

Resource Persons:

Eminent Professors and Experts in the area of Data Science from Industry and Esteemed Institutions.

Eligibility:

- Faculty Members of AICTE Approved Institutions
- Research Scholars
- Persons working in R&D Organizations
- Industry Persons & PG Students

Registration and Fee Particulars:

- No Registration Fee
- Selection as per AICTE ATAL guidelines & first-cum-first-serve basis. Participants are limited to 200.
- Registration for the Program may be done by signing up in the ATAL Portal.
<https://atalacademy.aicte-india.org/>
- After clicking on the link, it will ask you for signup. Fill your details and submit the form.
- If you are having account previously, please use those credentials to login in the above link.
- Click on “Workshops” Option at Left Side Pane and Select the “Month” as “December”.
- Then Pick the FDP on “Data Science & Its Applications” dated from 06th – 10th December 2021.

Important Dates:

Last Date for Registration: 02/12/2021

Certificate Criteria:

- A test will be conducted at the end of the program.
- Minimum Attendance needed: 80%
- Exam Score: Minimum 60% marks in the test

Contact:

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COMMITTEE MEMBERS

Chief Patrons:

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- 2) Sri L. Jaya Prakash Reddy, Co-Chairman
- 3) Sri L.R.N.K. Prasad Reddy, Vice-Chairman

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- 4) Dr. M. Srinivasa Rao, Dean Academics

Convener:

Dr. D. Veeraiah, Professor & HoD, CSE

Coordinator:

Dr. O. Rama Devi, Professor, Dept. of CSE, LBRCE

Co-ordinators:

- 1) Dr. P. Bhagath, Dept. of CSE, LBRCE
- 2) Mr. L.V. Krishna Rao, Dept. of CSE, LBRCE
- 3) Mr. S. Srinivasa Reddy, Dept. of CSE, LBRCE

Advisory Committee:

- 1) Dr. P. Sreenivasa Kumar, IIT Madras
- 2) Dr. G. Ramamohan Reddy, NITK Surathkal
- 3) Dr. L. Sumalatha, JNTUK Kakinada
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- 5) Dr. D. Vasumathi, JNTUH Hyderabad
- 6) Dr. A.S.N. Chakravarthy, UCEV, JNTU Vizianagaram
- 7) Dr. M.H.M. Krishna Prasad, JNTUK Kakinada
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- 13) Dr. K. Naga Prasanthi, Dept. of CSE, LBRCE
- 14) Dr. M. Sitha Ram, Dept. of CSE, LBRCE
- 15) Dr. S. Jayaprada, Dept. of CSE, LBRCE
- 16) Dr. B. Manaswini, Dept. of CSE, LBRCE

Organizing Committee:

All the Faculty Members of Department of CSE



AICTE Training & Learning (ATAL) Academy
Sponsored
FACULTY DEVELOPMENT PROGRAM
on
Data Science and its Applications
(06th – 10th December 2021)



Organized by:
Department of Computer Science & Engineering
(Accredited by NBA under Tier - I)

 NATIONAL
INSTITUTIONAL
RANKING
FRAMEWORK
(Rank Band: 201-250
India Rankings 2020)

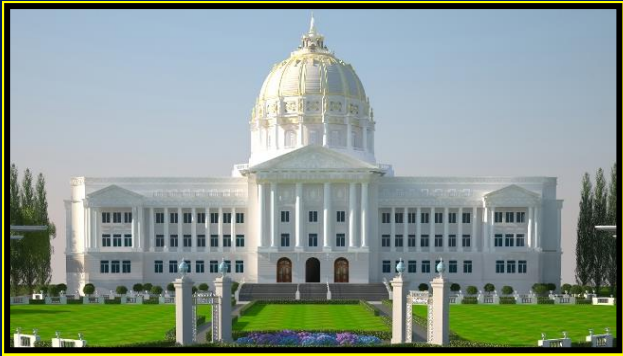

(Under Tier-I)



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (A)
Accredited by NAAC & NBA (CSE, IT, ECE, EEE, MECH)

ISO 9001:2015 Certified Institution

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B. REDDY NAGAR, MYLAVARAM, KRISHNA DIST., A.P.-521 230.



LBRCE was founded through Lakireddy Bali Reddy charitable trust in 1998 which stands for quality technical education which is exemplified by the continuous strides it has taken towards excellence in the last two decades. Started with an intake of 180 and now our intake is of 1164 Students. It has got Autonomous Status in the Year 2010 from UGC, which is extended for a period of 06 years in 2016. We were accredited with NAAC and NBA (CSE, IT, ECE, EEE & MECH) under Tier-I valid up to 2021-22. The College has also been awarded 2(f) and 12(B) statuses, apart from the recognition as a 'College with Potential for Excellence (CPE)' from the UGC. We take pride to have large pool of well-qualified and experienced faculty.

About the Department:

The Department of Computer Science and Engineering at the LBRCE was established in 1998, offers UG Course - B. Tech in CSE, CSE (AI&ML), and PG Course - M. Tech in CSE. The B. Tech (CSE) program was started in the year 1998 with an intake of 40 students and the intake was subsequently increased to 60 students in the year 1999, 90 students in the year 2008, 120 students in the year 2009 and 180 students in the year 2019. The B. Tech CSE (AI&ML) program was started in the year 2021 with an intake of 60 students. Department was accredited by NBA in the year 2008 for the period of three years and in the year 2019 under Tier-I, valid up to A.Y: 2021-22. The department is also recognized as Research Centre by JNTUK, Kakinada. At Present, Department consists of 45 Well-Qualified Faculty with 12 Doctorates from reputed institutions like IIT, NIT, & State Universities.

Key Takeaways:

- General Introduction to AI With Hands on Regression and Classification problems.
- Introduction to Deep Learning with hands on EfficientDet Object detector.
- Introduction to transformer-based modelling for text analytics with hands-on on item tagging use case.
- A comprehensive knowledge on Neural Networks for graph.
- Exposure on open-source libraries for Graph Neural Networks.

Topics to be covered:

1. Applications of data science in NLP (Natural Language Processing)

- Introduction to Text analytics.
- Application of transformer-based models for text analytics.
- Hands-on exercises.

2. Tools and techniques to understand Computer Vision algorithms

- Introduction to AI.
- Deep learning and its applications.
- Hands-on Exercises.

3. Graph Neural Networks and its applications in data analytics

- Introduction.
- Graph Neural Networks and its applications. Introduction to Python libraries used for GNN.
- State of the art models with small graphs used for various applications.

4. Medical Data Analytics

- Data processing methods for Electronic Health Records (EHRs).
- Potential methods to enhance the efficiency and effectiveness health care eco-system.
- Algorithms and tools to process clinical data.
- Hand-on Exercises

About ATAL Academy:

- The vision of the ATAL Academy is to empower the faculty to achieve goals of Higher Education such as access, equity, and quality.
- The academy supports technical institutions in fostering research, innovation and entrepreneurship through training.
- ATAL Academy provide a variety of opportunities for training and exchange of experiences such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.
- ATAL Academy stress upon empowering technical teachers and technicians using Information & Communication Technology.

About the FDP:

Data science is a multi-disciplinary area that uses scientific methods, algorithms, and systems to extract hidden knowledge and insights from data. Mining large amounts of structured and unstructured data to identify patterns can help an organization in many ways. Data Science is confluence of mathematics, statistics, and computer science disciplines, and incorporates techniques like machine learning, cluster analysis, data mining and visualization. The five days, 30-hour FDP program is devoted to offer a wide overview in the context of data science. The curriculum of FDP is designed to cover both theoretical and practical knowledge that will help diverse groups including Academicians, Industry professions, researchers, etc.

Objectives of the FDP:

- To disseminate the knowledge of data science among students, researchers, and academicians.
- To provide conceptual understanding of how data science can be used to innovate and improve business processes.
- The create awareness and interest in this technology among students, and researchers.
- Train manpower in the field of data science to fulfil the growing necessity of various organizations.
- To focus on providing the researchers and students insight of overall components of data science.