



# INTERNATIONAL CONFERENCE ON "MATHEMATICAL MODELING AND HIGH PERFORMANCE COMPUTING IN SCIENCE AND TECHNOLOGY"

12<sup>th</sup> – 13<sup>th</sup> February, 2020



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## TE@IP-III

Rajiv Gandhi Pradyogiki Vishwavidyalaya  
Bhopal, (Madhya Pradesh)

Accredited with 'A' grade by NAAC

In Association with

Jawaharlal Nehru Technological University,  
Hyderabad (Telangana)

Accredited with 'A' grade by NAAC



Organized by

Department of Engineering Mathematics  
Lakshmi Narain College of Technology & Science

Kalchuri Nagar, Raisen Road, Bhopal 462 022, Madhya Pradesh

[www.Lnct.ac.in](http://www.Lnct.ac.in)

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## **RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL**

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Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV), accredited with 'A' grade by NAAC, established in the year 1998 is truly a picture of modernization offering learner-centric programmes in Engineering, Pharmacy, Architecture & Management. University is sprawled over a vast campus of 241.4 acres, marching towards development into a center of excellence in the arena of Technical Education, Research and Innovations.

Under its umbrella there are 05 UTD's 188 affiliated Engineering Colleges, 69 Pharmacy Colleges, 25 MCA Colleges and 05 Architecture colleges imparting Graduate

level instructions running 23 under graduate level courses & 84 post graduate level courses. Situated amidst an aesthetic and hilly surrounding the University is offering Ph.D. in eight faculties. RGPV has been selected by Ministry of Human Resource Development (MHRD) as one of the Affiliating Technical Universities (ATUs) among ten across the country for receiving TEQIP-III grant. The main objective of Faculty Development Programme (FDP) is to improve quality and equity in engineering teachers in order to up-grade the knowledge, enhancing research and teaching skills.

## **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD (TELANGANA)**

**Accredited with 'A' grade by NAAC**



Jawaharlal Nehru Technological University, Hyderabad, was established on 2nd October 1972 by the Legislature of the State of Andhra Pradesh as the first Technological University in the country. After 36 years of existence it was restricted into 4 different Universities by the Government vide Government Ordinance No.30 dated September 2008 and this new University has been designated as Jawaharlal Nehru Technological University Hyderabad (JNTUH). It has been in the forefront for the past 44 years in providing quality technological education and situated in a sprawling 89-acre campus at Kukatpally,

Hyderabad. It has now Four Constituent Engineering Colleges and 15 other constituent units in Hyderabad campus.

JNTUH offers B.Tech. programmes in 21 disciplines and B.Pharm at UG level; Integrated 5-year dual degree Masters programme; M.Tech. Programmes in 68 disciplines, M.Pharm. in 11 disciplines; M.Sc. in 4 disciplines; MCA, MBA and Double Degree Programmes at P.G. level; in addition to M.S., M.Phil., Ph.D. Research Programmes in various disciplines of Engineering, Technology, Science, Management and Humanities. JNTUH has 300 affiliated colleges spread over the Telangana State. JNTUH has more than 3.50 lakhs students on rolls. The University has Memoranda of University with many National and International organizations. JNTUH is identified as TEQIP-III University under subcomponent 1.3ATU.

## **LNCT GROUP OF COLLEGES**



LNCT Group of Colleges is one of the oldest and largest educational group in central India. Founded in 1994 Lakshmi Narain College of Technology, Bhopal has the privilege of being the First Private (self financed) institute of M.P., LNCT Group offers program from Diploma, Bachelor, Master's and Doctorate level programs. With campuses in five locations in Madhya Pradesh &



Chhattisgarh including the cities of Bhopal, Indore, Gwalior, Jabalpur and Bilaspur to meet the ever increasing demands of higher education in central India, LNCT Group is one of the largest Group central India to offer programs in field of study: Engineering, Management, Pharmacy, Medical, Homeopathy, Dental and professional studies. This includes the students a feeling of responsibility and concern and makes them comprehend the world a bit better. Each one is better endowed to face the world and the satisfaction of having fulfilled their social responsibility is an added bonus.

The L. N. Medical College & Research Centre located at Bhopal, MP. It is a part of LNCT Group of College, which are runs a hospital with 750 Beds and Medical courses affiliated with Barkatullah University, All group institutions have the finest relations among the industry and academics. Today, prospective students will find 58 undergraduate, graduate as well as post graduate programs. People who wish to pursue a career in Engineering, Management, Pharmacy, Medicine, Dentistry and Nursing.

## **ABOUT ORGANIZING INSTITUTE & DEPARTMENT**



Lakshmi Narain College of Technology & Science, Bhopal is devoted to excellence in teaching, research and innovation and to develop leaders who will make a difference to the world. LNCT&S, which is based in Bhopal since 2006. The record breaking placement at LNCT&S is an apt testimony to its focus on upholding the highest academic standards right from selecting top faculty, introducing world class pedagogical practices to personality development to the students.

The department of Engineering Mathematics, one of the vibrant department of the institution, established in the year 2006. Department functions as a service agency providing support to UG inculcate analytical skills in mathematical sciences so as to enable the students to apply and formulate in solution making approaches of their technical subjects. Definitely the learning of mathematics will enhance and widen the mathematical aptitude, analytical skills, logical reasoning and systematic thinking of the students.

## **ABOUT BHOPAL**



Bhopal, capital city of Madhya Pradesh, is known as city of lakes. Founded by Raja Bhoj, the city has many natural and artificial lakes and it is one of the greenest cities in the country. The main cultural center of Bhopal is Bharat Bhavan. The State Museum has fossils, paintings and rare Jain sculptures. Taj-ul-Masjid is one of Asia's largest mosques, with white domes, and minarets. Van Vihar National Park, located in the middle of the city, has many species of animals living in their natural habitat. A large number of institutes of national importance have been

established in Bhopal. Climate of Bhopal is pleasant in the month of November.



## ABOUT INTERNATIONAL CONFERENCE

The purpose of this international conference is to discuss recent findings and new emerging trends in the field. It is intended to promote fruitful collaboration between various communities and institutes by bringing together a small number of scientists in inspiring surroundings. Some priority is given to young scientists to orally present and defend their own work. This will be a great opportunity for budding researchers particularly in the local region to explore the new aspects and global relations.

They would get ample scope to exchange views and thoughts besides presenting their research. The conference aims to provide a common platform to researchers working in various sub-disciplines of the theme.

## Course Objective

The course objective of this international conference is to bring together leading researchers and academics in the field of applied mathematics and engineers in order to debate current and interdisciplinary topics in mathematical modelling and high performance computing and their applications in science. The aim of this conference is to promote the interconnection of mathematical modeling, and High performance computing used in solving complex (real-world) problems. The lectures will be prepared with a broad multidisciplinary audience in mind, and ranging from modeling to scientific computing, will be covered. All submitted papers will be peer-reviewed by referees and accepted papers with great quality will be published in **International Journal of Scientific Research in Mathematical and Statistical Sciences (UGC Approved, Journal No. 63061)**.

**Main topics:** Mathematical modelling and High-Performance Computing in Science and Technology is a premier international conference on topics at the confluence of high performance and large scale computing systems, their use in modeling and simulation, their design, performance and use, and their impact, and related issues.

- ◆ Mathematical modeling the future Internet and developing future Internet security technology
- ◆ High Performance Computing (HPC)
- ◆ Mathematical Models and Information-Intelligent Systems on Transport
- ◆ Computational Methods for Linear and Nonlinear Optimization
- ◆ Numerical Methods for Solving Nonlinear Problems
- ◆ Bio-mathematics
- ◆ Mathematical Models for Computer Science
- ◆ Industrial Mathematics
- ◆ Mathematical Models for Computer Science
- ◆ Computational Modeling in Engineering and Science
- ◆ Mathematical modelling of Man-made Natural disasters: forest fire & environmental pollution
- ◆ Numerical Linear Algebra Methods for Large Scale Scientific Computing
- ◆ Machine Learning Techniques in Bioinformatics
- ◆ Processing, modelling, and describing time series

## Important Dates:

Paper Submission	- Jan 31, 2020
Confirmation of Acceptance	- Feb 05, 2020
Conference Date	- Feb 12-13, 2020

## Registration:

There is **No registration fee** for **Research scholar/ UG/PG students and faculty members** of Madhya Pradesh, Govt./ Private Institutes and **Rs. 1000/- for Other State**.

**Note:** No TA/DA will be paid to participants.

Selection will be on **First-Cum- First Served** among eligible applicants.

## Accommodation:

On Prior request accommodation for the outstation participants can be arranged in LNCT Hostel/ Guest House on payment basis. Certification of participation will be issued after the completion of the program.

Bhopal has a good number of hotels with tariff ranging from Rs. 1000/- to 5000/-. Delegates may book their accommodation as per their convenience.

The charges for accommodation will be payable by delegates themselves.

## Payment Mode

The Registration fee is to remitted by way of Demand Draft. In Favour of LNCT&S, Bhopal and payable at Bhopal



## KEYNOTE SPEAKERS



Dr. Vijay Vir Singh  
Professor (Mathematics)  
Ysuf Maitama Sule University, Nigeria



Dr. Jomar Fajardo Rabajante  
Professor (Mathematics)  
University of The Philippines, Philippines



Dr. Sanjeev Kumar  
Professor & Head  
Mathematics  
Dr. B.R. Ambedkar University  
Agra (U.P.)



Dr. S. Suresh Kumar  
Professor  
Computer Science Engineering  
JNTU, Hyderabad



Dr. Sk. Safique Ahmad  
Professor  
Mathematics  
IIT, Indore

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LNCT, Bhopal



LNCTS, Bhopal



LNCTE, Bhopal



LNCP, Bhopal



JNCT, Bhopal



LNCTU, Bhopal

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### Venue & Correspondence Address

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## Registration Form

# INTERNATIONAL CONFERENCE

ON

## “MATHEMATICAL MODELING AND HIGH PERFORMANCE COMPUTING IN SCIENCE AND TECHNOLOGY”

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**Department of Engineering Mathematics**

**Lakshmi Narain College of Technology & Science, Bhopal (M.P.)**

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3. Organization: .....
4. Phone No. ....
5. Email id .....
6. Accommodation required (Y/N):.....

Signature of Applicant with date

Signature  
(Sponsoring Authority)

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