



सत्यमेव जयते



FDP
2018-2021

A REPORT ON FACULTY DEVELOPMENT PROGRAMME

Government of India Initiative for Employability Enhancement

Conducted through Online mode
By
Department of Computer
Science & Application

**ATAL BIHARI
VAJPAYEE UNIVERSITY,
BILASPUR(C.G.)**



IIT
GUWAHATI



IITDM
JABALPUR



MNIT
JAIPUR



IIT
KANPUR



NIT
PATNA



IIT
ROORKEE



NIT
WARANGAL



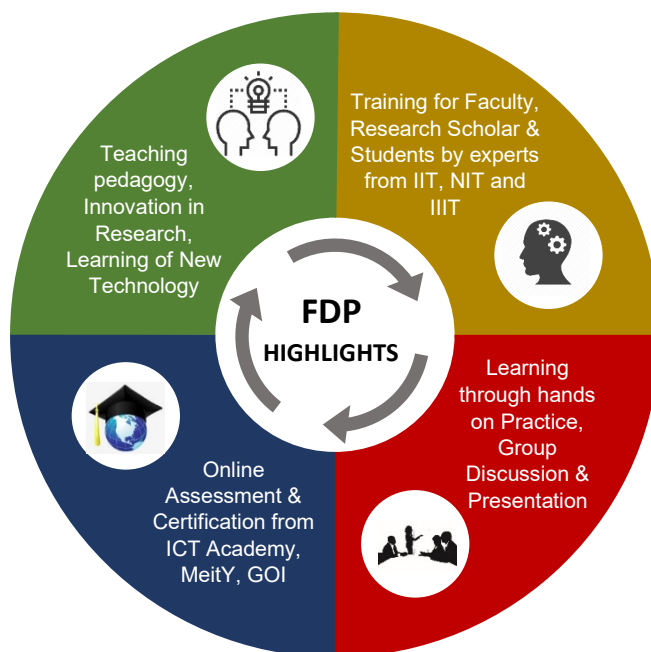
In Association with:

ICT ACADEMIES

Ministry of Electronics & Information
Technology (MeitY), Govt. of India



India is fast emerging as a world power in Information, Communications Technology and Electronics (ICTE) sectors. To complement its growth and further development, there is an ever-increasing need for trained professionals with specialization in this space. This includes training of professionals not only in existing and changing technologies but also in the fields of R&D and electronics manufacturing. This will specifically be aimed at the ICTE sector to create a substantial resource pool of talent and generate ample opportunities for entrepreneurs. Ministry of Electronics & Information Technology (MeitY) has approved a scheme and setup Electronics and ICT Academies at 07 (seven) institutions viz. IIT Guwahati, IIT Kanpur, NIT Warangal, NIT Patna, IIITDM Jabalpur, IIT Roorkee and MNIT Jaipur. The Ministry had earlier setup two ICT Academies at Tamil Nadu and Kerala respectively. These Academies are aimed at faculty/mentor development and upgradation to improve the employability of the graduates, diploma holders in various streams, through collaboration of States/Union Territories. Each Academy is being provided funding support for four years and is expected to generate revenue by charging fee and taking up other activities to meet the recurring cost in a gradual manner and become self-sustainable by the end of fourth year onwards. All these Academies will cater to the requirements of identified neighbouring States and UTs also.



ABOUT REMOTE CENTRE

Electronics & ICT Academy, PDPM IIITDM Jabalpur has identified Department of Computer Science & Application, Atal Bihari Vajpayee University, Bilaspur as remote centre to run FDP from time to time.

The objective is to meet the skill requirements of the industry and generate more employment especially in tier 2 and 3 towns, the rural parts of the country. Initially the department was the only remote centre in the state of CG.

After successful completion of Summer

2018 FDP, IIITDM Jabalpur has identified Department of Computer Science & Application, Atal Bihari Vajpayee University, Bilaspur to organize FDPs through Online mode as remote centre for the years 2019, 2020 & 2021.

The department is the only nodal/remote centre in the state identified by IIITDM Jabalpur.

FDPs CONDUCTED IN ACADEMIC YEAR 2018-19



Date: 24th June'19 to 28th June'19

Topic: Robotics & AI

Module:

1. Introduction to Robotics and Robot Simulators
2. Kinematics, Dynamics and Control
3. Artificial Intelligence and Robotics
4. More on AI and Machine Learning: Reinforcement Learning
5. Applications, Research Directions and Case Studies

Date: 27th May'19 to 31st May'19

Topic: Deep Learning & Application

Module:

1. Artificial Neural Networks (ANNs)
2. Regularization, Hyperparameter Tuning and Autoencoders
3. Convolutional Networks
4. Sequence Modelling
5. Generative Adversarial Networks, Object Detection Algorithms



Date: 11th June'18 to 15th June'18

Topic: ANN & Deep Learning

Module:

1. Artificial Neural Networks (ANNs)
2. Deep Learning
3. Optimization for Training Deep Models
4. Convolutional Networks
5. Sequence Modelling



"Glimpses of FDP held through Video Conferencing through National Knowledge Network"

Date: 18th June'18 to 22nd June'18

Topic: Internet of Things

Module:

1. Foundations of Internet of Things
2. Protocol Stack in IoT case Studies/Quiz: 4 hrs) Convolutional Networks
3. Data Acquiring, Organizing and Analytics in IoT
4. Designing Software and Hardware for IoT Applications
5. Privacy and Security in IoT



Date: 17th June'19 to 21st June'19

Topic: Introduction to Programming: A Pedagogical Approach

Module:

1. Introduction
2. Branching
3. Functions & Recursion
4. Data Structures & Algorithms
5. Testing & Debugging



Date: 17th Dec'18 to 21st Dec'18

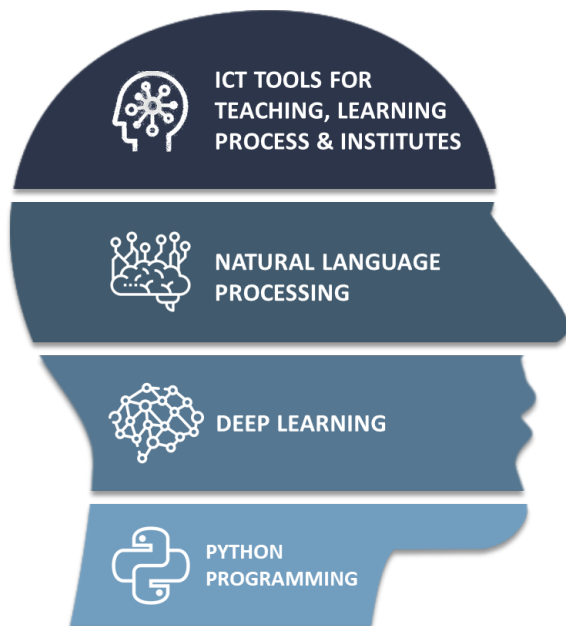
Topic: AI & Machine Learning

Module:

1. AI Fundamentals
2. Search Techniques
3. Knowledge Representation
4. Machine Learning Structures
5. Machine Learning Algorithms



FDPs CONDUCTED IN ACADEMIC YEAR 2019-20



ICT TOOLS FOR TEACHING, LEARNING PROCESS & INSTITUTES

Date: 13th to 17th Jan'20

NATURAL LANGUAGE PROCESSING

Date: 06th to 10th Jan'20

DEEP LEARNING AND APPLICATION

Date: 09th to 13th Dec'19

PYTHON PROGRAMMING WITH INDUSTRY PERSPECTIVE

Date: 02nd to 06th Dec'19

FDPs CONDUCTED IN ACADEMIC YEAR 2020-21

01

DATA SCIENCE FOR ALL

Date: 12th to 23rd Apr'21



02

DEEP DESIGNING WITH FPGAS (INTEL)

Date: 19th to 30th Apr'21



03

DEEP LEARNING & APPLICATIONS (PARALLEL ARCHITECTURES)

Date: 10th to 21st May 21



04

DIGITAL TOOLS FOR WRITING, AUTHORING AND REVIEWING MANUSCRIPTS

Date: 24th May to 04th Jun'21



05

SOCIAL ROBOTICS & AI

Date: 07th to 18th Jun'21



06

PROGRAMMING IN PYTHON

Date: 05th to 16th Jul'21

