

List of SDP A.Y. 2021-22

- Blockchain Technology
- Structural Modelling and 3D Printing
- Natural language processing using python
- Advanced Antenna Design Using HFSS
- Workshop on Rpi
- Image Processing and Machine Learning using Python
- Full Stack Web Development

Blockchain Technology

December 13 to December 18, 2021

The widespread popularity of digital crypt-currencies has led the foundation of Blockchain, which is fundamentally a public digital ledger to share information in a trustworthy and secure way. The concept and applications of Blockchain have now spread from crypto-currencies to various other domains, including business process management, smart contracts, IoT and so on. This course covers both the conceptual as well as application aspects of Blockchain. This includes the fundamental design and architectural primitives of Blockchain, the system and the security aspects, along with various tools to implement the Blockchain for various application domains.

About Instructors:

This course will be taught by the Internal faculty of SIES GST and the Industry experts from Blockchain Domain.

Industry Experts from Networking and Security Domain:

Revanth Kumar, Corporate Educator and Learning Consultant, Growth Hacker, Startup Connector, Freelancer, Hyderabad, Telangana.
Mr. Prasad G – Tata Consultancy Services

Internal Expert:

Dr. Rizwana Siddiqui Associate Professor,
Prof. Kalyani Pampattiwar, Assistant Professor.

Course Objectives:

- Learn about Blockchain concept and crypto-currencies.
- Understand the concept and importance of Blockchain technology in Business
- Use of various tools to implement the Blockchain.

Course Outcomes:

After This Course the students should be able to:

- Identify the problem of security associated with the third party inclusion in transaction.
- Identifying the need for Blockchain Technology in various Applications.
- Demonstrate the various tools used for Blockchain technology.
- Implementing Blockchain in any security application.

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Course Content:

Prerequisite: Basics of security.

Module	Contents
1.	Chapter 1: Introduction to Blockchain Technology Introduction to Blockchain, Applications and advantages Bitcoin: Introduction, Cryptocurrency and applications Lab: Case Study of Bitcoin and Blockchain, Demonstration of etherscan transaction
2.	Chapter 2: Prerequisite for Blockchain Cryptography and Cryptanalysis, Use of cryptography in Blockchain, Symmetric key cryptography, Asymmetric key cryptography, RSA cryptosystem with example, Cryptographic Hash function, Hash Chain, Merkle Tree, Digital signature, Cryptocurrency using hash chain and digital signature Lab: Demo of SHA256 and other cryptographic tools
3.	Chapter 3: Smart contract and solidity, Introduction to Smart Contract, Key Properties of smart Contracts, Language for Smart Contracts, Deploying Smart Contracts, Using Metamask for transfer of ethers Lab: Design, test, and deploy secure Smart Contracts
4.	Chapter 4: Blockchain using Hyperledger Hyperledger Components, MSP, Chain code, Various applications, Lab: Creating Blockchain Using NodeJS, Creating Blockchain application using Hyperledger
5	Chapter5: Blockchain using Ethereum Ethereum components, features, Wallets, Transactions, Public & Private keys, Lab: Implementation of Blockchain using Ethereum, creating wallet, writing transaction, mining and generating crypto currency
6	Chapter6: Creating Blockchain Applications Creating an application of blockchain using truffle suit and Ganache framework, combining with solidity smart contract and executing the transactions. Lab: Application executed using smart contract and embedding with Ganache



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Nav Mumbai - 400706

Assessment:

1. The course include minimum two assignment and two quiz.
2. The students should form a group of three to four members and implement mini-project as a part of the course.

Course Coordinator:

Prof. Rizwana Shaikh: rizwana.shaikh@siesgst.ac.in, 9619197014

Prof Kalyani P: kalyani.pampattiwar@siesgst.ac.in, 9819370257

Registration Link:

<https://forms.gle/BDeQ223ZjCQ7H4D28>



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Fwd: Registration open for Value-added courses planned in Dec 2021

HOD EXTC <hodextc@sies.edu.in>

Thu 10/11/2022 16:25

To: Prachi Shahane <prachis@sies.edu.in>; Kaustubh Chavan <Kaustubhc@sies.edu.in>

Notice Regarding SDP to the students

Get [Outlook for Android](#)

From: Deepti Reddy <deeptir@sies.edu.in>

Sent: Saturday, December 4, 2021 10:54:43 AM

To: TECE-19-20 <TECE19-20@sies.edu.in>; TEEXTC19-20 <TEEXTC19-20@sies.edu.in>; TEIT19-20 <TEIT19-20@sies.edu.in>; TEPPT19-20 <TEPPT19-20@sies.edu.in>; TEME19-20 <TEME19-20@sies.edu.in>; BECE18-19 <BECE18-19@sies.edu.in>; BEEXTC18-19 <BEEXTC18-19@sies.edu.in>; BEIT18-19 <BEIT18-19@sies.edu.in>; BEME18-19 <BEME18-19@sies.edu.in>

Cc: Principal GST <principalgst@sies.edu.in>; HOD CE <HODCE@sies.edu.in>; HOD IT <hodit@sies.edu.in>; HOD PPT <hodppt@sies.edu.in>; HOD ME <hodme@sies.edu.in>; HOD EXTC <hodextc@sies.edu.in>; Varsha Patil <varshap@sies.edu.in>; Madhuri Kulkarni <madhurik@sies.edu.in>; Prashant Ambadekar <prashanta@sies.edu.in>; Savita Lohiya <savital@sies.edu.in>; IQAC GST <iqacgst@sies.edu.in>; Pradip Patil <pradipp@sies.edu.in>

Subject: Registration open for Value-added courses planned in Dec 2021

Dear Students,



Hope you are all doing well and taking good care of yourself & family!

This is to inform you that the Institute under IQAC and IIC is organizing value-added courses with internship-based project, across various disciplines in this winter vacation. You can go through the brochure through the link given in the table, for more details of the course, prerequisites, and the schedule.

Kindly fill the respective registration form to confirm your admission. Admission to these programs is limited and is on a first come first served basis. However, there is no restriction on the number of programs that a student wants to attend and can enroll in more than one program as long as there is no overlapping of the enrolled program. All courses are open to all the students across all the branches and students of any branch can enroll in any interested course.

For any query or more details , you can contact the faculty members of respective departments.

Sr.no.	SDP	Faculty	Department	Date	Brochure link	Registration link
1	Natural Language Processing using Python	1. Prof. Madhuri Kulkarni 2. Prof. Priyanka Kadam Industry 1. Mr. Sanket Parab - (Smart Workforce)	EXTC	Dec 20- Dec 24, 2021	NLP brochure (1).pdf	Link
2	Full Stack Web Development	1. Prof. Stuti Ahuja, 2. Mr. Amit Pandhare 3. Ms. Samundiswary S Industry- 1. Mr. Ganesh Ashok Deshmukh - Backend Developer, Jio-Haptik 2. Mr. Rahul Thorat, ASDE,	IT	Dec 13- Dec 18, 2021	Full stack web developemen SDP.docx	Link

		CarTrade Tech Limited.				
3	Blockchain Technology	1. Dr. Rizwana Siddiqui 2. Prof. Kalyani Pampattiwar Industry 1. Revanth Kumar, Corporate Educator and Learning Consultant. 2. Mr. Prasad G, TCS	CE	Dec 13- Dec 18, 2021	 Blockchain Technology.docx	Link
4	Structural Modelling and 3D Printing	1. Dr. Sandesh Ramteke 2. Prof. Sagar S. Waghmare, 3. Prof. Prashant Ambadekar, 4. Prof. Ali Ansari, Industry 1. Mr Karan Chaphekar	PPT and Mech	Dec 13- Dec 20, 2021	 SDP-Structural Modelling and 3D Printing_SH-2021.docx	Link

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Best Wishes,

Dr. Deepti Reddy

FDP-SDP coordinator,

Associate Professor,

Dept. of Computer Engineering,

SIESGST, Nerul.

9323420286

[Deepti Reddy](#) | [LinkedIn](#)



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Sector-V, Nerul, Navi Mumbai-400706



South Indian Education Society's
GRADUATE SCHOOL OF TECHNOLOGY, Navi Mumbai.
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Image Processing and Machine Learning using Python

June 27 to July 15, 2022

Click [here](#) to register

There is difference between education and knowledge. Education provides learning. While knowledge translates that learning into a career that earns a living. But the truth is, our education system is largely structured around academic learning, leaving the task of turning it into a career to the individual. For the less-privileged though, the only barrier that stands between them and a technocrat is knowledge of practical aspects of technology.

This course is meant to be a hands-on type of course, giving students a chance to learn python and its applications in image processing and machine learning which is a current trend of technology.

About Instructors:

This course will be taught by a team of expert from Industry and SIESGST faculty members of the Electronics and Telecommunication Department.

Industry Expert:

Mr. Abhay Phansikar, Director, Azilen Technologies

Faculty Members:

1. Prof. Swati Rane, Assistant Professor
2. Prof. Shyamala Mathi, Assistant Professor
3. Prof. Pushkar Sathe, Assistant Professor

Course Objectives:

CO
Write and explain basics commands of python
Explain basics of image processing
Implement basic image processing using python
Explain concepts of machine learning
Write codes of machine learning using python
Implement mini project based on image processing and machine learning using python



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Course Outcomes:

Students will be able to

- Use Python – Jupyter tool
- Perform all basic operations in the Dataset and Visualize data using the libraries
- Perform basic operations on digital image using Python
- Implement classifier model for given data and compare its performance with another classifier.

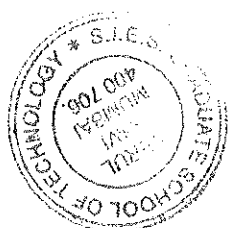
Course Content:

Module	Contents	Hours
1.	Fundamentals of python programming: Introduction to Python, datatypes, NumPy, Python for Data Science – Pandas: Introduction to Pandas, Series, Data frames – Missing Data, Group by, merging, operations and Data i/p and o/p. Python for Data Visualization using Matplotlib and seaborn, <u>Hands on</u> exercises of all the concepts covered.	9 hrs
2.	Image processing using python: Introduction to digital image processing, image enhancement techniques, Image segmentation, morphological processing, <u>Hands on</u> exercises of all the concepts covered.	9 hrs
3.	Machine learning and applications: Basics of machine learning, simple linear regression, Multiple Linear Regression and Logistic Regression, Decision tree algorithm, Basics of neural network, types of neural network, Image classifier model using ANN and CNN, Applications of ML in industry, <u>Hands on</u> exercises of all the concepts covered.	18 hrs

Assessment:

1. Module wise assignments and quizzes should be completed by students.
2. Fifteen days internship will be provided subject to the successful completion of Mini Project.

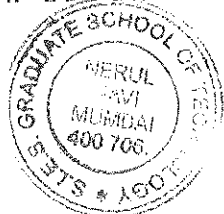
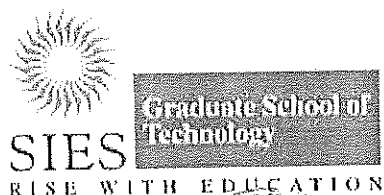
Course Coordinators: Prof. Pushkar Sathe
pushkars@sies.edu.in
9870630637



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Day wise schedule of workshop

Day	Activity
Day 1 27/6/2022	Introduction to Python, datatypes, Numpy, Python for Data Science – Pandas: Introduction to Pandas, Series, Dataframes – Missing Data, Groupby, merging, operations and Data i/p and o/p. Python for Data Visualization using Matplotlib and seaborn
	Exercise on Python, datatypes, Numpy, Pandas, Matplotlib and Seaborn
Day 2 28/6/2022	Introduction to digital image processing, image enhancement techniques, Image segmentation, morphological processing
	Exercise on Digital Image enhancement techniques, Image segmentation, morphological processing
Day 3 29/6/2022	Basics of machine learning, simple linear regression, Multiple Linear Regression and Logistic Regression
	Exercise on simple linear regression, Multiple Linear Regression and Logistic Regression
Day 4 30/6/2022	Decision tree algorithm, support vector machine, Exercise on Decision tree algorithm, support vector machine
	Expert talk on “Applications of ML in industry”, Mr. Abhay Phansikar, Director, Agilen Technologies
Day 5 1/7/2022	K-means and KNN algorithms
	Exercise on K-means algorithm and KNN algorithm
Day 6 2/7/2022	Basics of ANN
	Basics of CNN
	Implementation of ANN and CNN, Quiz
2/07/22 to 8/07/22	Implementation of Miniproject
9/07/22	Miniproject presentation



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South Indian Education Society's
GRADUATE SCHOOL OF TECHNOLOGY, Navi
Mumbai.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Workshop on Raspberry pi

June 27 to July 15,
2022 [Click here to register](#)

There is difference between education and knowledge. Education provides learning. While knowledge translates that learning into a career that earns a living. But the truth is, our education system is largely structured around academic learning, leaving the task of turning it into a career to the individual. For the less-privileged though, the only barrier that stands between them and a technocrat is knowledge of practical aspects of technology.

This course is meant to be a hands-on type of course, giving students a chance to learn rpi and its programming.

About Instructors:

This course will be taught by a team of expert from Industry and SIESGST faculty members of the Electronics and Telecommunication Department.

Industry Expert:

Mr. Kartik Daware, Senior Engineer, FEV India Ltd. Pune

Faculty Members:

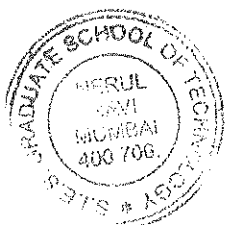
1. Prof. Vishal Gaikwad
2. Prof. Vaishali Mangrulkar
3. Prof. Nita Patil


Course Objectives:

CO
To develop the background knowledge and core expertise of an embedded system design.
To know the importance of different peripheral devices and their interfacing to rpi board.
To know the sensor interfacing and its programming.
To write python programs for rpi for various applications.
To know the working of different sensors and their use in an embedded systems
To understand the basic concept of OS and installation of OS

Course Outcomes:

Students will be able to




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Install OS for rpi

- Interface different sensors and actuators with rpi
- Write programs for rpi using python.
- Understand the various python commands for rpi.

Course Content:

Module	Contents	Hours
1.	Introduction to basics of OS and different OS for rpi	6 hrs
2.	Installation of OS in rpi board	6 hrs
3.	Introduction of python commands for rpi.	6 hrs
4	Python programming for rpi	6 hrs
5	Interfacing of following sensors and programming for rpi 1. LDR Sensor 2. Ultrasonic Sensor 3. DHT11 Sensor 4. Motion Sensor 5. Gas Sensor	10 hrs
6	Interfacing of display devices and mini project designing based on rpi and sensors	09 hrs

Assessment:

1. Module wise assignments and quizzes should be completed by students.
2. 15 Days Internship will be provided subject to the successful completion of Mini Project.

Course Coordinators: Prof. Vishal Gaikwad

vishalg@sies.edu.in

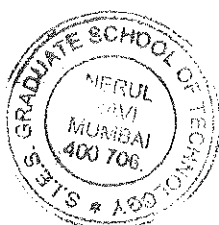
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Prof. Vaishali Mangrulkar

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Prof. Nita Patil

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South Indian Education Society's
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Value added course on
Natural Language Processing using Python
(Dec 20-Dec 24, 2021)
Click [here](#) to register

Natural language processing is a branch of computer science and artificial intelligence which is concerned with interaction between computers and human languages. Natural language processing is the study of mathematical and computational modeling of various aspects of language and the development of a wide range of systems.

Duration of Course: 40 Hrs

About Instructors:

This course will be taught by a team of various eminent programming experts from Industry and SIESGST faculty members of Electronics and telecommunication Department.

Various Industry Experts from Natural Language Processing Domain:

1. Mr. Samarth Sarin - (Gartner- Data Scientist)

Expert talk:

1. Ms. Pranita Mahajan (Assistant Professor, SIES GST)

Faculty Members:

1. Prof. Madhuri Kulkarni (Assistant Professor)
2. Prof. Priyanka Kadam (Assistant Professor)

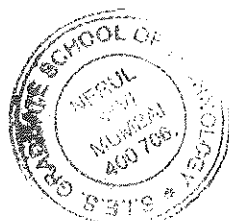
Course Objectives:

1. To understand challenges of empirical methods for natural language processing (NLP) applications.
2. To introduce basic mathematical models and methods used in NLP applications to formulate computational solutions.
3. To provide the knowledge on designing procedures for text analysis and hands-on experience using NLP tools.

Course Outcomes:

At the end of the course Students will be able to

1. Explain the fundamental mathematical models and algorithms in the field of NLP.
2. Apply mathematical models and algorithms to implement different application in the field of NLP
3. To enhance programming skills for computational linguistics applications of NLP.



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Course Content:**Prerequisite:**

1. Basic knowledge of python.
2. Environment setup: a) Download Anaconda b) Run setup file

Module	Content	Duration
1.	Introduction to NLP: What is NLP, Need of NLP, NLP Libraries, Applications of NLP (Case Studies), Assignment.	8 Hrs
2.	Text Processing: Tokenization (word and sentence), Normalising, Stemming, Lemmatization, Assignment. Stemming: Porter Stemmer, Lancaster Stemmer, Snowball Stemmer	8 Hrs
3.	Word Net: What is WordNET, The Distinction Between WordNET and Thesaurus, Structure of WordNET, Relations in the WordNET, Implementation of WordNET PoS: PoS tagging, PoS Tagging with Stop words, Dependency Parsing, Constituency Parsing. Need of Frequency based Embedding: Bag of word, TF IDF	8 Hrs
4.	Named entity recognition : NER using NLTK, NER using spaCy, Applications, Visualization using Parse tree. Word embedding: One hot encoding, Word2Vector, Glove N-Gram : Word to vector using character N-Gram	8 Hrs
5.	Text classification in NLP using machine learning, Google Dialog flow and Chatbot	8 Hrs
6.	Project Presentation and Case study Discussion	

Assessment:

1. Module wise assignments and quizzes should be completed by students, based on that certificate will be issued.

Internship:

Project Based Internship after successful completion of the course will be offered to the participants.

Course Coordinators:

Prof. Madhuri Kulkarni
madhurik@sies.edu.in
9595008467

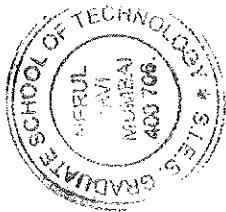
Prof. Priyanka Kadam
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Day wise schedule of workshop

Day	Activity
Day 1 (20/12/2021)	Introducation on Natural Language Processing and its applications, NLP using python libraries Hands on NLP using Python libraries
Day 2 (21/12/2021)	Getting started with NLTK, Tokenizing Text, Normalizing text, segmentation, formatting Hands on the above topics with exersies using Jupyter or colab Assignment Quiz1
Day 3 (22/12/2021)	Bag of words and TF-IDF, Part of speech tagging Hands on the above topics with exersies using core NLP tool
Day 4 (23/12/2021)	Word embedding, N-grams, Named Entity Recognition (NER), word net Hands on the above topics with exersies using Dialogflow Assignment Quiz2
Day 5 (24/12/2021)	Text classification in NLP using machine learning, Google dialogflow and Chatbot Hands on the above topics with exersies using Dialogflow



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Advanced Antenna Design

June 27 to July 4, 2022

Click [here](#) to register

Although the microstrip antenna has been extensively studied in the past few decades as one of the standard planar antennas, it still has a huge potential for further developments. Microstrip antennas are considered as the most common types of antennas due to their obvious advantages of light weight, low cost, low profile, planar configuration, easy of conformal, superior portability, suitable for arrays, easy for fabrication, and easy integration with microwave monolithic integrate circuits (MMICs). They have been widely employed for the civilian and military applications in the form of broadcast radio, mobile systems, global positioning system (GPS), radio-frequency identification (RFID), multiple-input multiple-output (MIMO) systems, vehicle collision avoidance system, satellite communications, surveillance systems, direction finding, radar systems, remote sensing, biological imaging, missile guidance, body wearable antennas, and so on. Since there are several challenges in the design of antennas, a training programme on this topic would be very beneficial to enrich their knowledge and to carry out advanced research in antenna domain. The objective of this SDP is to train the participants in both fundamental and research levels.

About Instructors:

This course will be taught by a team of

Dr. Uday Pandit Khot, Professor, St. Francis Institute of Technology, Mumbai.

Dr. Vivek Ashokan, ANSYS (HFSS expert) technology, Application Engineer
ARK. Infosolutions.

Dr. Anjali Choudhari, Asst Prof., St. Francis Institute of Technology, Mumbai.

Prof. Vandana Sawant, SIES GST, Nerul

Prof. Sonal Hutke, SIES GST, Nerul

Prof. Hema Raut, SIES GST, Nerul.

Course Objectives:

- Design and analysis of microstrip line.
- Design of the Patch Antenna.
- Simulation of the Patch Antenna using simulation software HFSS.



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- To evolve, develop and improvise different types of patch antennas suitable for numerous applications like microwave communication, radar, mobile communication, military communications, IOT applications so on.

Course Outcomes:

Students should be able to
Design and analyze microstrip line.
Design of line feed and probe feed rectangular patch antenna and develop its applications.
Design and analysis of textile antennas for military applications.
Design and analysis of wide band antennas.
Design of array antennas and antenna optimization.
Design of MIMO antenna and periodic structure.

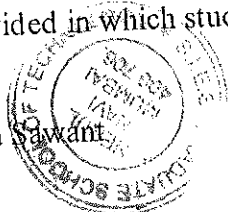
Course Content:

Module	Contents	Hours
1.	Keynote address, Installation and testing of related software.	2 hrs
2.	MICROSTRIP LINE: Design of microstrip line, S parameter analysis, characterization of microstrip line based on length of line, design and simulate impedance matching using quarter wave transformer using HFSS.	4 hrs
3.	RECTANGULAR PATCH ANTENNA AND ITS APPLICATIONS : Introduction to microstrip structure, calculate dimensions of rectangular patch antenna at 2.4GHz, design and simulate line feed rectangular patch antenna for various applications using HFSS.	6 hrs
4.	Design and analysis of textile antennas for military applications.	6hrs
5.	Design and analysis of RMSA using probe feed, current distribution.	6 hrs
6.	WIDE BAND ANTENNA Introduction to wideband antennas, Design of wideband antennas.	6 hrs
8.	Design of antenna arrays.	6 hrs
9.	Antenna optimization	3hrs
10.	MIMO Antenna	4hrs
11.	Antenna design using periodic structure.	40 hrs
12.	Mini Project on Design and Simulation of Antenna	

Assessment:

- Students will be assessed based on module wise assignments and quizzes.
- Fifteen days internship will be provided in which students have to develop Mini projects based on above concepts.

Course Co-Ordinator: Prof. Vandana Sawant



[Signature]


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E mail ID: vandanas@sies.edu.in
Contact no.: 9820755314

Day wise schedule of workshop

DATE	TIME	TOPIC
27-06-2022	10.00-12.50am	Inauguration and Keynote address by Dr.Uday Pandit
	1.30-4.00pm	Introduction to HFSS, Design of Microstrip line & Design of Quarterwave Transformer by Vandana Sawant
28-06-2022	10.00-12.50am	Design of Edge Feed Antenna by Ms. Vandana Sawant
	1.30-4.00pm	Design of Inset Feed textile Antenna by Vandana Sawant
29-06-2022	10.00-12.50am	Design of Probe Feed Antenna by Ms. Hema Raut
	1.30-4.00pm	Design of MIMO Antenna by Dr. Anjali Choudhari
30-06-2022	10.00-12.50am	Design of Ultra-Wide band Antenna by Ms. Hema Raut
	1.30-4.00pm	Design of Ultra-Wide band Antenna by Ms. Hema Raut
01-07-2022	10.00-12.50am	Antenna optimization by Ms. Sonal Hutke
	1.30-4.00pm	Design of Array Antenna by Ms. Sonal Hutke
04-07-2022	10.00-12.50am	Design of Array Antenna by Ms. Sonal Hutke
	1.30-4.00pm	Design of Antenna with periodic structure by Dr.Vivek Ashokan




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