

APPLICATION FORM

SHORT-TERM COURSE (STC) Recent Trends in Modeling and Computational Techniques in Engineering and Technology

28th February to 10th March 2017

Name:
(incapital letters)

Designation:

Department:

Organization:

Address:

Tel/Fax:

Email:

Accommodation : Required / Not required

Signature with Date:

SPONSORSHIP CERTIFICATE

It is certified that our institute is recognized by AICTE. The applicant is hereby sponsored and will be permitted to attend the above short term course, if selected.

Date:

Signature and Seal
of the sponsoring authority

Note:

1. Photo copy additional copies of this form, if needed.
2. Scanned copy of registration form can also be sent by e-mail.

FACULTY

The faculty for the short term course will be mostly from reputed education and research organizations. Also the institute has qualified and experienced faculty.

REGISTRATION

Teachers of AICTE recognized engineering institutions are eligible to apply for the course. Participants will be given course material. Accommodation will be arranged on request on "first cum first serve" basis to the outstation participants. The number of participants is limited to 30 for the course. Since funds are limited, it may not be possible to admit many outstation candidates. Merit and availability of funds will be taken into consideration while selecting candidates. The interested candidates need to apply on the prescribed format by the due date at the following address.

ADDRESS FOR COMMUNICATION

1. **Punit Kumar Johari**
Coordinator, STC
Department of Computer Science & IT
M.I.T.S., Gwalior-474005 (M.P.)
Tel. : 0751-2409399, 9425618829, 9301406354
Fax : 0751-2664684 (By Attention)
E-mail : pkjohari@mitsgwalior.in
2. **Mahesh Parmar**
Coordinator, STC
Department of Computer Science & IT
M.I.T.S., Gwalior-474005 (M.P.)
Tel. : 0751-2409399, 9977825839, 8109343541
E-mail : maheshparmar@mitsgwalior.in

Last date of receiving completed application forms is **25th February 2017**. The candidate will be informed of his/her selection in advance via email.

FINANCIAL ASSISTANCE

There will be no registration fee for the participants. Free boarding and lodging will be arranged in the Institute Hostels/Guest house or Hotels. Reimbursement towards TA/DA will be made to participants attending the course in full. TA is limited to III AC for to and fro railway fares via the shortest route.

AICTE-QIP SPONSORED

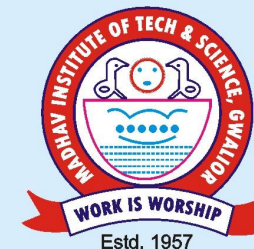


TWO WEEK SHORT-TERM COURSE on

Recent Trends in Modeling and Computational Techniques in Engineering and Technology

28th February to 10th March 2017

Organized by
Department of Computer Science and
Engineering & Information Technology



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
(A Govt. Aided autonomous institute under RGPV, Bhopal)
Race Course Road, Gola Ka Mandir,
Gwalior-474005 (M.P.)
website: www.mitsgwalior.in

PREAMBLE

The field of engineering and technology are facing unparallel changes and consolidations. As educators, we must be continuously aware of these developments so that we can not only define a fixed path but also we have to take full advancement in engineering and technology. Keeping view of the current trust, relevance and importance of the development in engineering and technology, the faculties of technical institute have to keep a place with its exchanging trends for social and industrial benefits. Researchers and Scientists have applied modeling and computational techniques as a tool to represent the various problems in real word situations.

One of the importances of modeling and computational techniques in engineering and technology, this STC is being organized. Objectives of this Short Term Course are:

- *Motivate and equip the participants with the basics as well as the recent developments and applications of modeling and computational techniques to problems of various fields of engineering and Technology.*
- *To expose the faculties with the newer dimensions of the area with their practical approaches to tackle the real life problems in engineering and technology and other related disciplines.*
- *To take up various challenges of the present day to day societal problems for their acceptable logical solutions.*

This Short Term Course will create a bridge between faculty members, scientists and research engineers utilizing modeling methods, tools, and computational techniques for solving complex problems.

COURSE CONTENTS

The following topics will be covered in this STC :

- *Introduction and basic concepts of modeling & computational techniques.*
- *Basic concepts of linear, nonlinear optimization problems, solution techniques and its applications.*
- *Modeling using ordinary differential equations (ODEs) and partial differential equations (PDEs) for dynamical systems.*
- *Modeling & computational techniques and its application, computational inverse problem, computational intelligence based approximation techniques.*
- *Nonlinear discrete-time systems and computational Methods.*
- *Gradient & gradient free optimization techniques, Soft computing techniques.*
- *Introduction to MATLAB and its applications in real world problems.*

RESOURCE PERSONS

Eminent Professors and experts from IITs, IIITs, NITs and other esteemed institutions.

Course Speakers

1. Dr. V. V. K. Shrinivas, IIT, Delhi
2. Dr. Shiv Prasad, IIT, Roorkee
3. Dr. Partha Pritam Roy, IIT, Roorkee
4. Dr. Ameeya K Nayak, IIT, Roorkee
5. Dr. Sanjeev Kumar, IIT, Roorkee
6. Dr. R.B. Mishra, IIT, BHU
7. Dr. Tanmoy Som, IIT, BHU
8. Dr. Ram Murthy Garimella, IIIT, Hyderabad
9. Dr. G.P. Singh, VNIT, Nagpur
10. Dr. Jagdish Bansal, SAU, New Delhi
11. Dr. Manoj Kumar, MNNIT, Ailahabad
12. Dr. Jai Prakash Tripathi , Central University, Rajsthan

ABOUT MITS

Madhav Institute of Technology and Science (MITS), Gwalior was established by His Highness Late Sir Jiwaji Rao Scindia, Maharaja of Erstwhile State of Gwalior, with an aim to create world class quality engineers and technocrats capable of providing leadership in all spheres of life and society. Founded as Madhav Engineering College in 1957 with three UG programmes, this temple of learning is now about 60 years old. Since its inception, the institute has constantly strove for excellence and quality. Today the institute offers nine UG programmes along with research programmes leading to Masters degree in fourteen specializations and Ph.D. in various technical streams. Various departments of the institute have well equipped laboratories and experienced faculties. The institute is a minor QIP centre for Ph.D. programmes in five disciplines. The institute is also funded by World Bank under TEQIP phase II to strengthen the quality of technical education.

LOCATION

Gwalior city has major road and rail connection. The Institute is located on Agra-Bombay Road (NH-3) and is approximately 320 KM from Delhi. Most of the south bound trains from Delhi stop at the Gwalior station. The institute is located in the heart of city and is at a distance of about 2 km from Gwalior Bus Stand/Gwalior Railway Station.

ABOUT THE DEPARTMENT

The department of CSE & IT has an excellent & rich history and an outstanding record of contributions to the profession and community. The department is well recognized for excellence in facilities and teaching. The Department offers UG and PG Programme. The Department has a comprehensive curriculum on topics related to all aspects of Computer Hardware and Software with an emphasis on practical learning. The course structure is up-to-date and includes courses on emerging topics to equip our students with the latest developments in Computer Science and Engineering. The Department has state-of-the-art infrastructure and computing equipment supported by high speed Ethernet and wireless networks. Our faculty members aim at delivering top class education blending their rich research experience with classroom teaching. The Department has started a new ACM Chapter and signed a MoU with Infosys under Infosys Campus Connect Program.