St. JOSEPH'S DEGREE COLLEGE
Sunkesula Road, Kurnool – 518 004 A.P.
(Affiliated to Rayalaseema University, Kurnool)

Teaching Enhancement Programme
on
Data Analytics

ACADEMIC YEAR- 2025-26

COURSE CO-ORDINATORS:

S.Latharani   P.Sai Srujana

CIRCULAR

01-07-2025

Kurnool

In this day and age Data analytics has an important place in shaping one's career due to its huge demand in the market. In view of this Computer department in collaboration with Statistics department have decided to conduct a fresher program to help and support the staff dealing with the subject. This will go a long way in ensuring proper awareness of the subject and equip the staff to teach it

S.Latha Rani

HOD, Computer Science Department

GIST

An Enhancement Programme on "Data Analytics" was conducted by Department of Computer Science with collaboration of Department of Statistics of St. Joseph's Degree College, Kurnool from 03-07- 2025 to 05-07-2025. The event aimed to learn about the Data Analytics for the enhancement of Mathematics faculty with the collaboration of statistics faculty.

Data analytics is a broad term that encompasses many diverse types of data analysis. Any type of information can be subjected to data analytics techniques to get insight that can be used to improve things. Data analytics techniques can reveal trends and metrics that would otherwise be lost in the mass of information. This information can then be used to optimize processes to increase the overall efficiency of a business or system.

Data analytics is important because it helps businesses optimize their performances. Implementing it into the business model means companies can help reduce costs by identifying more efficient ways of doing business.

In view of its vast scope our department has come up with organizing an enhancement Program to keep the staff trained in this subject to meet the forthcoming challenges.

OBJECTIVE:
1. The primary objective of the enhancement program was to train the faculty of Mathematics in the field of Data Science and Data Analytics.
2. Data analytics is important because it helps businesses optimize their performances. Implementing it into the business model means companies can help reduce costs by identifying more efficient ways of doing business.

OUTCOME:
1. The Enhancement programme held at St. Joseph's Degree College, Kurnool proved to be a resounding success.
2. The event achieved its objectives of learning Data analytics with the collaboration of Statistics Department and developed a keen interest in learning the subject.
3. By encouraging the staff to ask questions and share their experiences, the program fostered a positive and inclusive learning environment.

SYLLABUS

RESOURCE PERSON NAME	DAY & TOPIC
Mr.A.Viswanatha Rao	**Day 1:** Introduction: Overview, Data Science, Big Data Characteristics, Architecture – Core Layers, service layers; roles in data science team, life cycle of data centric projects, big data life cycle. Introduction to Machine Learning Algorithms like Regressions, Classification and Clustering algorithms
Mr.K.Raveendra	**Day 2:** Pre-processing: Introduction, Measures of Central tendency-Mean, Median, Mode, sampling distributions, inferential statistics, ANOVA, feature selection-PCA.
Mr.K.Raveendra	**Day 3:** Methods: Association rules, Apriori algorithm, overview of clustering, k- means algorithm, Regression- Linear, Logistic, Support Vector Machines, Classification-Decision Tree classification, Attribute selection, Naïve Bayes Classification

GALLERY

ATTENDANCE

Teaching Enhancement Program on Data Analytics from 03-July-2025 to 05-July-2025

Organized by Department of Computer Science and Department of Statistics in collaboration with Department of Mathematics

St.Joseph's Degree College, Sunkesula Road, Kurnool

S.No.	Name of the Faculty	Email	Mobile No	Signature with Date		
				03-07-2025	04-07-2025	05-07-2025
1	Dr. T. Mohan Reddy	mohanreddy.t2015@smister	9492718048	nacy	nacy	nay.
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