



Ministry of Higher Education and Scientific Research
Mustansiriyah University /College of Science
Department of Mathematics
(الخطة الدراسية للمنتاق)
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	Absolute error, Relative error
3	Bisection method
4	False Position
5	Newton Raphson method
6	Fixed method
7	Secant method
8	Gaussian elimination method
9	LU decomposition method
10	Newton Divided
11	Jacobi
12	Gauss-seidel
13	Lagrange
14	Newton Forward
15	Plotting Newton Forward

Textbooks:

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

[2]: Abdul J. Jerri "Introduction to integral equations with applications" 1985

Suggested references:

[1]: Joel H. Ferziger "Numerical methods for engineering application" 1998

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)

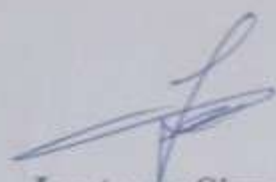
Instructor's Name: Israa Mohammed Hassoon

E-Mail: isrmo9@uomustansiriyah.edu.iq

Office Hours: Mon.: [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