Course Description Form

1. Course Name:
Computer Applications 1

2. Course Code:
MPAC4207

3. Semester / Year:
Annual

4. Description Preparation Date:
2024/03/21

5. Available Attendance Forms:
☒ Lecture ☒ Lab

6. Number of Credit Hours (Total) / Number of Units (Total)
Number of Credit Hours (150) / Number of Units (7)

7. Course administrator's name (mention all, if more than one name)
Name: Assist. Lech. yousif saadoon abd alh aljdaey Email: yousif.abdalh.ims@atu.edu.iq

8. Course Objectives

Course Objectives	To make the student able to process, program, and solve arithmetic and engineering problems using Matlab

9. Teaching and Learning Strategies

Strategy	1. To apply the knowledge about Matlab. 2. To enable students solve scientific and mathematical problems, write codes, design projects and process images.

10. Course Structure

	Material Covered
Week 1	Introduction to Matlab
Week 2	Mathematical Functions
Week 3	Vectors & Matrices
Week 4	Vectors & Matrices
Week 5	Introduction to Programming in MATLAB
Week 6	Control flow
Week 7	Control flow
Week 8	Debugging

Week 9	Mathematical Equations
Week 10	Graph Plot
Week 11	GUI
Week 12	GUI
Week 13	Image Processing
Week 14	Simulink
Week 15	**Preparatory week before the final Exam**

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Recommended Texts (Website)	https://www.mathworks.com/products/matlab.html