthapur.



Students visited following Departments.

- (1) Live News Room
- (2) Control Room for Live News
- (3) Program Set Room
- (4) Editing Room
- (5) On Air Control Room
- (6) Transmitter Tower
- (7) PrasarBharati Van for Capture live news
- (8) Campus of PrasarBharati
- (9) Makeup Room



### Guest lecturers:

- A guest lecture was conducted Workshop on SAP-ABAP at 10:00 AM, for the 2<sup>nd</sup> and 4<sup>th</sup> year students of CSE by **Mr.M.DamodarRao**, Senior Software Engineer, Hyderabad. He explained the student basics and different SAP-ABAP modules.

- A guest lecture was organized by **Mr.Kranthi**, Senior Software Engineer Hyderabad on DEVOPS Tool.

### Department Achievements:

We are pleasure to inform to all the members of CSE that our department got collaboration with CSI (Computer Society of India). Now our department is a educational institution member of CSI holding membership number:**M10313**.



CSI (Computer Society of India) is the first and largest body of computer professionals in India. It was started on 6 March 1965 by a few computer professionals and

has now grown to be the national body representing computer professionals.

### **Faculty Achievements:**

#### **Faculty Development Program:**

P.JanakiAsst professor from CSE department awarded an achievement on Database Design and Programming with SQLin Oracle Academy.Which was held on 21<sup>st</sup> Jan 2017.

### **Paper publications:**

- **S. C. Nayak**, Misra, B. B., and Behera, H. S. (2017),Artificial Chemical reaction optimization based neural net for virtual data position exploration for efficient financial time series forecasting, Ain Shams Engineering Journal, Elsevier.
- **S. C. Nayak**, Misra, B. B., and Behera, H. S. (2017), ExplorationandIncorporation of virtual Data position for efficient forecasting of financial time series, International Journal of Industrial and systems engineering, vol 26, No. 1, Inderscience.

### **List of Newly Joined Faculty:**



Dr. Sarat Chandra Nayak holds a Ph.D in Computer Engineering from VSS University of Technology, India in 2016. He obtained M.Tech. in CSE from Utkal University, Odisha, India in 2011. Dr. Nayak has long experience in teaching UG & PG courses as well as research. His research interest includes Data Mining, Soft Computing, Financial timeseriesforecasting, Evolutionary computation, Predictive systems etc. He is well verged with programming languages like C, OOP in C++, Foxpro, Matlab etc. He has more than 30 publications invarious journals and conferences of International repute. Dr. Nayak worked with Utkaluniversity, SIT, SITE, IGNOU regional center, Bhubaneswarand LAKSHYA, Bhubaneswar.Now he is associated with department of CSE, KPRIT, Hyderabad.

### **Up Coming Events**

- Industrial visits for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year CSE students along with 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 organising by CSE department for coming semester.