



1.2.2_3.Highlighted portion of assessment procedures for each program year-wise

1.2.2 Assessment Procedure Electronics and Telecommunication 2019-20

1. Embedded System Design Using Arduino-Uno

Event Description
<p>Internship was conducted for the SE EXTC students on embedded system design using arduino.</p> <p>First day started with the basics of the microcontroller and microprocessor and then hands-on sessions interfacing of sensors, display and actuators with microcontroller conducted followed by nine projects.</p> <p>Total 34 students participated for this course and they have completed all the assigned projects successfully.</p>

2. Embedded system – ARM Mbed and Node MCU workshop

Day_6 to 15 (12th Dec 2019 to 20th Dec 2019):

Following Mini projects are given :

- 1.Implementation of soil moisture monitoring
- 2.Implementation of weather station monitoring
- 3.Distance measurement using freedom board
- 4.Air mouse using freedom board
- 5.mplementation of liquid level monitoring
- 6.Home automation using IoT
- 7.Two digit adder subtractor using freedom board



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in

www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



3. FPGA Design using VHDL

Event Description
<p>EXTC department faculties have conducted 15 days student development program followed by internship, "FPGA Design using VHDL". Program was conducted by Prof. Pranavi Mhatre and Prof. Dr. Preeti Hemnani.</p> <p>Objective of the workshop was to bridge the gap between industry requirements and academic. 15 students attended the course and successfully developed and submitted project individually. Students completed their projects during online internship by SIESGST.</p> <p>Certificates were given to students on successful completion and presentation of developed applications. Feedback was collected and overall feedback shows students were satisfied with content.</p>

4. Introduction to Arduino, IoT and Interfacing using Simulator software

Impact Analysis:

Students did mini projects using various sensors available in Tinkercad simulator and simulated and presented successfully.

5. Machine Learning and Image Processing using Python

4. Impact Analysis: Students did mini projects in the field of machine learning using concepts of python learnt during 12 days of SDP.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in

www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/L/5, SIR CHANLALASIBHENDRA SARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



6. Hands on training on C, C++ and Java coding skills

List of Mini Projects of SDP

Sr. No.	Group No.	Name	Roll no.	Class	Branch	Project name	
1	G1	Sneha Murugesah	119A3048	FE	IT	Phonebook management	C++ topic
2		Netra Mudaliar	119A3033	FE	IT		
3		Sruthi Pankajakshan	119A1087	FE	CE D		
4	G2	Nisun Manghi	119A1039	FE	CE	Supermarket Billing System	C++ topic
5		Nandita Nandakumar	119A1052	FE	CE		
6		Pournami Pottakat	119A1058	FE	CE		
7	G3	Sai Sri Sravya Sistla	119A2066	FE	EXTC	School management system	Java topic
8		Srishti Ravi	119A2081	FE	EXTC		
9		Sameeksha Rai	119A2070	FE	EXTC		
10	G4	Anand Borkar	119A1015	FE	CE	Random Password Generator	Java topic
11		Dhruv Suvarna	119A1021	FE	CE		
12		Aditya Kamakrishnan	119A1004	FE	CE		
13		Yash Dhanola	119A1020	FE	CE		
14		SNEHA PARNE	118A2078	SE	EXTC	hangman game	C++ topic
15		PARVATI KRISHNAN	118A2075	SE	EXTC		
16		Krishnaveni Doki	119A2032	FE	EXTC		
17		Vedanta Landga	119A2037	FE	EXTC		

Activate Windows
Go to Settings to activate Windows.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/U/5, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



1.2.2 Assessment Procedure Electronics and Telecommunication 2018-19

1.EDUVANCE SUMMER INDUSTRIAL TRAINING 2018

Event Description	
<ul style="list-style-type: none"> Total of two quizzes were conducted during the full course. Class Labs and assignments is based on 74 labs done in class, homework, and junior instructor feedback about every student. Final Course Project was based on all the concepts taught and practical performed during the entire course. Extra Credit Projects like Wireless Air mouse and Shake it off were performed as a part of the course. 	
GRADE DISTRIBUTION	
Particulars	Weightage (%)
Attendance	5
Quizzes	15
Final Written Exam	25
Class Labs and Assignments	25
TA Variable	15
Final Course Project	15
Total	100
Extra Credit Projects Allotted (% worth)	2

Activate Windows
Go to Settings to activate v



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal
S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/75, SIR CHANDRASEKARENDRASARASWATHI VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



SIT SIES GST STUDENTS

Name	Percentage	Grade	Department
Rajiv Srikrishnakumar Iyer	59.60	B	Electronics and Telecommunication
K.Sriram	63.96	B+	Electronics and Telecommunication
S Anuraag Iyengar	73.13	A	Electronics and Telecommunication
Suraj Shetty	60.54	B+	Electronics and Telecommunication
Aayush Verma	39.45	C	Electronics and Communication
A J Haravindan	68.40	A	Electronics and Telecommunication

LIST OF PROJECTS

- Shake-it Off

Detection of fast and abrupt motion of a device using a 3-Axis Freescale Semiconductors MMA8451Q accelerometer with FRDM KL25Z.

- Wireless Airmouse

Used the on board accelerometer (Freescale MMA8451Q) and capacitive sensor APIs of MBED and developed a wireless mouse that alters its sensitivity with respect to the input given by the transmitter using an nRF24L01P transceiver pair to give it a wireless capability.

- IOT On Request

Uploading data on the Thingspeak server as a command from the user as well as downloading the required data from the Thingspeak server on the command from the user using serial communication and ESP8266 Wi-fi module.

- Surface Level Indicator

Detection of abrupt surface, either flat or extremely tilted using a 3-Axis on board accelerometer (Freescale Semiconductors MMA8451Q) with FRDM KL25Z.

- Node-Red IBM



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in



1.2.2 Assessment Procedure Computer Engineering 2019-20

1. BlockChain Technology

Event Description

Department of Computer Engineering of SIES GST organized an SDP from 02/12/2019 to 07/12/2019 for SE/TE students.

Dr. Aparna Bannore, HOD CE has addressed the students about the overview of program and internship to be conducted. She explained the benefits of learning security and blockchain. Also various career opportunities available in the field of security.

Around 25 participants from SE and TE attended the SDP. Entire program was carried out in six days span. Everyday's session is divided into two halves morning and afternoon.

The Sessions started with covering basics of Security and need of Blockchain. Various tools were identified and studied along with the demonstration. A sample project in the form of mini project is the expected outcome of the course.

The first day morning session conducted by Dr. Rizwanashaikh. She has covered Introduction to blockchain, followed by afternoon session by Prof. Kalyani P on Cryptography required for Blockchain. She continued the session on second day based on Public key cryptography and Merkle tree and Hash function. Day 2 afternoon session conducted by Dr. Rizwana on Hyperledger fabric Composer. Day 3 session was conducted by prof. MasoodaModak on Introduction to solidity, Remix IDE framework and Sample contract. Day 4 session was continued by her on More examples in solidity, banking example and Currency exchange contract. Day 5 session was delivered by Prof. Namrata Patel on Building a Blockchain using javascript, Accessing Blockchain using API and Consensus algorithms. Day 6 was conducted by Dr. Rizwana Shaikh on Case study on Blockchain and at the end internship project topics were discussed with students. Students have been given 15 days time to complete their project. Vote of thanks was presented by HOD CE, Dr. Aparna Bannore.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal
SIES GRADUATE SCHOOL OF TECHNOLOGY
PLOT 107, SRI CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



Event Description

Department of Computer Engineering of SIES GST organized an SDP from 15/06/2020 to 20/06/2020 for SE/TE students.

Dr. Aparna Bannore, HOD CE has addressed the students about the overview of program and internship to be conducted. She explained the benefits of learning security and blockchain. Also various career opportunities available in the field of security.

Around 13 participants from SE and TE attended the SDP. Entire program was carried out in six days span. Eveready's session is divided into two halves morning and afternoon.

The Sessions started with covering basics of Security and need of Blockchain. Various tools were identified and studied along with the demonstration. A sample project in the form of mini project is the expected outcome of the course.

The first day session was conducted by Dr. Rizwana Shaikh. She has covered Introduction to blockchain, Bitcoin, Introduction Cryptocurrency and applications followed by afternoon session on Smart Contracts, Various implementation tools. Second day session was conducted by Prof. Kalyani Pampattiwar on Cryptography required for Blockchain, Public key cryptography and Merkle tree and Hash function. Day 3 session was conducted by prof. Masooda Modak on Introduction to solidity, Remix IDE framework and Sample contract., Deploying Smart Contracts, using Metamask for transfer of ethers.. Day 5 session was delivered by Prof. Namrata Patel on Building a Blockchain using javascript, Accessing Blockchain using API and Consensus algorithms. Day 6 was conducted by Dr. Rizwana Shaikh on Case study on Blockchain and at the end internship project topics were discussed with students. Students have been given 15 days time to complete their project. Vote of thanks was presented by HOD CE, Dr. Aparna Bannore. She has congratulated all the students for attending the SDP with full enthusiasm.

SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in





2. Network Security & Ethical Hacking

SIES Graduate School of Technology

Organizing

Student Development Program and Internship

6 days Hands on Training on

Network Security and Ethical Hacking

Dec, 2019

List of Project

Sr. no	Title of Project	Student Name	Name of faculty	Certificate No.
01	Angry IP scanner(Windows OS)	Anagha Jadhav Roma Rai	Ujwala R	CR No.CE/SH2019/SDP/27 CR No.CE/SH2019/SDP/28
02	John the Ripper (Kali Linux)	Shaikh Nifa Damian Pillai	Suvarna C	CR No.CE/SH2019/SDP/29 CR No.CE/SH2019/SDP/30
03	Demonstration of Burp Suite	Aditya Borude Sakshi Mahadik	Suvarna C	CR No.CE/SH2019/SDP/31 CR No.CE/SH2019/SDP/32
04	Keyloggers (windows OS)	Deepthi S Thrishapriya S	Kalyani P	CR No.CE/SH2019/SDP/33 CR No.CE/SH2019/SDP/34
05	Metasploit: for hacking windows XP system using Kali linux	Sonali Sarkar Priyanka Paulraj	Aparna B	CR No.CE/SH2019/SDP/35 CR No.CE/SH2019/SDP/36
06	Steganography on image using kali linux	Vineet Anant Iyer Vignesh Mudaliar	Kalyani P	CR No.CE/SH2019/SDP/37 CR No.CE/SH2019/SDP/38
07	Steganography using windows Os using Openstego	Artha Pillai Sachi Patankar	Kalyani P	CR No.CE/SH2019/SDP/39 CR No.CE/SH2019/SDP/40
08	Web vulnerability scanner :netSparkar	Nambi Yadav Arun Kumar Pandi	Ujwala R	CR No.CE/SH2019/SDP/41 CR No.CE/SH2019/SDP/42
09	Network miner	Vishak Kodethur Tushant Gokhe	Suvarna C	CR No.CE/SH2019/SDP/43 CR No.CE/SH2019/SDP/44



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in

www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SRI CHANDRASEKARENDRASARASWATHI VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



3. Ethical Hacking & Security

Event Description

The department of Computer Engineering of SIES Graduate School of Technology, Nerul, Navi Mumbai has successfully organized and conducted one week student development program on Ethical hacking and Security for First and second year students of EXTC/CE/IT/MECH branch from June 15-20, 2020 with 15 days of internship.

OBJECTIVES AND GOALS: The main objective of this SDP was to give insight to the participants of ever expanding field of Internet/cyber security world. It is aimed to provide knowledge to the students on how to identify the security parameters and penetration level in any organization in ethical manner and mitigating threats.

The goal is to identify general methodology of performing penetration in the internet world, tools available in performing actions and mitigating the risk.

Outcomes:

As a result of successful completion of this workshop, participants will be able to

- Understand current cyber security threats
- Analyze traffic patterns associated with suspicious network behavior
- Select and configure various Open-Source tools for network security in Kali Linux.

Attendees:

First year and second year engineering students from EXTC/CE/IT/MECH branch. Total 31 participants have attended the program.

Session: Major topics covered during the workshop are

- 1) Basics of Networking Hack by Prof. Kalyani P
- 2) Scanning and sniffing using open source tools by Prof. Suvama Choure
- 3) Password cracking by Prof. Suvama Choure
- 4) Metasploit Framework: Prof. Apama Bannore
- 5) Introduction to open WASP : Prof. Ujwala Ravale
- 6) SQL injection, CSS and Malware detection by Prof. Ujwala Ravale
- 7) Virus Demonstration : Kalyani P

Mini projects: The students demonstrated the skills developed through various mini projects developed during the workshop.

The topics were Project 1) Metasploit: for hacking windows XP system using Kali linux

Project 2: Keylogger/keylogger(windows OS)

Project 3: Steganography using windows Os using Openstego

Project 4: Angry Ip scanner(Windows OS)

Project 5: Web vulnerability scanner netSparkar

Project 6: SQLmap using Kali Linux

Project 7 : Open WASP projects

Feedback:

4. Hands on Training on Introduction to R

Event Description

CE department faculties have conducted six days student development program followed by internship, "R programming". Program was conducted by Prof. Prachi Shahane, Prof. Pranita Mahajan, Prof. Masooda Modak, Dr. Varsha Patil and Prof. Anindita Khade.

Objective of the workshop was to bridge the gap between industry requirements and academic.

28 students attended the course and successfully developed and submitted project in a group or individually.

Students completed their projects during internship in SIESGST and presented their work to CE department faculties.

Certificates were given to students on successful completion and presentation of developed applications.

Feedback was collected and overall feedback shows students were satisfied with content and requested to conduct future SDPs on Data mining and Deep Learning.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SRI CHANDRASEKARENDRASARASWATI VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



5. Advanced web technology

Event Description

Computer Department of SIES GST organized and conducted a student development program on Web designing Technologies from 4th December 2019 to 19th December 2019 between 10 am to 4 pm at SIES Graduate School of Technology, Nerul.

The SDP sessions are conducted by computer department faculties. They taught web technologies in which they have covered client and server side markup and scripting languages such as HTML5, CSS3, Javascript, PHP and MYSQL Database connectivity. Students had given hands-on training sessions on every language. Students have got good exposure to web designing technologies. At the end of SDP session students have completed their website for given topic.

Total 25 participants attended the session of second year EXTC Department. The concluding remarks were given by Ms. Aparna Bannore, HOD of CE SIES GST. The session was received with admiration by the students.

6. Datascience with R

Event Description

CE department faculties have conducted a six days student development program followed by internship, "Data Science with R". Program was conducted by Prof. Prachi Shahane, Prof. Pranita Mahajan, Dr. Varsha Patil and Prof. Anindita Khade.

Objective of the workshop was to bridge the gap between industry requirements and academics. 24 students attended the course and successfully developed and submitted projects individually. Students completed their projects during an online internship by SIESGST and presented their work to CE department faculties.

Certificates were given to students on successful completion and presentation of developed applications. Feedback was collected and overall feedback shows students were satisfied with content and requested to conduct future SDPs on Deep Learning.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SRI CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



7. Advance C

Event Description

Computer Department of SIES GST organized and conducted a student development program on Advanced C from 22 June to 26 June 2020 between 10 am to 5 pm at SIES Graduate School of Technology, Nerul in Online mode.

The SDP sessions are conducted by computer department faculties. They taught Advanced C in which they have covered advanced data type, type qualifiers, macros, code lite and gcc compiler environment, File handling, pointer, double pointer, void pointer, function pointer, data structure in C. Students had given hands-on training sessions on C language. Students have got good exposure to concept of advanced C. At the end of SDP session students have completed quiz and practicals.

Total 45 participants attended the session of FE,SE,TE of CE, IT, EXTC and ME branches. The concluding remarks were given by Ms. Apama Bannore, HOD of CE SIES GST. The session was received with admiration by the students.

8. Advanced web technology

Event Description

Computer Department of SIES GST organized and conducted a student development program on Advanced HTML and Web technologies from 22nd June 2020 to 29th June 2020 between 10 am to 4 pm daily through online platform at SIES Graduate School of Technology, Nerul.

The SDP sessions are conducted by computer department faculties. The course contents designed by faculties and reviewed from external industry experts. During the course students learned complete web development process. Students learned core concepts of front end and backend programming using HTML5, CSS, Javascript, PHP and MySQL. They have also been taught advanced web technologies like Bootstrap, Github repository etc. At the end of SDP session students have designed their website for given topic.

Total 56 participants attended the session from SE, TE of CE, IT and EXTC Department. The concluding remarks were given by Dr. Aparna Bannore, HOD of CE SIES GST. The session was well received with admiration by the students.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SRI CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



9. Software Design



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



Software Design Course Dec 16 to Dec 21, 2019

Click [here](#) to register

What skills do graduating students require when they enter the software industry? This is a pertinent question, especially in India where around 1.6 lakh students with a computer science degree enter the job market every year. To address this need, this course is designed to guide novices to learn the skills that are essential for a good software designer to solve complex software design problems.

About Instructors:

This course will be taught by a team of software design researchers from ITB and SIESGST faculty.

Course Objectives:

CO
To be able to formulate the problem by abstracting the data models, functional models of a given software design problem.
To be able to identify constraints, generate and evaluate alternative solutions based on a given constraints.
Explain the behaviour of a system using UML activity diagrams.
To create comprehensive and cohesive software conceptual design.
Evaluate the existing software design architecture.

Course Outcomes:

- To generate good quality software design architecture
- To be able to link various UML diagrams and test for effectiveness

Course Content:

Module	Contents	Hours
1.	Software design process In this module you will learn the phases of software design and the skills to be applied to formulate problem, generate alternative solutions, evaluate based on constraints and select.	8 hrs
2.	Object Oriented Analysis of Complex Problems using UML.	8 hrs



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDR SARASWATI VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



	In this module you will learn how to create a conceptual model of any system, know in which situations conceptual modelling is efficient and when and how to apply it successfully.	
3.	UML Architecture Diagrams In this module you will learn about software architecture. You will learn why architecture is important, what perspectives need to be considered, and how to communicate architecture using UML.	8 hrs
4.	Software conceptual design In this module you will learn to think and link different functions, behaviors and structures in design problem contexts, and apply this thinking in creating software designs.	8 hrs
5.	Software architecture quality evaluation In this module you will learn the relationship between different design diagrams by tracing different scenarios in the design.	8 hrs

Assessment:

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

SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in



Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



1.2.2 Assessment Procedure Computer Engineering 2018-19

1. Network Security & Ethical Hacking

Event Description

The design and implementation of energy efficient future generation communication and networking technologies also require the clever research. Advances in Computer Communications and Networks: from Green, Mobile, Pervasive Networking to Big Data Computing require strong base in the area of networking. Emerging threats emphasize the need for real-world assessment of an organization's security posture. To bring awareness to our students about this most sought field in the engineering domain a student development program on Network Security and Ethical Hacking was organized. This 5 days workshop was organized in collaboration with IT Company 9 th Legend.

Objectives:

- Learn about network concept and designing of network for organization.
- Hands-on experience of Ethical Hacking tools using Kali Linux.
- Practical real time demonstration of the latest Hacking Techniques, methodologies, tools.

Course Contents:

- Introduction to Computer Network and Security
- Routing and Switching protocol.
- Introduction to Ethical hacking, Network sniffing and spoofing tools.
- Exploitation tools- Metasploit, Google hacking, Malware and Steganography.

Total 19 students from SE/TE of (CE/IT) participated in the workshop and internship. Participants developed projects on the following topics as 15 days internship work

- 1) Title: Internet usage control using access control techniques.
- 2) Title: Network design proposal for Bank
- 3) Demonstration of SYN flood and DOS attack using hping3
- 4) Hacking Windows Xp system using Vulnerability of Adobe reader
- 5) Demonstrating password cracking tool from Kali linux.

Prof.Preeti Godabole also organized A talk by our alumni Mr.Shatavarth Cheruvu, UnotechSoft Ltd.(2015 batch), on 22/12/2018 on the topic Machine learning PIPELINE in order to give insight on phishing attacks and use of machine learning in it from industry perspective.

Impact Analysis: The student development program gave insight about various security peripheries in the organization and mechanism to protect the network security.

- The students were demonstrated with ethical manners to inspect the security measures established in organization.
- Students gained from this exposure to various tools used in the industry for penetration testing.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



2. Ethical Hacking & Security

Event Description

The department of Computer Engineering of SIES Graduate School of Technology, Nerul, Navi Mumbai has successfully organized and conducted one week student development program on Ethical hacking and Security for First year students of EXTC/CE/IT/MECH branch from June 10-15, 2019 with 15 days of internship.

OBJECTIVES AND GOALS: The main objective of this SDP was to give insight to the participants of ever expanding field of Internet/cyber security world. It is aimed to provide knowledge to the students on how to identify the security parameters and penetration level in any organization in ethical manner and mitigating threats.

The goal is to identify general methodology of performing penetration in the internet world, tools available in performing actions and mitigating the risk .

Outcomes:

As a result of successful completion of this workshop, participants will be able to

- Understand current cyber security threats
- Analyze traffic patterns associated with suspicious network behavior
- Select and configure various Open-Source tools for network security in Kali Linux.

Attendees:

First year engineering students from EXTC/CE/IT/MECH branch. Total 17 participants have attended the program.

Session: Major topics covered during the workshop are

- 1) Basics of Networking Hackby.Prof.Kalyani P
- 2) Scanning and sniffing using open source tools by Prof.SuvarnaChoure
- 3) Password cracking by Prof.SuvarnaChoure
- 4) Metasploit FrameworkProf.Aparna Bannore
- 5) Introduction to Blockchain : Dr. Rizwana Shaikh
- 6)SQLInjection,CSS and Malware detection by Prof.UjwalaRavale
- 7) Browser Exploitation by Dr. Vijay katkar

Mini projects: The students demonstrated the skills developed through various mini projects developed during the workshop.

The topics were Project 1) Metasploit: for hacking windows XP system using Kali linux

Project 2: Keyloggerkeylogger(windows OS)

Project3: Steganography using windows Os using Openstego

Project4: Angry Ip scanner(Windows OS)

Project5: Web vulnerability scanner :netSparkar

Project6: SQLmap using Kali Linux

Feedback:





1.2.2 Assessment Procedure Computer Engineering 2017-18

1. Ethical Hacking & Security

Outcomes:

- This SDP will give insight to organizations security parameters, threats and Solutions.
- This SDP will provide base for certificated ethical hacker, certified penetration tester.

Total 09 students enrolled for SDP demonstrated projects on the following topics completed during internship.

Project 1: Clone website to gain victim's passwords

2: Use the tool from kali Linux not covered during the SDP to demonstrate password cracking

3: Vulnerability testing for DOS attack

08 (TE CE and IT) +01 FE (Extc)



Faculty members who contributed: Aparna Bannore, Suvarna Chaure, Kalyani Pampattiwar, Ujwala Ravale, Preeti Godabole, Priyanka Kadam.

2. Web Application Security & Ethical Hacking

Five days SDP on Web Application Development and Ethical Hacking for SE students.

Total enrolment: 22 students (SE Extc, CE and IT)
Faculty members who contributed : Deepti Reddy, Sunil K. Panjabi, Aparna Bannore, Suvarna Chaure, Kalyani Pampattiwar, Ujwala Ravale
Students demonstrated projects on the following topics completed during internship.



- 1) Blood donation information management system:
- 2) Mentees information management system
- 3) Project Record keeping System
- 4) Project: Students Activity data management system
- 5) Project: Faculty Activity data management system
- 6) Project: Network issues Management system
- 7) Internship Record keeping System



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in

www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 10/E/5, SRI CHANDRASEKARENDRA SARASWATHY VIDYAPURAM
SECTOR V, NAVI MUMBAI - 400 706.



3. Linux Lamp Workshop

Event Description

CE department faculties have conducted 5 days student development program followed by internship. "Linux Lamp". Program was conducted .

Objective of the workshop was to bridge the gap between industry requirements and academic, specifically designed for Second year CE/IT/EXTC students.

participation:06(4(IT)+2(CE)) students attended the course and successfully developed and submitted project in a group or individually.

Students completed their projects during internship in SIESGST and presented their work to CE department faculties.

Certificates were given to students on successful completion and presentation of developed applications.

Feedback was collected and overall feedback shows students were satisfied with content and requested to conduct future SDPs

4. Data Mining with R



Workshop on data mining using R

Date: 11 - 15 Dec 2017

Speaker.: Prof. Pranita Mahajan, Prof. Prachi Shahane, Prof. Anindita Khade and Prof. Yashashree B. (SIESGST).

Duration: 5 days workshop followed by one month internship

OBJECTIVE AND GOALS:

Objective of the workshop was to bridge the gap between industry requirements and academic which will help students to get better placement opportunities.

SESSION:

CE department faculties have conducted five day student development program followed by one month internship, "Workshop on data mining using R" from 11 to 15 Dec 2017. Workshop was conducted by Prof. Pranita Mahajan, Prof. Prachi Shahane, Prof. Anindita Khade, Prof. Yashashree B. Objective of the workshop was to bridge the gap between industry requirements and academic.

ATTENDANCE & INFRASTRUCTURE:

16 students registered for the workshop and 4 students attended the course and successfully developed and submitted project in SIESGST.

During internship students build two applications which were presented in front of CE faculties and principal Dr. Vikram patil. Certificates were given on successful implementation and presentation of internship work. Projects developed were Campus placement advisor and Student Semester Grade Prediction Based On His Semester Attendance

Projects developed

1. Campus placement advisor
2. Student Semester Grade Prediction Based On His Semester Attendance



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax.: 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRA SARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



5. Python Programming Workshop

ATTENDANCE & INFRASTRUCTURE:

This event was attended by 35 Students of TE and SE of CE,IT and EXTC..

FEEDBACK:

The workshop had an overwhelming response from the students who displayed immense interest in learning and for each session the python assignments were give to the students and submitted for evaluation.

IMPACT:

After doing the workshop on "Python Programming", many students registered for "Machine Learning with R" workshop by SIES GST.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal



1.2.2 Assessment Procedure Computer Engineering 2016-17

1. Linux Lamp Workshop

Event Description
<p>CE department faculties have conducted 5 days student development program followed by internship, "Linux Lamp". Program was conducted.</p> <p>Objective of the workshop was to bridge the gap between industry requirements and academic.</p> <p>23 students attended the course and successfully developed and submitted project in a group or individually.</p> <p>Students completed their projects during internship in SIESGST and presented their work to CE department faculties.</p> <p>Certificates were given to students on successful completion and presentation of developed applications.</p> <p>Feedback was collected and overall feedback shows students were satisfied with content and requested to conduct future SDPs</p>

2. Data Mining with R

ATTENDANCE & INFRASTRUCTURE:

17 students attended the course and successfully developed and submitted project in a group of 4 students. The developed applications are Placement data analysis and job recommendation system based on skills, Attainment Level Automation, Academic Performance Indicator, Random Question Paper Generator. Workshop was conducted from 5th June to 9th June in SIESGST Nerul. 30 days Internship was conducted during June 2017 – July 2017. dataminingsies@googlegroups.com google group was created to communicate with workshop participants.

Projects Undertaken during Internship

NAME	PROJECT NAME
Ashish gupta	Placement data analysis and job recommendation system based on skills
Kaustubh Kulkarni	Placement data analysis and job recommendation system based on skills
Prasad Lad	Placement data analysis and job recommendation system based on skills
Palak patel	Placement data analysis and job recommendation system based on skills
Shwetha Srinivasan	Attainment Level Automation
Vairam Dheepa	Attainment Level Automation
A. Tejaswee	Attainment Level Automation
Kunal Dashpanda	Attainment Level Automation
Nisha Chandran	Academic Performance Indicator
Gayathri Nadar	Academic Performance Indicator
Mahalakshmi Thevar	Academic Performance Indicator
Ratna Mudaliar	Academic Performance Indicator
Rajeshwari Kulandai	Academic Performance Indicator
Mohit Murai	Random Question Paper Generator
Sheshan Shekar	Random Question Paper Generator
Shreyas Ramanathan	Random Question Paper Generator
Srivatsan Kothandraman	Random Question Paper Generator
Ashwini Menon	Assisted during Lab session



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
 Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
 PLOT 10/D/E, SRI CHANDRASEKARENDRASARASWATHY VIDYAPURAM
 SECTOR-V, NERUL, NAVI MUMBAI - 400 706



1.2.2 Assessment Procedure Information Technology 2019-20

1. Skill Development Training

Event Description

IETE Students' Forum of SIES Graduate School of Technology, Nerul, conducted a student development program on Skill Development Training. It was conducted by Prof. Savita Lohiya, Prof. Saritha L.R., Prof. Stuti Ahuja and Prof. Amit Pandhare from June 15-26, 2020 for the Students of TE/BE IT/CE/EXTC.

This Student development program was divided into five modules, Module one was Object Oriented concepts and Programming with Java in which basic concept of java taken which are important for placement point of view like inheritance, polymorphism, classes and objects are taken. In second module fundamental concepts in Database Management Systems and SQL is taken.

In third module basic data structure concept such as stacks, Queues, linked lists, collections are taken. In this module advanced concept like Algorithms and Complexity is also taken which is very important topic from placement point of view. Fourth module is dedicated for Aptitude training which is very important topic for placements. In this module different practice session is organized for students.

The last of the session was focused on case mini project where each students have to complete mini project at Home and give online presentation.

2. Data Mining and Analytics

Event Description

IETE Students' Forum of SIES Graduate School of Technology, Nerul, conducted a student development program on Data Mining and Analytics. It was conducted by Prof. Mrinal Khadse and Prof. Seema Redekar from June 15-26, 2020 for SE/TE IT/CE students.

On the first three days of sessions, the topics such as basic introduction to Data mining, Regression Analysis, Classification etc were covered. The students were introduced with the concepts of Data Mining Techniques such as Market Basket Analysis, Association rules, Apriori algorithm and Clustering. They were taught concepts such as classification, clustering, regression etc. with programming examples using R/ Python to solve and understand.

Following were the contents of course:

Module 1: Basic Introduction of Data Mining.

Module 2: Regression Analysis: Linear regression (Th+Pr)

Module 3: Classification: Attribute Selection Measures : Decision Tree (Th+Pr)

Module 4: Data Mining Techniques: Association: Market Basket Analysis, Frequent Itemsets.

Module 5: Association Rules; Frequent Pattern Mining, Apriori Algorithm (Th +Pr)

Module 6: Clustering: Partitioning Method : K-Means (Th+Pr)

Module 7: Case Studies : Data analytics case studies.

Module 8: Mini Project Implementation.

The rest of the session was focused on case studies based on data analytics and ended with the demonstration of already implemented real-world problem statements. The students were each given various exercises and project problems to solve at home.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in

www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHI VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



3. CCNA Routing and Switching

Event Description

This certification course is designed to impart knowledge about the fundamentals of Computer Networks, various protocols used in Communication, Managing and configuring Cisco Switches and Routers. It is also designed to give exposure on building a Network. The course has been divided into four modules.

Module 1: Introduction

Module 2: Configuration of Router and Switch.

Module 3: Implementation of DHCP, ACL, NAT, PAT etc.

Module 4: Password Recovery, Backup of running config to startup config.

Module 1: This module covers the basic introduction on Networking, types of Computer Networks, OSI model, TCP/IP model, IP addressing, Subnet mask problems on IP addressing, subnet mask. (Total -5 hrs)

Module 2: In this module students learnt the basics commands on router using Cisco packet tracer, configuration of routers, Static and Dynamic Routers, Switch configuration.

(Total-16 hrs)

Module 3: Students have been implemented Standard ACL, Extended ACL, Static NAT, Dynamic NAT, DHCP(Total -12 hrs)

Module 4: The last module covers the Password Recovery, Backup of running config to startup config, Trunking, ARP and EIGRP protocols(Total -7 hrs)

The course has been conducted for SE/TE/BE of EXTC/IT/CE students. Total 17 students have enrolled for the course and 11 students have successfully completed and cleared the exam.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHI VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



1.2.2 Assessment Procedure Information Technology 2018-19

1. Machine Learning with R

5 days Student Development Program on "Machine Learning with R"

Status : Ongoing, Internship will start in the month of Dec 2018

Date: August 04, August 11, August 17, September 20, September 27, 2018

Trainers: Prof. Pranita Mahajan, Prof. Varsha Mali (SIESGST)

Duration: 5 days workshop followed by one month internship

OBJECTIVE AND GOALS:

This student development program aims at providing participants with the latest and general-purpose machine learning algorithms. At the same time, the training aims to deliver some common threads, or a common knowledge base, which can be used in the future for learning a wide range of algorithms.

SESSION :

CoE-DSDP faculties have conducted five days student development program on "Machine Learning with R" with following content,

Module 1: What is Machine Learning?

Module 2: Performance measures

Module 3: Classification, Regression – Linear and logistics

Module 4: Clustering

Module 5: Prediction, Support Vector Machines, PCA

Project Implementation

ATTENDANCE & INFRASTRUCTURE:

Around 20 students registered for the SDP. Out which 13 students attended this SDP. During this SDP daily Assignments were given and day wise feedback has collected. Students are also assigned Machine Learning Projects

2. Machine Learning with Python

5 days Student Development Program on "Machine Learning with Python"

Status : Ongoing, Internship will start in the month of Dec 2018

Date: August 04, August 11, August 17, August 25, September 01, 2018

Trainers: Prof. Shyamala Mathi, Prof. Rupal M, Prof. Vaishali Bhujade, Prof. Varsha Mali , Dr. Vijay K(SIESGST)

Duration: 5 days workshop followed by one month internship

OBJECTIVE AND GOALS:

This student development program aims at providing participants with the latest and general-purpose machine learning algorithms. At the same time, the training aims to deliver some common threads, or a common knowledge base, which can be used in the future for learning a wide range of algorithms.

SESSION :

CoE-DSDP faculties have conducted five days student development program on "Machine Learning with R" with following content,

Module 1: What is Machine Learning?

Module 2: Performance measures

Module 3: Classification, Regression – Linear and logistics

Module 4: Clustering

Module 5: Prediction, Support Vector Machines, PCA

Project Implementation

ATTENDANCE & INFRASTRUCTURE:

Around 30 students registered for the SDP. Out which 28 students attended this SDP. During this SDP daily Assignments were given and day wise feedback has collected. Students are also assigned Machine Learning Projects



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in

www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR V, NERUL, NAVI MUMBAI - 400 706.



1.2.2 Assessment Procedure Information Technology 2017-18

1. Advanced JAVA

Report on 5 days SDP on Advanced Java

Name of resource persons: Prof. Mrinal Khadse, Prof. Seema Redekar, Prof. Amit Pandhare

Name of the Coordinators: Prof. Seema Redekar,

Academic Year: 2017-2018

Date : December 18-22, 2017

Brief Description : The Student Development Program was organized by Department of Information Technology, SIES Graduate School of Technology from December 18-22, 2017. This development program is meant to revise fundamentals of Object Oriented Programming and to learn Advanced Java concepts. It is also designed to give exposure on building a Java based applications. It was open for third year students of IT, CE and EXTC department.

Objectives of the programme were

1. Revise basic Java concepts
2. Design and connecting frontend with backend
3. Learning Advance Java topics

2. Python Programming

STUDENT DEVELOPMENT PROGRAM ON "PYTHON PROGRAMMING"

Computer an I.T. department announced student development program on from 20th January, 2018, for the third year students. This workshop would enable the students to develop productivity tools, games, and desktop apps.

more than 100 students registered for the workshop, but only first 70 registrations were considered for the admission.

The workshop was divided into 5 sessions, covering from python basics, python advanced ,data structures in python, GUI and database in python and concluding with the networking in python.

The workshop was conducted on Saturdays from 20th January, 2018 through 17th April, 2018.

The faculties involved in the work shop were Ms.Masooda Modak, Dr. Rizwana Shakh, Ms. Kranti Bade, Ms. Varsha Mali and Dr. Vijay Katkar.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



3. Designing and Managing Database

**Report on Student Development Programme on
“Designing and Managing Databases”**

Name of resource persons: Prof. Savita Lohiya , Prof. Saritha L.R., Prof. Bushra Shaikh, Prof. Stuti Ahuja

Name of the Coordinators: Prof. Stuti Ahuja

Academic Year: 2017-2018

Date: 11th to 15th June, 2018

Brief Description:

The Student Development Program was organized by Department of Information Technology, SIES Graduate School of Technology from June 11 to 15, 2018. This student development program is meant to revise the basics concepts of Database Management System and to design the relational model for a given problem. This program mimics the development of a “real” database by designing a conceptual model in the form of an Entity Relationship diagram and translating the conceptual model into a relational schema. Hands-on session of SQL for four days is conducted to implement the application using SQL/MySQL for designing backend.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@sjesgst.ac.in

www.siesgst.edu.in


Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



Graduate School of
Technology

SIES

RISE WITH EDUCATION

1.2.2 Assessment Procedure Mechanical Engineering 2019-20



SIES

RISE WITH EDUCATION

Graduate School of
Technology

SIES Graduate School of Technology
Sri Chandrasekarendra Saraswati Vidyapuram
Sector 5, Nerul, Navimumbai-400706

Department of Mechanical Engineering

Assessment Report

1. Heat Transfer and Fluid Flow Analysis using Ansys Fluent (22/06/2020 -03/07/2020)

Event Description

A SDP was organized by mechanical department. The topic of SDP was "Heat Transfer and Fluid Flow Analysis using ANSYS Fluent". The SDP was planned on 22/06/2020 for students of SIESGST Mechanical Engineering. Total number of participants registered for the SDP were 29 and total 15 participants attended the session. The SDP duration is for Two Weeks and its hands-on training given on ANSYS Fluent Software. With Industry based live case studies were taught during this session by Faculty Members.

The objective of this course is to teach ANSYS basics in the following areas: ANSYS capabilities, terminology, and ANSYS Interactive (GUI). How to build Finite Element Models in ANSYS. Basic steps of performing a complete ANSYS analysis. Meshing Techniques Results Post processing and Validation

2. Assessment

All the 15 Students were present for the SDP out of 29 Registered students, since this SDP is on ANSYS Software which required high end Computer to run the simulation. Certificate is issued to all 15 candidates after successful completion of assignment at the end of the course.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/E/E, SRI CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR V, NERUL, NAVI MUMBAI - 400 706.



**2. Industrial drawing and modeling using AutoCAD and Solid works
(22/06/2020 -03/07/2020)**

Event Description

A SDP was organized by mechanical department. The topic of SDP was "Industrial drawing and modeling using AutoCAD and Solid works". The SDP was planned on 22/06/2020 for students of SIESGST Mechanical Engineering. Total number of participants registered for the SDP were 32 and total 18 participants attended the session. The SDP duration is for Two Weeks and its hands-on training given on AutoCAD and Solid Works Software. With Industry based live case studies were taught during this session by Faculty Members.

The objective of this course was to give our students exposure to the actual drawings used in Industries.

2. Assessment

All the 18 Students were present for the SDP out of 32 Registered students, since this SDP is on Solid works Software which required high end Computer. Certificate issued after successful completion of project to all the attendees.

3. SDP on Modelling Robot Kinematics using Python Programming

Event Description

Internship program for students was organized during the summer vacation for students of all branches. The program was interdisciplinary and required no prerequisite knowledge to students. The SDP was arranged with the following objectives:

1. To gain knowledge of Python programming language
2. To perform programming of robot
3. To study the parameters of motion in kinematics robotics
4. To study various design principles of robotics through kinematic analysis, workspace analysis, and trajectory planning

All the 46 Students were present for the SDP out of 46 Registered students. Certificate issued to all 46 candidates after successful completion of the assignment during the course.





SIES

**Graduate School of
Technology**

RISE WITH EDUCATION

1.2.2 Assessment Procedure Mechanical Engineering 2017-18



SIES

**Graduate School of
Technology**

RISE WITH EDUCATION

**SIES Graduate School of Technology, Nerul
Mechanical Engineering Department**

Assessment Report

PLC Programming From Scratch

21-25 June 2018

In this course 20 students have registered and successfully completed the project at the end of the course. Certificates issues to all candidates at the end of the course.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/D/E, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.



1.2.2 Assessment Procedure Humanities and Applied Sciences 2019-20

1.2.2 FE Courses Offered 2019-20

1. Enhancing Professional Communication:

Event Description

15 of 30 registered students from FE and SE attended all sessions, regularly for two weeks. Students were given daily assignments, after each session, to help them practise and apply the concepts, through case study/activities. Additionally, Google Quiz and Team Presentations were conducted, in the end, to gauge the students' understanding and learning of the nuances of Professional Communication. Day wise topic and activity is mentioned as under:

Day 1: Basic Communication Skills- Importance of LSRW – The first day started with introduction of the concept of Basic Communication Skills and importance of LSRW in enhancing communication skills. The emphasis was to make the students understand the LSRW are equally important and in order to enhance communication skills.

Day 2: Importance of Listening- The content for the second day was listening. Various activities related to listening were conducted and then it was explained the importance of listening in enhancing communication.

Day 3: Effective Speaking Skills - Importance of Non-verbal Communication- Non-verbal communication is integral part of communication skills, and the same was explained to the students with the help of some free source YouTube videos and conducting activities along with explanation of the meaning of non-verbal communication in speaking skills.

Day 4: Reading to Understand- This session explained different reading strategies and techniques to improve reading skills. The students were given activities related to reading and comprehension.

Day 5: Writing to Express- Different nuances of writing e.g. technical writing, formal writing and informal writing were explained and tips for writing effectively were explained. The students were also given some writing exercises.

2. Universal Human Values:

Event Description

Student Development Program on Universal Human Values was designed in order to introduce students to the Values which are Universal in Nature. This SDP helped students to gain the knowledge which was not imparted in any classroom and it is very important throughout life. In new Education Policy it is recommended as a mandatory subject. Students were able to understand the difference the desires of Self and Physical facility, the importance of Relationship in our life, what is Harmony, how to become happy by being in Harmony with Self, Family, Society and Nature, Human values like Trust, Respect, Affection Care, Reverence, Gratitude, Guidance, Love etc

The main Objectives of this SDP are

- 1) Understand what are the desires of Self and Body
- 2) Understand What is Harmony
- 3) Understand How to live in Harmony with Self, Family, Society, Nature
- 4) Understand Trust, Respect, Affection Care, Reverence, Guidance, Gratitude, Love
- 5) Understand How to overcome Stress, Anxiety, Anger, Fear, Frustration

This SDP on UHV was a 10-day program with 2 sessions each day which covered a large aspect of human values by conducting interactive sessions, assignments, fun activities and special sessions by guest speakers. Assignments and tasks were assigned in relation to topic or mantra of the day.



SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY
PLOT 1C/1/5, SIR CHANDRASEKARENDRASARASWATHY VIDYAPURAM
SECTOR-V, NERUL, NAVI MUMBAI - 400 706.