Karnataka Science and Technology Academy (KSTA)

Department of Science and Technology, Government of Karnataka

In association with

Indian Statistical Institute, Bengaluru

Organizes
Five Day Faculty Development Program (FDP)
on
Data Analysis Using R Programming

21-25 April 2025 (Monday-Friday)

ABOUT KARNATAKA SCIENCE & TECHNOLOGY ACADEMY (KSTA):

Karnataka Science and Technology Academy (KSTA), an autonomous organization under the Department of Science and Technology, Govt. of Karnataka was established in the year 2005 under the Chairmanship of Padma Vibhushan Awardee Prof. U. R. Rao, Former Chairman, ISRO/Secretary, DOS, Govt. of India with an objective of fostering STEAM (Science, Technology, Agriculture, Engineering and Mathematics) education at different levels in an educational pyramid as well as to popularize science among the general public in the State.

KSTA was conferred the prestigious "National Award for Outstanding Efforts in Science and Technology Communication in the year 2022", by the National Council for Science and Technology Communication (NCSTC), Department of Science and Technology, Government of India.

OBJECTIVES OF THE PROGRAM:

The program aimed to equip faculty members with the latest skills in Data Science, emphasizing the use of R programming for data analysis, machine learning, and deep learning. The FDP sought to bridge the gap between academic learning and practical applications in data science.

MAJOR COURSE CONTENTS:

- **Day 1:**
  Introduction to R Programming (Basics of R, including data types, operators, and data manipulation techniques).
- **Day 2:**
  Data Visualization and Descriptive Statistics (ggplot2 and Plots for creating impactful visualizations and understanding statistical methods for data analysis)
- **Day 3:**
  Machine Learning Techniques in R (Supervised and Unsupervised learning techniques, covering algorithms such as SVM, Random Forest, and PCA, along with model evaluation metrics)
- **Day 4:**
  Deep Learning with TensorFlow and Keras in R (Building neural networks and advanced topics such as CNN for tasks like image classification).
- **Day 5:**
  Advanced Topics and Assessment (XG-Boost, ensemble models, and time series analysis). The program will be concluded with a quiz to evaluate participants' learning

RESOURCE PERSONS:

Academicians in the concerned fields from IIITB / IISc/ ISI are invited to deliver lectures in the programme. Speakers from industries are will be invited.

HOW TO APPLY:

Interested candidates can apply online by clicking below link:

https://forms.gle/o8Mavb1LfTzLsLKv5

Participants details need to be filled and payment details uploaded by using above link in Google Forms on or before 18 April 2025.

WHO SHOULD ATTEND?

The Programme is open to all Faculty / Research Scholars / Industry Professionals / MCA / MBA / Degree and other eligible Research Scholars / Faculties can register the course.

REGISTRATION FEE:

- ◆ Faculty: Rs. 2,500/- (Two Thousand Five hundred only).
- ◆ Students & Research Scholars: Rs. 2000/- (Two Thousand only)
- ◆ Industry Professionals: Rs. 3000/- (Three Thousand only)

(Accommodation Fee: Rs. 250/- per day per person)

- ◆ Confirmation mails will be sent two days before the Programme.

CONVENER:
Dr. A.M. Ramesh, CEO, KSTA

CO-ORDINATOR:
Shri V.K. Srinivasu, Scientific Officer, KSTA

Contact Info:

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KSTA ACCOUNT

Location: https://goo.gl/maps/SRRJhnmq1pDvog799