

About the Institute

National Institute of Technology, Andhra Pradesh is the 31st institution among the chain of NITs started by the Government of India. NIT Andhra Pradesh is established in the state of Andhra Pradesh recently in the academic year 2015 – 2016.

CPWD has taken up the activity of construction of Academic, Hostel, Guest House and Admin buildings in Phase-I. Construction of Phase-I building has been completed. Construction of Phase-II building is going on. HEFA / MHRD has sanctioned Rs. 400cr for infrastructure and development.

About the Department

The department offers B.Tech, M.Tech and Ph.D. programmes in CSE. The department has qualified, dedicated, experienced faculty with deep sense of commitment towards the students and institution. Faculty proficiency in thrust areas of Computer Science motivates students to participate in research activities and skill development programs. The department has a very good placement record. Research areas of the faculty include Artificial Intelligence, Machine Learning, Pattern Recognition, Big data Analytics, Cyber Security, Cryptography.

About the programme

This course will cover widely used parallel and distributed computing methods, focusing on datacenter-scale distributed software and methods such as Spark. This course covers the most important techniques and paradigms for parallel and distributed algorithms. A wide range of topics such as parallel programming models, PRAM models, parallel objects, consensus algorithms, task scheduling, graph algorithms would be discussed in depth.

Speakers

Academicians in the field concerned from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected as speakers for this course.br

Eligibility and Important Dates

The participants of the course will be faculty, Ph.D. students from technical institutions and researchers. Last date for receipt of application : 2nd July 2021
List of selected participants will be intimated through mail : 3rd July 2021

Registration

A registration fee of Rs. 200/- need to be paid.
A/c Name: NITAP FDP Account, A/c Number: 40107272308, Bank Name: SBI, IFSC Code:SBIN0016305
Please [Click here](#) for online registration.

Modality of Programme and Certification

Modality of Programme is Online webinars through GMeet. On successful completion of the course, certificates will be issued to the participants.

Address for Correspondence

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Science and Engineering Research Board (SERB)
Department of Science and Technology,
Government of India



sponsored
Online Five Days Workshop
on
Parallel and Distributed Computing
19th – 23rd July 2021

Patron
Prof. C.S.P. Rao
Director, NIT Andhra Pradesh

Convener
Dr. Karthick Seshadri
Assistant Professor & Head, Dept. of CSE

Coordinator
Dr. Srilatha Chebrolu
Assistant Professor, Dept. of CSE



Organized by
**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**
**NATIONAL INSTITUTE OF TECHNOLOGY
ANDHRA PRADESH**
Tadepalligudem, West Godavari, AP - 534101
Website: www.nitandhra.ac.in

Date	10:00 AM to 11:30 AM	11:30 AM to 12:00 PM Break	12.00 PM to 1.30 PM	1.30 PM to 2:30 PM Break	2:30 PM to 4.00 PM
19.07.2021	Introduction to Parallel Algorithms Dr. Srilatha (NIT Andhra Pradesh)		Parallel Programming Models Dr. Nikhil H (IIT Dharwad)		Algorithm Design Techniques for PRAM Models Dr. UnniKrishnana C (IIT Palakkad)
20.07.2021	Algorithms for PRAM Models Dr. Karthick S (NIT Andhra Pradesh)		Introduction to Parallel Objects Dr. Sathya Peri (IIT Hyd)		Parallel processing of data using Apache Spark (Lab session 1)
21.07.2021	Parallel processing of data using Apache Spark (Lab session 2)		Basics of Consensus Algorithms Dr. Sathya Peri (IIT Hyd)		Task Scheduling in Distributed Computing Dr. Ashish Kumar M (NIT Allahabad)
22.07.2021	Distributed spatial data Dr. Nagesh Bhattu S (NIT Andhra Pradesh)		Distributed graph algorithms Dr. Rajiv Misra (IIT Patna)		Parallel processing of data using Apache Spark (Lab session 3)
23.07.2021	Clustering on high dimensional data Dr. Hima Bindu (NIT Andhra Pradesh)		Fault tolerance and recovery Dr. Subhajt S (IIT Bhilai)		Parallel processing of data using Apache Spark (Lab session 4)