

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal Accredited with 'A' grade by NAAC

5 DAYS FACULTY DEVELOPMENT PROGRAM

on

"ADVANCED DATA ANALYTICS USING MACHINE LEARNING" (ADAML-2019)

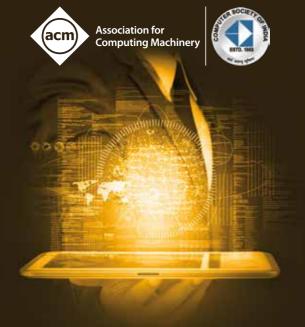
January 16th - 20th, 2019

Under the Aegis of



Third Phase of Technical Education Quality Improvement Programme (TEQIP-III)

In Association with





Acropolis Institute of Technology & Research

Manglia Square, Bypass Rd, Manglia, Indore, Madhya Pradesh 453771
Toll Free Number: 18001024474 | Phone Number: 0731-4730000, 4730001,
Fax: 0731-4730011 | General Email: info@acropolis.in

ABOUT FDP

The programme was held with objective of introducing several fundamental concepts and methods for Machine learning, focusing on some basics algorithms for solving practical problems. The FDP also laid emphasis on learning the basics of Big Data Analytics concepts, Data preparation like Merging, Data visualization etc.

Resource Persons:

- Dr. Jitendra Chhabra (Professor, NIT Kurukshetra)
 Expertise: Software Engineering, Data Mining, Machine Learning, Algorithms
- Dr. R. Pachori (Professor, IIT Indore)
 Expertise: Biomedical Signal Processing, Speech Signal
 Processing, Non-stationary Signal Processing, Brain Computer Interfacing.
- Dr. Aruna Tiwari (Associate Professor, IIT Indore)
 Expertise: Soft computing, Machine learning frameworks, artificial neural networks, fuzzy clustering, genetic programming and their applications.
- Dr. M. Tanveer (Assistant Professor, IIT Indore)
 Expertise: Optimization, Machine Learning, Support Vector
 Machines, Biomedical Signal Processing, Neuroimaging
- Dr. Suvendu Rup (Assistant Professor, IIT Bhubaneswar)
 Expertise: Image and Video Processing, Image and Video
 Compression, Distributed Video Coding, Image and Video indexing
- Prof. Surendra Gupta (Professor, SGSITS Indore)
 Expertise: Machine Learning, Software Engineering and Algorithms
- Mr. Anidhya Bhatnagar (Cofounder & Solution Architect, Medha Innovation & Development Pvt. Ltd. Chennai)
 Expertise: AWS Cloud, Big Data and Hadoop, Hive, Pig, HBase, Kafka, Sqoop, Oozie, MySQL, Spark, Python, and Java.

TOPICS COVERED

Day-1: Introduction To Machine Learning, Applications of Machine Learning and few Industry examples, Model and Cost Function, Gradient Descent, Parameter Learning and Linear Algebra.

Day-2: Linear Regression, Multivariate Linear Regression, Classification and Regression, Logistic Regression, Multiclass Classification and Regularized Linear Regression, Hypothesis and Neural Networks.

Day-3: Cost Function and Back propagation Algorithm, Hypothesis Curve and Bias vs Variance, Large Margin Classification.

Day-4: Unsupervised Learning – Clustering, Dimensionality Reduction & Principal Component Analysis (PCA), Anomaly Detection Introduction to Data Analytics, Association Rule Mining, Support Vector Machine.

Day-5: Decision Tree, Reinforcement Learning and their utility, Deep Learning and Multitask Learning, Pedagogy

EXPECTED OUTCOMES

- Knowledge Enhancements.
- Hands on practices on machine learning algorithms.
- Finding research problems.
- Communication with experts.

PROGRAM DURATION, DEADLINES HOSPITALITY & REGISTRATION FEES

- Faculty Members / Ph.D Scholars can register for FDP.
- Accommodation and dinner will be provided to outside participants on payment basis. Prior information for the same is required before January 5, 2019.
- Last date of submission of the application is January 5, 2019.
- Tea, Snacks and Lunch will be provided to each participants during the FDP.
- Selection of participants will be done on first come basis.
- As per the Norms only 40 seats are available.

ABOUT AITR

Teach for India Education & Research Samiti was founded with the objective of creating state-of-art, world class, high quality technical education facilities at Indore, and the commercial capital of Madhya Pradesh. As the first step towards fulfilment of its objectives, the society established Acropolis Institute of Technology & Research, Indore with Bachelor of Engineering courses in the year 2005 and Post-graduate degree courses in Business Administration (MBA) & Computer Applications (MCA) in the year 2006.



ABOUT CSE

Department of Computer Science and Engineering (NBA Accredited) is running undergraduate course BE and Master course ME. Curriculum of courses is same as given by RGTU Bhopal. Apart from this curriculum department provides facility to update students as per the requirement of Industries in the form of certification courses like Oracle, Microsoft, EMC2 etc.

Department always keeps on updating its students by organizing many Expert Lectures where people having many years of industry experience or are highly knowledgeable come to Our college campus to interact with students, also we organize many workshops on latest and cutting edge technologies like Big Data, Hadoop, IOS, Andriod, Ruby on Rails. Department has many tie-ups with the industry to help students get Industrial trainings as a part of their curriculum and also helps them getting Placements.

Department is having association with professional body like CSI, ISTE and ACM.

REGISTRATION FORM



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Name:				
Educational Qualification :_				
Department :	Н			
Designation :				
Organization :				
Mailing Address :				
Mobile Number :				
E-Mail Id :				
Registration Category :		Industry Research		Academic lar
Accommodation Required :		Yes \square	No	
Signature of Participant :			4	
Place :				
Date :				

Signature of Sponsoring
Authority with seal

ABOUT THE UNIVERSITY

The Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV) is an "A" grade accredited (NAAC) State Technological University of Madhya Pradesh, established in the year 1998. With a campus of about 247 acres, the RGPV is evolving into a centre of excellence in the arena of Technical Education, Research and Innovations.

There are 05 UTD's, around 217 Engineering, 85 Polytechnics, 95 Pharmacy, 88 Computer Application and 04 Architecture institutions imparting diploma, Under- Graduate, Post-Graduate courses and Doctorate of Philosophy in emerging disciplines. RGPV is emerging as centre for innovation and entrepreneurship and promoting start-up activities, Industry-Institute partnership for resolving industrial problems and transfer of technology.

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HOW TO APPLY

Interested candidate can fill the Google form by copying the URL: https://bit.ly/2BdWJG3 website or you can download the form and mail it to FDP@acropolis.in.

PREREQUISITES

- Rasic Programming concents of nython
- Basic knowledge of mathematics and statistics

CHIEF PATRONS

Prof. Sunil Kumar Gupta Hon'ble Vice - Chancellor, **RGPV**

Hon'ble Shri Ashok Sojatia Chairman BOG, Acropolis Group of Institutions, Indore

PATRONS

Group Chairman, Acropolis Group of Institutions, Indore

Hon'ble Shri Ashish Sojatia | Hon'ble Shri Gaurav Sojatia

Chairman, Acropolis Group of Institutions, Indore

Hon'ble Shri Anand Sojatia

Secretary, Acropolis Group of Institutions, Indore

ADVISORY COMMITTEE

Prof. S.C. Choube Coordinator, TEQIP **RGPV** Bhopal

Dr. S.C. Sharma Director, AITR Indore Prof. M.K. Dube

Vice Chairman, Acropolis Group of Institutions, Indore

Dr. Sanjeev Sharma Professor & Head SOIT, RGPV Bhopal

Dr. Jitendra Agrawal Assistant Professor, UTD RGPV, Bhopal

COORDINATOR

Dr. Sanjay Bansal

Professor & Head, Department of CSE AITR, Indore

ORGANIZING COMMITTEE

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