



 $Subject: \ {\bf Mathematical \ III} \ ({\bf Numerical \ Method})$

	Name: Dr. Laith M.J.		Lecture Number: (1)	
	Topics: 1-Introduction and app 2-Approximations and			
Lecture Contents:	Contents: 1- Why do you study the some engineering probuse 2- Round-off and Trundefinitions, absolute an examples.	lems, cation error, absolute		





 $Subject: \ {\bf Mathematical \ III \ (Numerical \ Method)}$

Class: 3rd

	Name: Dr. Laith M.J.		Lecture Number:	(2)	
	Topics: 1- Numerical Solution of Nonlinear Algebraic Equations (Roots of Equations) 2- Bracketing Methods				
Lecture Contents:	Contents: 1- Introduction and class 2- Graphical methods, amethods, advantage and	notes about the roots a		s, Bisection	

Name: Phone: Email





 $Subject: \ {\bf Mathematical \ III \ (Numerical \ Method)}$

	Name. Dr. Laim W.J.		Lecture Number.	(3)
	Topics: 1- Bracketing Meth 2- Open Methods	ods		
Lecture Contents:	Contents: 1- The False-Position in examples. 2- The main difference fixed-point iteration me	between bracketing a	_	





 $Subject: \ {\bf Mathematical \ III \ (Numerical \ Method)}$

Class: 3rd

	Name: Dr. Laith M.J.		Lecture Number:	(4)
	Topics: 1- Open Methods 2- engineering exer	rcises		
Lecture Contents:	Contents: 1- The two curve graph of the Newton-Raphson 2- solution of some eng	n method, examples.	n-Raphson method,	Drawbacks

Name: Phone: Email





 $Subject: \ {\bf Mathematical \ III} \ ({\bf Numerical \ Method})$

	Name: Dr. Laith M.J.		Lecture Number:	(5)
	Topics: 1- Linear Algebraic Equations 2- Singular and ill-conditioned system			
Lecture Contents:	Contents: 1- Introduction, Special methods for solving systematical methods, advar-Definition of Singular Graphical method.	stems of linear equation vantage and disadvant	ons, direct and indicage.	rect





 $Subject: \ {\bf Mathematical \ III} \ ({\bf Numerical \ Method})$

	Name: Dr. Laith M.J.		Lecture Number:	(6)
	Topics: 1- Direct Methods 2- Gauss-Jordan	Method		
Lecture Contents:	forward eliminat	on method, pivoting (pion, backward substitemethod procedure,	ution, examples.	e pivoting),





 $Subject: \ {\bf Mathematical \ III} \ ({\bf Numerical \ Method})$

Class: 3rd

	Name: Dr. Laith M.J.		Lecture Number: (7)	
	Topics: 1- LU-Decompos 2- Indirect (or ite equations		solving linear algebra	ic
Lecture Contents:		sition method proce eneral form, Conver		

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 $Subject: \ {\bf Mathematical \ III \ (Numerical \ Method)}$

	Name: Dr. Laith M.J.		Lecture Number:	(8)
	Topics:			
	1- Jacobi iterative 2- Gauss-Seidel i			
Lecture Contents:		e method algorithm terative method alg		





 $Subject: \ {\bf Mathematical \ III \ (Numerical \ Method)}$

Class: 3rd

	Name: Dr. Laith M.J.		Lecture Number:	(9)
		terative with relaxa i-diagonal systems	tion factor meth	od
Lecture Contents:	relaxation factor relaxation examples	terative with relaxa or effects, over-rela mple. ystems form, Thom	axation and unde	r-

Name:

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اسم التدريسي رقم الهاتف عنوان البريد الاليكتروني





 $Subject: \ {\bf Mathematical \ III \ (Numerical \ Method)}$

Class: 3rd

	Name: Dr. Laith M.J.		Lecture Number:	(10)
	Topics: 1- Curve Fitting 2- Linear Regress	sion		
Lecture Contents:	Contents: 1-Introduction, curv regression, linear an 2- Introduction of lin Linear Regression, March 1985.	d nonlinear interponear regression, Le	lation. ast Square Criter	ion of

Name:

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