**Republic of Iraq**

**The Ministry of Higher Education**

**& Scientific Research**

بسم الله الرحمن الرحيم


**University: Diyala**
**College: Engineering**
**Department: Communications**
**Stage: Third**
**Lecturer name: Israa H. Ali**
**Academic Status: Assistant lecturer**
**Qualification:MSc**
**Place of work: Communications Dept.**

# Flow up the implementation of course syllabus

| | | | | |
|---|---|---|---|---|
| **Course Instructor** | Israa H. Ali | | | |
| **E_mail** | pg_student75@yahoo.com | | | |
| **Title** | Engineering Analysis | | | |
| **Course Coordinator** | **3 hours weekly** | | | |
| **Course Objective** | This course is designed to introduce to the student the fundamentals of the theory of Engineering Analysis. The course will provide knowledge of Electrical Engineering Analysis with multi methods. | | | |
| **Course Description** | The subject divided in to several chapters, as follow:<br>Chapter One: Fourier Transform<br>Chapter Two: Z-Transform<br>Chapter Three: Graphical convolution<br>Chapter Four: Statistics<br>Chapter Five: probability<br>Chapter Six: complex variable thoery<br>Chapter seven: Matrix analysis<br>Chapter Eight: power series<br>Chapter Nine: Numerical analysis | | | |
| **Textbook** | 1. Advanced Engineering Mathematics, 3rd edition, by C. R. Wylie<br>2. Advanced engineering mathematics 10 th edition | | | |
| **Course Assessment** | First Term | 2nd Term | Project | Final Exam |
| | 20 % | 20 % | ---- | 60 % |
| **General Notes** | | | | |

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# Course Weekly Outline

| week | Date | Topics Covered | Notes |
|---|---|---|---|
| 1 | 3/10/2015 | Fourier transform | |
| 2 | 10/10/2015 | Fourier transform | |
| 3 | 17/10/2015 | Fourier transform | |
| 4 | 24/10/2015 | Z-transform | |
| 5 | 31/10/2015 | Z-transform | |
| 6 | 7/11/2015 | Z-transform | |
| 7 | 14/11/2015 | Z-transform | |
| 8 | 21/11/2015 | Statistics | |
| 9 | 28/11/2015 | Statistics | |
| 10 | 5/12/2015 | Statistics | |
| 11 | 12/12/2015 | Statistics | |
| 12 | 19/12/2015 | Probability | |
| 13 | 26/12/2015 | Probability | |
| 14 | 2/1/2016 | Probability | |
| 15 | 9/1/2016 | Probability | |
| 16 | 16/1/2016 | Probability | |
| 17 | 23/1/2016 | Complex variable theory | |
| **Half-Year Break** | | | |
| 18 | 20/2/2016 | Complex variable theory | |
| 19 | 27/2/2016 | Complex variable theory | |
| 20 | 6/3/2016 | Matrix analysis | |
| 21 | 13/3/2016 | Matrix analysis | |
| 22 | 20/3/2016 | Matrix analysis | |
| 23 | 27/3/2016 | Power series | |
| 24 | 3/4/2016 | Power series | |
| 25 | 10/4/2016 | Power series | |
| 26 | 17/4/2016 | Numerical analysis | |
| 27 | 24/4/2016 | Numerical analysis | |
| 28 | 1/5/2016 | Numerical analysis | |
| 29 | 8/5/2016 | Numerical analysis | |
| 30 | 15/5/2016 | Complex variable theory | |
| 31 | 22/5/2016 | Complex variable theory | |

**Instructor Signature:** **Dean Signature:**