

وصف مقرر دراسي Course Description

متطلب متزامن	متطلب سابق	تمارين	عملي	نظري	الساعات	اســــــم المقـــــرر	رقم ورمز المقرر
Co-Req.	Pre-Req	TU	LB	LT	CR	Course Title	Course Code
405 كهر	-		2	-	1	معمل الدوائر المتكاملة	406 كهر
EE 405	-	_				Integrated Circuits Laboratory	EE 406

محتويات المقرر:

قياس بارمترات الدوائر المتكاملة الخطية قياس بارمترات الدوائر المتكاملة الرقميه و اختبارها. . الدوائر المتكاملة المختلطة و اختبارها. منظمات الجهد الغير خطية

Course Contents:

Electronic Design Automation. Linear IC Measurements and Testing, Digital IC and their Testing, Mixed-Signal IC's measurement and Testing. Switched-mode Power Supply IC's.

Course Objectives:

- A- Knowledge and Understanding of
 - 1-Integrated circuits, technology, design methodologies and applications (Analog, Digital and Mixed signal IC's)
 - 2- IC systems and Printed circuit boards (PCB's), fabrication and troubleshooting
- B- To Have Intellectual Skills in:
 - 1- Electron Design Automation.
- C- To acquire Professional and Practical skills in:
 - 1- Design of IC-based systems for specific applications, and their troubleshooting methods.
 - 2- Design of PCB systems, and their troubleshooting methods.
- D- General (non-cognitive) and transferable skills
 - 1- Team work 2- Time management and projects organization

Evaluation Methods:

- 1. Midterm exams
- 3. Lab. Reports
- 2. Term project

4. Final exam

Text Book and References:

1- Symon Hykin, Communication Systems, John-Wiley & Sons, NY, 2000