

Lokneta Hon. Hanmantrao Patil Charitable Trust's
ADARSH INSTITUTE OF TECHNOLOGY AND
RESEARCH CENTRE ,VITA

MSBTE- 0991



FIVTH SEMESTER
(Year: 2023-24)

Micro Project

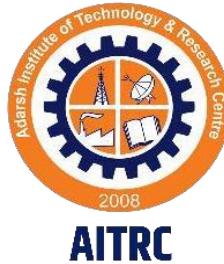
Software Testing (22518)

Title of the Project: "Vaccination Management System"
Branch: "Computer Technology" CM5I

Members of the Group:

Sr. No.	Name of Student	Roll No.
01	Mulla Asiya Umarfaruk	3133
02	Deepak Nikam Laxman	3134
03	Arman Ikbal Jamadar	3135
04	Satyajeet Laxman Mahind	3136

**Lokneta Hon. Hanmantrao Patil Charitable Trust's
Adarsh Institute of Technology & Research Centre Vita,**



CERTIFICATE

*This is to certify that the micro project report entitled
"Vaccination Management System"*

Submitted by

Sr. No.	Name of Student	Roll No.
01	Mulla Asiya Umarfaruk	3133
02	Deepak Nikam Laxman	3134
03	Arman Iqbal Jamadar	3135
04	Satyajeet Laxman Mahind	3136

*For Fifth Semester of Diploma in Computer Technology of course Software Testing (22518)
for academic year 2023-24 as per MSBTE, Mumbai curriculum of 'I' scheme.*

**DIPLOMA OF ENGINEERING
(Computer Technology)**

**SUBMITTED TO
MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION MUMBAI
ACADEMIC YEAR 2023-24**

**Project Guide
Mss.P.P.Yadav**

**H.O.D.
Prof.A.A.Vankudre**

**Principal
Dr.P.S.Patil**

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

MICRO PROJECT
Progress Report / Weekly Report

Title of the Project: "Vaccination Management System"

Course: AJP(22517)

Program: Computer Technology (CM5I)

Week No	Date	Duration in Hrs.	Work / Activity Performed	Sign of the Faculty
1		2hour	Knowing the basic	
2		1hour	Decide Aim	
3		2hour	Collect the Data	
4		2hour	Prepare project proposal	
5		1hour	Search Literature review	
6		1hour	Analysis of Data	
7		1hour	Discussion over preparing	
8		2hour	Correction in Booklets	
9		2hour	Report writing	
10		1hour	Checking report	
11		1hour	Correction report write	
12		1hour	Rechecking report	
13		1hour	Finalizing report writing	
14		1hour	Final submission	
15		1hour	Oral presentation of micro project	

Teacher Evaluation Sheet for Micro Project

Course Title and Code: - “Advance Java Programming” (22518)

Title of the Project: “Vaccination Management System”

Group No: -9

COs addressed by the Micro Project:

CO a:	Apply various software testing methods.
CO b:	Prepare test cases for different types and levels of testing.
CO c:	-
CO d:	-
CO e:	Test software for performance measures using automated testing tools.
CO f:	-

Marks:-

Roll No.	Name Of Student	Marks for Group Work (06)	Marks obtained by the individual based on viva (04)	Total Marks (10)
3133	Mulla Asiya Umarfaruk			
3134	Deepak Nikam Laxman			
3135	Arman Ikbal Jamadar			
3136	Satyajeet Laxman Mahind			

Name and designation of Faculty Member: **Mss.P.P.Yadav**

Lecturer (Computer Technology Department)

Signature: _____

ACKNOWLEDGEMENT

I express my sincere gratitude to **Mss.P.P.Yadav.**, Department of **Computer Technology**, for his/her stimulating guidance, continuous encouragement and supervision throughout the course of present work.

I would like to place on record my deep sense of gratitude to **Prof.A.A.Vankudre** HOD- Department of **Computer Technology**, for his generous guidance, help and useful suggestions.

I am extremely thankful to Principal **Dr.P.S.Patil** for this motivation and providing me infrastructural facilities to work in, without which this work would not have been possible.

I would like to express my gratitude to all my colleagues for their support, co-operation and fruitful discussions on diverse seminar topics and technical help.

Name of Student	Sign
Mulla Asiya Umarfaruk	
Deepak Nikam Laxman	
Arman Ikbal Jamadar	
Satyajeet Laxman Mahind	

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Sr. No.	Content	Page No.
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2.0	Course Outcomes Addressed	
3.0	Literature Review	
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5.0	Actual Resources Used	
6.0	Outputs of the Micro Project	
7.0	Skill Developed / learning out of this Micro Project	
8.0	Applications of this Micro Project	
9.0	Area of Future Improvement	

PART A - Micro-Project Proposal

Title of Micro-Project: “Vaccination Management System”

1.0 Brief Introduction

Vaccines have changed the course of the medical system. The widespread availability of vaccines to mitigate illness or diseases has drastically changed over the last 20 years. These vaccines are used by Family doctors, Pediatricians, Internal Medicine, OBGYN, and many other medical experts in their medical practice in today's times. Moreover, the retail clinic and pharmacies administer vaccines in many states. There are some components to managing vaccines, including inventory management, supply chain management system, cold storage management system, and patient management system. Many Pediatric and other medical experts are still using either a manual process or paper process for inventory management & recording vaccines administration. Such manual processes take hours of time every month, and most have problems with consistency and accuracy. Earlier, some of the solutions on the market either delivered an intricate, time-intensive vaccine management process, and the solution rendered was costly to the office.

Medical facilities spend a considerable portion of their budget on buying vaccines for their patients. The discovery of new diseases has raised the cost of immunization every year. The hospitals can mitigate the vaccine wastage by proper maintenance and check of the patient's medical history. A vaccine management system is a one-stop solution for managing the immunization process in your medical center.

2.0 Aim of the Micro-Project

Some of the Benefits of the micro-project are as follows:

- The major purpose of this AJP Project to Give Information about acquiring knowledge about Advance java.
- This project also give knowledge about the Application and use of Advance Java in developing a billing system.
- State Importance of Advance Java & it's features in platform independency.

Intended Course Outcomes

- ❖ Handle event of AWT and Swing components.
- ❖ Develop Java program using networking concepts.
- ❖ **Develop program to handle even in java programming.**

4.0 Literature Review

Review :

Advance Java provides us the facility to create our own exceptions which are basically derived classes of Exception. Creating our own Exception is known as a custom exception or user-defined exception. literature review aims to explore the existing literature on bank management systems developed using Java.

5.0 Proposed Methodology

- 1) Knowing the basics of the topic.**
- 2) Decide aim of the project and collect the data.**
- 3) Prepare project proposal.**
- 4) Search Literature reviews.**
- 5) Analysis of data.**
- 6) Discussion over preparing and correction in booklet and report.**
- 7) Converting the content of project in report writing.**
- 8) Checking and correction in report writing.**
- 9) Rechecking and finalizing report writing.**
- 10) Final submission and oral presentation of micro project.**

6.0 Resources Required

Sr. No.	Name of Resource/ Material	Specifications	Quantity	Remark
1	Computer System	i-5	1	
2	Microsoft Word	2010	1	
3	Internet	Any	1	

7.0 Action Plan

Sr. No.	Details of activity	Planned start date	Planned Finish date	Name of Responsible Team Members
1	Project Proposal			All Members
2	Data Collection & Analysis			All Members
3	Preparation of Prototype/ Model			All Members
4	Preparation of Report			All Members
5	Presentation & Submission			All Members

PART B - Micro- Project Proposal

Title of Micro-Project: "Vaccination Management System"

1.0 Rationale:

Vaccination Management system is a system for managing the vaccination procedure in an efficient way. It provides an easy way to people for registering, updating, viewing and deleting their slots. The main objective of this system is to create a user friendly system.

2.0 Course Outcomes Addressed:

- Develop programs using Object Oriented Methodology in java.
- Use AWT Component.
- Use SWING Component.
- Apply Event Handling Concepts.

3.0 Literature Review

Review:

Advance Java provides us the facility to create our own exceptions which are basically derived classes of Exception. Creating our own Exception is known as a custom exception or user-defined exception.

Literature review aims to explore the existing literature on bank management systems developed using Java.

4.0 Actual Methodology Followed:

Member 1): Name: All Members.

Work: Finalize the group & project

Member 2): Name: Deepak Nikam Laxman

Work: Search information regarding project subject.

Member 3): Name: Mulla Asiya Umarfaruk

Work: Collect information and discuss with group members about proposal.

Prepare proposal and submit to the guide.

Member 4): Name: Arman Ikkbal Jamadar

Work: Analyze and finalize the information of the project report

Member 5): Name: Deepak Nikam Laxman
Work: Write project report

Member 6): Satyajeet Laxman Mahind
Work: Prepare rough sketch and final chart

5.0 Actual Resources Used

Sr. No.	Name of Resource/ Material	Specifications	Quantity	Remark
1	Computer System	i-5	1	
2	Microsoft Word	2010	1	
3	Internet	Any	1	

6.0 Source Code:

```
1. import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import java.awt.Color.*;
class deleteslot2 extends JFrame implements ActionListener
{
    JLabel l1, l2;
    JTextField aadhar;
    JButton delete, back;
    Container c;
    Connection con;
    Statement stmt;
    ResultSet rs;
    deleteslot2()
    {
        setVisible(true);
        Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
        setSize(screenSize.width, screenSize.height);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        c = getContentPane();
        Color c1 = new Color(230,230,250);
        c.setBackground(c1);
        c.setLayout(null);
        l1 = new JLabel("Delete slot!!",JLabel.CENTER);
        l1.setFont(new Font("Arial", Font.BOLD, 25));
        l1.setSize(600, 30);
        l1.setLocation(300, 20);
        l1.setForeground(Color.red);
        c.add(l1);
        l2 = new JLabel("Enter Aadhar No");
        l2.setFont(new Font("Arial", Font.BOLD, 15));
        l2.setSize(600, 30);
        l2.setLocation(450, 100);
        c.add(l2);
        aadhar = new JTextField(12);
        aadhar.setFont(new Font("Arial", Font.BOLD, 15));
        aadhar.setSize(150, 20);
        aadhar.setLocation(580, 100);
        c.add(aadhar);
        delete = new JButton("Delete slot");
        delete.setFont(new Font("Arial", Font.BOLD, 15));
        delete.setSize(150, 20);
        delete.setLocation(470, 170);
        delete.addActionListener(this);
        c.add(delete);
        back = new JButton("Back");
        back.setFont(new Font("Arial", Font.BOLD, 15));
        back.setSize(150, 20);
        back.setLocation(690, 170);
```

```

        back.addActionListener(this);
        c.add(back);
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver"); //register the driver
            con =
                DriverManager.getConnection("jdbc:oracle:thin:@ localhost:1521:xe","system","TYCO");
                //establish connection
                stmt = con.createStatement(); //create Statement
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }

    public void actionPerformed(ActionEvent ae)
    {
        try
        {
            if(ae.getSource()==delete)
            {
                if(aadhar.getText().trim().length()>0)
                {
                    int i = stmt.executeUpdate("Delete from Vaccine where ano =
"+aadhar.getText()+"");
                    if(i>0)
                        JOptionPane.showMessageDialog(null,"Slot deleted successfully!!!");
                }
                else
                    JOptionPane.showMessageDialog(null,"Please enter valid aadhar number !!!");
            }
            else if (ae.getSource()==back)
            {
                DetailPagedemo dpg = new DetailPagedemo();
            }
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}

public static void main(String args[])
{
    new deleteslot2();
}
}

```

2.

```
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
import java.awt.Color;
public class HomePage extends JFrame implements ActionListener
{
    JButton jb1;
    JLabel l1, l2, l3;
    public HomePage()
    {
        Container cp = getContentPane();
        cp.setLayout(null);
        Color c = new Color(230,230,250);
        cp.setBackground(c);
        l3 = new JLabel("Welcome");
        l3.setBounds(650,50,350,80);
        l3.setFont(new Font("Calibiri",20,20));
        l2 = new JLabel("Vaccination Management System!!!");
        l2.setBounds(450,200,850,80);
        l2.setFont(new Font("Calibiri",20,40));
        jb1 = new JButton("Next");
        jb1.setBounds(650,350,130,30);
        jb1.addActionListener(this);
        cp.add(l2);
        cp.add(l3);
        cp.add(jb1);
    }

    public void actionPerformed( ActionEvent ae)
    {
        if(ae.getSource()==jb1)
        {
            LoginPage lp = new LoginPage();
        }
    }
    public static void main(String args[])
    {
        HomePage hp = new HomePage();
        hp.setVisible(true);
        Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
        hp.setSize(screenSize.width, screenSize.height);
        hp.setTitle("Home Page");
        hp.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

3.

```
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
import java.awt.Color;
public class LoginPage extends JFrame implements ActionListener
{
    JButton login;
    JLabel username, password, ll;
    JTextField user;
    JPasswordField pass;
    public LoginPage()
    {
        setLayout(null);
        setVisible(true);
        Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
        setSize(screenSize.width, screenSize.height);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        Color c = new Color(230,230,250);
        setBackground(c);
        ll = new JLabel("Login");
        ll.setBounds(450,50,150,50);
        ll.setFont(new Font("Arial", Font.BOLD, 35));
        username = new JLabel("Enter UserName:");
        username.setBounds(350,150,150,50);
        username.setFont(new Font("Arial", Font.BOLD, 15));
        password = new JLabel("Enter Password:");
        password.setBounds(350,250,150,50);
        password.setFont(new Font("Arial", Font.BOLD, 15));
        user = new JTextField(10);
        user.setBounds(550,170,150,20);
        pass = new JPasswordField();
        pass.setBounds(550,270,150,20);
        login = new JButton("LOGIN");
        login.setBounds(450,350,150,50);
        login.addActionListener(this);
        add(username);
        add(password);
        add(user);
        add(pass);
        add(login);
        add(ll);
    }

    public void actionPerformed( ActionEvent ae)
    {
        if(ae.getSource()==login)
        {
            if(user.getText().trim().length()>0)
            {
                if(pass.getText().trim().length()>0)
                {

```

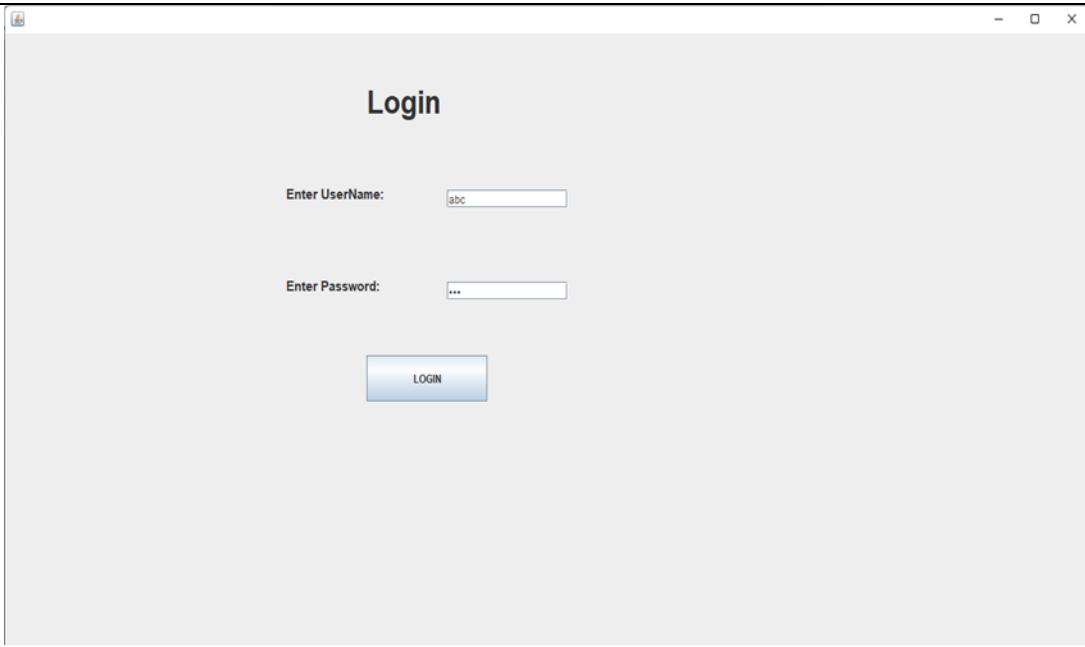
```
        DetailPagedemo d = new DetailPagedemo();
    }
else
    JOptionPane.showMessageDialog(null,"Please Enter Password");
}
else
    JOptionPane.showMessageDialog(null,"Please Enter Username");
}
}
```

Project Output :-

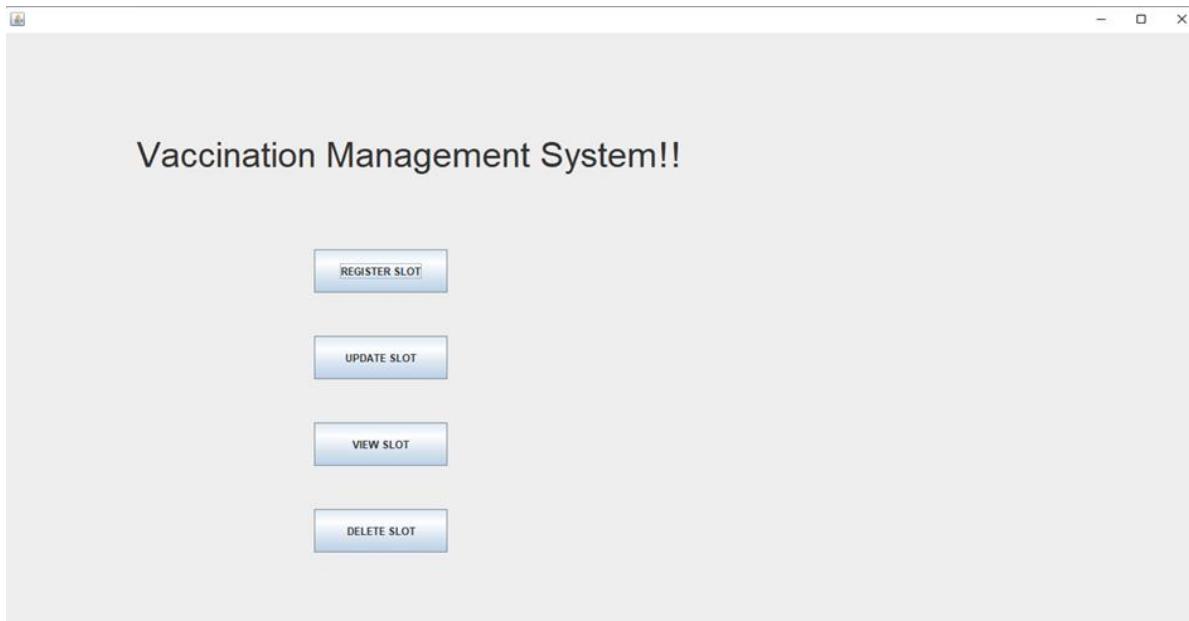
1.



2.



3.



4.

Register slot!!

Full Name

Mobile No.

Aadhar No.

Gender Male Female

DOB Jan 1995

Address

Vaccine Covaxin Covishield Polio Rubela

Vaccination date Jan 2021

Vaccination slot Morning slot: 9am to 11am

Register **Back**



5.

Show Vaccination Slot!!

Enter Aadhar No.

Show Data

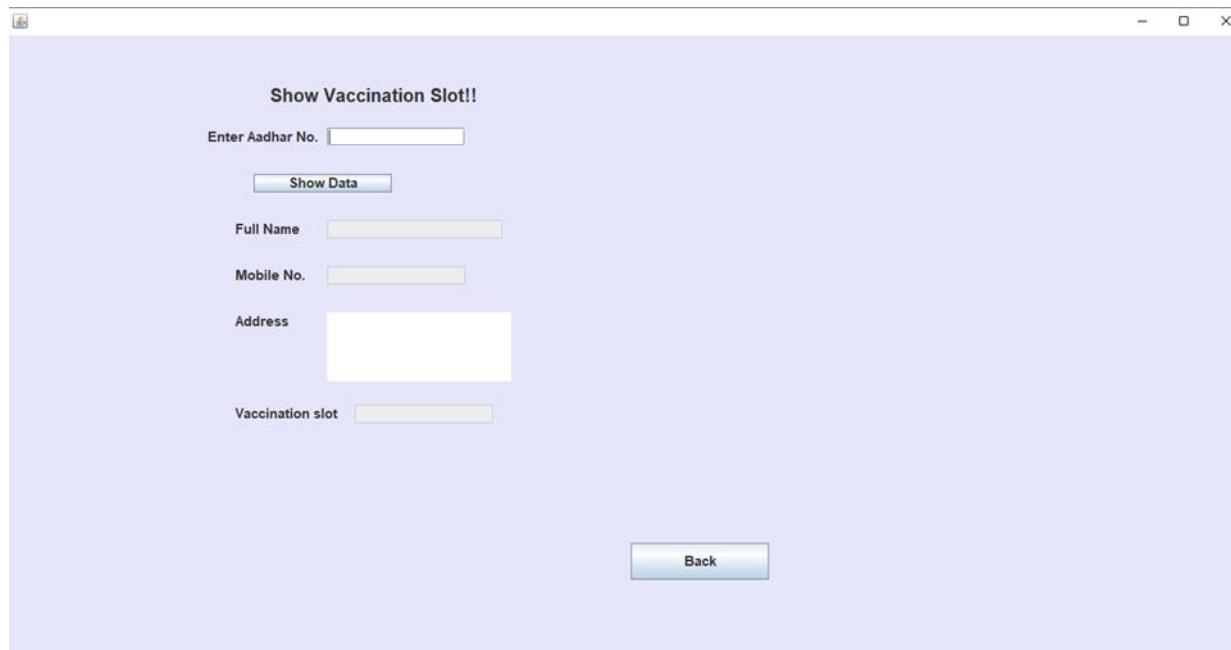
Full Name

Mobile No.

Address

Vaccination slot

Back



6.



7.0 Skill Developed / learning out of this Micro-Project:

This Project is created for improving the Java programming knowledge of applications.

- The concept of project understood.
- Implementation of the self-development process.
- The structure and requirement of proposal and report understood.
- How to search information and use of different online tools come to know.

8.0 Conclusion :

Thus, we have successfully develop Vaccination Management System using Advance Component in Java And also use Event handling Concept.

Annexure – III

Teacher Evaluation Sheet

Name of Student: _____ Enrollment No.: _____

Name of Program : _____ Semester: _____

Course Title: _____ **Code:** _____

Title of the Micro-Project: _____

Course Outcomes Achieved:

Evaluation as per suggested Rubric for Assessment of Micro-Project(Please
tick in appropriate cell for each characteristic)

Sr. No.	Characteristic to be assessed	Poor (Marks 1 -3)	Average (Marks 4 - 5)	Good (Marks 6 -8)	Excellent (Marks 9 - 10)
1	Relevance to the course				
2	Literature survey / Information collected				
3	Project Proposal				
4	Completion of target as per project proposal				
5	Analysis of data and representation				
6	Quality of prototype / Model				
7	Report Preparation				
8	Presentation				
9	Defense				

Micro-Project Evaluation Sheet

Seat No.	Process assessment		Product assessment		Total Marks 10
	Part A Project Proposal (2 marks)	Project Methodology (2 marks)	Part B Project Report/Working Model (2 marks)	Individual Presentation /Viva (4 marks)	

Note: Every course teacher is expected to assign marks for group evaluation in first 3 columns and individual evaluation in 4th column for each group of students as per suggested rubrics.

Comments / suggestion about team work / leadership / inter-personal communication (if any):

Any other Comment:

Name and designation of faculty member: _____

Signature: _____

Teacher Evaluation Sheet

Name of Student: _____ Enrollment No.: _____

Name of Program : _____ Semester: _____

Course Title: _____ Code: _____

Title of the Micro-Project: _____

Course Outcomes Achieved:

Evaluation as per suggested Rubric for Assessment of Micro-Project(Please
tick in appropriate cell for each characteristic)

Sr. No.	Characteristic to be assessed	Poor (Marks 1 -3)	Average (Marks 4 - 5)	Good (Marks 6 -8)	Excellent (Marks 9 - 10)
1	Relevance to the course				
2	Literature survey / Information collected				
3	Project Proposal				
4	Completion of target as per project proposal				
5	Analysis of data and representation				
6	Quality of prototype / Model				
7	Report Preparation				
8	Presentation				
9	Defense				

Micro-Project Evaluation Sheet

Seat No.	Process assessment		Product assessment		Total Marks 10
	Part A Project Proposal (2 marks)	Project Methodology (2 marks)	Part B Project Report/Working Model (2 marks)	Individual Presentation /Viva (4 marks)	

Note: Every course teacher is expected to assign marks for group evaluation in first 3 columns and individual evaluation in 4th column for each group of students as per suggested rubrics.

Comments / suggestion about team work / leadership / inter-personal communication (if any):

Any other Comment:

Name and designation of faculty member: _____

Signature: _____

Teacher Evaluation Sheet

Name of Student: _____ Enrollment No.: _____

Name of Program : _____ Semester: _____

Course Title: _____ Code: _____

Title of the Micro-Project: _____

Course Outcomes Achieved:

Evaluation as per suggested Rubric for Assessment of Micro-Project(Please
tick in appropriate cell for each characteristic)

Sr. No.	Characteristic to be assessed	Poor (Marks 1 -3)	Average (Marks 4 - 5)	Good (Marks 6 -8)	Excellent (Marks 9 - 10)
1	Relevance to the course				
2	Literature survey / Information collected				
3	Project Proposal				
4	Completion of target as per project proposal				
5	Analysis of data and representation				
6	Quality of prototype / Model				
7	Report Preparation				
8	Presentation				
9	Defense				

Micro-Project Evaluation Sheet

Seat No.	Process assessment		Product assessment		Total Marks 10
	Part A Project Proposal (2 marks)	Project Methodology (2 marks)	Part B Project Report/Working Model (2 marks)	Individual Presentation /Viva (4 marks)	

Note: Every course teacher is expected to assign marks for group evaluation in first 3 columns and individual evaluation in 4th column for each group of students as per suggested rubrics.

Comments / suggestion about team work / leadership / inter-personal communication (if any):

Any other Comment:

Name and designation of faculty member: _____

Signature: _____

Teacher Evaluation Sheet

Name of Student: _____ Enrollment No.: _____

Name of Program : _____ Semester: _____

Course Title: _____ Code: _____

Title of the Micro-Project: _____

Course Outcomes Achieved:

Evaluation as per suggested Rubric for Assessment of Micro-Project(Please
tick in appropriate cell for each characteristic)

Sr. No.	Characteristic to be assessed	Poor (Marks 1 -3)	Average (Marks 4 - 5)	Good (Marks 6 -8)	Excellent (Marks 9 - 10)
1	Relevance to the course				
2	Literature survey / Information collected				
3	Project Proposal				
4	Completion of target as per project proposal				
5	Analysis of data and representation				
6	Quality of prototype / Model				
7	Report Preparation				
8	Presentation				
9	Defense				

Micro-Project Evaluation Sheet

Seat No.	Process assessment		Product assessment		Total Marks 10
	Part A Project Proposal (2 marks)	Project Methodology (2 marks)	Part B Project Report/Working Model (2 marks)	Individual Presentation /Viva (4 marks)	

Note: Every course teacher is expected to assign marks for group evaluation in first 3 columns and individual evaluation in 4th column for each group of students as per suggested rubrics.

Comments / suggestion about team work / leadership / inter-personal communication (if any):

Any other Comment:

Name and designation of faculty member: _____

Signature: _____