



Course: M.Tech	Name of Faculty: Priyanka Raghuthaman
Topic: ELE 3211L RF MEMS LAB	Semester: II
Lecture Hall:	Timings: as per CBCS

<i>Week and date</i>	<i>Lab Assignments</i>	<i>Remarks</i>
10-JAN-17 to 16-JAN-17	INTRODUCTION TO COMSOL	
17-JAN-17 TO 02-FEB-17	START OF LAB CYCLE ONE <sup>1</sup>	Lab cycle one enclosed
6th FEB 17	Series Exam I	ELE 3201
7th FEB 17		ELE 3202
8th FEB17		ELE 3204
9th FEB 17		ELE 3208/3211
10th FEB 17		ELE 3207/3209
13-FEB-17		EVALUATION OF LAB CYCLE ONE INTRO TO ANSYS AND HFSS
14-FEB-17 TO 24-FEB-17	START OF LAB CYCLE TWO <sup>2</sup>	Lab cycle enclosed
27 <sup>th</sup> FEB 17 TO 3 <sup>rd</sup> March 17	Seminar	
06-MAR-17 TO 09-MAR-17	CONT... LAB CYCLE TWO <sup>2</sup>	
13-MAR-17	EVALUATION OF LAB CYCLE TWO INTRO TO CST	
14-MAR-17	LITERATURE REVIEW AND SELECTION OF A MODEL PROBLEM FOR SIMULATION IN COMSOL/ANSYS HFSS	
15-MAR-17	TOPIC FINALISATION ABSTRACT SUBMISSION	
16-MAR-17	PROJECT TIMELINE	
20-MAR-17	LITERATURE REVIEW SUBMISSION	
21-MAR-17	PROJECT START	
27 <sup>TH</sup> MAR17	Series Exam II	ELE 3201
28 <sup>TH</sup> MAR 17		ELE 3202
29 <sup>TH</sup> MAR 17		ELE 3204
30 <sup>TH</sup> MAR17		ELE 3208/3211
31 <sup>ST</sup> MAR 17		ELE 3207/3209
03-APR-17		PROJECT PREVIEW

<b>04-APR-17</b>		
<b>05-APR-17</b>	<b>PROJECT FINAL EVALUATION</b>	
<b>06-APR-17</b>		
<b>6<sup>TH</sup> APRIL17</b>		<b>Result Publication</b>
<b>7<sup>TH</sup> APRIL 17</b>	<b>LAB EXAM AND VIVA</b>	
		<b>End of Semester Classes</b>

#### LAB CYCLE 1

1. SIMULATION OF RF MEMS CAPACITOR SWITCH IN COMSOL
2. SIMULATION OF RF MEMS INDUCTOR IN COMSOL
3. SIMULATION OF RF MEMS PHASE SHIFTER AARRAY IN COMSOL

#### LAB CYCLE 2

1. PARAMETER MEASUREMENT OF RF MEMS CAPACITOR SWITCH IN ANSYS/HFSS
2. PARAMETER MEASUREMENT OF RF MEMS INDUCTOR IN ANSYS/HFSS
3. PARAMETER MEASUREMENT OF PHASE SHIFTER AARRAY IN ANSYS/HFSS