CTE, Gandhinagar Approved Two Week Short Term Training Program on

Data Analytics & Applications

19 February – 01 March 2024

Organized By:

National Institute of Technical Teachers Training and Research, Bhopal &
Computer Engineering Department, L. D. College of Engineering, Ahmedabad

About

L.D. College of Engineering, *one of the oldest in the western region, has completed 75 years in June 2022 which attracts highest meritorious students. Our institute witnesses a tide of innovative ideas, many of them granted patents and high-end research publications. It has been ranked "Third" under the category "Colleges/Institutes (Govt. & Govt. Aided) (Technical)" in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2021, by the Ministry of Education, Government of India. L. D. College of Engineering, Ahmedabad is AICTE approved premier government engineering college with 7 NBA accredited programs in Gujarat. The institute is affiliated to GTU and administered by Department of Technical education, Gujarat State.*

Computer Engineering Department, *Works with the vision of achieving excellence for providing value based education in Computer Engineering through innovation, teamwork and ethical practices. Computer engineering at the L. D. college of engineering runs majorly three degree programs; the Bachelor of Engineering in Computer Engineering, a newly introduced Bachelor of Engineering in Artificial Intelligence and Machine Learning, and master's in Computer Engineering along with newly introduced honors degree program in "Minor degree in Artificial Intelligence and Machine Learning" which comprises 200 aspirants each year. The NBA accredited department is distinguished by a team of passionate academic staff with a wide range of research interests.*

About

NITTTR, Bhopal - Extension Center, Ahmedabad, *was established in 1974 and for last forty five years it is catering for the needs of the Gujarat State. It helps the Gujarat technology University, Directorate of Technical Education State of Gujarat and other self financed universities and institutes in improving quality of engineering and technical education by working as link between these organisation and NITTTR Bhopal. Regional center has facilitated many reforms in curriculum development, teaching methods and students assessment. About 30 training programs (of one and two weeks duration) are organised in the area of emerging technologies and different aspect of pedagogy at this centre every year for the faculty of Engineering Colleges and Polytechnics of Gujarat state*

Short Term Training Program (STTP):
This STTP aims to empower researchers & educators with the knowledge and skills needed to incorporate data-driven insights into their research & teaching methodologies.

This program covers essential topics such as

- *Data Analytics & Visualization Tools*
- *Data Cleaning & Preprocessing Techniques*
- *Exploratory Data Analysis*
- *Hadoop & Spark*
- *Big Data Processing with Kafka*

Tentative Schedule Week 1

Date/Time	10:30 am - 12:00 pm	12:00 pm - 1:30 pm	2:30 pm - 4:00 pm	4:15 pm - 5:45 pm
19/2/2024	Inauguration Session	Data Analytics: Introduction & Challenges Dr. Rajyalakshmi Jaiswal	Data Cleaning and Preprocessing Techniques Dr. Vibha Patel	Hands-on Session: Data Cleaning Prof. Rashmi Bhattad
20/2/2024	Popular Data Analytics Tools Mr. Harshal Trivedi	Hands-on Session: Data Analytics and Visualization Mr. Harshal Trivedi	Handling Missing Data Prof. Rashmi Bhattad	Privacy in Data Processing Dr. Nikunj Domadia
21/2/2024	Exploratory Data Analysis (EDA) Dr. Hiteishi Diwanaji	Hands-on Session: Exploratory Data Analysis (EDA) Dr. Hiteishi Diwanaji	Anomaly Detection and Outlier Analysis Dr. Mehul Raval	NITTTR session (Start-ups and Incubation) Dr. Manish Thakkar
22/2/2024	NITTTR Session (Innovation and Creativity) Dr. Chirag S. Thaker	Transformative Impact of Generative AI on Modern Education Dr. Shailesh Panchal	Machine Learning - Unsupervised Algorithms Dr. Ajay N. Upadhyaya	Hands-on Session: Unsupervised Algorithms Dr. Ajay N. Upadhyaya
23/2/2024	Feature Engineering Techniques Dr. Kuntesh Jani	Hands-on Session: Feature Engineering Techniques Dr. Kuntesh Jani	Data Analytics Applications in Finance Dr. Chirag Patel	Data Analytics Applications in Healthcare Dr. Jyoti Pareek

Tentative Schedule Week 2

Date/Time	10:30 am - 12:00 pm	12:00 pm - 1:30 pm	2:30 pm - 4:00 pm	4:15 pm - 5:45 pm
26/2/2024	Deep Learning for Data Analytics Prof. Maitrik Shah	Hands-on Session: Deep Learning Prof. Maitrik Shah	Text Data Preprocessing and Analysis Dr. Hardik Joshi	Hands-on Session: Text Data Preprocessing and Analysis Dr. Hardik Joshi
27/2/2024	Introduction to Big Data Analytics with Hadoop Dr. Hetal Joshiara	Hands-on Session: Hadoop Dr. Hetal Joshiara	Recommender Systems Dr. Chirag S. Thaker	NITTTR Session (Entrepreneurship) Dr. Chirag S. Thaker
28/2/2024	Real Time DA with Kafka Mr. Harshal Trivedi	Hands-on Session: Real Time DA with Kafka Mr. Harshal Trivedi	Exploring Power BI for Business Intelligence & Data Visualisation Dr. Madhumita Tripathy	NITTTR Session (NEP Implementation) Dr. Chirag S. Thaker
29/2/2024	Introduction to Big Data Analytics with Spark Dr. Jai Prakash Verma	Hands-on Session: Spark Dr. Jai Prakash Verma	Data Analytics in Cyber Security Dr. Sharada Valiveti	Hands-on Session: Data Analytics in Cyber Security Dr. Sharada Valiveti
01/3/2024	Cloud Based Data Analytics Mr. Rajiv Mehta	Hands-on Session: Cloud Based Data Analytics Dr. Shubhi Shukla	NoSQL Databases Mr. Darsh Patel	Valedictory Session

Eminent Speakers

- Dr. Jyoti Pareek, Professor, Gujarat University
- Dr. Shailesh Panchal, Professor, GTU-GSET
- Dr. Mehul Raval, Professor, Ahmedabad University
- Dr. Vibha Patel, Professor, VGEC
- Dr. Manish Thakkar, Professor, LDCE
- Dr. Chirag Thaker, Professor, LDCE
- Dr. Hiteishi Diwanaji, Professor, LDCE
- Dr. Chirag Patel, Professor, LEC, Morbi
- Mr. Harshal Trivedi, Founder & CEO, Softvan Pvt. Ltd.
- Mr. Rajiv Mehta, Machine Learning Specialist, Bacancy Technology
- Dr. Sharada Valiveti, Sr. Associate Professor, Nirma University
- Dr. Hardik Joshi, Associate Professor, Gujarat University
- Dr. Jai Prakash Verma, Associate Professor, Nirma University
- Dr. Ajay N Upadhyay, Associate Professor, SAL Education
- Dr. Madhumita Tripathy, ML Engineer, Samyak Infotech Pvt. Ltd.
- Dr. Rajyalakshmi Jaiswal, Assistant Professor, LDCE
- Dr. Hetal Joshiara, Assistant Professor, LDCE
- Dr. Kuntesh Jani, Assistant Professor, LDCE
- Dr. Shubhii Shukla. Assistant Professor, IIMT group of Colleges, Delhi
- Prof. Rashmi Bhattad, Assistant Professor, MMCOE
- Mr. Darsh Patel, Software Engineer, Samyak Infotech Pvt. Ltd.
- Prof. Maitrik Shah, Assistant Professor, LDCE
- Dr. Nikunj Domadia, Assistant Professor, LDCE

Registration

Who can register:

The STTP is open to faculty members from different engineering disciplines. Participants with diverse backgrounds will enrich the program's interactions and facilitate interdisciplinary collaborations.

📢 **Registration Fees , TA & Boarding / Lodging**
kindly refer https://nitttrbpl.ac.in/files/calendar2324.pdf

How to Register:

- *Signup and register using this link*
  https://erp.nitttrbpl.ac.in/poc2023/onlinemode/partiApply2.jsp?prgId=NC-GUJ-23

- *Faculty members of Degree/Diploma courses (GoG) have to register through TNA portal also*

Organizing Committee:

Patron:

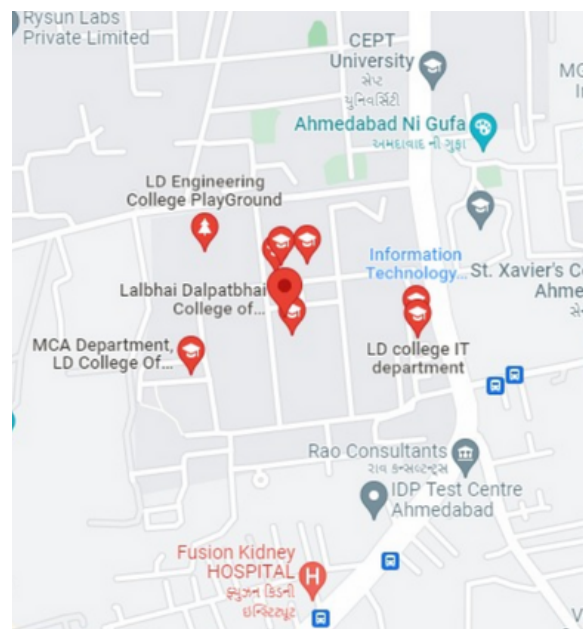Major (Dr.) Chaitanya S. Sanghvi, Principal, LDCE

Coordinators:

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📍 Upanishad Hall, Computer Engineering Department,
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