

## Lesson planning for the semester starting w.e.f. 08.01.2018

### Govt. Polytechnic Education Society, Manesar

Name of the Faculty : Sh. Vijay Kumar  
Discipline : Electrical/E.C.E/ Comp. Engg.  
Semester : 2<sup>nd</sup>  
Subject : Workshop Practice-II (Electrical Shop)  
Lesson plan duration : 15 weeks (January, 2018 to April, 2018) Workload per week  
(in hours): Practical -06Hrs.

Week	Theory		Group Number	Practical	
	Lecture day	Topic		Practical day	Topic
1 <sup>st</sup>			1 <sup>st</sup>	1 <sup>st</sup>	Introduction to Single Phase & Three Phase supply & wiring system. Importance of three phase supply (RYB) & its sequence & wiring system. Job 1: Connecting generator & 3 Phase wiring through change over switch.
				2 <sup>nd</sup>	Estimating & costing of power consumption. Job 2: Connecting Single phase meter with supply & load. Reading & working out power consumption & cost of energy.
2 <sup>nd</sup>			1 <sup>st</sup>	3 <sup>rd</sup>	Study of internal wiring diagram of common electrical appliances such as auto-electric iron, electric kettle, ceiling/table fan, desert cooler etc.. Demonstration of dismantling, servicing & reassembling of table/ceiling fan , air cooler, auto electric iron, heater etc.. Job 3: Dismantling, servicing

					reassembling of any of the above electric appliances, finding faults with series testing lamps & multi-meter
				4 <sup>th</sup>	Testing & reversing direction of rotation of single phase & 3 Phase motors. Job 4: Acceptance Testing of single phase/ three phase motor by using volt meter, ammeter & tacho-meter. Job 5: Reversing direction of rotation of single phase & three phase motor.
3 <sup>rd</sup>			2 <sup>nd</sup>	5 <sup>th</sup>	Introduction to Single Phase & Three Phase supply & wiring system. Importance of three phase supply (RYB) & its sequence & wiring system. Job 1: Connecting generator & 3 Phase wiring through change over switch.
				6 <sup>th</sup>	Estimating & costing of power consumption. Job 2: Connecting Single phase meter with supply & load. Reading & working out power consumption & cost of energy.
4 <sup>th</sup>			2 <sup>nd</sup>	7 <sup>th</sup>	Study of internal wiring diagram of common electrical appliances such as auto-electric iron, electric kettle, ceiling/table fan, desert cooler etc.. Demonstration of dismantling, servicing & reassembling of table/ceiling fan , air cooler, auto electric iron, heater

					etc.. Job 3: Dismantling, servicing reassembling of any of the above electric appliances, finding faults with series testing lamps & multi-meter
				8 <sup>th</sup>	Testing & reversing direction of rotation of single phase & 3 Phase motors. Job 4: Acceptance Testing of single phase/ three phase motor by using volt meter, ammeter & tacho-meter. Job 5: Reversing direction of rotation of single phase & three phase motor.
5th				9th	1 <sup>st</sup> Sessional Test
				10th	
6th			3 <sup>rd</sup>	11th	Introduction to Single Phase & Three Phase supply & wiring system. Importance of three phase supply (RYB) & its sequence & wiring system. Job 1: Connecting generator & 3 Phase wiring through change over switch.
				12th	Estimating & costing of power consumption. Job 2: Connecting Single phase meter with supply & load. Reading & working out power consumption & cost of energy.
7th			3 <sup>rd</sup>	13th	Study of internal wiring diagram of common electrical appliances

					<p>such as auto-electric iron, electric kettle, ceiling/table fan, desert cooler etc.. Demonstration of dismantling, servicing &amp; reassembling of table/ceiling fan , air cooler, auto electric iron, heater etc..</p> <p>Job 3: Dismantling, servicing reassembling of any of the above electric appliances, finding faults with series testing lamps &amp; multi-meter</p>
				14th	<p>Testing &amp; reversing direction of rotation of single phase &amp; 3 Phase motors.</p> <p>Job 4: Acceptance Testing of single phase/ three phase motor by using volt meter, ammeter &amp; tacho-meter.</p> <p>Job 5: Reversing direction of rotation of single phase &amp; three phase motor.</p>
8th			1 <sup>st</sup>	15th	<p>Identification &amp; familiarization with the following tools : Tweezers, Screw Driver, (Different Sizes), insulated pliers, cutters, snipers, Philips screw driver, L-Keys, Soldering iron, &amp; their demonstration, &amp; uses.</p>
				16th	<p>Job 6: Practice on joining using soldering flux &amp; removing components/ wires, by desoldering.</p>
9th			1 <sup>st</sup>	17th	<p>Revision of the Syllabus (Theory) Job 1 &amp; Job 2</p>

				18 <sup>th</sup>	Revision of the Syllabus (Theory) Job 3 & Job 4
10 <sup>th</sup>				19 <sup>th</sup>	2 <sup>nd</sup> Sessional Test
				20 <sup>th</sup>	
11 <sup>th</sup>			2 <sup>nd</sup>	21 <sup>st</sup>	Identification & familiarization with the following tools : Tweezers, Screw Driver, (Different Sizes), insulated pliers, cutters, snipers, Philips screw driver, L-Keys, Soldering iron, & their demonstration, & uses.
				22 <sup>nd</sup>	Job 6: Practice on joining using soldering flux & removing components/ wires, by desoldering.
12 <sup>th</sup>			2 <sup>nd</sup>	23 <sup>rd</sup>	Revision of the Syllabus (Theory) Job 1 & Job 2
				24 <sup>th</sup>	Revision of the Syllabus (Theory) Job 3 & Job 4
13 <sup>th</sup>			3 <sup>rd</sup>	25 <sup>th</sup>	Identification & familiarization with the following tools : Tweezers, Screw Driver, (Different Sizes), insulated pliers, cutters, snipers, Philips screw driver, L-Keys, Soldering iron, & their demonstration, & uses.
				26 <sup>th</sup>	Job 6: Practice on joining using soldering flux & removing

					components/ wires, by desoldering.
14 <sup>th</sup>			3 <sup>rd</sup>	27 <sup>th</sup>	Revision of the Syllabus (Theory) Job 1 & Job 2
				28 <sup>th</sup>	Revision of the Syllabus (Theory) Job 3 & Job 4
15 <sup>th</sup>				29 <sup>th</sup>	3 <sup>rd</sup> - Seasonal Test
				30 <sup>th</sup>	