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Anna University, BIT Campus
Tiruchirappalli

PROGRAMME CO-COORDINATOR

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Anna University, BIT Campus
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Two Weeks Online Certificate Programme on

Data Science for All

(Endorsed by AICTE/UGC)

April 12th – 23rd, 2021



सत्यमेव जयते

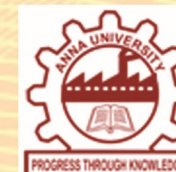
Seamless Learning Opportunities
At

Electronics and ICT Academy
An Initiative and Sponsored by
**Ministry of Electronics and Information
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PDPM
Indian Institute of Information Technology,
Design and Manufacturing
Jabalpur



in association with

University College of Engineering
BIT Campus, Anna University
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Contact us

Mrs. V.M. Priyadharshini: +91 - 9965834502
Email: priyadharshinivm@gmail.com
Mrs. R. Jayamala: +91 - 9790441769
Email: jayajasmine07@gmail.com

ABOUT UCE, BIT CAMPUS, ANNA UNIVERSITY, TRICHY

University College of Engineering, BIT Campus, Anna University, Tiruchirappalli is a technical university department of Anna University. The Vision of the Institute is to transform students into competent professional and responsible citizen by focusing on assimilation, analysis, synthesis and dissemination of knowledge to meet the societal needs. It offers higher education in Engineering, Technology, Management and allied sciences at undergraduate, postgraduate and doctorate level. The main campus is situated in the southern part of Tiruchirappalli and extends over 354 acres (1.43 km²).

ABOUT ELECTRONICS & ICT ACADEMY AT PDPM IIITDM JABALPUR

The Ministry of Electronics and Information Technology, Government of India, has instituted seven Electronics and ICT Academies with one academy at PDPM IIITDM Jabalpur. The primary objective of the Academy is to prepare manpower for two important missions - 'Digital India' and 'Make in India'. The Academy aims at scalable training programmes in niche areas of Electronics and ICT for the development of required knowledge base, skills, and tools to unleash the talent of the Indian population. In addition to the faculty development programmes on fundamental and advanced topics, the Academy conducts customized training programmes for the corporate sector and research promotion workshops in emerging areas. The Academy is envisioned to become a central hub of activities on training, research, consultancy work, and entrepreneurship programmes.

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 Ph.D programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Design and Ph.D 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.

TWO WEEKS ONLINE CERTIFICATE PROGRAMME ON

Data Science for All

How to apply:

for Registration Contact : Mrs. V.M.Priyadharshini: +91 - 9965834502
Mrs. R.Jayamala : +91 - 9790441769

Course Fee Details : Academic (Student/Faculty) : 500 INR
Industry People : 1000 INR
Others: 1000 INR

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A/C No. : 50302042708
IFSC Code : ALLA0212433
Branch Name: Mehgawan, IIITDM Branch
(Allahabad bank is merged with Indian Bank from April 1, 2020)

COURSE CONTENTS

Mathematical Foundations of Data Sciences: Matrices, Vectors, Vector Spaces, Matrix Decomposition, Singular Value Decomposition, Statistical Measures, Probability basics, density function, variance, conditional probability, Markov Chains.

Data Processing: Dimensionality Reduction, Principal Component Analysis.

Machine Learning basics: Regression, Classification – Decision Trees, Naïve Bayesian Classifier, Clustering, Handling Large Datasets: MapReduce.

R for Data Science: Data Wrangling, Data Visualization, Programming.

Python for Data Science: Normal Python, NumPy, Pandas, Matplotlib.

Deep Learning

Scikit, Keras and TensorFlow: Practice on ML topics.