

SIES Graduate School of Technology

**Department of Computer Engineering
Organizes**

**Hands on Training on
Software Design**

16 – 21 Dec, 10 AM to 4.00 PM

Who will be benefited?

Students who want to learn skills necessary for software design.

Prerequisite

Data Structures

Objectives:

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

Outcomes:

By the end of the course, the learner can:

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

Contact for Registration:

Dr. Deepti Reddy

deepti.reddy@siesgst.ac.in

9323420286

Note:

1. Workshop is free of cost for SIES GST students
2. Workshop is for all branches of engineering

Day wise Schedule of Workshop

Day	Activity
Day 1 16/12/2020	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.
Day 2 17/12/2020	Object Oriented Analysis of Complex Problems using UML 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.
Day 3 18/12/2020	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
Day 4 19/12/2020	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.
Day 5 20/12/2020	Software architecture quality evaluation In this module you will learn the relationship between different design diagrams by tracing different scenarios in the design.
Day 6 21/12/2020	Discussion and Project Assignment



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



Department of Computer Engineering

Event Report

Student Development Program Software Design

Event Information

Event Type: Workshop followed by internship

Event Title: Software Design and Internship

Resource Person:

Dr. Deepti Reddy (Associate Professor, SIESGST)

Mr. Prajish P (Research Scholar, IITB)

Ms. T.G. Lakshmi (Research Scholar, IITB)

Prof. Sunil K Punjabi (Assistant Professor, SIESGST)

Event Date: 16 – 21 December 2020

Organized for: Students

Organized by: CE Department

Target Audience (Branch & Nos.): Undergraduate Students

Number of students registered- 23

Number of students completed the course- 21

Attachments: 1. Photographs (JPEG/PNG)

2. Attendance Report

3. Feedback Report

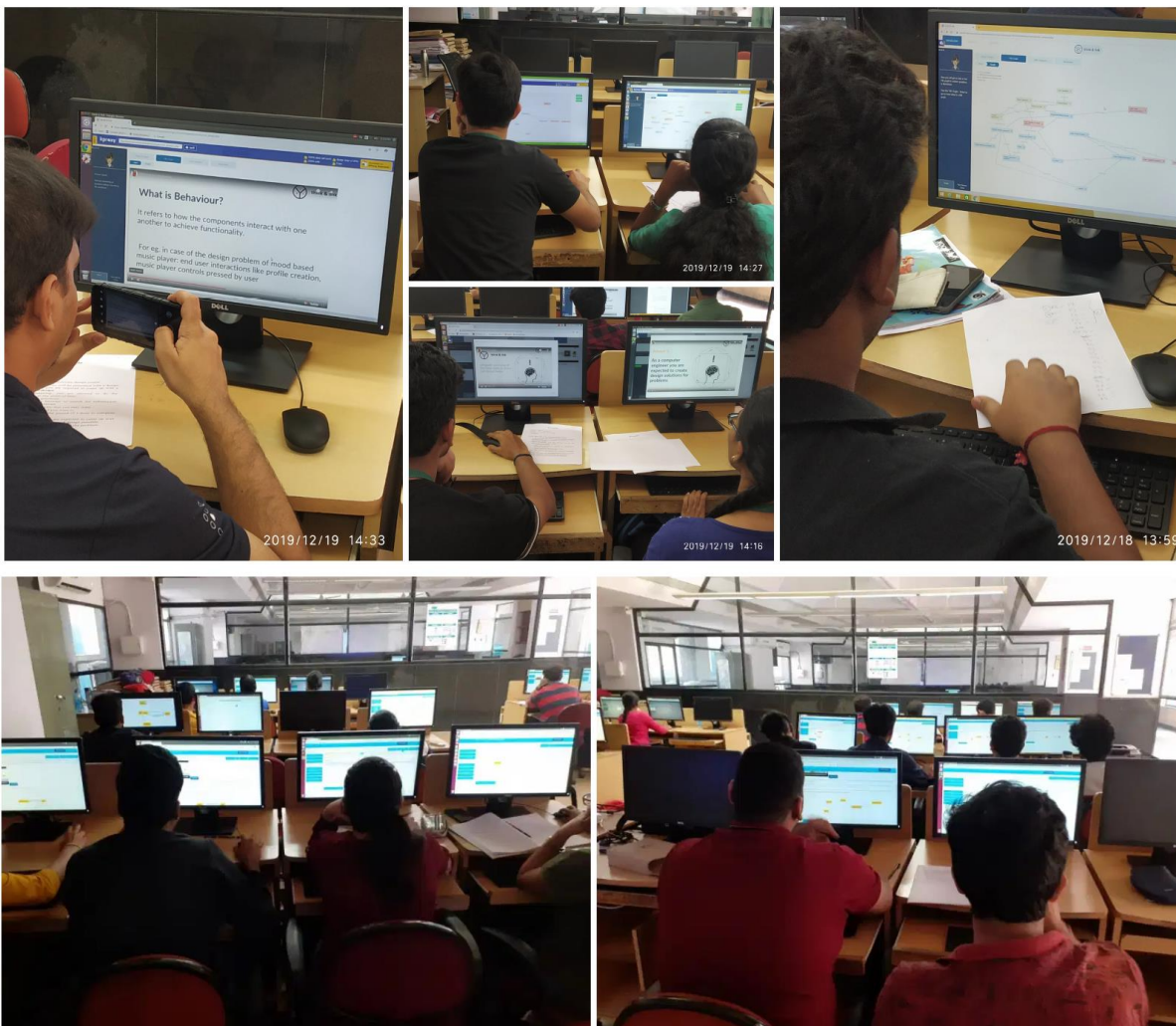
4. Sample certificate

Event Description

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.

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 software design.

1. Photographs (in JPEG/PNG):





Project Presentation

-Mahithasree saktikumar
--Adyasha mishra

Software designing
Farmer helper

Introduction

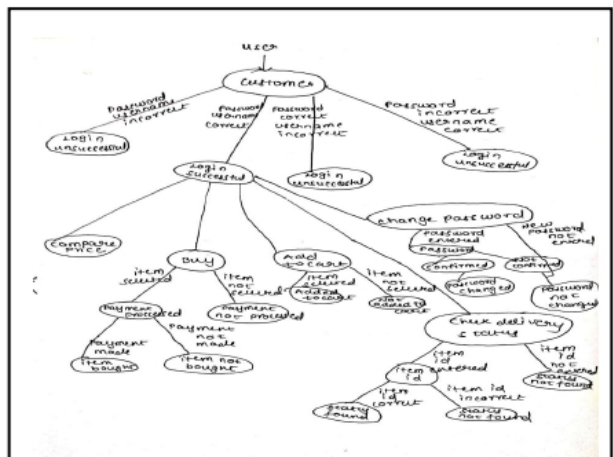
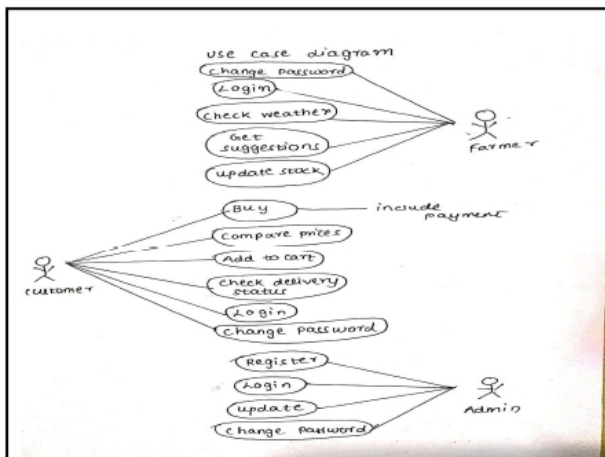
- **Abstract:** Farming is the Prime Occupation in India in spite of this, today the people involved in farming belongs to the lower class and is in deep poverty. The Advanced techniques and the Automated machines which are leading the world to new heights, is been lagging when it is concerned to Farming, either the lack of awareness of the advanced facilities or the unavailability leads to the poverty in Farming. Even after all the hard work and the production done by the farmers, in today's market the farmers are cheated by the Agents, leading to the poverty. Agro-marketing would make all the things automatic which make easier serving as a best solution to all the problems. E-farming will serve as a way for the farmers to sell their products across the country just with some basic knowledge about how to use the software. The software will guide the farmers.
- in all the aspects, the current market rate of different products, the total sale and the earned profit for the sold products, access to the new farming techniques through e-
- Learning, weather detection, plantation of appropriate crops according to the weather.

Why this system is required?

- Unawareness among farmers about the type of crop they should sow for maximum yield, due to lack of information and technological resources.
- It gives recommendation to the farmer of a particular region regarding which crop to grow at the current time for maximum profit and better yield.
- It can be built by using the dataset that had values about district wise, season wise crop yield for the past 15 years for training.

Requirements of the system

- Check weather
- Get suggestions
- Update stock
- Compare prices
- Check delivery status
- Register
- Login
- Update
- Buy
- Add to cart



2. Attendance and Feedback Report (Scanned copy):

Attendance:

Number of students registered- 23

Number of students completed the course- 21

List of registered students-

Name	College	
Yameeni Mahadev Mhaske	Pillai College Of Engineering, Panvel	
Adyasha Rama Chandra Mishra	SIES Graduate School of Technology	
Shreyas Ravindran Challiyil	Pillai College Of Engineering , New Panvel	
Mayur Gopan	Pillai College Of Engineering , New Panvel	
Nikhil Sabe	SIES Graduate School of Technology	
UDIYAR SANTHIYA RAMESH	SIES Graduate School of Technology	
Thevar Mahalakshmi Murugan	SIES Graduate School of Technology	
Surya Krishna	SIES Graduate School of Technology	
YAGNESH NARAYANAN	SIES Graduate School of Technology	
ANANDTEERTHA RAO	SIES Graduate School of Technology	
Shreya Khare	SIES Graduate School of Technology	
mahitha sree	SIES Graduate School of Technology	
SHARAN MURLI	SIES Graduate School of Technology	
Parulekar Girish Gunaji	SIES Graduate School of Technology	
Sujoy Banerjee	Terna Engineering College	
Sharma Nishant Shreegopal	SIES Graduate School of Technology	
Kaustubh Langade	Terna College Of Engineering.	
Kedar Sant	SIES Graduate School of Technology	
NIKHITHA JAYAPRAKASH	SIES Graduate School of Technology	
Atharva Vaidya	SIES Graduate School of Technology	
Tanuj Palaspagar	Terna Engineering College	
Ratish Shinde	SIES Graduate School of Technology	

List of students completed successfully-

SIES Graduate School of Technology, Nerul
Software Design Workshop

Attendance- Project Presentation

Group No.	Name	Project title	1/4/2020 Sign
Group 1 •	Mayur Gopan	SARAY AND ADR	Mayur
	Sujoy Banerjee	WOMEN SAFETY APP	Sujoy
	Shreyas C R		Shreyas
Group 2 •	Tanuj Palaspagar	DEPRESSION COPING SYSTEM &	Tanuj
	Kaustubh Langade	COUNSELLING SERVICES FOR MENTAL DISCOMFORTS	Kaustubh
Group 3	Sharan Murlu	E-Healthcare system	Sharan
	Girish Gunaji Parulekar		Girish
	Ratish Shinde		Ratish
Group 4	Nikhil Sabe	Safety App	Nikhil
	Udiyar Santhiya Ramesh		Udiyar
	Thevar Mahalakshmi Murugan		Thevar
Group 5 •	Kedar Sant		Kedar
	Suyra Krishna		Suyra
	Sharma Nishant Shreegopal		Nishant
Group 6	Yagnesh Narayanan	Movie Maker's Task	Yagnesh
	Anandteertha Rao	manager	Anand
Group 7	Atharva Vaidya		Atharva
Group 7	Shreya Khare	Safety and Security System	Shreya
Group 8	Nikhitha Jayaprakash		Nikhitha
Group 8 •	Adyasha mishra	farmer's Pntal	Adyasha
	Mahitha sree Sakthi Kumar	farmer's Pntal	Mahitha

75
76
77

SARAY AND ADR
" 73

Feedback analysis

Total 15 out of 21 students gave the feedback as shown below-

Survey of Workshop on Software Design Skills: UML Diagrams. (Responses) ☆ 📄 🔄

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1	A	C	D	E	F	G	H	I	J	K
2	Timestamp	Name	WORKSHOP CONTENT I was well informed about the objectives of this workshop.	WORKSHOP DESIGN The workshop objectives were clear to me.	The workshop activities stimulated my learning.	The activities in this workshop gave me sufficient practice and feedback.	The activities in this workshop gave me sufficient practice and feedback.	The difficulty level of this workshop was appropriate.	The pace of this workshop was appropriate.	WORKSHOP INSTRUCTOR (FACILITATOR) T instructor was well prepared.
3	12/17/2019	Shreyas Cr		5	5	5	5	5	5	5
4	12/17/2019	Sujoy Banerjee		4	4	4	4	4	4	4
5	12/17/2019	Anandteertha Rao		5	5	5	5	5	3	5
6	12/17/2019	Kedar Sant		5	5	5	5	5	4	5
7	12/17/2019	yagnesh narayanan		5	5	5	5	5	5	5
8	12/17/2019	NIKHITHA JAYAPRAKAS		4	4	4	4	4	4	4
9	12/17/2019	Shreya Khare		4	5	5	5	5	4	5
10	12/17/2019	Atharva Valdyia		5	5	5	5	5	5	5
11	12/17/2019	sharan murli		4	4	4	4	4	4	4
12	12/17/2019	Girish Parulekar		4	4	4	4	4	4	4
13	12/17/2019	UDIYAR SANTHIYA RAM		4	4	4	4	3	3	3
14	12/17/2019	Thevar Mahalakshmi Mui		4	4	4	4	4	4	4
15	12/17/2019	Nikhil Sabe		5	4	4	4	3	4	4
16	12/17/2019	Tanuj Palaspagar		5	4	5	4	4	3	5
17	12/17/2019	Tanuj Palaspagar		5	4	5	4	4	3	5
18	12/19/2019	Mahitha sree		4	3	4	4	3	4	4

Impact Analysis

The workshop ended with a Skype interaction with Prof. Sridhar Iyer and workshop participants. Students gave insightful responses when asked to reflect on what they learnt during the workshop. They appreciated the need for such a workshop and said that it gave them a new understanding of what software design entails. They realized the method of approaching software design problems is as important as finding the solution. They also said that the strategies and techniques they learnt would be useful in approaching design problems in the future.

Overall, the workshop was a good learning experience for us, as this was our first workshop where several learning environments were packaged in a multi-day workshop. We wish to conduct similar software design workshops as well as workshops which target other thinking skills like troubleshooting and computational thinking.

Sample Certificate

		 SIES Graduate School of Technology RISE WITH EDUCATION
<h1>CERTIFICATE</h1> OF COMPLETION		CR No.CE/
<i>This is to certify that</i>		
Mr./Ms.	<i>Kaustubh Langade</i>	
<i>has successfully completed the course on</i>		
<i>“Software Design”</i>		
<i>and fifteen days internship from 16th Dec to 4th Jan , 2019 held at</i>		
<i>SIES Graduate School of Technology. During internship he/she has successfully</i>		
<i>completed project titled “Depression Coping System”</i>		
		
DR. DEEPTI REDDY COURSE COORDINATOR	DR. APARNA BANNORE HOD, CE DEPT.	DR. ATUL KEMKAR PRINCIPAL, SIES GST

CERTIFICATE OF COMPLETION

This is to certify that

Anushree Kolhe

Has successfully completed the course

Data Science with R

from 22 June 27 June 2020 and fifteen days Internship held at *SIES Graduate School of Technology*. During internship he/she has successfully completed project titled *C'COVID Data rorecastin*



Pranita Mahajan
WORKSHOP COORDINATOR



Dr. Aparna Bannore
HEAD CE, DEPT



DP. Atul Kemkar
I/C PRINCIPAL SIESGST