



FACULTY DEVELOPMENT PROGRAMME

on

"DATA SCIENCE - CLUSTERING ANALYSIS & PATTERN DISCOVERY"

Date : 6th - 8th December 2017

IMPORTANT DATES

Last date for receiving application : 01-12-2017
(By Email)
Intimation of selection : 02-12-2017

REGISTRATION

Registration fees : Rs. 750/-
Last Date of Registration : 04-12-2017

Confirmation of participants will be made after the registration. Selection is done in a first come first served basis.

The participants can submit the duly filled Registration form along with a demand draft drawn in favour of "TECHWAVES, S.A. ENGINEERING COLLEGE", payable at Chennai.

PREREQUISITE

Basic knowledge in DBMS, Data Mining & SQL.

ELIGIBILITY

Participants should be Faculty/Research scholar/Students in any University/Institution and from Industries.

For Further Details / Registration Contact

Dr. M. SUBRAMANIAM, Prof & Head, Dept. of IT
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CO ORDINATOR(S) :

Dr. AHMED MUDASSAR ALI

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Mobile : 9840452254

FOUNDER :

(Late) **Shri D. SUDHARSSANAM**

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RESOURCE PERSON :

Mr. SIVANANTHAM,
Senior BI Analyst,
GAVS Technologies, Chennai.
Mr. MANOJKUMAR RAJENDRAN,
Lead Associate in software development,
GAVS Technologies, Chennai.
Mr. KARTHICK,
Co Founder, Creative Director,
Excrin Think Labs, Chennai

All communications should be sent to :

The Convener
(FDP ON Data Science - Clustering Analysis & Pattern Discovery)
Department of Information Technology
S.A. ENGINEERING COLLEGE,
Poonamallee - Avadi Main Road,
Thiruverkadu, Chennai - 600 077
E-mail : drms@saec.ac.in

Convener :

Dr. M. SUBRAMANIAM, HOD/IT

Organized by

DEPARTMENT OF INFORMATION TECHNOLOGY



S.A. ENGINEERING COLLEGE

(Accredited by NBA, NAAC with 'A' Grade &
ISO 9001: 2008 Certified Institution)

Poonamallee - Avadi Main Road,
Thiruverkadu, Chennai - 600 077.

Phone : 044-2680 1999, 2680 1499 Extn. : 263

Fax : 044-2680 1899

E-mail : drms@saec.ac.in

Web : www.saec.ac.in

ABOUT THE INSTITUTION

S.A. Engineering College was established by the Dharma Naidu Educational & Charitable Trust in the year 1998-'99. The college is approved by AICTE Delhi and affiliated to Anna University, Chennai, Tamil Nadu. The college is well-planned with 4 lakhs sq.ft. of constructed area which includes classrooms, Drawing Halls, Laboratories, workshops and associated faculties. In recognition of quality system of high caliber being implemented in this college, TUV NORD has awarded ISO 9001:2008 Certification to the Institution & accredited by the National Board of Accreditation (NBA) and NAAC with 'A' Grade. All the under graduate programs offered are accredited by National Board of Accreditation (NBA), NEW DELHI. The college offers following 6 U.G programmes and 7 P.G programmes.

- B.E. - Civil Engineering
- B.E. - Computer Science and Engineering
- B.E. - Electrical and Electronics Engineering
- B.E. - Electronics and Communication Engineering
- B.E. - Mechanical Engineering
- B.Tech. - Information Technology
- M.E. - CAD/CAM
- M.E. - Communication Systems
- M.E. - Computer Science and Engineering
- M.E. - Embedded System Technologies
- M.E. - Power Electronics and Drives
- M.B.A. - Master of Business Administration
- M.C.A. - Master of Computer Applications

The college maintains high standard of education by providing a wide array of world class academic facilities, employing highly qualified and experienced faculty members and creating an ambience conducive of quality education.

LOCATION

The college is located on the highway from Poonamalle to Avadi High Road at a distance of about 1 Km from Poonamalle Bye Pass Road of the Chennai- Bangalore National Highway (NH4).

ABOUT THE DEPARTMENT

The Department of Information Technology has dedicated and specialized faculty members in different areas with rich experience in academics, industry and research.

The department has excellent class rooms equipped with modern audio-video aids, tutorial rooms, well equipped and spacious laboratories with the latest DELL R930 server sponsored by DST-FIST. The department has separate library and seminar hall with all latest equipments.

The department has 64 Mbps Leased Line(1:1) Internet connectivity

VISION OF THE DEPARTMENT

- To transform our department into a quality hub, by providing technology updated education with ethical values.

MISSION OF THE DEPARTMENT

- To develop our students, with comprehensive knowledge across the technological areas and to build their ability, to apply the technical theory, design and implementation for the given problems.
- To prepare our students, by facilitating a prominent environment for their learning's and applications of Information Technology, this will enable them to work in teams and to become successful in their careers.
- To motivate Scientific Research among students, that will help them in establishing technological innovations and management for the society.

OBJECTIVE AND DESCRIPTION

This 3 days faculty development programme aims to impart practical knowledge on *Data Science - Clustering Analysis & Pattern Discovery* is a main task of exploratory data mining, and a common technique for statistical data analysis, used in many fields, including machine learning, pattern recognition, image analysis, information retrieval, bioinformatics, data compression, and computer graphics.. We aim to bridge the gap between the demand and supply

HANDS ON TRAINING COURSE CONTENTS

- Introduction to Big Data & Analytics.**
- Applications of Cluster Analysis.**
- Clustering Methods.**
 - Overview of k-means and hierarchical clustering methods.
 - K-means clustering theory & example.
 - Hierarchical clustering theory & example.
 - How to choose the number of clusters & interpret clustering results.
 - Real-world cluster analysis walkthrough.
- Pattern recognition and discovery.**
 - Transactional datasets
 - A priori analysis
 - Support, confidence, and lift
 - Filtering rules generated
 - Plotting
 - Sequential datasets
 - Apriori sequence analysis
 - Understanding the results
 - Use cases for exercise

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REGISTRATION FORM

Name (in Block Letters) :

Designation :

Qualifications :

Institution / Organization :

Address:

Telephone / Mobile No. :

E-mail :

Signature of Applicant

SPONSORSHIP

Dr./Mr./Mrs. _____

_____ is a Employee of our college/institution and is hereby sponsored for the above FDP. He/She will be permitted to attend the programme, if selected.

Place :

Date :

Signature of the Authority