TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	University of Anbar
2. University Department/Centre	Computer science
3. Course title/code	Advance mathematics
4. Programme(s) to which it contributes	classroom
5. Modes of Attendance offered	Attendance
6. Semester/Year	1st semester
7. Number of hours tuition (total)	45
8. Date of production/revision of this specification	

9. Aims of the Course
1-To describe the aim of study advance mathematics
2-To understand what difference between ordinary equation and differential equation
3- To understand the difference between the type of differential equation
4- To learn the type of method to solve the differential equation
5- To apply the application of differential equation

10· Learning Outcomes, Teaching ,Learning and Assessment Method
A- Knowledge and Understanding A1. Understand the concept of ordinary and partial A2.Understand the method of solving the first order differential equation A3.Understand the method of solving second order differential equation A4. Understand the Laplace transform A5.Understand the Fourier series A6 .
B. Subject-specific skills B1.expliean what mean of ordinary and partial B2.classify the method of solving B3. Classify the differential equation
Teaching and Learning Methods
By solving many exercises
Assessment methods
10% homework 20% quiz 10% oral exam 20% mid exam 40% final exam

D. General and Transferable Skills (other skills relevant to employability and personal development)
  D1.
  D2.
  D3.
  D4.

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3		Abstract of differential equation		
2	3		Separable equation		
3	3		Solve some example		
4	3		Homogenous equation		
5	3		Exact equation		
6	3		Linear equation		
7	3		Some example		
8	3		Bernoulli equation		
9	3		Second order differential equation		
10	3		Some example		
11	3		Laplace transform		
12	3		Power series , Fourier series		
13	3		Mid exam		
14	3		Review		
15	3		Final exam		

12. Infrastructure

| Required reading:
· CORE TEXTS
· COURSE MATERIALS
· OTHER	Lecture notes of Advance mathematics , by Makarim alturky

13. Admissions

Pre-requisites	
Minimum number of students	20
Maximum number of students	40