

**भारतीय सूचना प्रौद्योगिकी संस्थान भागलपुर**  
**Indian Institute of Information Technology**  
**Bhagalpur**

(Institute of National Importance Under an Act of Parliament)



*A Two Week*  
**Faculty Development Program**

*On*

**Soft Computing approach towards**  
**Microwave Application**

**10<sup>th</sup>–21<sup>st</sup> January, 2023**



**Patron**  
**Prof. Arvind Choubey**  
**Director, IIT Bhagalpur**

**ABOUT IIT BHAGALPUR**

Indian Institute of Information Technology Bhagalpur (IIT Bhagalpur) is an Institute of National Importance, set up by MoE (earlier MHRD), Govt. of India in Public-Private Partnership (PPP) mode. 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 has started Ph.D, M.Tech and Dual Degree M.Tech & Ph.D programs from August 2021.

**ABOUT THE FDP**

This FDP is aimed at imparting knowledge and training on the fundamentals of Soft Computing and Microwave systems. Expert lectures will be delivered by experts from academia and industry. This programme will be beneficial to faculty members who intend to pursue research in the field of Soft Computing and Microwave systems. The major objective of this hybrid mode (online & offline) Faculty Development Programme is to address a detail exposure to faculty members and research scholars, post graduates and undergraduates of different institutions about the most recent innovations, trends, concerns, practical challenges encountered, and the solutions adopted in the field of Soft Computing techniques. The participants should be able to understand the following topics related to:

- Evolutionary Computing
- Combinatorial and numerical optimization
- Swarm Intelligence
- Fuzzy clustering algorithms and optimization techniques
- Nature Inspired Computing Techniques
- Hybridization with novel computing paradigms.
- Meta-material synthesis using soft computing.
- Antenna optimization.
- Microwave devices.
- Machine learning for antenna engineering

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*Sponsored by*

**AICTE Training and Learning**  
**(ATAL) Academy**

**10<sup>th</sup>–21<sup>st</sup> January, 2023**



*Organized by*

**Department of ECE**  
**IIT Bhagalpur**

**Coordinator**

**Prof. Arvind Choubey**  
**Director, IIT Bhagalpur**

**Co-coordinator**

**Dr. Prakash Ranjan**  
**Dept. of ECE, IIT Bhagalpur**

## About AICTE Training and Learning

AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Ministry of Education, Govt. of Indiae.g., SWAYAM, MOOCs, Start-up Initiatives, Prime Minister Kaushal Vikas Yojana (PMKVY), Sansad Adarsh Gram Yojana (SAGY), Swachh Bharat/Unnat Bharat Abhiyan, Yoga Activities etc. It is required to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It is also felt that training with latest tools and technologies is vital to keeping an institute competitive and more productive. AICTE Training and Learning (ATAL) program is focused for this purpose to increase the knowledge and skills of participant to make them more knowledgeable to acquire global competencies.

### Target Participants

Assistant Professors/Associate Professors/Ph.D. scholars/PG students of the AICTE recognized universities and engineering colleges.

### Registration

Participants can register for this course through the below mentioned link.

<https://atalacademy.aicte-india.org/signup>

### How to register?

**Step 1.** One can register themselves with an email id (sign up). If one has already registered, then login.

**Step 2.** Click on Workshops FDPs.

**Step 3.** Search by typing “ATAL” and Month “January” from above dropdown box.

**Step 4.** Select thrust area “All” from rightmost dropdown box.

**Step 4.** Click the RED plus sign button to register.

**Step5.** A short notification “successfully course registered” appears.

**Step 6.** One can also check their registration by clicking on the Applied Workshops (after done successfully registration)

**Number of seats (Maximum): 50**

**Registration Fee: Nil**

### Details of FDP Mode:

The mode of the FDP is ONLINE (week-1: 10<sup>th</sup> January 2023-16<sup>th</sup> January 2023) and OFFLINE (week-2: 17<sup>th</sup> January 2023- 21<sup>st</sup> January 2023).

### Test and e-Certificate:

- Two MCQ based test shall be conducted for the assessment.
- First MCQ test will be conducted at the end of the week 1 (Online).
- Second MCQ test will be conducted at the end of the week 2 (Offline) .
- Assessment will also include the performance of the candidate in paper presentation (Team based).
- Candidate must score minimum marks in the test as specified by AICTE ATAL FDP scheme
- The e-certificates shall be issued to those participants who have attended the program with minimum attendance.

### RESOURCE PERSONS

Tentative list of eminent speakers is as follows:

- ✓ Prof. Arvind Choubey (IIIT, Bhagalpur)
- ✓ Prof. H. P. Vazquez (NPI Mexico)
- ✓ Prof. Adrian Pena-Delgado (PIA, Mexico)
- ✓ Prof. S. K. Mishra (IIT Delhi)
- ✓ Prof. Preetam Kumar (IIT-Patna)
- ✓ Dr. Somak Bhattacharya (IIT-BHU)
- ✓ Dr. Himanshu Bhushan Baskey (Deputy Director DMSRD, DRDO, Kanpur)
- ✓ Dr. R. Sinha (NIT Jamshedpur)
- ✓ Dr. Manish Jha (NIT Jamshedpur)
- ✓ Prof. P K Jain (Director, NIT Patna)
- ✓ Dr. Rajshree Bhattacharya (NIT-Patna)
- ✓ Dr. S. K. Mahto (IIIT Ranchi)
- ✓ Dr. P. Ranjan (IIIT Bhagalpur)
- ✓ Dr. Dhruvdyoti Bhattacharya (IIIT Bhagalpur)

### Patron

Prof. Arvind Choubey, Director, IIIT Bhagalpur

### Coordinator

Prof. Arvind Choubey, Director, IIIT Bhagalpur

### Co-Coordinator

Dr. Prakash Ranjan, ECE, IIIT Bhagalpur

### ORGANIZING COMMITTEE

Dr. Dhruvdyoti Bhattacharyya, ECE, IIIT Bhagalpur

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Dr. Dheeraj Kumar Sinha, ECE, IIIT Bhagalpur

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Dr. P.K. Biswal, CSE, IIIT Bhagalpur

Dr. Gaurav Kumar, MEA, IIIT Bhagalpur

Dr. Abhinav Gautam, MEA, IIIT Bhagalpur

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### CONTACT DETAILS

#### Enquiry should be addressed to:

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