



Ministry of Higher Education and Scientific Research  
Mustansiriyah University /College of Science  
Department of Mathematics  
(الخطة الدراسية للمعاق)  
Course Plan



Course No.: 54453144      Time Division: 3 hr Theoretical and 2hr Practical  
Course Name: Numerical Analysis      Semester & Year: First, 2022 / 2023

Course Website:

Course Description:

This subject presents the Errors, solutions of nonlinear equations, numerical solutions of linear systems

Course Intended Outcomes:

The aim of this course is to learn the students the concept and importance of numerical analysis

Course Outline:

Week	Description depends on the Timing table (Theoretical & Practical)
1	Introduction to MATLAB
2	Mathematical, Logical Operations
3	Triagonal functions
4	Exponential functions
5	Plotting in MATLAB
6	Delta Operator
7	Newton Forward
8	Plotting Newton Forward
9	Lagrange polynomial
10	Newton Divided
11	Plotting Newton Divided
12	Hermit interpolation
13	Plotting Hermit interpolation
14	Least-square
15	Taylor series

Textbooks:

[1]: Richard L.Burden "Numerical analysis" 2001

(1): Abdul J. Jerri "Introduction to integral equations with applications" 1985

Suggested references:

Marking:

First Semester			Final Exam
1st exam	2nd exam	Activity	
8	8	8	12

Assignment/ Project	Description	Due Date	Marking
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Instructor(s) information [معلومات الأستاذ]

Section: (Mathematics) ; Lecture Room: [ 204 ] ; Office No.: ( 11 )

Instructor's Name: Israa Mohammed Hassoon

E-Mail: [isrmo9@uomustansiriyah.edu.iq](mailto:isrmo9@uomustansiriyah.edu.iq)

Office Hours: Thurs.: [ 8: 30 - 10: 10 ]

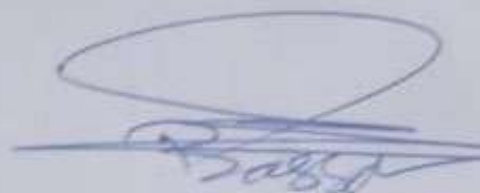
NOTES:

-Office Hour: Other office hours are available by appointment.

-The content of this syllabus not be changed during the current semester.



Lecturer Signature



Chairman Signature