Practical Session Plan

				Faculty : Bi	nsy Joseph	
CLASS			SE	SE Production, Semester IV		
	Academic	Term		Jan – April 2019		
Subject				PEC405		
			Electrical	And Electronics	engineering	
Evaluation System				Hours	Marks	
		Practical Examination				
		Oral Examination				
		Term work			25	
			Total		25	
Time Table		Day	Batch	Time		
		Monday	Monday C		1.30 –3.30 pm	
		Monday	В	3.30 –5.30 pm		
		Friday	A	1.30 –3.30 pm		
		Friday	D	3.30 –5.30 pm		
		Title o	of Experiments			
Sr. No.		Title		Module	Attained POs	
1	To study the characteristics of DC shunt motor			Module. 1. DC Motors	PO1, PO2	
2	To study the Speed Control of DC shunt motor			Module. 1. DC Motors	PO1, PO2	
3	3 To study the characteristics of 3-phase induction motor			Module. 2.	PO1, PO2	
				Induction		
				Motor		
4				Operational	PO1, PO2	
	To study Inverting and non inverting amplifier using IC741			amplifier		

	Experiment No. 1	To study the characteristics of DC shunt motor		
Batch	n Do Planned	ates Actual	Remarks	
		Practical Session Plan		
		3	PC	02
		P01		
			Programme	e Outcomes
	Overall (all ex	periments together) mapping	with POs	
performing OC & SC Test			Transformer	
To Sti	udy the efficiency and regulation of	Module4	PO1,PO2	
			SCR control	
Tos	study Speed Control of AC/ DC mo	otor using Thyristor control	Module 6	PO1,PO2
	Ne	wly added Experiments		
	Transformer by perfor	ming OC&SC Test	Transformer	
12	To Study the efficiency and	regulation of single phase	Module4	PO1,PO2
			SCR control	
11	To study Speed Control of AC/ D	Module 6	PO1,PO2	
			Stepper Motor	
10	To Learn the working prin	Module. 3.	PO1, PO2	
		Oscillators		
9	To implement the RC phase	Module 6.	PO1, PO2	
			Multiplexer	-
8	To study 8:1 multiple	Module 5.	PO1, PO2	
	· · · · · · · · · · · · · · · · · · ·	Logic Gates	,	
7	To study and verify the tru	th tables of Logic Gates	Module 5.	PO1, PO2
0	To implement Differ		amplifier	101,102
6	To implement Differe	ontiator using IC741	amplifier Operational	PO1, PO2
5	To implement Integ	Operational	PO1, PO2	

С	14-01-2019		
В	14 - 01 -2019		
A	18-01-2019		
D	18-01-2019		
1	Experiment No. 2	To study the Speed Control of DC shunt motor	
С	21-01-2019		
В	21 - 01 - 2019		
A	25-01-2019		
D	25 - 01 - 2019		
l	Experiment No. 3	To study the characteristics of 3-phase induction motor	
С	\28-01-2019		
В	28 - 01 - 2019		
A	01 - 02 - 2019		
D	01 - 02 - 2019		
l	Experiment No. 4	To study Inverting and non inverting amplifier using IC741	
С	11 - 02 - 2019		
В	11 - 02 -2019		
A	08-02-2019		
D	08-02-2019		
1	Experiment No. 5	To implement Integrator using IC741	
С	18-02-2019		
В	18-02-2019		
A	22-02-2019		
D	22-02-2019		
Experiment No. 6		To implement Differntiator using IC741	
С	18-02-2019		
В	18-02-2019		
A	22-02-2019		
D	22-02-2019		
L			

Experiment No. 7		To study 8:1 multiplexer using IC74151		
С	25 - 02 - 2019			
В	25 - 02 - 2019			
A	01 - 03 - 2019			
D	01 - 03 - 2019			
E	Experiment No. 8	To study 8:1 multiplexer using IC74151		
С	11-03-2019			
В	11 - 03 -2019			
A	08-03-2019			
D	08 - 03 - 2019			
l	Experiment No.9	To implement the RC phase shift oscillator using IC741		
С	18-03-2019			
В	18 - 03 -2019			
A	15 - 03 - 2019			
D	15-03-2019			
E	xperiment No. 10	To Learn the working principles of Stepper Motor		
С	25-03-2019			
В	25 - 03 - 2019			
A	22 - 03 - 2019			
D	22 - 03 - 2019			
Quiz No. 1				
С	01 - 04 - 2019			
В	01 - 04 -2019			
A	29-03-2019			
A	29-03-2019			

Term work:

Term work shall consist of

1. Assignments: On topics drawn from syllabus.

2. Practical's: Based on topics from syllabus, experiments can be conducted and presented with inferences.

3. Three experiments covering module no. 1 and 2.

4. From module 4 and 5, suggested experiments (any three of the following).

- i. SCR characteristics.
- ii. Speed control of DC motor by SCR.
- iii. OP Amp used as differentiator and integrator.
- iv. Multiplexers.

5. Factory report: Preparation of equipment, process, quality control and failure analysis of engineering components reports after visit to important industrial plants.

The distribution of marks for term work shall be as follows:

- Laboratory work (assignments, Practicals and Factory report): 20 Marks.
- Attendance (practicals & theory):

Internal Assessment:

Assessment consists of two tests out of which; one should be a compulsory class test (on minimum 40% of curriculum) and the other is either a class test (on minimum 70% of curriculum) or assignment on live problems or course project.

Theory Examination:

1. Question paper will comprise of total 6 questions, each of 20 Marks.

2. Only 4 questions need to be solved.

3. Question 1 will be compulsory and based on maximum part of the syllabus.

4. Remaining questions will be mixed in nature (for example suppose Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3).

In question paper, weightage of each module will be proportional to the number of respective lecture hours as mentioned in the syllabus Practical Examination & Oral Examination:

Oral will be based on any experiment performed from the list of experiment given in the syllabus and the entire syllabus

Submitted by

Binsy Joseph 25/01/2019