



APJ Abdul Kalam Technological University
Sponsored Five Day FDP

on

"DATA SCIENCE AND ITS ENGINEERING APPLICATIONS"

FDP Date: 30/01/2023 - 03/02/2023



EDUCATION IS DEDICATION

SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY
NAAC Accredited College with NBA Accredited Programmes*

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University, Accredited by Institution of Engineers (India), ISO 9001:2015 Certified

Organised by,
Department of Computer Science and Engineering



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About Sahrdaya

Sahrdaya College of Engineering and Technology established in the year 2002, is affiliated to Kerala Technological University and is approved by AICTE, New Delhi and by Govt. Of Kerala. The aim of the organisation is to impart a career focused professional training and mould the professionals in synchronization with the dynamic business requirements with moral and ethical values. The institution offers a stage for UG, PG and Ph.D programs and furthermore gives model learning conditions that supports quality research and innovations. Situated amidst severe green ambiance, Sahrdaya celebrates the radiance of pristine nature. The students from the college have proved themselves at several national, International Competitions and got placed in reputed companies worldwide.



About The Department

The department of Computer Science and Engineering started in the year 2002 with a desire to impart contemporary knowledge in the field of Computer Science and Engineering. The department offers UG, PG and Ph.D programs. The department UG programs accredited by NBA in the year 2022. To evolve as a nationally recognized center in quality education and research, the department has been framed with the essential target of giving world-class training in the field of computer science & Engineering. The department has been offering excellent infrastructural facilities with a variety of computing platforms to aspiring professional students for fulfilling the requirements of IT industry. The department encourages innovative ideas and methodologies to establish itself as the global learning center.

Vision

To be a nationally recognized center for quality education and research in diverse areas of computer science engineering, with a strong social commitment.

Mission

- Impart relevant technical knowledge, skills and attributes along with values and ethics.
- Enhance creativity and quality in research through project based learning environment.
- Mould Computer Science Engineering Professionals in synchronization with the dynamic industry requirements.
- Inculcate essential leadership qualities coupled with commitment to the society.

About The FDP

The APJ Abdul Kalam Technological University Sponsored Offline FDP emphasizes various aspects of teaching effectiveness to be explored within the changing dynamics of the educational environment. The focus of The FDP titled “Data Science and its Engineering Applications” is a professional development program designed to provide academicians with an in-depth understanding of the theory and practice of data science. The program will cover various aspects of data science, including data management, statistical modeling, machine learning, and data visualization. Through a combination of lectures, hands-on workshops, and interactive discussions, participants will learn how to apply data science techniques to solve real-world problems in engineering and other fields.

The program will be useful for academicians in a number of ways. First, it will help them develop the skills and knowledge necessary to teach data science courses at the undergraduate and graduate levels. Second, it will allow them to stay current with the latest advancements and trends in data science, which will help them conduct cutting-edge research. Third, it will provide them with an opportunity to network with other academicians and practitioners from a wide range of disciplines, which will help them broaden their perspectives and identify new areas of collaboration. Overall, this FDP program is an excellent opportunity for academicians to gain a deeper understanding of the field of data science and how it can be used to solve real-world problems, help to stay current with the latest advancements, and expand their professional network.

FDP Key Points

- Introduction to Data Science and Machine Learning
- Python Environment, Setup, and Essentials
- Exploratory Data Analysis
- Data Pre-processing
- Mathematical and Scientific Computing with Python
- Neural Networks
- Probability and Statistics for Data Science
- Random Variables and Distributions
- Supervised, Unsupervised, and Semi-Supervised Learning
- Regression Techniques and Implementations using R
- Data Visualization Techniques using R
- Nearest Neighbor Based Classifiers
- Bayesian Learning
- Introduction to python for deep learning
- Deep learning for computer vision: industry implementation
- Deep learning for Natural Language processing:industry implementation
- Applied Machine Learning using Open-Source Tools
- Decision Trees and Evaluation Parameters for Classifiers
- Recommender Systems
- Advanced Recommender Systems
- Case Studies on Data Science and Machine Learning

Resource Persons



Dr Manish T I

SCMS School of Engineering
and Technology, Kerala, India



Dr. Bipin P. R.

Adishankara Institute of Engineering
and Technology, Kalady



Dr. S Suresh

University of Madras,
Chennai – 600 005. India



Dr. Harikrishnan P M

Artivatic Data Labs,
Bangalore, Karnataka.



Dr. Manishankar

Sahrdaya College of
Engineering and Technology,
Thrissur, Kerala



Dr. R. Satheesh Kumar

Sahrdaya College of
Engineering and Technology,
Thrissur, Kerala



Dr. R. Sunder

Sahrdaya College of
Engineering and Technology,
Thrissur, Kerala

Who Can Participate?

Faculty Members and Research Scholars belonging to KTU approved Technical Institutions.

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Last Date for Registration : 25/01/2023

Intimation of Selection : 27/01/2023

Registration Fee : NIL

Registration Link : <https://forms.gle/s9j58nPfNS5XML478>

Maximum Participation limits to 30
Certificates will be issued on successful completion

Organizing Committee

Chief Patron

His Excellency Mar Pauly Kannookadan
Chairman, SCET

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Dr. R. Satheesh Kumar
Professor, CSE, SCET

Coordinator

Dr. R. Sunder
Associate Professor, CSE, SCET

Contact

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APJ Abdul Kalam Technological University
Sponsored FDP on
Data Science and its Engineering Applications

Name _____
KTU ID _____
Designation _____



Sahrdaya College of Engineering and Technology
Department Of Computer Science And Engineering
30/01/2023 – 03/02/2023

Department _____
Institution _____
Date _____

Declaration

I, hereby declare that the details furnished above are true to the best of my knowledge and believe and agree to abide by the rules and regulations governing the conduct of KTU sponsored programmes.

Name and Signature of the Applicant

Sponsorship Certificate

Certified that Dr./Mr./Ms. _____ is working as _____
in _____ Department. If selected, he/she will be permitted to attend KTU
sponsored FDP titled " Data Science and its Engineering Applications" during 30th January to 03rd February 2023.

Place:

Date:

Recommended by,



(Scan the QR Code for
Registration)

Head of the Department/Institution
(Office Seal)