

Republic of Iraq
The Ministry of Higher Education
& Scientific Research



University: Diyala
College: Engineering
Department: Communications
Stage: Fourth
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 | microwave | | | |
| Course Coordinator | 3 hours weekly | | | |
| Course Objective | This course is designed to introduce to the student the fundamentals of the theory of microwave. The course will provide knowledge of generation microwave signal and the methods of transitions in air and waveguide | | | |
| Course Description | The subject divided in to several chapters, as follow: Chapter One: Maxwell Equation theory review Chapter Two: Uniform plane wave Chapter Three: Transmission Line Chapter Four: Waveguide Chapter Five: Cavity Resonator Chapter Six: Microwave active device Chapter seven: Microwave passive device | | | |
| Textbook | <ol style="list-style-type: none"> 1. Grebennikov, Andrei, 2011, RF and Microwave Transmitter Design, John Wiley & Sons. 2. David Pozar, 2004, Microwave Engineering, Second Edition, Wiley | | | |
| Course Assessment | First Term | 2 nd Term | Project | Final Exam |
| | 20 % | 20 % | ---- | 60 % |
| General Notes | | | | |

Course Weekly Outline

| week | Date | Topics Covered | Notes |
|------------------------|------------|----------------------------|-------|
| 1 | 7/10/2015 | Electromagnetic wave | |
| 2 | 14/10/2015 | Electromagnetic wave | |
| 3 | 21/10/2015 | Electromagnetic wave | |
| 4 | 28/10/2015 | Transmission Line | |
| 5 | 4/11/2015 | Transmission Line | |
| 6 | 11/11/2015 | Transmission Line | |
| 7 | 18/11/2015 | Transmission Line | |
| 8 | 25/11/2015 | Transmission Line | |
| 9 | 2/12/2015 | Waveguide | |
| 10 | 9/12/2015 | Waveguide | |
| 11 | 16/12/2015 | Waveguide | |
| 12 | 23/12/2015 | Waveguide | |
| 13 | 30/12/2015 | Impedance Matching | |
| 14 | 6/1/2016 | Impedance Matching | |
| 15 | 13/1/2016 | Electromagnetic Resonators | |
| 16 | 20/1/2016 | Electromagnetic Resonators | |
| Half-Year Break | | | |
| 17 | 24/2/2016 | Electromagnetic Resonators | |
| 18 | 2/3/2016 | Electromagnetic Resonators | |
| 19 | 9/3/2016 | Electromagnetic Resonators | |
| 20 | 16/3/2016 | microwave Passive Devices | |
| 21 | 23/3/2016 | microwave Passive Devices | |
| 22 | 30/3/2016 | microwave Passive Devices | |
| 23 | 6/4/2016 | microwave Passive Devices | |
| 24 | 13/4/2016 | microwave Passive Devices | |
| 25 | 20/4/2016 | Microwave Active Devices | |
| 26 | 27/4/2016 | Microwave Active Devices | |
| 27 | 4/5/2016 | Microwave Active Devices | |
| 28 | 11/5/2016 | Microwave Active Devices | |
| 29 | 18/5/2016 | Microwave Active Devices | |

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Instructor Signature:

Dean Signature: