

List of SDP A.Y. 2017-18

- Ethical Hacking & Security
- Web Application Security & Ethical Hacking
- Linux Lamp Workshop
- Data Mining with R
- Python Programming Workshop
- Advanced Java
- Python Programming
- Designing and Managing Database
- PLC Programming From Scratch

Department of Computer Engineering



One week Student development
program on Ethical Hacking and
Security

From Dec 11-15, 2017

Report :

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 Third year students of EXTC/CE/IT branch from Dec 11-15, 2017.

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:

Third year engineering students from EXTC/CE/IT branch. Total 11 participants have attended the program.

Session: Major topics covered during the workshop are



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SIES Graduate School of Technology

Center of Excellence: e-Security

Organizing

Student Development Program and Internship

5 days Hands on Training on

Web Application Security and Ethical Hacking

June 11 to 15, 2018, 9.30 AM to 5.00 PM

Web Application security and Ethical hacking is an emerging field used by most of the organizations for testing organizations network security. Emerging threats emphasize the need for real-world assessment of an organization's security posture. Ethical hackers perform security measure on behalf of the organization owners. To bring awareness to our students about this most sought field in the engineering domain we are providing the platform by arranging a student's development program on Web Application Security and Ethical Hacking.

Objectives:

- Learn about Web application and Network security
- Hands-on experience of Ethical Hacking tools using Kali Linux.
- Practical real time demonstration of the latest Hacking Techniques, methodologies, tools, and security measures.

Course Contents:

- Introduction to framework for Web application development
- Introduction to Web Application Security and Ethical hacking
- Network sniffing and spoofing tools.
- Exploitation tools- Metasploit , Google hacking
- Malware Analysis, Firewall and Intrusion Prevention System .

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, Suvama 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



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Day wise schedule

Day	Session1 9:30-11.00	Session2 11:30-1.00	Session3 1.45 - 3:30	Session 4 4:00-500	feedback
Day1 11	Introduction to Web application security DPR	HTML,	Java Script	Lab work	
Day2 12	BootStrap	continued	PHP, MySQL and XAMPP	lab	
Day 3 13	OWASP DPR	Sql injection UNR	Cross site scripting Attack KNP	Websplyer tool Lab work KNP	
Day4 14	Introduction to security Ethical hacking Aparna Bannore	Initial Commands demonstation and handson 1)Dig 2)whois 3)traceroute 4)ifconfig	Sniffing using wireshark Tcpdump +Assignment on sniffing Suvarna VChaure	Assignment on sniffing SVC	
		AMB+SVC			
Day5 15	Installation of kali linux and Hydra SVC	Hacking windows system using Kali linux Metasploit AMB	GUI tool AMB	Lab work	



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Department of Computer Engineering

Student Development Programme on LAMP

20-24 Dec 2017

CE department is announcing student development program from 20- 24 DEC 2017 specifically designed for **Second year** CE/IT/EXTC students. Interested students can contact Prof.NamrataPatel

OBJECTIVES

1. Learn Fundamentals of Linux and Networking Commands
2. Understand how server-side programming works on the web
3. Create a database in PhpMyAdmin
4. Create a Website

WHO WILL BE BENEFITED?

1. Students who want to develop an Web Application on Linux Platform
2. Students would be benefited from learning Linux and its features for embedded system

PREREQUISITE

Basics of HTML

OUTCOMES

Learner will be able to:

1. Understand Installation Procedure of Linux OS
2. Basic and Advance Commands in Linux OS
3. Install Apache server and MySQL on Linux OS
4. Develop an end-to-end application in PHP

CONTACT PERSON

Prof. Namrata Patel
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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.

ATTENDENCE & 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

Predicting and analysing in which company a student might get placed based on the technical skills known by the student.

Every year companies come to colleges in order to recruit students. Recruitment is one of the most essential processes for any organization as they look for skilled and qualified professionals to fill up the positions in their organization. Many companies hire students through campus recruitment process. Campus recruitment is an efficient way to get the right resources at the right time with minimal cost and within minimum time frame. The main aim of this project is to



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Workshop on data mining using R
CE department
Tentative Schedule

Day	Activity
Day 1	Theory session 1: Introduction and preliminaries System requirement Installation Understanding R Environment Packages and libraries Basics of R programming
	Theory session 2: Variables and operators <ul style="list-style-type: none"> • Vectors • Objects • Operators in R • Decision making and looping in R R Functions <ul style="list-style-type: none"> • Inbuilt functions • User defined functions
	Lab Session 1
Day 2	Theory session 3 : Data acquisition Reading file <ul style="list-style-type: none"> • CSV • Text • Binary • Excel • XML
	Theory Session 4: Statistical analysis with R <ul style="list-style-type: none"> • Mean , median, mode • Regression • Distribution
	Lab session 2
	Theory session 5 : Data Mining with R Clustering <ul style="list-style-type: none"> • Partitional clustering • Hierarchical clustering Classification <ul style="list-style-type: none"> • Statistical based classification • Decision tree based classification
	Theory session 6 : Prediction



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Day 3	Application of classification algorithm for prediction
	Lab Session 3
Day 4	Theory session 7 : Data Visualization with R <ul style="list-style-type: none"> • Introduction to R graphics • Different plot types • Adding details to plot
	Theory session 8 : ggplot with R <ul style="list-style-type: none"> • Exporting graph • Advance plot customization
	Lab Session 4
Day 5	Theory session 8 : Shiny package in R Installing and using package Shiny R
	Theory session 9 : Designing interactive web apps from R using Shiny R
	Lab Session 5

Workshop will be followed by one month internship in which group of three students will development an application using R.



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Python Programming Workshop

Date : from 20th January, 2018 to 17th April, 2018

Day : Saturdays

Resource Persons: Ms. Masooda Modak, Dr. Rizwana Shaikh, Ms. Kranti Bade, Ms. Varsha Mali, Dr. Vijay Katkar

Duration : 9:30 onwards

OBJECTIVE AND GOALS:

Objectives of the workshop

- Develop a basic understanding of Python programming language.
- Build simple web applications that include a database to manage user data.
- Effective use of common developer tools and implementation of best practices to write professional-quality code.
- Creation of programming projects from scratch using in-demand skills and technologies.

SESSION :

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



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Department of Information Technology

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

Contents of the programme were

Module 1: Revision of Basic Java concepts.

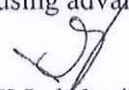
Module 2: Design Graphical User Interface using Applet, AWT and Swings.

Module 3: Java database connectivity using JDBC.

Module 4: Introduction to Hibernate, Spring, Struts.

There were 8 students from all the departments.

After attending this SDP the participants could use the knowledge and developed applications using advance java concepts.


K. Lakshmisudha

HoD

Information Technology

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SDP ON ADVANCED JAVA

Schedule

Day	Date	Time	Topics	Resource person
Day 1	18/12/2017	9:00-12:30	Basic java concepts.	Prof. Seema R.
		1:30-5:00	Basic java concepts.	
Day 2	19/12/2017	9:00-12:30	GUI Design-Applet,	Prof. Seema R. Prof. Mrinal K.
		1:30-5:00	GUI Design- AWT	
Day3	20/12/2017	9:00-12:30	GUI Design- Swing	Prof. Amit P. Prof. Mrinal K.
		1:30-5:00	JDBC: Introduction, JDBC features, JDBC Drivers.	
Day 4	21/12/2017	9:00-12:30	Introduction to Spring Framework	Prof. Seema R. Prof. Amit P.
		1:30-5:00	Mini projects	
Day 5	22/12/2017	9:00-12:30	Introduction to Hibernate Framework , Introduction to Struts	Prof. Amit P. Prof. Mrinal K.
		1:30-5:00	Mini projects	



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Department of Information Technology
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.

Objectives:

1. Revise basics of Database Designing concepts.
2. Implementing the relational schema in MySQL.
3. Populating the database.
4. Querying and modifying the database by SQL statements.

Contents:

Module 1: Fundamental Database Concepts, the Entity Relationship (ER) Model and EER model

Module 2: DDL and DML statements, Integrity constraints

Module 3: Aggregation Joins, Nesting of Queries.

Module 4: Views and Transaction Control Commands.

Mini Project Implementation

There were 7 students from CE and IT departments.

After attending this SDP the participants could use the knowledge and develop applications using Database management concepts and relational model tool SQL.

K.Lakshmisudha

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Department of Information Technology
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K.Lakshmisudha

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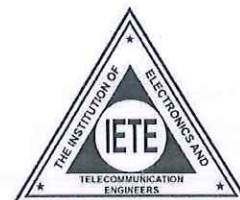
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SIES Graduate School of Technology
Department of Computer Engineering
And Information Technology

Organizing

Hands on Training on Python Programming

From 20 Jan 2018 [Every Saturday: 9.30 AM to 5.00 PM]

Python is open source programming language, with characteristics such as easy to learn, portable, platform independent, supports procedural as well as object oriented language. Python is great for backend web development, data analysis, artificial intelligence, and scientific computing. Now a day's many developers have also used Python to build productivity tools, games, and desktop apps.

Objectives:

- Develop a basic understanding of Python programming language.
- Build simple web applications that include a database to manage user data.
- Effective use of common developer tools and implementation of best practices to write professional-quality code.
- Creation of programming projects from scratch using in-demand skills and technologies.

Course Contents:

- Introduction to basic python programming
- File Handling
- Database Connectivity
- Graphical User Interface
- Network Programming
- Mini Project

Who Should Attend:

Any student from TE (All branches)

Outcomes:

- This SDP will give insight to all aspect of Python programming language
- This SDP will help the students to develop applications in various domains

Contact for Registration:

Prof. Masooda Modak
9833161007

Note: Course is free of cost.



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Day wise Schedule of Workshop

Sr.no	Day	Topics Planned
1	Day 1-First Half	<ul style="list-style-type: none"> • Python Overview • Environment Setup, Basic Syntax • Variables and types, Operators • Decision Making • Loops • Mathematical functions • Strings
	Day 1-2 nd Half	<ul style="list-style-type: none"> • Lists • Tuples • Dictionaries • Functions
2	Day 2-First Half	<ul style="list-style-type: none"> • Lists • Tuples • Dictionaries • Functions •
	Day 2-2 nd Half	<ul style="list-style-type: none"> • Modules • File Input/Output
3	Day3-First Half	<ul style="list-style-type: none"> • Exception Handling • Object oriented Concepts
	Day3-2 nd Half	<ul style="list-style-type: none"> • INTRODUCTION TO PHP • BASICS OF PHP
4	Day 4-First half	<ul style="list-style-type: none"> • HANDLING HTML FORMS • INTRODUCTION TO ARRAYS • INTRODUCTION TO STRINGS • FILE AND DIRECTORY HANDLING
	Day4-2 nd Half	<ul style="list-style-type: none"> • PHP DATABASE CONNECTIVITY • SECURITY AND AUTHENTICATION
5	Full Day	<ul style="list-style-type: none"> • MINI PROJECT



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Organize a
5 days Hands on Training on
PLC Programming From Scratch
21-25 June 2018

Now a days, programmable logic controllers(PLC) are an elementary component of state-of-the-art automation solutions. Intelligent solutions are not based on a conflict between these systems, but on unity. With important advantages like, robustness and easy handling, the PLC continues to guarantee its success. Further development will be dependent on more & more steadfast integration of information & communication technology. For the engineering processes, the integrated workflow will covers all engineering tools for production. This require transparency of the data flow between a company's production processes and its business processes.

This training program is meant to be a hands-on type course, giving students opportunity to work on Allen Bradley PLC and Learn various methods of PLC programming. This course is designed to equip the novice with no prior PLC programming experience with the basic tools necessary to create a complete PLC program.

OBJECTIVES

- To provide knowledge levels needed for PLC programming and its operating.
- To train the students to create ladder diagrams from process control descriptions.

COURSE CONTENT

- Introduction to PLC and its types
- Learning PLC programming using Ladder Diagram using the Rockwell software RSLogix 500
 - Basic Inputs and Outputs
 - Fundamentals of the Scan Sequence
 - Understanding Bits and Instructions
 - Basic Instruction XIC, OTE and XIO
- Different Task will be given to students related to PLC Programming

WHO SHOULD ATTEND

Any student from SE/TE (EXTC/MECH/IT/CE/PPT) – Entry for only first 20 students

Course Fees

Free of charge

Contact for Registration

Prof. Abhishek Kadam
Mobile: 9730032260
Email ID: kadam.abhishek@siesgst.ac.in

Dr. Pradip P Patil
Mobile: 9869829395
Email ID: pradip.patil@siesgst.ac.in

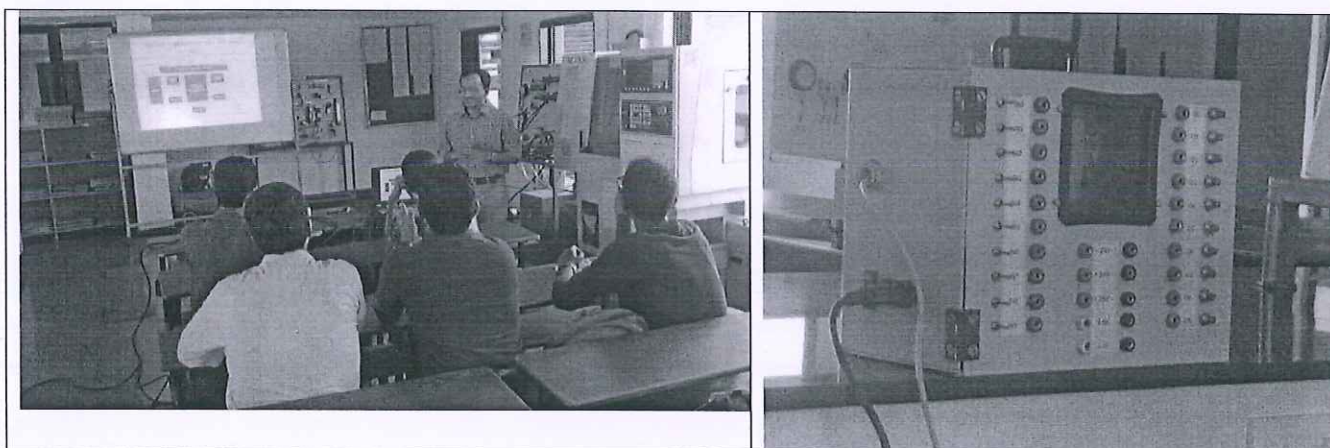

Head of Department
Mechanical Engineering Department
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Sri Chandrasekarendra Saraswati
Sector-V, Nerul, Navi Mumbai-400706

SCHEDULE					
Date	Day 1	Day 2	Day 3	Day 4	Day 5
Resource person	Abhishek Kadam	Abhishek Kadam	Abhishek Kadam	Abhishek Kadam	Pradip P. Patil
Time	10:00 AM	10:00 AM	10:00 AM	10:00 AM	10:00 AM
Morning	Learning PLC programming using Ladder Diagram using the Rockwell software RSLogix 500 Basic Inputs and Outputs	Fundamentals of the Scan Sequence	Understanding Bits and Instructions	Basic Instruction XIC, OTE and XIO	Interfacing with Hydraulics and Pneumatic Kit
	Assignment/ Activity				
Afternoon	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500	Hands on practice on Rockwell software RSLogix 500 and Pneumatic Kit

Photographs:



Report:

A SDP was organized for the Mechanical Engineering student **from** 21 June 2018 to 25 June 2018. The SDP was conducted by Prof. Abhishek Kadam and Dr. Pradip P. Patil on the topic “PLC programming from scratch” in Mechatronics lab in Mechanical Engineering Department. Altogether 15 students were present for the workshop. The workshop consists of live problems of various domains such as Hydraulics and pneumatics. The detail analysis of the feedback is given below:

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 Mechanical Engineering Department
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