



### Course Weekly Outline

<b>Course Lecturer</b>	Ghufan Mohammed Jassim			
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<b>Title</b>	Electronic circuits			
<b>Course Coordinator</b>				
<b>Course Objective</b>	<p>a. Providing students with the most important principles and basics of electronic device and circuit</p> <p>b. Teaching students how to apply electronic device and circuit</p> <p>c. Providing graduates with the necessary knowledge on electronic device and circuits in organizations.</p> <p>d. Improving the administrative skills in the field of electronic device and circuits</p> <p>e. Providing graduates with the skills of education and creative learning.</p>			
<b>Course Description</b>	This course description provides a brief survey of the most important characteristics, expected learning output, showing whether students have made full use of the learning opportunities. These characteristics have to be matched with the description of the program.			
<b>Textbook</b>	Boylestad Robert L and Louis Nashelsky. 1978. Electronic Devices and Circuit Theory. 2d ed. Englewood Cliffs N.J: Prentice-Hall.			
<b>References</b>				
<b>Course Assessment</b>	<b>Term Exam</b>	<b>Project</b>	<b>Quizzes and Attendance</b>	<b>Final Exam</b>
	30	10	10	50
<b>General Notes</b>				

**Republic of Iraq**  
**The Ministry of Higher Education**  
**and Scientific Research**  
**Supervision and Scientific**  
**Evaluation Body**



**College : Shatt Al Arab**  
**University College**  
**Department : Business**  
**Administration**  
**Stage:**  
**Lecturrer Name:**  
**Academic Status:**  
**Qualification:**

Topics Covered	Date	Number of Hours	Week
Physic of semiconductor	2022/10/9	4	2-1
Physic of semiconductor diode			
Physic of Transistor	2022/10/23	2	3
Diode equivalent circuits DC analysis	2022/10/30	2	4
Ac to DC Half and Full Wave Rectifier	2022/11/6	4	6-5
Clipper circuit	2022/11/20	4	8-7
Clamper circuit			
BJT transistor DC equivalent circuits	2022/12/4	8	12-9
Common Base (C.B) and Common Collector (C.C)			
Common Emitter (C.E) and DC analysis			
Load line and Q-point			
BJT transistor AC equivalent circuits h-parameters	2022/12/1	8	16-13
BJT transistor AC equivalent circuits re-parameters			
Transistor			

Amplifier			
Transistor Amplifier			
FET transistor DC equivalent circuits	2022/12/29	8	20-17
Common Gate (C.G) and Common Source (C.S)			
Common Drain (C.D) and DC analysis			
Load line and Q-point			
Power Amplifiers		4	22-21
Operational Amplifier circuits		8	26-23
Inverter and non-inverter			
Summing and subsector			
Integration and diff.			
Oscillators		4	28-27
Integrated Circuits		4	30-29



**Lecturer signature**

**Head of Department Signature**