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Dr.SHAHU CHATRAPATI
Professor, CSE Dept., JNTU Hyderabad

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ATAL

AICTE Training And Learning (ATAL) Academy
Sponsored
A Two Week Faculty Development Program
on

REAL TIME APPLICATIONS OF DATA SCIENCE AND DATA ANALYTICS IN INDUSTRIAL IOT

Offline
17 – 30 September, 2024

— Organized by —

Department of Information Technology

SESHADRI RAO GUDLAVALLERU ENGINEERINGCOLLEGE
(An Autonomous Institute with Permanent Affiliation to JNTUK,Kakinada)
Seshadri Rao Knowledge Village Gudlavalleru-521 356, Krishna Dist. A.P.
(Approved by AICTE, New Delhi, Accredited by NBA, NAAC)
Ph: 08674-273737, 273888
www.gecgudlavalleru.ac.in

About the Institute:

Seshadri Rao Gudlavalleru Engineering College is promoted by AANM & VVRSR Educational Society, Gudlavalleru and was established in 1998. The college is situated in Gudlavalleru, surrounded by lush green fields, providing serene atmosphere to learners. The college offers B.Tech. programmes in eight branches of Engineeringviz,Civil,Electrical&Electronics,Mechanical,Electronics & Communication, Computer Science, Information Technology, Artificial Intelligence & Data Science, Internet of Things and CSE (Artificial Intelligence and Machine Learning) with a total intake of 1320. It also offers five PG programmes in Engineering (M.Tech.) and Business Management (MBA). The college is permanently affiliated to JNTUK, Kakinada and obtained the Autonomous status from U.G.C. in the year 2014 and the status extended till 2025. All the eligible branches of engineering are accredited by NBA, New Delhi. The Institution is continuously striving for excellence by adopting changes to improve the systems, practices and performance levels.

About the department:

The Department of Information Technology is established in the year 1999 and the present intake of the department is 240 in UG. The Departments was accredited by NBA under Tier-I in the year 2019. Besides the teaching learning process, both the departments regularly conducts workshops, guest lectures, group discussions and refresher courses to enhance the skills of students and teaching community. The departments are continuously striving to impart quality education and competitive spirit to students for academic excellence. The continual University ranks, high GATE scores and placement of students in various software organizations in and around the country reflect the performance of the department.

TOPICS TO BE COVERED

- Data Sciences
- Hands on session on Data Science using Python
- Internet of Things
- Hands on session on Internet of Things
- Industrial IOT
- Practice session on Industrial IOT
- Applications of Data Sciences in IIOT
- Hands on session on Data Sciences in IIOT
- Big Data
- Data Analytics
- Practice Session on Data Analytics using Python
- Machine Learning
- Hands on session on Machine Learning using Python
- Data Visualization
- Cyber Physical Systems
- Safety and security

Who can Apply?

Professors/Associate Professors/senior Assistant Professors from AICTE Approved Institutions /professionals from industry/ Research Scholars, who have exposure to the Data Science/ Data Analytics

How to Apply?

There is no registration fee.
All participants are requested to register using the link of AICTE ATAL portal:
https://atalacademy.aicte-india.org/signup
Find this FDP under FDP's List. The following filters may be applied.
Selected state > Andhra Pradesh
Selected month > September (17 - 29)
Selected thrust area > Engineering
Selected FDP Type > Technical

e-Certificate

e-certificates shall be issued to those participants who gain at least 70% cumulative weightage in all the aspects mentioned in ATAL Scheme Document.

About ATAL Academy

1. The vision of the ATAL academy is to empower the faculty to achieve goals of higher education such as access, equity, quality
2. The academy supports technical institutions in fostering research, innovation, and entrepreneurship through training
3. ATAL academy provides a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning communities, peer monitoring and other faculty development programs
4. ATAL academy stress upon empowering technical teachers and technicians using information and communication technology

Objectives of the FDP

1) To introducethe research challenges and opportunities present in Data Sciences and Data Analytics for Industrial IOT.
2) To explore the applications of Data Sciences and Data analytics for Predictive industrial Management.
3) To familiarize with the technical concepts associated with Industrial IOT.
4) To identify the scope for improvement of smart manufacturing using Data Sciences and Data Analytics.
5) To discuss the challenges related to maintaining industrial safety and security and their solutions.
6) To explore how to understand research articles and the key contributions present in the article.
7) To make the participants learn how to write research article from their research contributions.

Outcomes of the FDP

1) Apply the key concepts learnt through the program in their research and academics.
2) Solve industrial problems using the algorithms and concepts of Data sciences and Machine Learning.
3) Write research articles by conducting research to find solutions for challenges of the Industry.
4) Reduce gap between academia and industry by acquiring knowledge on real time problems, challenges faced by the industry which they visit during the FDP.
5) Guide PG students to solve the industrial problems as their mini projects or main projects.
6) Provide practical knowledge to students on Data sciences and Data Analytics along with theoretical concepts for the better understanding.