

Shree Rahul Education Society's (Regd.)

# SHREE L. R. TIWARI COLLEGE OF ENGINEERING

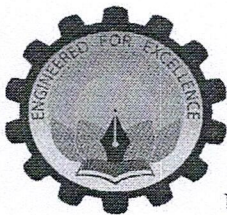
(Approved by AICTE & DTE, Maharashtra State & Affiliated to University of Mumbai)  
NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified | DTE Code No. : 3423  
Minority Status (Hindi Linguistic)

## Brochure for Add on /Certificate/Value added programs for last five years

Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
1	Structural and Architectural Aspects in Civil Engineering	2022 -2023
2	AWS Cloud	2022 -2023
6	Advanced Python for Mechanical Engineering	2022 -2023
7	Advanced Cybersecurity Malware Analysis	2022 -2023
8	Digital VLSI Design	2022-2023
9	Product Design and Development	2022-2023
10	5 G Communication	2022 -2023
11	Environmental Ethics	2022-2023
14	Game Asset Development using Blender	2022-2023
15	Machine Learning	2022-2023
16	Flutter	2022-2023
18	AWS Cloud	2021-2022
19	Internet of Things	2021-2022



  
**PRINCIPAL**  
Shree L. R. Tiwari College of Engineering  
Kanakiya Park, Mira Road (E).



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23	Add on course "Drone Technologies"	2021-2022
24	Python for Mechanical Engineering	2021 - 2022
26	Value education on Self Development	2019-2020
27	Personality Development: Self-Discovery Intensive	2019-2020
28	Solid Works and Ansys	2019-2020
29	Integrity Engineering: Nurturing Values in Technology	2019-2020
30	Essentials of Dharma: Mindful Decision-Making	2019-2020
31	Value Education for Mind Control: Brainpower Enhancement	2019-2020
32	Robotics	2018-2019
33	Ethics in engineering & value education :AURA	2018-2019
34	Dharma-A Life of Integration	2018-2019
35	Basic Programming Using Python	2018-2019
36	Ethics in engineering and value education	2018-2019
37	Human Rights	2018-2019
38	Environmental Impact Assessment	2018-2019



  
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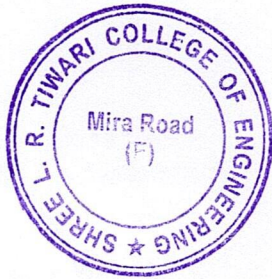
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39	Soft Skill Development	2018-2019
40	Internet of Things	2018-2019
41	Panchkosh	2018-2019
42	Value added education on mind control	2018-2019
43	Personality Development	2018-2019



  
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Shree L. R. Tiwari College of Engineering  
Kamunja Park, Mira Road (E).

## About SLRTCE

Shree L. R. Tiwari College of Engineering (ISO certified, NAAC accredited), established in the year 2010, was the first engineering college in Mira-Bhayandar, and since then has provided a sound platform, equipping students to stand on their own feet, visualize, grow and build a bright future in the ever-growing industry. The college offers 6 full-time UG courses leading to the degree of Bachelor of Engineering (B.E.) from the University of Mumbai and also offers Master of Engineering (M.E.) in Computer Engineering and Electronics & Telecommunication. All courses are approved by the All India Council for Technical Education (AICTE), New Delhi & Directorate of Technical Education (DTE), Maharashtra State.

## About the Add On

This course provides hands-on experience in the field of robotics through a dedicated laboratory setting. Students will explore fundamental concepts in robotics, including kinematics, dynamics, programming, and sensor integration. Practical exercises and projects will be conducted to reinforce theoretical knowledge, and participants will gain skills applicable to various industries.

## Details of Participants

Students from Shree. L. R. Tiwari College of Engineering.

## Add On Objectives

The student shall be able to

- Gain a solid understanding of the basic principles of robotics, including kinematics, dynamics, sensors, and actuators..
- Develop programming skills for robotics using languages such as Python and C++, with an emphasis on robot control and simulation.

- Acquire knowledge in designing & prototyping mechanical components for robotic systems.
- Learn to integrate electronic components, including sensors and microcontrollers, into robotic systems.

## Add On Outcomes

The student shall be able to

- Understand and apply fundamental principles of robotics.
- Program basic robot movements and control systems.
- Design and prototype simple mechanical components for robotic applications.
- Integrate sensors and actuators into a robotic system.

## Regards

Dr. S Ram Reddy  
Principal  
SLRTCE

  
**PRINCIPAL**  
Shree L. R. Tiwari College of Engineering  
Kanekiya Park, Mira Road (E).

## Details of Speaker

Mr. Sandeep Dwivedi (Assistant Professor, EXTC, SLRTCE)  
Ms. Pragati Dwivedi (Assistant Professor, EXTC, SLRTCE)  
Mr. Saurabh Suman (Assistant Professor, IT, SLRTCE)  
Ms. Tanvi Thakur (Assistant Professor, ECS, SLRTCE)

## Contact Person

Mr. Sandeep Dwivedi  
Team Leader /Course  
Coordinator  
Assistant Professor  
EXTC Department,  
SLRTCE  
[sandeep.dwivedi@slrtce.in](mailto:sandeep.dwivedi@slrtce.in)



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Website: [www.slrtce.in](http://www.slrtce.in)



**E-Yantra Robotics cell of**  
**SLRTCE**  
**Organized**

**Add on Course**  
on

**“Fundamental and Application**  
**of Robotics Lab”**

**18<sup>th</sup> August to 2<sup>nd</sup> September 2021**

## About SLRTCE

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## About the Add On

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud, offering over 200 fully featured services from data centers globally. Millions of customers including the fastest-growing startups, largest enterprises, and leading government agencies are using AWS to lower costs, become more agile, and innovate faster.

AWS has significantly more services, and more features within those services, than any other cloud provider—from infrastructure technologies like compute, storage, and databases—to emerging technologies, such as machine learning and artificial intelligence, data lakes and analytics, and Internet of Things. This makes it faster, easier, and more cost effective to move your existing applications to the cloud and build nearly anything you can imagine.

AWS also has the deepest functionality within those services. For example, AWS offers the widest variety of databases that are purpose-built for different types of applications so you can choose the right tool for the job to get the best cost and

## Details of Participants

Students from Shree. L. R. Tiwari College of Engineering.

## Add On Objectives

The student shall be able to

- Satisfy the security requirements for the military, global banks, and other high-sensitivity organizations.
- Ability to encrypt that data.
- Understand the fundamentals of AWS cloud and AWS pricing philosophy.

## Add On Outcomes

The student shall be able to

- Develop a knowledge of how to create VPC by using Amazon Virtual Private Cloud.
- Gain the importance of AWS database services.
- Responsibilities relevant to professional engineering practice.
- Cultivation of trust and cooperation in team building Developing effectiveness and self-management.

## Regards

**Dr. Deven Shah**  
Principal  
SLRTCE

**Mrs, Neelam Phadnis**  
HOD(CS)  
SLRTCE

## Details of Speaker

**Mr. Pravin Jangid**, (Assistant Professor, CS)  
**Mrs Sonali Padalkar** (Assistant Professor, EXTC)  
**Mrs. Shweta Padman** (Assistant Professor, EXTC)  
**Mrs. Komal Champanerkar** (Assistant Professor, IT)

## Contact Person

**Mr. Pravin Jangid**  
Course Co-ordinator  
Assistant Professor  
CS Department,  
SLRTCE  
[pravin.jangid@slrtce.in](mailto:pravin.jangid@slrtce.in)

**Mrs, Neelam Phadnis**  
HOD(CS)  
SLRTCE  
[neelam.phadnis@slrtce.in](mailto:neelam.phadnis@slrtce.in)



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Website: [www.slrtce.in](http://www.slrtce.in)

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Kanakia Park, Mira Road (E).



**Department of Computer**  
**Engineering**  
**SLRTCE**  
**Organized**  
**Add On**  
**On**  
**AWS Cloud**

**21<sup>st</sup> June to 25<sup>th</sup> June 2022**

## About SLRTCE

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## About the Add on Course

5G Communication is a systematic course organized by the Department of Electronics and Telecommunication Engineering to introduce basic concepts of communication to the students and make them aware about 5G Technology. The sessions will start with Basics of Communication and cover various topics like Concepts of Wireless Communication and evolution of Cellular communication from 1G to 4G. The comparative study of 1G to 4G will be discussed. Then concepts and 3GPP standards of 5G were introduced. Hands-on training on Matlab will be given to understand various concepts of 5G.

## Details of Participants

Students from Department of Electronics and Telecommunications, Shree. L. R. Tiwari College of Engineering

## Add on Course Objectives

The student shall be able to

- Understand the definition and significance of the Internet of Things
- Develop knowledge and critical understanding of applications of the IOT system.

## Add on Course Outcomes

The student shall be able to understand the

- The building blocks of the Internet of things and characteristics.
- Apply skills to conduct interfacing of embedded with components.
- Simulation of basic building blocks of 5G

## Regards

**Dr. Deven Shah**  
Principal  
SLRTCE

**Mrs. Aboli Moharil**  
HOD (EXTC)  
SLRTCE

## Details of Speaker

**Faculties of EXTC Department**  
Mira road (E)

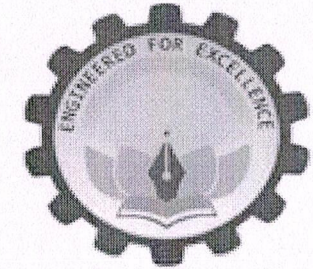
## Contact Person

**Mrs. Aparna Majare**  
Course Coordinator  
Assistant Professor  
EXTC Department,  
SLRTCE  
[aparana.majare@slrtce.in](mailto:aparana.majare@slrtce.in)

**Mrs. Aboli Moharil**  
HOD (EXTC) ,  
SLRTCE  
[aboli.moharil@slrtce.in](mailto:aboli.moharil@slrtce.in)

  
**PRINCIPAL**  
Shree L. R. Tiwari College of Engineering  
Kanakiya Park, Mira Road (E).

**Mrs. Shruti Patil**  
Course Coordinator  
Assistant Professor  
EXTC Department,  
SLRTCE  
[aparana.majare@slrtce.in](mailto:aparana.majare@slrtce.in)  
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Website:

**Department of Electronics and**  
**Telecommunications**  
**SLRTCE**

**Organized**

**Add on Course**  
**On**  
**Internet of Things**  
**8<sup>th</sup> June to 12<sup>th</sup> July 2022**

## About SLRTCE

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## About the Add on Course

Drones are being created, assembled, and programmed to connect with each other to transport bigger, heavier goods as a group. Drone technology is quickly developing; these flying robots are currently used for commercial purposes as well as military purposes.

## Details of Participants

Second and Third year students from the Department of Mechanical Engineering of Shree. L. R. Tiwari College of Engineering

## Add on Course Objectives

The student shall be able to

- Understand the basic concepts of drone technology.
- Understand the drone sensor, propulsion and vertical motion and battery of a drone.
- Understand drone programming.

## Add on Course Outcomes

The student shall be able to understand the

- Understand about the various types of Drones and applications.
- Learn about the various components of drone de
- Understand about drone programming.
- Design basic types of drone systems..

## Regards

**Dr. Roopali Lolage**  
Principal  
SLRTCE

**Mr. Manish Rane**  
HOD (MECH)  
SLRTCE

## Details of Speaker

**Mr. Atulkumar Mishra**  
Assistant Professor  
Department of Mechanical Engineering,  
SLRTCE  
Mira road (E)

## Contact Person

**Mr. Atulkumar Mishra**  
Course Coordinator  
Assistant Professor  
MECH Department,  
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**Mr. Manish Rane**  
HOD (MECH)  
SLRTCE  
[hod.meach@slrtce.in](mailto:hod.meach@slrtce.in)

  
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Website:

**Add on Course**  
**On**  
**Drone Technologies**  
**March 2022 To April 2022**

**Organized By**  
**Department of Mechanical**  
**Engineering**  
**SLRTCE**

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## About the Course

This course focus will be on developing practical coding skills and applying them to solve problems commonly encountered in the field of Mechanical Engineering. The course will cover basic programming concepts, data manipulation, numerical analysis, and visualization techniques.

## Details of Participants

Students of second year and third year from Department of Mechanical Engineering (MECH), Shree. L. R. Tiwari College of Engineering (SLRTCE).

## Course Objectives

The student shall be able to

1. Introduction to Python Programming
2. Problem Solving with Python
3. Data Analysis and Visualization
4. Introduction to Automation and Scripting

## Course Outcomes

The student shall be able to .

1. Proficiency in Python Programming.
2. Problem-Solving Aptitude
3. Data Analysis and Visualization Skills
4. Automation and Scripting Competence
5. Integration with Engineering Software Proficiency

## Regards

**Dr. Deven Shah**  
Principal  
SLRTCE

## Details of Speaker

**Mr. Ninad Mahadeshwar**  
Assistant Professor  
MECH  
SLRTCE

## Contact Person

**Mr. Manish Rane**  
HOD & Course  
Coordinator  
Assistant Professor  
MECH, SLRTCE  
[manish.rane@slrtce.in](mailto:manish.rane@slrtce.in)



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**Department of Mechanical**  
**Engineering**  
**SLRTCE**  
**Organized**  
**Bridge Course**  
on

**“Python for**  
**Mechanical Engineering”**  
**27<sup>th</sup> June 2022 to 1<sup>st</sup> July 2022**