

Course Content

- Introduction to Pattern Recognition.
- Regression
- Statistical Pattern Recognition. Bayes Rule. Maximum Likelihood, Classification.
- Maximum Likelihood Parameter Estimation
- Principal Component Analysis, Linear Discriminant Functions
- Support Vector Machines
- Neural Networks, Multilayer Perceptron and Back-propagation
- Hyperbox Classifier
- Fuzzy Min-Max Neural Network
- Decision Trees and Hierarchical Classification
- Ensemble Classifiers; Bagging, Boosting
- Deep Learning

About the City

The city of Jabalpur is known and considered as Sanskardhani, a “Cultural Center Place”. It is a place of great historical and cultural importance. This Cultural capital of Madhya Pradesh is situated on the bank of the holy Narmada and Famous for Dhuandhar Falls and Marble Rocks in Bhedaghat, Hanumantal Bada Jain Mandir, Madan Mahal Fort, Rani Durgawati Museum. Simultaneously it is keeping pace with modern advanced knowledge. Jabalpur is an important junction for the Indian Railways. Jabalpur is a large Defence and Military Center. Jabalpur is also known for housing spiritual leaders Maharishi Mahesh Yogi and Bhagwaan Shri Rajneesh (Osho). This vibrant city with multiple dimensions of knowledge and liberation has a magnetic attraction for people all over the world. The Jageshwar Nath Shiv Temple at Bandakpur, near Damoh, Kundalpur Jain Teerth Kshetra, near Damoha, Vishnu-Varaha Temple, Majholi, Pench National Park, Kanha Tiger Reserve, Bandhavgarh National Park are attractions near Jabalpur city.

Route to Jabalpur

The city of Jabalpur is well connected by road, rail and air with all the important places of India. Regular flights are provided by Air India & Spice Jet. Daily.

services are available to Bhopal, Delhi, Hyderabad and Mumbai. Jabalpur has direct connection to Mumbai, New Delhi, Bhopal, Kolkata, Nagpur, Patna etc. The IIITDM campus is only 10 km from Jabalpur railway station and 5.5 km from the Dumna airport.

About the PDPM IIITDM Jabalpur

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, post graduate and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering,



Mechanical Engineering, Design and PhD programmes in Mathematics and Physics. Under IIIT act, the Institute has been declared an Institute of National Importance in January 2015. The Institute campus is being developed on 250 acres of land close to Dumna Airport, Jabalpur.

Teaching Faculty

Faculty members from the Discipline of Computer Science and Engineering of IIITDM Jabalpur will be teaching the course contents. Subject experts from other premier institutions will be invited for delivering the special lectures with tutorial sessions.

Course Material

Hard / Soft copies of the lecture notes/presentations will be made available to participants at the end of lecture/presentation. Moreover, sample programs in Python/Weka will be provided.



One Week QIP Short Term Course



On

PATTERN RECOGNITION AND ITS APPLICATIONS (PRIA 2017)

October 12-16, 2017



AICTE sponsored Short Term Course

PRIA2017

Organized by:

Computer Science and Engineering,
PDPM IIITDM Jabalpur

Contact Me

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(Course Coordinator)

PRIA 2017

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One Week QIP Short Term Course on Pattern Recognition and its Applications (PRIA 2017)

October 12-16, 2017

Objectives of the course:

The broad objective of this course is to make individuals self-sufficient who are doing their research and teaching on Pattern Recognition. Pattern Recognition techniques are widely used for many applications such as biometrics, medical imaging etc since a long time. The objective of this course is to give basic of pattern recognition concept with applications to computer vision, which help to upgrade the expertise and capabilities of the faculty members of various engineering institutions in India so that they can generate climate for research and enthusiasm for academic excellence. The objective of the course work is also to provide the theoretical fundamentals coupled with practical knowledge of pattern recognition. The hands-on training session will be conducted using Python and Weka.

Tentative List of Resource Persons:

- Dr. Prabir Kumar Biswas,
Professor & Head, Department, Electronics
& Electrical Communication Engineering,
IIT Kharagpur
- Dr. C. A. Murthy, Professor, Machine
Intelligence Unit, ISI, Kolkata
- Dr. Debdoot Sheet, Assistant Professor
Department of Electrical Engineering,
IIT Kharagpur
- Dr. Atul Gupta, Associate Professor,
IIITDM Jabalpur
- Dr. Ayan Seal, Assistant Professor
IIITDM Jabalpur

Who Can Attend?

The STC is open to faculty members, PhD and M. Tech students from Universities / Institutes / Engineering Colleges approved by MHRD/ AICTE / UGC.

Course fee

- For faculty from AICTE / MHRD / UGC approved institute*: Rs 1000/- (refundable).
- For sponsored category⁺: Rs 3000/- (non-refundable).
- For external research scholar⁺: Rs 1000/- (non-refundable).
- For internal research scholar[^]: Rs 500/- (non-refundable).

How to Apply?

The registration fee to be paid online in Allahabad Bank, Branch Mehgawan, Jabalpur (IFSC Code ALLA0212433) Account No. 50388395415 in favor of QIP PDPM IIITDM Jabalpur through any nationalized bank and payable at Jabalpur, add remark “**QIP IIITDMJ PRIA 2017**” for the transaction. After payment is made, participants need to send an email along with Application form is given in this brochure to pria2017@iiitdmj.ac.in by **01 October, 2017**.

Important Dates

Last Date of Registration: **01 October, 2017**

Intimation of Selection: **02 October, 2017**

General Information

1. The course fee will be returned back to the respective faculty only if he/she joins the course.
2. Since the number of seats is limited to 30, the selection will be made on first cum first serve basis
3. Intimation of Selection will be sent only through email.

Note

1. *Full financial support including TA/DA (train fare III-AC, food and accommodation during the STC).
2. ⁺No financial support, attendee has to borne all the expenses. We may extend support for subsidized accommodation in Hostel Guest rooms and food in mess.
3. [^]No food (lunch dinner and breakfast) except tea etc during breaks.
4. The course fee includes a kit containing the study material, tea and snacks.

One Week Short Term Course on Pattern Recognition and its Applications (PRIA 2017) Registration Form

Name of the Applicant (first, last): _____

Gender: _____

Designation: _____

Name and Postal Address of the Organization /
Institute/college: _____

City/town: _____

Email id: _____

Contact Number: _____

Do you need accommodation? (Yes/No) _____

Transfer details _____

Account No.: _____ Date _____

Issuing Bank _____, IFSC Code _____

Signature of the Applicant

Sponsorship

Prof./Dr./Mr./Mrs./Miss _____
_____ is an
employee of our institute and his/her application is
hereby sponsored. The applicant will be permitted to
attend the Short Term Course on “PRIA 2017” at
PDPM IIITDM Jabalpur during October 12-16, 2017,
if selected.

Date: _____

Signature of Head of Institution/Sponsoring Authority
Designation: _____

Official Seal: _____