Analog IC Design Roadmap

Arabic Resources

Physics of Semiconductors PHM122	Videos	Textbook
		TCAUDOOK
	Slides	Assignments
Electronics ECE211	Videos	Textbook 1
(Dr. Hesham Omran)	Assignments	Textbook 2
	Labs	
Solid State Electronic Devices ECE213	Videos	Textbook
	Slides	Problem Sets
	Labs	
Digital Circuits ECE212	Videos	Textbook
(Dr. Sameh Ibrahim)	Assignments	Project (VI)
Analog Circuits 1 ECE312	Videos	Textbook 1
	Assignments	Textbook 2
Analog IC Design	Videos 1	Textbook
(Dr. Hesham Omran)	Videos 2	Labs (VI)
	Cadence Tutorials	Slides
Digital IC Design	Videos 1	Textbook
(Dr. Hesham Omran)	Videos 2	Labs (VI)
	Videos 3	Slides
Fabrication and Layout Technology	Videos (Dr. Hani Ragaai)	
	Videos (Dr. Sameh Ibrahim)	Textbook
Advanced Top	pics	
Modern VLSI Devices ECE317	Videos	Textbook
	Slides	Other References
	Assignments	
Analog IC Design ECE412	Videos	Textbook
	Assignments	
Analog RF IC Design	Videos 1	Textbook
(Dr. Mohamed El-Nozahi)	Videos 2	Slides
		Assignments
Analog Integrated Systems Design ECE486	Videos	Textbook
	Slides	Labs
Very Advanced '	Topics	
Power Management Units ECE639	Videos (Dr. Sameh Ibrahim)	Slides
	,	Slides
	Textbook 1	Textbook 2
High-Speed Serial Links	Videos	Slides
(Dr. Sahmeh Ibrahim)		
	(Dr. Hesham Omran) Solid State Electronic Devices ECE213 Digital Circuits ECE212 (Dr. Sameh Ibrahim) Analog Circuits 1 ECE312 Analog IC Design (Dr. Hesham Omran) Digital IC Design (Dr. Hesham Omran) Fabrication and Layout Technology Advanced To Modern VLSI Devices ECE317 Analog IC Design ECE412 Analog RF IC Design (Dr. Mohamed El-Nozahi) Analog Integrated Systems Design ECE486	(Dr. Hesham Omran)

English Resources

No.	Course	Link	Material
1	Integrated Circuit Devices EE130	Videos	Textbook
			Assignments
2 (Optional)	Solid State Devices EE230	Lecture Notes	References
			Assignments
3 (VI)	Razavi Electonics 1	Videos	Textbook 1
		Assignments (ASU)	Textbook 2
3.1 (Optional)	Microelectronic Devices and Circuits EE105	Videos	Textbook 2
4 (VI)	Razavi Electonics 2	Videos	Textbook
			Assignments (ASU)
5	Analog Integrated Circuits EE140	Videos	Textbook
			Assignments
6	Digital Integrated Circuits EE141	Videos	Textbook
		Assignments (ASU)	Assignments
		Cadence Tutorials	Labs
7	Microfabrication Technology EE143	Videos	Textbook
		Labs	Assignments
8	Integrated Circuits for Communication (RF) EE142	Lecture Notes	Textbook
			Labs
	Advanced Topics		
9	Advanced Analog Integrated Circuits EE240	Videos (Elad)	Textbook 1
		Videos (Simone)	Textbook 2
		Videos (Hajmiri)	Slides
			Assignments
10	Advanced Digital Integrated Circuits EE241	Videos	Textbook 1
		Assignments	Textbook 2
	Very Advanced Topics		
11	High-Speed Electrical Interface Circuit Design EE290C	Videos	Textbook1
	(Serial Links)	Textbook 2	Textbook 3
12	Analog-Digital Interface Integrated Circuits EE247	Videos	Textbooks
		Lecture Notes	Assignments
13	CMOS and BiCMOS Data Conversion Circuits EE505	Videos	Textbooks
		Lecture Notes	Assignments
			Labs
14	Introduction to MEMS Design EEC247B	Videos	Textbook
			Assignments