Ministry of Higher Education & Scientific Research University of Anbar College of Computer Science and Information Technology

Computer Networks Systems Department





Department of Computer Networks Systems Practical Course Description

Course Title: Advance mathematics Course Code: Semester: 1 st semester Level: B.Sc. Class: 2 nd Academic Year: 2022/2021

Course Instructor: Learning Outcomes, Teaching ,Learning and Assessment Method Academic status: Assistant teacher Place of work: Computer Networks systems Department Credit Hours: 45 Instructor Office Hours: E-mail (Official): taiseer.a.yaseen@uoanbar.edu.iq Mobile Number: 07903468936 Ministry of Higher Education & Scientific Research University of Anbar College of Computer Science and Information Technology

Computer Networks Systems Department



وزارة التعملم العا

ؚۣؖؖٛڬؖڵۑڰؚۛۼؚڵۏڡؚٚڸؚڵٵڛ*ؚٞ*ۅۊٙۦؿؚڰۏۘۅڿڽٳڵڵۼڵۏؘؿؾ

Objectives:

- **1. Course Description:**
- 2. **Methods of Teaching:** Teaching and Learning Methods By Solving many exercises
- 3. Assessment Method: 5% homework, 10% oral exam, 5% quiz, 20 mid exam, 60% final exam
- 4. **Recommended Text Books and References:** Thomas, G. Calculus and Analytic Geometry, 5th Edition, Addison Wesly, 1999.
- A. Textbook:
- B. Other References:

Lecture Schedule:

147 1	
weeks	lopics
Week 1	Introduction to differential equation
Week 2	Types of differential equation
Week 3	Linear and Nonlinear DE
Week 4	Types of First Order and First Degree
Week 5	Variable Separable Equation
Week 6	Leibnitz's (linear) Equation
Week 7	Bernoulli's Differential Equation
Week 8	Exact Differential Equation
	Midterm Exam
Week 9	Non Exact Differential Equation
Week 10	Homogeneous and Non Homogeneous DE

Ministry of Higher Education & Scientific Research University of Anbar College of Computer Science and Information Technology







ؖ ؚٛڬڵۑ؋ؚۘۼ۪ڶۏؠٚٳڵٵڛؘڂؚۏۊٙ؞ؿۏڵۏڿ۫ٳٳٲڵۼڵۏؾٚ

 Week 11
 Second order differential equation with constant coefficient

 Week 12
 Laplace transform

 Week 13
 Laplace Invers transform

 Week 14
 Power series

 Week 15
 Fourier series