

## Department of Information Technology

Academic Year – 2020-21	Class: Final Year
Semester – I	Date : 22/03/2021 to 04/04/2021
CO : 1,2,3,4,5,6	PO: 1,2,3,6,7,8,9,10,12

### Innovative Teaching Method

**Title of Innovation method/activity:** Project Test Cases writing

**Name of Faculty:** R.R.Tajanpure

1. **Subject:** Software Testing and Quality Assurance

#### 2. Objective of Method:

- Understanding project Idea.
- Planning for test case writing
- Writing quality / relevant test cases for project idea
- Defining priority of Test case

#### 3. Topic Covered through Group Discussion Activity:

- Requirement Traceability Matrix
- Test case writing and deciding its priority
- Test planning
- Types of testing
- Phases of testing

#### 4. Description of method with Benefits (8 – 10 lines) :

Students are given the task of test case writing for their project. The activity is carried out project group wise. Team leader was expected to submit the activity report on moodle within given deadline.

##### The method Impact:

This activity helps students to write test cases for real life example, its planning and understanding its priority of execution

### Roles and Responsibilities

- **Teacher**
  - Guidance on RTM
  - Guide on Test planning
  - Emphasize on relevant quality Test case writing
  - Report format preparation
  - Prepare assessment methodology and rubrics
- **Student**
  - Go through project idea

- Group wise writing test cases
- Actively participate in group and contribute for quality test case writing.
- Submit report
- **Group**
  - Discuss and write test cases, its relevance and priority
  - Discussion with team members and project guide
  - Team leader will submit the report

## 5. Assessment Tools & Rubrics:

- **RTM** - Requirement Traceability Matrix
- **Quality of Test cases**
- **Timely Submission**

### Rubrics for Assessment of Group Discussion

Sr. No.		Excellent (100%)	Good (60%)	Poor (10%)
1	RTM (2 Marks)	Well defined <b>RTM</b>	1.Well written with some blank fields 2.Not well defined	1.Not well written with many blank fields 2.Not well defined
2	Quality of Test cases (6 Marks)	Test cases written 1. Priority wise 2. Relevant	1. Poor understanding of priority 2. Less relevant test cases	1. No Priority 2. Randomly defined Test cases
3	Timely Submission (2 marks)	Within Deadline	within 8 days after deadline	after 8 days of deadline

## 6. Evaluation Sheet

Gr No	Roll No	Name of the students	Finalized Topic Name	RTM (2 Marks)	Quality of Test cases (6 Marks)	Timely Submission (2 marks)	Total
1	36	Khairnar Rohit Shankar	Smart Student Alumni Interaction System	2	6	2	10
	46	Patil Jaswantsing Vijaysing					
	53	Rahane Nikhil Vitthal					
	39	Langhe Atharva Rajendra					
2	12	Deore Akash Sanjay	A frame work for crowd funding platforms to match the services between funder and fundraiser	2	6	2	10
	11	Dawalkar Rishikesh Arvind					
	5	Bhamare Vedant Vijay					
	20	Ghodke Chinmay Deepak					
3	70	Birari Kishori	Vegetable leaf disease detection	0	2	0	2
	76	Pawatekar Pooja					
	80	Devika Tatar					
	38	Tejal Kuwar					
4	41	Maknor Kanchan N.	Detection of pesticide in fruits	2	6	2	10
	33	Karpe Anuja Mukund					

	68	Vyas Bhumika Rajnish					
	71	Wavdhane Utkarsha D.					
5	54	Sanap Madhuri Shankar	Healthcare Kiosk	2	6	2 (20 Oct)	10
	75	Roshni More					
	6	Bhamre Divya Jayant					
	51	Pingle Pranjal Anil					
6	59	Shindore Salil Darshan	Smart Farming	2	5	2	9
	29	Kakad Saurabh Changdeo					
	72	Zambare Aman Prabhakar					
	69	Wagh Chandan Prem					
7	22	Gujarathi Devesh Santosh	Digital Academics	2	6	2	10
	66	Vidhate Sanket Somnath					
	4	Bejekar Tushar Sampat					
	17	Gaikwad Harshal Dilip					
8	13	Dhavale Rupali Rajesh	Visual Cryptography	2	6	1 (12 Dec)	9
	76	Prerana Gangurde					
	21	Ghule Pranjal Pratap					
	2	Bahalkar Ganesh Sharad					
9	47	Patil Pragati Sanjay	Smart Lock for Hostel	2	6	1(14 Dec)	9
	55	Sapkale Pranali Vijay					
	24	Jadhav Dhanashri J.					
	43	More Vishakha Sanjay					
10	77	Sonawane Rakesh	EV charging station locator with slot booking system	0	0	0	0
	78	Sonawane Sameer					
	79	Gotarne Pavankumar					
		Tejasri Sawkare					
	71	Gajjar Viren					
11	44	Nahar Riddhi Sunil	Elevator	2	6	2	10
	35	Khairnar Dhanali Vijay					
	37	Kinge Shrutika R.					
	40	Komal Mahajan					
12	31	Kangane Shubham M.	Smart Canteen	2	6	2	10
	52	Pingle Pratibha Balasaheb					
	32	Kankariya Sanket S.					
	9	Borse Shubham Prashant					
13	57	Shah Owais Sharfraz	Laundry Aggregate	2	6	2	10
	61	Singh Sachin Ajab Narayan					
		Abhinandan Jagtap					
		Nikhil Shinde					
14	72	Vikrant Pagare	Android based smart parking system to reduce traffic congestion	0	0	0	0
	73	Kumbhar Chetan					
	74	Mahajan Sarang					
	75	Patil Jayesh					
15	8	Bora Mansi Amit	SpyRobot for surveillance	2	6	1(12 Dec)	9
	27	Jhavar Anushree Sharad					
	63	Tarwani Riddhi Khemchand					
	56	Sarode Snehal Ramrao					
16	1	Aswani Renu Gangaram	Speech emotion recognition using Mlssystem	2	6	2	10
	14	Dhawale Bhakti Rajendra					
	19	Gawale Akanksha D.					
	60	Shivade Ankita Kashinath					

	81	Namrata Donde					
17	42	Morankar Abhishek R.	Geofence based College attendance System	2	6	2	10
	3	Baviskar Ronak Hemant					
	67	Vishwakarma Rohit T.					
	49	Patil Sushant Parag					
18	64	Thombare Dhanashri R.	Smart Scarecrew	2	5	2	9
	58	Shardul Shweta V.					
	30	Kale Apurva Rajendra					
	7	Bhavsar Disha Manoj					
19	70	Renuka Wagh	Answer evaluation using ML	2	6	0	8
	15	Pallavi Dhokane					
	65	Simran Upasani					
	50	Revati Pekhale					
20	23	Gulave Pratik Vijay	LMS development	2	5	2	9
	16	Dumbare Shivam Kailas					
	28	Kadam Siddhant Prakash					
	62	Suryawanshi Sarang Pravin					

SN	Result Analysis	
1	Total Student groups Participated	20 group, 82 students
2	Number of Student group Scoring above 60%	17 group, 69 students
3	Percentage of student Scoring above 60%	84 %

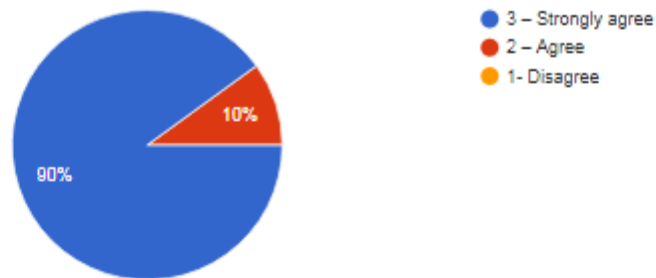
## 7. Impact Analysis

SN	3- Excellent	2- Good	1- Satisfactory
Are you able to understand importance of testing?	45	5	0
Are you able to write the different test cases for testing your project?	40	9	1
Was the test case writing activity useful for project completion?	43	7	0
Will you be able to understand different issues (documentation, presentation and implementation) and responsibilities (ethics) related to project?	46	4	0

Q. 1 Are you able to understand importance of testing?

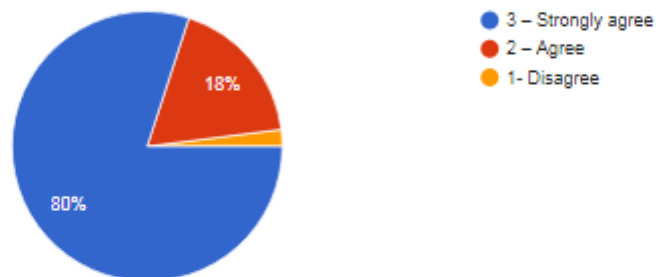


50 responses



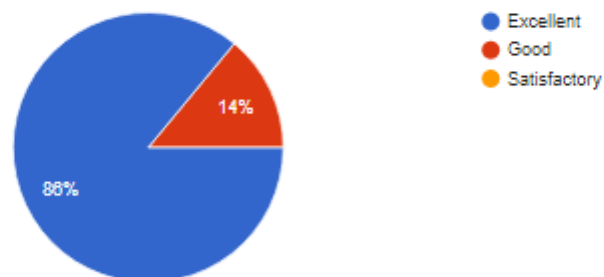
Q. 2 Are you able to write the different test cases for testing your project ?

50 responses



Q. 3 Was the test case writing activity useful for project completion?

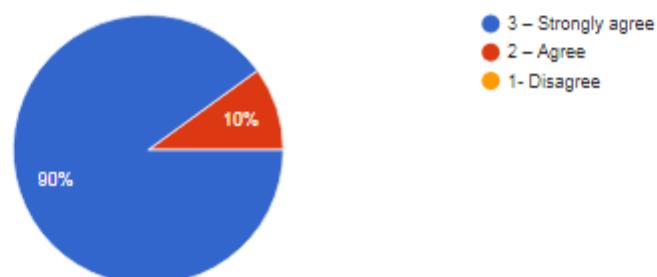
50 responses



Q. 4 Will you be able to understand different issues (documentation, presentation and implementation) and responsibilities(ethics) related to project?



50 responses



## 8. Activity Picture

**Project Test Case Analysis Group Submission**

Project group members will discuss on the different modules of their project and find out module wise test cases. The group leader will prepare a summary in the given format and submit it till 17th Oct 2020. Minimum 20 Test cases comprising at least 5 high priority test cases should be submitted. The project group will be graded out of 10. Rename file by your project group id.

Rubrics for assessment will be as

	Full Marks	50% Marks	10% Marks
<b>Timely Submission (2 marks)</b>	Within Deadline	within 8 days after deadline	after 8 days of deadline
<b>Quality of Test cases (6 Marks)</b>	1.Priority wise written	1.No understanding of priority	1. No Priority
	2.Relevant Test cases	2. randomly defined Test cases	2.No Relevance cases
<b>RTM (2 Marks)</b>	Well written	with some blank fields	Not well defined

Grading summary

Hidden from students	No
Participants	85
Submitted	24
Needs grading	6
Due date	Saturday, 12 December 2020, 12:00 AM
Time remaining	Assignment is due

## 9. For review and critique contact: e-mail address of faculty and HOD

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