***College : Engineering***

***Department : Environmental***

***Stage:* Second**

***Republic of Iraq***

***Ministry of Higher Education and scientific research***

***University of Baghdad***

***Quality Assurance and Academic***

***Performance Department***

**Course Syllabus**

**Name of the First Teacher of the Course: Abeer Ibrahim Mousa**

**Accademic Rank: Assistance professor**

**Degree: Ph.D in Environmental Engineer**

**E-mail: abeerwared@yahoo.com**

|  |  |
| --- | --- |
| **Mathematic** | **Course Title** |
| **Annual**× | **Semester System** | **Academic System** |
| A key ingredient in learning mathematics is environmental problem solving | **Course Objectives** |
| * CalculusII
 | **Textbooks** |
| * Advanced Calculus by Robert C. Wrede and Murray Spiegel, second edition
* Advanced Engineering Mathmatics by Erwin Kreyszing

 | **Reference Books** |
| **End Semester Examination** | **Project** | **Quizzes** | **Laboratory work** | **Theoretical Content Exam** | **Course Assessment for Semester System****(100%)** |
|  |  |  |  |  |
| **Final Examination** | **Laboratory Work** | **Second Term** | **Midterm Exam** | **First Term** | **Course Assessment for Annual System****(100%)** |
| **70%** | **---** | **15%** | **---** | **15%** |
|  | **Additional Information** |

**Weekly Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Notes** | **Laboratory Work** | **Theoretical Content** | **week** |
|  |  | **Matrices** | **1** |
|  |  | **Matrices** | **2** |
|  |  | **Matrices** | **3** |
|  |  | **Quiz** | **4** |
|  |  | **Hyperbolic function** | **5** |
|  |  | **Hyperbolic function** | **6** |
|  |  | **Hyperbolic function** | **7** |
|  |  | **Hyperbolic function** | **8** |
|  |  | **Hyperbolic function** | **9** |
|  |  | **Polar coordinates** | **10** |
|  |  | **Polar coordinates** | **11** |
|  |  | **Quiz** | **12** |
|  |  | **Partial derivatives** | **13** |
|  |  | **Partial derivatives** | **14** |
|  |  | **Partial derivatives** | **15** |
|  |  | **Double integral** | **16** |
|  |  | **Double integral** | **17** |
|  |  | **Double integral** | **18** |
|  |  | **Quiz** | **19** |
|  |  | **Vectors** | **20** |
|  |  | **Vectors** | **21** |
|  |  | **Vectors** | **22** |
|  |  | **Quiz** | **23** |
|  |  | **Deferential equations** | **24** |
|  |  | **Deferential equations** | **25** |
|  |  | **Deferential equations** | **26** |
|  |  | **Deferential equations** | **27** |
|  |  | **Deferential equations** | **28** |
|  |  | **Deferential equations** | **29** |
|  |  | **Quiz** | **30** |