

**Chief Patron:**

Dr. K. Someswara Rao, Chairman

**Patrons**

Sri L. L. Naidu, Secretary

Sri T. Naga Raju, Treasurer

Sri V. Laxmana Rao, Director

Prof. V. V. Nageswara Rao, Director

**Programme Chair:**

Dr. K.B.Madhu Sahu, Principal

**Advisory Committee:**

Dr.D.Vishnu Murthy, Dean-(A.P)

Dr.A.S.Srinivasa Rao, Dean-(F.S)

Dr. N.Hari Babu, Dean-(R&D)

Dr.G.S.N.Murthy, H.O.D.,CSE

Dr.G.Sateesh Kumar, H.O.D.,ECE

Dr.C.J.Rao, H.O.D.,Mechanical

Dr. B.V.Ramana, H.O.D.,IT

Dr.M.Murali, H.O.D., CIVIL

Dr. G.Vasanthi, H.O.D.,B.S & H

Dr. B.Balaram, H.O.D., MBA

**Conveners:**

Dr. D.Vijaya Kumar, Professor & HOD- EEE

Dr. Ch. Ravi Kumar, Assoc. Dean & Professor- EEE

**Co-Conveners:**

Sri B.Srinivasa Rao, Assoc. Prof. EEE

Sri B. ManmadhaKumar, Sr. Asst. Professor -EEE

**Organizing Committee:**

Dr.K.Kiran Kumar, Professor- EEE

Sri S. Nagaraju, Assoc. Prof., EEE

Sri P.Balamurali, Assoc. Prof., EEE

Sri Bibhuti Bhusan Rath, Assoc. Prof., EEE

Sri CH.Krishna Rao, Assoc. Prof., EEE

Sri N.Tejaswara Rao, Assoc. Prof., EEE

**IMPORTANT DATES**

Last Date for Receiving Registration Form along with D.D 19<sup>th</sup> September 2016

**REGISTRATION FEE DETAILS**

**Registration Fee Rs. 500/-**

The registration form is to be sent in the prescribed format duly sponsored by the head of the institution/ department along with a Demand Draft drawn in favor of “Principal-Aditya Institute of Technology and Management” payable at State Bank of Hyderabad-Tekkali., Srikakulam (Dt.), A.P.

**For more details please visit: [www.adityatekkali.edu.in](http://www.adityatekkali.edu.in)**



One-Week Faculty Development Programme  
On

**“Optimization Techniques for  
Electrical Engineering Applications”**

**22<sup>nd</sup> to 27<sup>th</sup> September, 2016**



**Conveners**

**Dr. D.VIJAYA KUMAR  
Dr. CH.RAVIKUMAR**

**Co-Conveners**

**Sri. B.SRINIVASA RAO  
Sri. B.MANMADHA KUMAR**

Organized by

**Department of Electrical & Electronics Engineering  
ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT  
(An Autonomous Institution)**

(Permanently Affiliated to JNTU- Kakinada,  
Accredited by NBA & NAAC Recognized by UGC u/s 2 (f) & 12 (b))  
K.Kotturu, TEKKALI- 532 201, Srikakulam (Dt), A.P  
Phones: +91 8945 – 245666, 245266, Fax : 245266.

[www.adityatekkali.edu.in](http://www.adityatekkali.edu.in)  
[aitameeefdp@gmail.com](mailto:aitameeefdp@gmail.com)

## OBJECTIVE OF THE PROGRAMME

Optimization is the act of obtaining best solutions under the given circumstances. Optimization is ubiquitous and spontaneous process that forms an integral part of our day-to-day life. In the most basic sense, it can be defined as an art of selecting the best alternative among a given set of options. In any engineering system, engineers have to take many technological and managerial decisions at several stages. The ultimate goal of all such decisions is either to minimize the effort required or to maximize the desired benefit. Optimization is useful in making such decisions. It's aimed to educate the fundamentals of optimization problems, their formulation, its applications and various methods to solve those problems.

This programme will be beneficial to faculty and scholars from all engineering disciplines as a potential computing tool in their research activities. It will bring together researchers from engineering, computer science, mathematics, operations research, and other fields, who have a common interest in optimization Techniques.

## ABOUT AITAM

Aditya Institute of Technology and Management (AITAM), Tekkali, a premier engineering institute in Andhra Pradesh located at Tekkali adjacent to NH-16 at a distance of 45 Km from district head quarter of Srikakulam and 150 Kms from Visakhapatnam airport. It was established in 2001 by some philanthropic personalities with an urge to provide quality based technical education in East Coastal region. It has strong commitment to provide quality education in engineering, technology and management.

AITAM is an autonomous institute approved by AICTE, accredited by NBA, NAAC & recognized under 2(f) and 12(b) by UGC and permanently affiliated to JNTU - Kakinada. It is one among the few Technical Institutions in India participating in TEQIP Phase –II.

DIPLOMA						PG Programmes (M.Tech,MBA)			
DCME	60	CE	120	IT	60	CSE	36	VLSI	18
DECS	60	CSE	180	ME	120	DECS	18	TE	30
DEEE	120	ECE	180			IT	18	MBA	120
DME	120	EEE	180			PED	30		

## ABOUT THE DEPT. OF EEE

The Department of Electrical & Electronics Engineering is established in 2002 with an intake 60. The department has grown significantly and currently offers a UG programme in Electrical and Electronics Engineering with an intake of 180 and a PG program in Power Electronics and Drives with an intake of 30. The department has a team of experienced, dynamic and highly qualified faculty members out of them some are from industries. The department has well equipped laboratories like Electrical Machines, Power Electronics, Control Systems, Electrical Circuits, Electrical Measurements, Electrical Systems and Simulation Lab, Power Systems Lab, Industrial Automation Lab and Power Electronics and Drives Lab to give practical training to the students on emerging areas. The department is well committed to students to explore and provide a quality of student output to the country.

## RESOURCE PERSONS

Dr. D.K. Mohanta	BITS- Ranchi
Dr. Swagatam Das	Indian Statistical Institute-Kolkata
Dr. B.Ravikumar	IIT-Hyderabad
Dr. D.M. Vinod Kumar	NIT- Warangal
Dr. K.B.Mohanty	NIT- Rourkela
Dr. Sidhartha Panda	VSSUT-Burla
Dr. Rabindra Kumar Sahu	VSSUT-Burla
Dr.P.Mallikarjuna Rao	Andhra University- Visakhapatnam
Mr. Janmenjoy Nayak	MEMS – Balasore

## TOPICS

Fundamentals of Optimization  
Genetic Algorithm (GA)  
Differential Evolution (DE)  
Particle Swarm Optimization (PSO)  
Firefly Algorithm  
Gravitational Search Algorithm  
Teaching-Learning-Based Optimization (TLBO)  
Artificial Neural Networks & Fuzzy Logic

## WHO SHOULD ATTEND?

Faculty members from academic institutes, Professionals from Industries and Research Organizations, Public sector undertaking Officials, Consultants, Postgraduates & Research scholars

## TRANSPORT

Participants can avail college bus facility. Colleges Buses are available from Srikakulam, Amadalavalasa, Rajam, Palakonda, Parlakhemundi & Tekkali.

## ACCOMMODATION

Accommodation will be provided for the out station participants subject to the availability based on the TEQIP-II guidelines.

### Please Contact :

**Mr. B. Manmadha Kumar**  
Co-Convener  
Department of E.E.E.  
Mobile No: +91-9908738124  
aitameeefdp@gmail.com