

About CSE Department @ UCEK

The Department of Computer Science and Engineering in University College of Engineering Kakinada is formerly established in 1989, has the reputation of being the best computer science department in the state. The department has modern laboratories with Xeon processor rack servers, CUDA servers with 200+ i3, i5 and i7 computers and state of art software to serve the teaching and research needs of the students and faculty of the department. The department records high pass percentage of almost 100% consistently over the years. Every year more than 90% of the students are placed in to Top MNC's like TCS, Infosys, Honeywell, CTC etc. and 20% of the students opting for Higher Education in India and Abroad

Resource Persons

Prof. Raj Kumar Buyya,

CEO Manjra Soft Pvt. Ltd
University of Melbourne, Australia

Prof. P.S.V. Nataraj

CUDA Center of Excellence, IIT Bombay

Prof. K.Chandrashekar

Dean R&C, NITK, Suratkal

Dr. V.C.V. Rao

Associate Director-HPC, CDAC Pune.

Prof. Satish Narayana Srirama

Head of Mobile & Cloud Lab
University of Tartu, Estonia

**Hands on sessions are conducted by Experts from Manjrasoft, University of Hyderabad and internal resource persons

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One Week Research Oriented Workshop on Cloud +/GPU Computing

8th-12th August 2016

Sponsored by

Technical Education Quality Improvement
Programme (TEQIP-II)



Organized by

Department of Computer Science & Engineering
University College of Engineering Kakinada (A)
JNTUK, Kakinada –533003, AP, India
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About Workshop

Cloud Computing

Cloud Computing has become a scalable services consumption and delivery platform in the field of Services Computing. The technical foundations of Cloud Computing include Service-Oriented Architecture (SOA) and Virtualizations of hardware and software. The resource sharing at various levels results in various cloud offerings such as infrastructure cloud (e.g. hardware, IT infrastructure management), software cloud (e.g. middleware as a service or CRM as a service), application cloud (e.g. Application as a Service), and for effective utilization it is throwing challenges to the research community. Aneka plays the role of Application Platform as a Service for Cloud Computing. Aneka supports various programming models involving Thread Programming and MapReduce Programming and tools for rapid creation of applications and their seamless deployment on private or public Clouds to distribute applications. Our department has procured Aneka software recently with the financial support from TEQIP-II.

GPU Computing

GPU-accelerated computing is the use of a graphics processing unit (GPU) together with a CPU to accelerate scientific, analytics, engineering, consumer, and enterprise applications. CUDA (Compute Unified Device Architecture) is NVIDIA's program development environment. Our department has conducted workshop on GPU Computing in 2014 with hands-on exercises.

Course Content

- Recent advances in parallel and distributed computing
- Foundations of Cloud Computing
- Cloud service models/types (public, private, hybrid, and community clouds)
- Cloud deployment models (IaaS, PaaS, SaaS)
- Aneka - Platform for building clouds and their innovative applications
- Building Enterprise Cloud Computing Environment using a network of computers
- Hands on exercises on Aneka
- Introduction to GPU Computing
- GPU architecture - CPU Vs GPU
- GPGPU programming using CUDA
- Hands on exercises on CUDA

Available Resources @UCEK

- CUDA Servers with TESLA K20 Card and GEFORCE 210 Card
- Aneka Cloud Computing Software

Target Audience:

This workshop is open for faculty, Research Scholars, PG Students from the institutions approved by AICTE, Engineers from Industry throughout India.

Registration Details:

- Registration fee is Rs. 1000/- (* No fee for participants from TEQIP-II funded institutions)
- Payment is accepted only through DD in favor of "The Coordinator, Cloud-GPU 2016" payable at Kakinada.
- Number of seats are limited (Max. 50)
- Accommodation will be provided based on availability of rooms with nominal fee
- Please carry your laptop for hands on sessions and make sure that windows operating system is installed in the laptop
- For registration visit workshop website <https://sites.google.com/site/workshopcseucek>
- No TA/DA will be provided
- Last date for Registration: 30th July 2016
- Selection Notification : 1st August 2016

Contact Person:

Smt. A. Karuna,
Assistant Professor,
Dept. of CSE,
UCEK (A), JNTUK, Kakinada-533003
Mobile: 9440942777
E-mail: workshopcseucek@gmail.com