Analog IC Design Roadmap

Arabic Resources

No.	Course	Link	Material
1	Physics of Semiconductors PHM122	Videos	Textbook
		Slides	Assignments
2 (VI)	Electronics ECE211	Videos	Textbook 1
	(Dr. Hesham Omran)	Assignments	Textbook 2
		Labs	
3	Solid State Electronic Devices ECE213	Videos	Textbook
		Slides	Problem Sets
		Labs	
4	Digital Circuits ECE212	Videos	Textbook
	(Dr. Sameh Ibrahim)	Assignments	Project (VI)
5 (Optional)	Analog Circuits 1 ECE312	Videos	Textbook 1
		Assignments	Textbook 2
6 (VI)	Analog IC Design	Videos 1	Textbook
	(Dr. Hesham Omran)	Videos 2	Labs (VI)
		Cadence Tutorials	Slides
7	Digital IC Design	Videos 1	Textbook
	(Dr. Hesham Omran)	Videos 2	Labs (VI)
		Videos 3	Slides
8	Fabrication and Layout Technology	Videos (Dr. Hani Ragaai)	
		Videos (Dr. Sameh Ibrahim)	Textbook
	Advanced To	pics	
9 (Optional)	Modern VLSI Devices ECE317	Videos	Textbook
		Slides	Other References
		Assignments	
10	Analog IC Design ECE412	Videos	Textbook
		Assignments	
11	Analog RF IC Design	Videos 1	Textbook
	(Dr. Mohamed El-Nozahi)	Videos 2	Slides
			Assignments
12	Analog Integrated Systems Design ECE486	Videos	Textbook
		Slides	Labs
•	Very Advanced	Topics	
13	High-Speed Serial Links	Videos	Slides
	(Dr. Sahmeh Ibrahim)		
14	Introduction to MEMS Design	Videos	

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	Introduction to MEMS Design EEC247B	Videos	Textbook
			Assignments