Mahavir Education Trust's

SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE

Chembur, Mumbai - 400 088

UG Program in Information Technology

Academic Year	2020-21		
Department	Information Technology		
Course code	9.ITM401	**Course Name**	Mini Project – 1B for Python based automation projects

Student Details

Sr. No.:	Full Name:	Class	Roll No.	Contact No.	Email-Id
1)	Naman Desai	SE-6	11	9892788440	naman.desai_19@sakec.ac.in
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Project Details

Project Group No.	I2
Title of the Project	Face recognition and QR-code application.

Guide Details

Guide Name	Ms. Nida Jawre (/NJ)
Co-Guide Name(If any)	Ms. Jalpa Mehta (/JM)

SECOND YEAR MINI PROJECT-1B LOG BOOK

Mini Project –1A Course Outcomes and Mapping to Program Outcomes and Program Specific Outcomes

CO No.	Course Outcomes By the end of the course, students should be able to	Weightage (%)	Program Outcome No.	Program Specific Outcome No.
1	To identify and Apply Knowledge to solve societal problems and research needs.	15	2,12	1
2	To summarize the proper inferences from available results through theoretical/ experimental/simulations.	15	2,4	1
3	To acquire interpersonal Skills, capabilities of self-learning in a group,or as a member or a leader which leads to lifelong learning.	15	9,12	1,2
4	To apply standard norms of engineering practices to Analyse the impact of solutions in societal and environmental contexts for sustainable development.	10	7,8	1,2
5	To develop written and oral communication skills.	25	10,12	1
6	To demonstrate project management principles during project work.	20	10,11,12	1,2

Project to Program Outcome and Performance Indicator Mapping with Correlation Level

Program Outcome Number	Performance Indicator PI(2,4,7,8,9,10,11,12)	Correlation Level (1- Slightly 2-Moderately 3- Strongly)
PO1	-	-
PO2	2.1,2.2.3,2.2.4	3
PO3	-	-
PO4	4.3.3	1
PO5	-	-
PO6	-	-
PO7	7.1.2,7.2.1,7.2.2	3
PO8	8.1.1	1
PO9	9.2.2,9.2.3,9.3.1	-
PO10	10.2.2,10.3.1,10.3.2	3
PO11	11.3.1,11.3.2	2
PO12	12.1.2,12.12.2.2,12.3.2	3

Project to Program Specific Outcome Mapping with Correlation Level

Program Specific Outcome Number	PSO1	PSO2
Correlation Level (1- Slightly 2-Moderately 3- Strongly)	3	2

List of Program Outcomes

Engineering Graduates will be able to,

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusion using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions**: Design solution for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

List of Program Specific Outcomes

PSO 1: The Information Technology graduates are able to analyse, design, develop, test and apply management principles, mathematical foundations in the development of IT based solutions for real world and open-ended problems.

PSO 2: The Information Technology graduates are able to perform various roles in creating innovative career paths : to be an entrepreneur, a successful professional , pursue higher studies with realization of moral values & ethics.

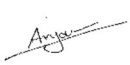
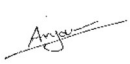
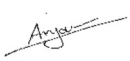
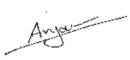
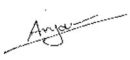
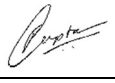
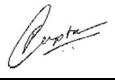
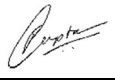
Rubrics Assessment of Mini Project: Term Work:(25 marks)

The review/ progress monitoring committee shall be constituted by head of departments of each institute. The progress of mini project to be evaluated on continuous basis, minimum two reviews in each semester.
In continuous assessment focus shall also be on each individual student, assessment based on individual's contribution in group activity, their understanding and response to questions.

Distribution of Term work marks for both semesters shall be as below;

- Marks awarded by guide/supervisor based on log book : 10
- Marks awarded by review committee: 10
- Quality of Project report: 05

Weekly Attendance Report of Mini Project- 1A

Sr. No.	Week No.	Date	Student 1 Signature	Student 2 Signature	Student 3 Signature	Guide Signature	Co-Guide Signature (if any)
1	2	06/02/2021				/NJ	/JM
2	3	13/02/2021				/NJ	/JM
3	4	20/02/2021				/NJ	/JM
4	5	27/02/2021				/NJ	/JM
5	6	06/03/2021				/NJ	/JM
6	8	20/03/2021				/NJ	/JM
7	9	27/03/2021				/NJ	/JM
8	10	03/04/2021				/NJ	/JM
9	11	10/04/2021				/NJ	/JM
10	12	17/04/2021				/NJ	/JM
11	13	24/04/2021				/NJ	/JM
12	15	08/05/2021				/NJ	/JM

Weekly Progress Report of Mini Project- 1A

Week No.:	2	**Date:**	06/02/2021	**Meeting No.:**	1
Task: Choose a topic / problem statement.					
Project Work Done / Progress Achieved:	N.A				
Next Week Task:	To come up with a topic / problem statement.				
Guide(s) Suggestions / Comments:	Come up with a topic / problem statement which could be slowly, over time with various technical inputs become a marketable product / software.				
Guide(s) Signature & Date:	/NJ and /JM (06.02.2021)				

Week No.:	3	**Date:**	13/02/2021	**Meeting No.:**	2
Task: Explain the implementation of the chosen solution to our chosen problem statement.					
Project Work Done / Progress Achieved:	Chose a topic / problem statement.				
Next Week Task:	Generate a blueprint regarding the working of the mini project.				
Guide(s) Suggestions / Comments:	To use as many technologies we can so that we can get familiar with them.				
Guide(s) Signature & Date:	/NJ and /JM (13.02.2021)				

Week No.:	4	**Date:**	20/02/2021	**Meeting No.:**	3
Task: Explained the blueprint, discussed the tools and technologies which would be used.					
Project Work Done / Progress Achieved:	Designed a blueprint to develop the program to implement the solution to our problem statement.				
Next Week Task:	Create a basic facial recogniser.				
Guide(s) Suggestions / Comments:	To try and use existing face recognising modules instead of learning how to create one.				
Guide(s) Signature & Date:	/NJ and /JM (20.02.2021)				

Week No.:	5	**Date:**	27/02/2021	**Meeting No.:**	4
Task: Displayed the working of the basic facial recogniser.					
Project Work Done / Progress Achieved:	Created a basic facial recogniser without any front-end. (Automatic scan and then train and recognise).				
Next Week Task:	To add a screen to show what is being scanned and after the scan is complete to show the picture it has scanned.				
Guide(s) Suggestions / Comments:	To add a screen to show what is being scanned and after the scan is complete to show the picture it has scanned.				
Guide(s) Signature & Date:	/NJ and /JM (27.02.2021)				

Week No.:	6	**Date:**	06/03/2021	**Meeting No.:**	5
Task: Displayed the working of the final facial recogniser.					
Project Work Done / Progress Achieved:	Created the final face recognition program.				
Next Week Task:	To create the working of the QR code / information section.				
Guide(s) Suggestions / Comments:	To create a backend database to store the information, instead of making empty text files.				
Guide(s) Signature & Date:	/NJ and /JM (06.03.2021)				

Week No.:	8	**Date:**	20/03/2021	**Meeting No.:**	6
Task: Showed the creation of the QR code and the working of the data from the database.					
Project Work Done / Progress Achieved:	Created the link between the backend (MySQL) and the python program. Created a program to search and print the requested data.				
Next Week Task:	Create a way to input the data from within the application.				
Guide(s) Suggestions / Comments:	Create a way to input the data from within the application using a conditional branch that if the person exists then print else take them to the input page.				
Guide(s) Signature & Date:	/NJ and /JM (20.03.2021)				

Week No. :	9	**Date:**	27/03/2021	**Meeting No.:**	7
Task: Showed the working of how the app takes input and stores it into the database.					
Project Work Done / Progress Achieved:	Created the basic working of data input and output (print) via the application itself.				
Next Week Task:	To delete a record of needed.				
Guide(s) Suggestions / Comments:	To add textboxes to sate which action has occurred to the user.				
Guide(s) Signature & Date:	/NJ and /JM (27.03.2021)				

Week No. :	10	**Date:**	03/04/2021	**Meeting No.:**	8
Task: Showed the complete data manipulation (print, insertion and deletion) of records.					
Project Work Done / Progress Achieved:	Created the final application / program with all the subsidies of data manipulation.				
Next Week Task:	To make the searching of the data more user friendly.				
Guide(s) Suggestions / Comments:	To give suggestions to the user of which records exist.				
Guide(s) Signature & Date:	/NJ and /JM (03.04.2021)				

Week No.:	11	**Date:**	10/04/2021	**Meeting No.:**	9
Task: Showed the program with search recommendations to make the searching better.					
Project Work Done / Progress Achieved:	Created the program to involve features like database handling with QR applications in a user friendly way without a GUI.				
Next Week Task:	To add a feature to avoid the user from entering an already existing number (primary key).				
Guide(s) Suggestions / Comments:	To add a feature to avoid the user from entering an already existing number (primary key) by showing a popup telling the user the number entered already exists.				
Guide(s) Signature & Date:	/NJ and /JM (10.04.2021)				

Week No.:	12	**Date:**	17/04/2021	**Meeting No.:**	10
Task: Showed the program with no de-duplication of records.					
Project Work Done / Progress Achieved:	Created the entirely of the data manipulation and a code to handle all possible errors along with QR code applications.				
Next Week Task:	To combine the facial recogniser with the QR application program.				
Guide(s) Suggestions / Comments:	To combine using modules.				
Guide(s) Signature & Date:	/NJ and /JM (17.04.2021)				

Week No.:	13	**Date:**	24/04/2021	**Meeting No.:**	11
Task: Showed the working of all the features mentioned above via a single program.					
Project Work Done / Progress Achieved:	Created a compiled program with all the features but no front-end.				
Next Week Task:	To add a GUI.				
Guide(s) Suggestions / Comments:	To use Tkinter.				
Guide(s) Signature & Date:	/NJ and /JM (24.04.2021)				

Week No.:	15	**Date:**	08/05/2021	**Meeting No.**	12
Task: Displayed the working of our app in its entirety					
Project Work Done / Progress Achieved:	Created and added the final touches to the application.				
Next Week Task:	To create a powerpoint presentation showing how the app works.				
Guide(s) Suggestions / Comments:	To create a powerpoint presentation showing how the app works.				
Guide(s) Signature & Date:	/NJ and /JM (08.05.2021)				

Instructions

- Students are required to use this log book throughout the duration of the Project. This book must be filled in as the project is going on. All relevant findings and activities must be recorded weekly and then shown to their guide(s). Among the relevant information to be recorded include:
    - Project title, objectives, scope and work plan
    - Project progress
    - Project preparation, problems and suggested solutions
    - Relevant references from journals, websites, books etc.
    - Tools/Equipments used including circuit or schematic diagrams
    - Suggestions, assignment and discussions results from supervisors
    - Summary of any relevant work that has been done

- The students' logs as recorded in their log book represent the state of the completion of the Project. Internal guides are required to verify and grade the log entries at every student-guide meetings.
- Students must record the date, time, place and signature when meeting anyone or doing any activities related to the project.
- Project activities must be written at the appropriate weekly activities section in this log book. A summary of all the weekly activities must also be written at the appropriate section. These logs will be graded by the guide every week.
- It is compulsory to have a regular meeting with his/her guide. Failing to do so, the allocated marks will be reflected regardless of the outcome of the project.

Log book

- Use a ring binder for the log book.
- All printed papers should be paged accordingly.
- Any results (experimental results or simulation) can be printed and kept as an attachment. The page number should be mentioned in the weekly progress report.
- The weekly progress report should be recorded every week and any attached-printed results can be put after the weekly progress Report.