

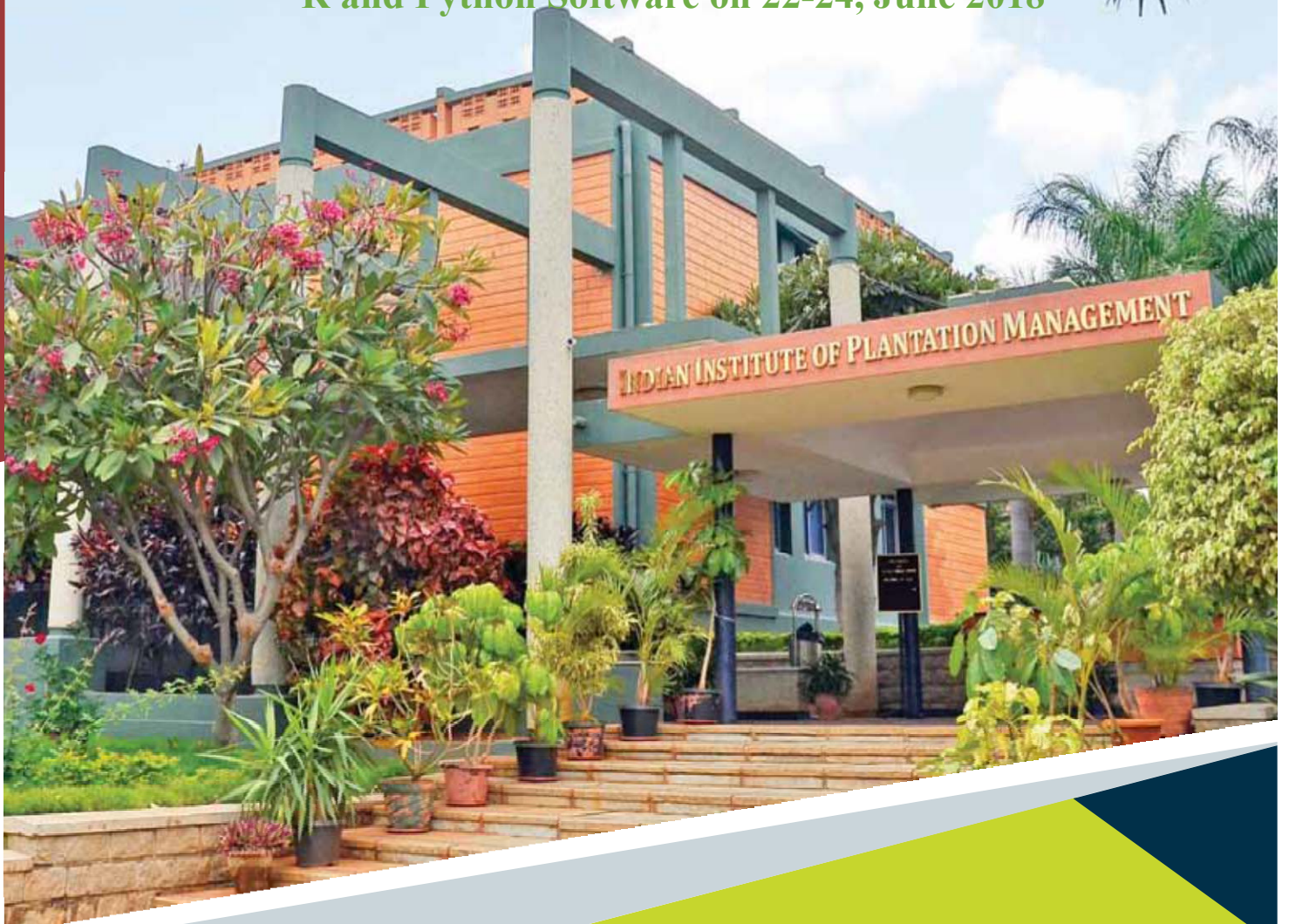


IIPM



भारतीय बागान प्रबन्ध संस्थान बेंगलुरु
INDIAN INSTITUTE OF PLANTATION MANAGEMENT BENGALURU
(An Autonomous Organization of the Ministry of Commerce & Industry, Government of India)

**Management Development Programme (MDP) on
Machine-Learning and Big-Data Analytics (M-B-A)
Using Hadoop, Spark, Gephi, Watson Analytics,
R and Python Software on 22-24, June 2018**



PROGRAMME OVERVIEW

“In God We Trust, All Others Must Bring Data by W Edwards Deming”

Artificial Intelligence, Machine/Deep Learning, Big Data Analytics are the buzzword of the 21st century and predicted to become the base of business competition and governance in the future as machines have access to ever more data and algorithms replace human decision-making so it has become increasingly important in both the academic and the business communities over the past decade. Industry studies have highlighted this significant development. For example, based on a survey of over 4,000 management professionals from 93 countries and 25 industries, the IBM Tech Trends Report identified analytics as one of the four major technology trends in management. In a survey of the state of analytics by Bloomberg Businessweek, 97 percent of companies with revenues exceeding \$100 million were found to use some form of analytics. A report by the McKinsey Global Institute predicted that by 2018, the United States alone will face a shortage of 140,000 to 190,000 people with deep analytical skills, as well as a shortfall of 1.5 million data-savvy managers with the know-how to analyze data to make effective decisions¹.

¹ Davenport, T. H., & Harris, J. G. (2007). *Competing on analytics: The new science of winning*. Harvard Business Press.

WHAT WILL YOU GAIN?

This MDP is designed to provide hands-on experience in M-B-A tools and techniques using real-time case studies that can be used for data-driven managerial decision-making.

Primary objectives of the MDP are:

- a. Analyse data using machine learning and big data techniques to understand and predict the relationships among variables
- b. Learn visual analytics, data storytelling and social network analysis
- c. Analyse and solve problems from different industries such as agriculture, manufacturing, retail, banking, healthcare, sports etc
- d. Hands on experience with leading open source software such as Hadoop, Spark, Gephi, R and Python software for analytics

TARGET AUDIENCE

- The program is aimed at middle-level executives/ management professionals/ business analysts. Who wants to learn machine learning and big data analytics skills?
- Graduates or young professionals, academician and researcher? Who want careers in machine learning and big data analytics?

PREREQUISITE: Knowledge of basic concepts of programming, computer science, and mathematics/statistics is desirable but not mandatory.

PROGRAM COVERAGE

Day 1: Machine Learning using R Console/Studio and Anaconda Python

Session	Topic	Case Study Data Set
I	Importance of Analytics-Digital World Perspective	-
II	Supervised-Machine Learning	Baseball
III	Unsupervised-Machine Learning	Recommendation Systems
IV	Reinforcement-Machine Learning	D2Hawkeye

Day 2: Social Network Analysis and Deep Learning using Gephi and Watson Analytics

Session	Topic	Case Study Data Set
I	Social Network Analysis using Gephi	Facebook/ Twitter
II	Exploration of Dashboard Creation-Watson Analytics	Police
III	Prediction using Watson Analytics	Households
IV	Deep Learning	Bank Loan

Day 3: Big Data Analytics using Hadoop, Spark, Pig and MapReduce

Session	Topic	Case Study Data Set
I	Installation Hadoop Ecosystem	-
II	Using Hadoop's Core: HDFS and MapReduce	Open Source Movie Rating Database
III	Programming Hadoop with Ambari/Pig	
IV	Analyzing Streams of Data in Spark	

PEDAGOGY

The pedagogy for the program will be a mix of theory lecture (10%), the introduction of case studies (5%) and hands-on training experience (65%) on relevant software and result discussions (20%) for managerial decision making.

DATE, TIMING AND VENUE

22-24, June 2018, 9 AM to 5.30 PM

Knowledge Resource Centre, Indian Institute of Plantation Management Jnana Bharathi Campus, P.O. Malathalli, Bengaluru-560 056.

COURSE HIGHLIGHTS

- Focus on hands-on experience and relies on several open-source software tools like Gephi, Apache Hadoop etc. All required software can be downloaded and installed free of charge.
- Real-time case study and data set
- Global benchmarked education material and industry relevant examples
- Higher Cost: Benefit
- Certificate of Participation from IIPM, Bangalore

IMPORTANT INSTRUCTIONS:

- a) Participants should bring their personal laptop and laptop accessories with following system configuration:
 - Hardware Requirements: I) Quad-Core Processor, 64-bit; II) 8 GB RAM; III) 20 GB disk free. Most computers with 8 GB RAM purchased in the last 3 years will meet the above minimum requirements.
 - Software Requirements: Windows 7+
- b) Seat limited to 20 participants on first-come first-served basis so transfer funds only after checking the availability of seats.
- c) Participants would have to make their own travel arrangements and stay. On prior request and an additional payment, accommodation may be arranged on first-come first-served basis subject to availability of rooms in the institute guest house and hostel.
- d) If a participant fails to attend the programme, no refund of fees will be made.

PROGRAMME FEE AND REGISTRATION PROCESS

Rs: 9000 per participant (Including 18 % GST)*

* The fee includes a soft copy of the Workshop Material, Certificate, Working Lunch and Refreshment.

Application form can be downloaded from Institute's website at www.iipmb.edu.in and send the programme fee by Demand Draft in favour of "Indian Institute of Plantation Management" payable at "Bengaluru" **OR**

Through e-transfer NEFT: Bank Name: United Bank of India Branch: IIPM Campus Branch, Bengaluru. A/C No.: 1586050000611 IFSC Code: UTBI0IPC856 (Fifth character "0" read as Zero) Swift Code: UTBIINBBECB MICR No.: 560027009.

LAST DATE

Filled in application forms should reach the Institute on or before June, 11th (Monday), 2018.

FOR ANY FURTHER CLARIFICATION OR INFORMATION PLEASE CONTACT

Mrs Rahamathunissa, MDP Office, Phone: 080 23212647, Email: mdp.iipmb@gmail.com.

Dr. C. Ganeshkumar, Faculty, Mobile: 09986485061, Email: cgk.iipmb@gmail.com.

PROGRAMME COORDINATOR AND RESOURCE PERSONS



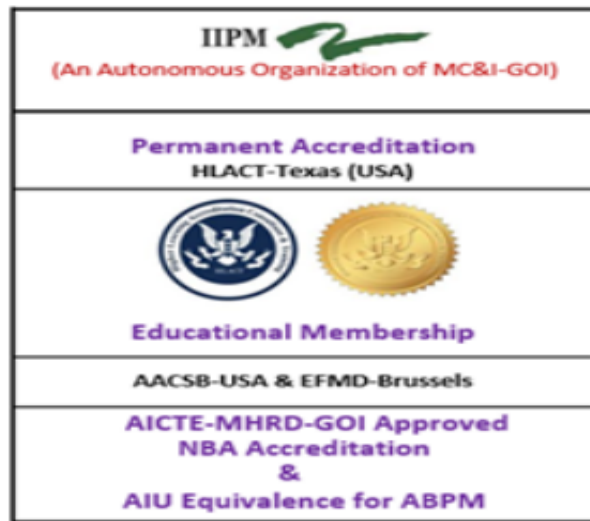
Dr C. Ganeshkumar is an Assistant Professor in the area of decision sciences and operations management in the Indian Institute of Plantation Management Bangalore (IIPMB). He has received his PhD and MBA from Pondicherry Central University, Qualified UGC-NET in Management,

He has 2 years of post-doctoral research experience in the funded projects from IFPRI-USA/ADB at Indian Institute of Management Bangalore (IIMB). Served as faculty at VIT University, Vellore. He has published 30 articles in National and International Journals, Presented 15 research papers in various conference and organized various data analytics workshops. His areas of research include Agri-food supply chain, Machine Learning and Big data analytics.

Resource Persons from SAP and Flipkart, Who has expertise in machine learning and big data analytics will also handle the sessions

ABOUT INSTITUTE

Indian Institute of Plantation Management (IIPM), a centre of excellence and the first of its kind National Institute, was established at the initiative of the Ministry of Commerce & Industry, Government of India. The Institute is co-promoted by the Commodity Boards of India, viz., Coffee Board, Rubber Board, Tea Board, Spices Board and Plantation Industry Associations. IIPM has been conceived as a world-renowned academic institution focusing in the field of the plantation and associated agribusiness and commodity management education. IIPM has an educational membership with The Association to Advance Collegiate Schools of business (AACSB-USA) & European Foundation for Management Development (EFMD- Brussels) and obtained permanent accreditation from Higher Learning Accreditation Commission of Texas (HLACT-USA). Website: <http://www.iipmb.edu.in/>



Indian Institute of Plantation Management Bangalore

(An Autonomous Organization of the Ministry of Commerce, Govt. of India)

Registration Form for Management Development Programme(MDP) on Machine-Learning and Big-Data Analytics (M-B-A)

Program Date: 22-24 June, 2018

Venue: IIPM, Bengaluru

1. Name: _____

2. Qualification: _____

3. Organization Name & Designation (if any): _____

4. Address for Communication: _____

E-Mail: _____ Mobile _____

4. Do you need accommodation (Yes or No): _____

5. Work experience: _____

6. Payment Detail: _____

Candidate's Signature

Filled in Applications Scan copy may be sent to: mdp.iipmb@gmail.com/cgk.iipmb@gmail.com

MDP Office

Indian Institute of Plantation
Management Jnana Bharathi Campus,
P.O. Malathalli Bengaluru 560 056
Ph: 080 23212647