DEPARTMENT OF ELECTRONICS
Cochin University of science and Technology

Course Schedule

Course: M.Sc.	**Name of Faculty:** Swathy K C
Topic: ELE 2205 Microwave Integrated Circuits	**Semester:** II
Lecture Hall:	**Timings:** as per CBCS

Week and date	Lecture topics	Assignments	Remarks
Week 1 (3rd January 2017)	**Module I** - Strip line, Microstrip line -coplanar line -quasi – static model of microstrip line -effective permittivity		
Week 2 (9th January 2017)	-characteristic impedance - substrates for MIC -slot line and coplanar waveguide	**Assignment I** dielectric and conductor Losses	
Week 3 (16th January 2017)	**Module II** - Discontinuities in Micro strip lines and coplanar lines, step, bent,		
Week 4 (23rd January 2017)	- T- junction, Hybrid line coupler parallel coupled line and directional couplers, Even and odd mode analysis		
Week 5 (30th January 2017)	-Branch line couplers, impedance transformers	**Assignment I Submission**	
Week 6 (6th February 2017)	**First Internals**		
Week 7 (13th February 2017)	**Module III** - Design and fabrication of lumped elements, circuits using lumped elements. Filters		
Week 8 (20th February 2017)	**Module IV** - Microstrip on Ferromagnetic substrates		
Week 9 (27th February 2017)	-Microstrip circulators. Isolators and phase shifters		
Week 10 (6th March 2017)	- Design of microstrip circuits (high power and low power circuits).		
Week 11 (13th March 2017)	**Module V** - Thick film and Thin film technology. Hybrid MIC's.	**Assignment II** Lumped constant Microstrip circuits	

Week 12 (20th March 2017)	- Monolithic MIC technology, fabrication process, testing methods.		
Week 13 (27th March 2017)	**Second Internals**		
Week 14 (3rd April 2017)	- encapsulation and mounting of devices	**Assignment II submission**	