

भारतीय सूचना प्रौद्योगिकी संस्थान भागलपुर
Indian Institute of Information Technology
Bhagalpur
(An Institute of National Importance Under an Act of Parliament)



Five Days Online
Faculty Development Program
on

Mathematical Perspective of Epidemic
Outbreak with Special Focus on
COVID-19

18th – 22nd March 2021



Patron
Prof. Arvind Choubey
Director, IIIT Bhagalpur

ABOUT IIIT BHAGALPUR

Indian Institute of Information Technology Bhagalpur (IIIT Bhagalpur) is an Institute of National Importance, MoE (earlier MHRD), Govt. of India in Public-Private Partnership (PPP) mode. Bhagalpur is a city of historical importance on the southern banks of the river Ganges in the Indian state of Bihar and popularly known as Silk City. The institute is actively exploring the technical intervention required for the development of the country under the Make in India Initiative. The institute is in notable progress under the able leadership of Prof. Arvind Choubey, Hon'ble Director of the Institute. Presently, the institute offers B.Tech in engineering in three disciplines in Computer Science and Engineering, Electronics and Communication Engineering and Mechatronics Engineering. The institute is going to start Ph.D, M.Tech and Dual Degree M.Tech & Ph.D programs from July 2021.

ABOUT THE DEPARTMENT

The B.Tech curricula of IIIT Bhagalpur need some common courses in Mathematics, Physics, Humanities and Management as essential components. The **Department of Basic Science and Humanities** was formed in 2019 to cater to these needs under a single umbrella of departmental structure. Well-experienced and highly qualified faculty members of the department aspire to make consistent and fruitful efforts to improve the students learning, research and development processes. In addition to the common courses for various streams in UG/PG in Engineering, the department floats elective courses in Mathematics and Physics in order to support the whole UG curriculum. The department aspires to start M.Sc. Program in mathematics and PhD programs in selective specializations from July 2021.

OBJECTIVE OF THE FDP

The objective of this FDP is to share the recent developments in Mathematical modeling from the perspective of epidemic outbreak with special focus on COVID-19.

THEME OF THE FDP

Infectious diseases are major threats for mankind and affect the community at grass root level, posing a huge economic burden due to adverse effects on human health. Mathematical models are considered as one of the most effective tools to predict the transmission mechanism of various infectious diseases. Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) is a highly infectious virus that causes the severe respiratory disease to the human population, also known as Coronavirus Disease (COVID) emerged in China in December 2019 that spread rapidly all over the world and has become a pandemic and the biggest challenge to humanity at present. Although several vaccination programs are coming up with different degrees of success, all the countries are continuing to take steps such as social distancing, sanitization, use of face masks, etc. After more than a year, almost all the countries have relaxed the lockdown measures to open the economy and allowing public gatherings with some degree of precautionary measures. To eradicate the coronavirus pandemic, continuous propagation of awareness through social media advertisements is needed to encourage people for adopting preventive measures and undertake vaccination.

RESOURCE PERSONS

Chief Guest:

Prof. Arvind Kumar Misra
Professor, Department of Mathematics
Banaras Hindu University, Varanasi

Keynote Speaker:

Prof. Joydev Chattopadhyay
Professor
Agricultural and Ecological Research Unit
Indian Statistical Institute, Kolkata

Speakers are internationally acclaimed faculty members from premier Institutions and Universities from India and abroad.

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Organized by

**Department of Basic Science and
Humanities**

FDP Coordinators

**Dr. Pankaj Kumar Tiwari
&
Dr. Himadri Nayak**

Assistant Professor

Department of Basic Science and Humanities
IIIT, Bhagalpur

- **Number of Seats (Tentative):** 30
- **Who can participate?**
Faculty members & research scholars of India and abroad.
- **Registration Fee:**
From Academic Institutes: Rs.500/-
From Industry: Rs.1000/-
- **Certificate:**
It will be provided to the participants, with at least 75% attendance, upon successful completion of the program.
- **Mode of Payments:**
By NEFT/RTGS/UPI:
Account Name: Indian Institute of Information Technology Society Bhagalpur
Account Number: 11270110047149
Bank Name: UCO Bank, Sabour, Bhagalpur.
IFSC Code: UCBA0001127

CONTACT DETAILS

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2. Dr. Himadri Nayak
Mob: 9957207410
Email Id: hnayak.math@iiitbh.ac.in

IMPORTANT DATES

- 16th March, 2021: Last date of Online Registration.
- 17th March, 2021: Notification to the Selected Participants.
- 18th March, 2021: Inaugural Session, Keynote Speech.
- 22nd March, 2021: Valedictory Session

REGISTRATION PROCESS

- Registration will be done through online mode only.
- Last date of submission of application: 16th March, 2021 (11:59 PM).
- Online link to complete registration:
https://docs.google.com/forms/d/e/1FAIpQLSfppJn3JMaNJu55DYesJfNIa48QAPlcZLea-aOFv_jwAJJeYA/viewform
- Details of the FDP and updates regarding it can be viewed in the following webpage:
<https://sites.google.com/iiitbh.ac.in/bsh-fdp-01/home>
- Candidates must be ready with the payment receipt (soft copy/ scanned copy) before going for online registration as there will be an option to upload the receipt in the form.

ORGANISING COMMITTEE

Patron

Prof. Arvind Choubey, Director, IIIT Bhagalpur

Coordinators

Dr. Pankaj Kumar Tiwari, BSH, IIIT Bhagalpur
Dr. Himadri Nayak, BSH, IIIT Bhagalpur

Advisory Committee

Dr. Gaurav Kumar, Head MEA, IIIT Bhagalpur
Dr. Pradeep Kumar Biswal, Head CSE, IIIT Bhagalpur
Dr. Dheeraj Kumar Sinha, Head ECE, IIIT Bhagalpur

Organizing Committee

Dr. Tameshwer Nath, MEA, IIIT Bhagalpur
Dr. Abhinav Gautam, MEA, IIIT Bhagalpur
Dr. Sandeep Raj, ECE, IIIT Bhagalpur
Dr. Sanjay Kumar, ECE, IIIT Bhagalpur
Dr. Prakash Ranjan, ECE, IIIT Bhagalpur