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# 5 Day Online Faculty Development Program on Business Analytics and Data Science

15 - 19 March 2021



## Department of CSE & IT

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**MEA ENGINEERING COLLEGE**  
PERINTHALMANNA

VENGOOR - PATTIKKAD PO, PERINTHALMANNA, MALAPPURAM DISTRICT, KERALA - PIN 679325





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P E R I N T H A L M A N N A

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## About MEA Engineering College

MEA Engineering College, the first NAAC accredited self-financing engineering college in Malappuram district, is committed to provide excellent and value-based education with a flair for ethics and professionalism. The College is located amidst panoramic natural beauty over-looking the hills and valleys at Nellikunnu, near Perinthalmanna – a city of various educational institutions- on the Perinthalmanna- Melattur road. The College is easily accessible by road, rail and air. The College is governed by the MEA sponsored by the “Samastha Kerala Jammiyyathul Ulama”, a society instituted by topclass intellectuals of the Muslim community. Janab Panakkad Sayed Hyderali Shihab Thangal is its charismatic head. The institution is affiliated to the APJ Abdul Kalam Technological University and approved by the AICTE.

## About Department of Computer Science & Engineering and IT

The Department of Computer Science & Engineering and IT, MEA Engineering College were established in 2002 by the affiliation of University of Calicut. The Departments are now affiliated to APJ Abdul Kalam Technological University (APJAKTU). The Computer Science & Engineering department is accredited by NBA during the year 2020. The departments have developed to become a center of excellence providing in-depth technical knowledge and opportunities for innovation and research with dedicated faculties & well-equipped workstations. The curriculum in B.Tech. Computer Engineering lays emphasis on design and development of both hardware and software, in addition to software packages. Miniaturization in computer technology, audio-video and image processing, storage and retrieval of data from databases, compiler construction, operating systems design, computer graphics, computer architecture, microprocessors based design are also the important components of the curriculum. Presently, the laboratories in the department include Research Lab and Common Computing Labs. Lab is designed to accommodate a minimum of 30 students and maximum 60 students per session and has been equipped with state-of-the-art computer systems that total 180+ computers with necessary peripherals.



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## 5 Day Online Faculty Development Program on Business Analytics and Data Science

15 - 19 March 2021

### Chairperson

Dr Raji C.G.

Professor and Head

Department of Computer Science & Engineering and IT

rajicg@meaec.edu.in

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### Coordinators

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Professor & Head

Prof. Muhammad Shameem P.

Assistant Professor, Department of CSE

Mob: +91 9809029815

Prof. Deepa M

Assistant Professor, Department of IT

Mob: +91 9946052400

## Organizing Committee

### Chief Patron

Jb. Sayed Hydarali Shihab Thangal

President - MEA Engineering College

### Patrons

Jb. Sayed Sadique Ali Shihab Thangal

General Secretary - MEA Engineering College

Jb. M.C. Mayin Haji

Secretary - MEA Engineering College

Jb. P. Abdul Hameed Master (MLA)

Secretary - MEA Engineering College

Jb. Sayed Munavarali Shihab Thangal

Treasurer - MEA Engineering College

Jb. K.K. Abid Hussain Thangal (MLA)

Member of Management Committee

### Institutional Advisory Committee

Dr G. Ramesh

Principal - MEA Engineering College

Mr. C.K. Zubair

Administrative Manager - MEA Engineering College

Prof. Haneesh Babu K. T.

Vice Principal - MEA Engineering College

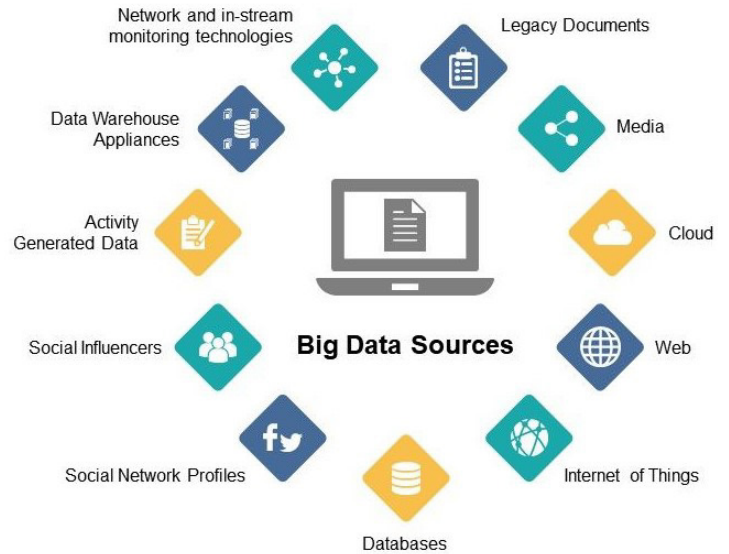
Prof. Sreeram S.

Dean (Academics) - MEA Engineering College

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## About the FDP in Business Analytics and Data Science (BADS)

To provide a better understanding of Data Science and Business analytics. Provide Hands on session using Python/Spark and Weka. To train the academicians and researchers on the aspect of data science and business analytics. To facilitate the knowledge about models and methodologies on data science. To make investigations on real world data science applications using python.



## FDP Contents

Introduction to Data Science & Data Analytics  
Regression Models  
Clustering Techniques  
Market Basket Analysis & Association Rule Mining  
Exploratory Data Analysis and Machine Learning Use case  
Data Analysis in Bioinformatics  
Supervised learning techniques and its applications  
Technology 4.0  
Data Analysis using "WEKA".  
Big Data Stream Mining  
Hands on session using Python/Spark.

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# Inauguration Session

Dr Rajasree M.S

Hon'ble Vice Chancellor

A.P.J Abdul Kalam Technological University,  
Thiruvananthapuram, Kerala

15

March  
2021

9.00 AM – 9.30 AM





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15  
March  
2021

Day 1

## BADS 001



Dr Vinod Chandra S.S  
Professor in Computer Science  
Kariavattom Campus,  
University of Kerala,  
Thiruvananthapuram

Introduction to Data Science & Data Analytics

09.30 AM – 12.30 PM

## BADS 002



Dr Salim A  
Professor and Head  
Department of CSE  
College of Engineering  
Thiruvananthapuram

Regression Models

01.15 PM – 04.15 PM

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16  
March  
2021

Day 2

## BADS 003



Dr Juby George  
Assistant Professor  
Department of Computer Applications  
Marian College  
Kuttikkanam

### Clustering Techniques

09.30 AM – 12.30 PM

## BADS 004



Dr Anand Hareendran  
Associate Professor & Head  
Department of Computer Science  
Muthoot Institute of Technology

### Market Basket Analysis & Association Rule Mining

01.15 PM – 04.15 PM

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17  
March  
2021

Day 3

## BADS 005



Dr Jay Prakash  
Assistant Professor  
National Institute of Technology  
Kozhikode

Exploratory Data Analysis and Machine Learning Use case

09.30 AM – 12.30 PM

## BADS 006



Dr Amjesh R  
Research Scientist  
Rajiv Gandhi Center for Biotechnology  
Thiruvananthapuram

Data Analysis in Bioinformatics

01.15 PM – 04.15 PM



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18  
March  
2021

Day 4

## BADS 007



Dr D Sreekanth  
Senior Knowledge Officer  
ICT Academy of Kerala  
Thiruvananthapuram

Supervised learning techniques and its applications

09.30 AM – 12.30 PM

## BADS 008



Dr. Sankaraiah Sreeramula  
Chief Data Scientist  
APP sinarmas  
Indonesia

Technology 4.0

01.15 PM – 04.15 PM

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## BADS 009



Dr Raji C.G

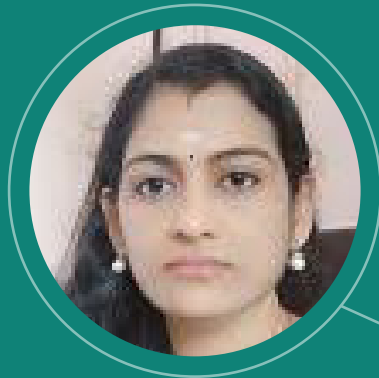
Professor and Head  
Department of CSE & IT  
MEA Engineering College  
Perinthalmanna

Data Analysis using "WEKA".

09.00 AM – 11.00 AM

19  
March  
2021

## BADS 010



Dr Judy M.V, Professor

Department of Computer Applications  
Cochin University of Science & Technology  
Cochin

Big Data Stream Mining

11. 15 AM – 01. 15 PM

## BADS 011

Hands on session using Python / Spark 01. 45 PM – 03. 45 PM

Day 5

## Who should attend

- The FDP is interdisciplinary and open to faculty members from colleges affiliated to APJ Abdul Kalam Technological University.

## Selection and Intimation

- Upon the receipt of registration form, the applicants will be selected based on first come first serve. Selected applicants will be intimated through E-mail on or before 12.03.2021.

## General Instructions

- No registration fee
- Number of participants limited to 70
- It is compulsory for the participants to attend all the online sessions and send feedback in order to receive certificate of participation.
- A scanned copy of the permission letter from the respective head of the institute should be obtained for registration.(Copy is included in the brochure)

Send scanned copy to [fpcse@meac.edu.in](mailto:fpcse@meac.edu.in)

## Register Online

on or before 10-03-2021

<http://bit.ly/3kpLy3k>

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Organized by Department of Computer Science & Engineering and IT  
Sponsored by APJ Abdul Kalam Technological University

## Registration Form

1. Name:
2. Gender:
3. Mobile No.
4. E-Mail:
5. Designation:
6. Department:
7. Organization/Institute:

### Declaration by the Applicant

If selected, I agree to abide by the rules and regulations of the FDP and shall attend all sessions.

Date:

Signature of the Applicant

Recommended and forwarded

Signature of the Head of the Institution

Office Seal

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