About PDPM IIITDM Jabalpur

PDPM IIITDM Jabalpur was established in 2005 with a focus on education and research in IT-enabled Design and Manufacturing. Since its inception, PDPM IIITDM Jabalpur has been playing a vital role in producing quality human resources for contribution in India's mission of inclusive and sustainable growth. The Institute offers undergraduate, postgraduate and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Design and PhD programmes in Mathematics, Physics and Literature. Under IIIT act, the Institute has been declared as an Institute of National Importance in January 2015. The Institute campus is being developed on 250 acres of land close to Dumna Airport, Jabalpur. The Institute is 10 km from the main railway station and 5.5 km from Dumna Airport, Jabalpur.

Faculty Development Programme "Soft Computing and Its Applications"

Who can attend: Programme is open to faculty from all colleges and universities across all states and union territory of India. Research scholars and post graduate students are also eligible.
Industry personnel working in the concerned/allied discipline may also apply.

How to apply:
Online: The participants may log on to the website www.iiitdmj.ac.in and fill up the application form selecting the name of the course. One may also send a scanned copy of your completed application form to kusum@iiitdmj.ac.in .

Registration fee is as follows:
Students   Nil
Faculty   INR 500/- only
Industry people   INR 2000/- only
Note: There will be NO registration fee for FIRST 30 Participants. You can directly send your application form to Dr. Kusum Kumari Bharti at kusum@iiitdmj.ac.in

Important Information:
1. REGISTRATION FEE can be submitted through ONLINE mode only.
2. FDP will be conducted through ONLINE mode only.
3. Last Date of Online Registration: **Aug 20, 2020**
4. Course Duration: Aug 29 – Sep 02, 2020

Registration details:
Electronic transfer details are as follows:

Name of the Bank: Allahabad Bank
Branch Name: Mehgawan, IIITDM, Campus Branch, Jabalpur
IFSC Code: ALLA0212433
Account Name: PROJECT ACCOUNT PDPM IIITDM JABALPUR
Account No: 50210022387
Branch Code: 212433

Contact us:

Dr. Kusum Kumari Bharti/ Dr. Manish Kumar Bajpai
CSE Discipline
PDPM IIITDM, Jabalpur,
Dumna Airport Road, Jabalpur 482005
Email: kusum@iiitdmj.ac.in, mkbajpai@iiitdmj.ac.in
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PDPM
Indian Institute of Information Technology,
Design and Manufacturing,
Jabalpur,
Dumna Airport Road,
Jabalpur 482005

AICTE Training and Learning (ATAL) Sponsored

Faculty Development Programme

Soft Computing and Its Applications
Aug 29 – Sep 02, 2020

Seamless Learning Opportunities
at
PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur

An Institute of National Importance, Established by an Act of Parliament,

Soft Computing and Its Applications

Course objectives:

This course is designed to provide an exposure on Soft Computing Algorithms. Soft Computing algorithms are playing vital role to approximate the solution of many NP Hard problems. The field is getting popularity day-by-day. Hence, a course is needed which can train the faculties in this area so that many more applications can be explored with the help of evolutionary algorithms. Participants will learn basics of different evolutionary algorithms and their application in different engineering areas. The aim of this FDP is to introduce faculty and student to learn these soft computing techniques in an efficient way. This programme will provide hands-on experience to participants through various examples and assignments.

Resource Persons

Name of the resource person	Organization/Institute
Prof. Kusum Deep	IIT Roorkee
Dr. P K Singh	IIITM Gwalior
Dr. J C Bansal	South Asian University Delhi
Dr. Harish Sharma	RTU Kota
Dr. Kusum Bharti	IIITDM Jabalpur
Dr. Manish Bajpai	IIITDM Jabalpur

Course Contents

Module 1:
Complexity Theory, Optimization Problems, Introduction to Soft Computing

Principal Co-ordinator	Dr. Kusum Kumari Bharti CSE Discipline PDPM IIITDM, Jabalpur, Dumna Airport Road, Jabalpur 482005 **Email:** kusum@iiitdmj.ac.in Phone: +91-761-2794232 (O), +91-9406711296 (M)
Co-Coordinator	Dr. Manish Kumar Bajpai CSE Discipline PDPM IIITDM, Jabalpur, Dumna Airport Road, Jabalpur 482005 **Email:** mkbajpai@iiitdmj.ac.in Phone: +91-761-2794227 (O), +91-9425156289 (M)

Module 2:
Evolutionary Algorithms for Optimization

Module 3:
Nature Inspired Algorithms for Optimization

Module 4:
Research problems and Applications of Soft Computing

Topics to be covered will have range of applications of evolutionary algorithms from different engineering streams. Some of them are listed below but not limited to:

1. Image Processing
2. Signal Processing
3. Filter Design
4. Speech Processing
5. Data Mining
6. Biomedical signals
7. Fractional Derivatives in Soft Computing
8. Robotics
9. Control System etc.

Application Form

Name of the Course / Programme: Soft Computing and Its Applications

Name of the Applicant (first, last): ....
....

Gender : M / F/ T   Category: GEN/SC/ST/OBC

Designation: ....

Name and Address of the Organization/Institute/College:
....

....

City/town: .... Email: ....

Alternate email (if any): ....

Phone Number: ....

Mobile Number: ....

Registration fee details:

Transaction Number: ....

Date: ....

Amount: ....

Signature of the Applicant