



CENTRAL UNIVERSITY OF KERALA

CSC5053 - MATLAB

A value added course for all disciplines/programmes

Course offered by: Department of Computer Science

Department of Computer Science, Central University of Kerala is offering a **value added course (CSC5073 – MATLAB)** of **30 hours** duration for the PG students only.

Course Instructor: Dr. Rajesh R., Associate Professor and Head,
Department of Computer Science, CUK

MATLAB is widely used in industry and also for research and development. **MATLAB make our programming easy MATLAB coding is easy as compared to other programming languages. MATLAB provide good plotting/ visualization support. MATLAB provides statistical and machine learning toolbox for research.** MATLAB software can be used in online mode through a web browser (even using a mobile device) as well as installing in your system/laptop. All those who join the course will be **provided with instructions for getting login ID and password.**

Value added courses **will not have any credits** and hence **no credits** will be added to your mark list. There will be continuous assessment in the course and a certificate will be provided at the end of the course.

AUDITED/VALUE ADDED COURSES*					
COURSE CODE	COURSE TITLE	CONTACT HRS/WEEK			CREDITS
		LEC	LAB	TUT	
CSC5053	MATLAB	2	1	1	Nil

*Syllabus may slightly vary and will be customized based on the level of students. No Credits added to marklists.

Course Objective:

The main objective of this course is to impart knowledge on the basic principles of programming using MATLAB.

By completing this course, students will obtain the following course/learning outcomes:

1. Knowledge gained:
 - (i) State of art of programming techniques using MATLAB
2. Skill gained:
 - (ii) Designing algorithms using MATLAB
3. Competency gained:
 - (iii) Development of real life applications using MATLAB.

Prerequisites: Nil

Grading:

Lab implementation	– 25%	Participatory based group Project	– 25%
Assignment/Quiz/presentation	– 25%	Individual project	– 25%

CSC5053 – MATLAB - Syllabus

Module 1

The MATLAB environment and getting touch/help, MATLAB search path, advantages and disadvantages of MATLAB, applications.

Module 2

MATLAB basics: variables and arrays, initializing variables in MATLAB, multidimensional arrays, sub arrays, end function, disp function, fprintf function, load and save commands, scalar operations, array and matrix operations, built-in MATLAB functions, Introduction to plotting, 2-D plots and 3-D plots.

Module 3

Program design techniques: logical data type, relational operators, logic operators, logical functions. Branching statements: if...else, switch, Loops: while, for, break, continue, nesting loops, complex data, string functions, user defined functions, case study

Text Books/References:

1. Stephen J. Chapman, Essentials of MATLAB Programming, Wadsworth Publisher, 2008
2. Stormy Attaway, A Practical Introduction to Programming and Problem Solving, 4th edition, Elsevier, 2016
3. Ram N. Patel, Ankush Mittal, Programming in MATLAB a Problem Solving Approach, Person Publication, 2014.
4. Manoj Khanna, Geeta Bhatt, Pawan Kumar. MATLAB Essentials for Problem Solving, PHI Learning Publisher, 2016.

Time for the Academic Year 2020-21

Time Table for Batch 1: Course Start date: 24th May – 26th June 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5pm - 6pm	5pm - 6pm	No class	5pm - 6pm	5pm - 6pm	2.30pm - 4.30pm

Time Table for Batch 2: Course Start date 28th June – 31st July 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5pm - 7pm	5pm - 7pm	5pm - 7pm			

Time Table for Batch 3: Course Start date 28th June – 31st July 2021

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			5pm - 7pm	5pm - 7pm	5pm - 7pm

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