Lesson Plan for Even Semester 2018

Name of Faculty : Sh.YogeshBhardwaj Discipline : Automobile Engineering Semester : VI Subject: Industrial Engineering

Lesson Plan Duration :

15 Weeks w.e.f 09/01/2018

		Theory	Practical					
Week	Lectuer Day	Topic (includingassigment/test)	Practical Day	Торіс				
	1	1.Introduction to Industrial Engg., Concept of productivity						
I	2	Factors Affecting productivity						
	3	Measurement of Productivity						
	4	Causes of Low Productivity						
	5	Methods to improve productivity						
	6	Methods to improve productivity						
	7	Introduction to Work Study, Definition, Importa	ince of Work Study					
	8	Scope and Applications of work study						
	9	Introduction to Method Study						
	10	Concept of Work measurement						
	11	Inter-relation between method study and work	measurement					
	12	Human aspects of work study						
	13	Work Study and Ergonomics	Work Study and Ergonomics					
11/	14	Historical Developments, The Work of Taylor						
IV	15	The Work of Gilbreths						
	16	Role of work study in improving productivity						
	17	Review of Work Study						
V	18	Introduction to Method Study,Definition						
v	19	Objectives of Method Study						
	20	Procedure for Method analysis						
	21	Select the job – on which method study is to be applied						
	22	Obtain information and record						
VI	23	Examine the Information Critically						
	24	Develop the most practical, economical and effective method by considering real limitations of the situation						
	25	Install the new method as standard practice						
N/II	26	Maintain the Standard Practice by Regular Follow Up						
VII	27	Principles of Motion analysis						
	28	Therbligs						
	29	SIMO charts						
	30	Use of SIMO charts & Draw SIMO Chart						
VIII	31	Normal Work Area and Design of Work Places						
	32	Ergonomics						

	33	Checking of Class work & Assignment –I			
	34	Introduction to Work Measurement, Definition & its Objectives			
IX	35	Work measurement techniques, stop watch time study			
	26	Procedure of Time Study, Equipment used, Selection of Job & Selection of			
	50	Worker for time Study			
	37	Systems of performance rating, Normal Performance			
v	38	Calculation of basic times and various allowances			
^	39	Calculation of standard time(Numerical)			
	40	Numerical problems on Calculation of Standard time and Normal Time			
	41	Work sampling, standard data and its usage, Advantage and Disadvantages			
VI	42	Introduction to wages, Wage payment for direct and indirect labor			
	43	Various Wage payment plans			
	44	Incentives and various incentive plans			
	45	incentives for indirect labor, Numerical on Wage Payments			
XII	46	Production Planning and Control, introduction, objectives and components (functions) of P.P.C			
	47	Advantages of production planning and Production Control, stages of P.P.C			
	48	process planning, routing, scheduling			
	49	scheduling – purpose, machine loading chart, Gantt chart,			
	50	dispatching and follow up, routing purpose, route sheets			
XIII	51	Dispatching – purpose, and procedure, follow up – purpose and procedure.			
	52	Introduction to CPM/PERT technique, Objectives and Applications of CPM/PERT			
	53	Drawing of simple networks and critical time calculation			
XIV	54	Production Control in job order, batch type and continuous type of productions			
	55	Introduction, purpose/functions of estimating, costing concept			
	56	Ledger and elements of cost, difference between estimation and costing			
	57	Overheads and their types			
XV/	58	Estimation of material cost & Cost for Machining processes			
۸V	59	Some numerical on Estimation & Costing of Mechanical Components			
	60	Checking of Class Work & Assignment-II			

Lesson Plan for Even Semester 2018

Name of Faculty : Sh. NirmalJeet Singh Discipline : Automobile Engineering Semester : VI Subject: **EDM**

Lesson Plan Duration :

15 Weeks w.e.f 09/01/2018

		Theory	Practical				
Week	Lectuer Day	Topic (includingassigment/test)	Practical Day	Торіс			
	1	Concept /Meaning and its need Qualities and functions of entrepreneur and barriers in entrepreneurship					
	2	Sole proprietorship and partnership forms of b	usiness organization				
I	3	ASSIGNMENT : Schemes of assistance by entrepreneurial support agencies at National, State, District level: NSIC, NRDC, DC:MSME, SIDBI, NABARD, Commercial Banks, SFC's TCO, KVIB, DIC, Technology Business Incubator (TBI) and Science and Technology Entrepreneur Parks (STEP).					
	4	Market Survey and Opportunity Identification (10 hrs.): Scanning of business environment					
II	5	Salient features of National and State industrial policies and resultant business opportunities					
	6	Types and conduct of market survey					
	7	Assessment of demand and supply in potential areas of growth					
III	8	Identifying business opportunity					
	9	Considerations in product selection					
	10	Project report Preparation: Preliminary project report					
	11	Detailed project report including technical, economic and market feasibility					
IV	12	Common errors in project report preparations: Exercises on preparation of project report					
	13	Introduction to Management : Definitions and importance of management					
v	14	Functions of management: Importance and Process of planning, organising, staffing, directing and controlling					
	15	Principles of management (Henri Fayol, F.W. Taylor) Concept and structure of an organization					
VI	16	Types of industrial organizations a)Line organization b)Line and staff organization c)Functional Organization					
	17	FEEDBACK of previous chapter/ test					

18		Leadership and Motivation a) Leadership:			
		Definition and Need			
	19	Qualities and functions of a leader			
VII	20	Manager V/s leader			
	21	Types of leadership			
	22	Motivation : Definitions and characteristics			
VIII	23	Factors affecting motivation			
	24	Theories of motivation (Maslow, Herzberg, McGregor)			
	25	FEEDBACK of previous chapter/ test			
іх	26	Management Scope in Different Areas a) Human Resource Management Introduction and objective			
	27	Introduction to Man power planning, recruitment and selection			
	28	Introduction to performance appraisal methods			
х	29	Material and Store Management Introduction functions, and objectives			
	30	ABC Analysis and EOQ			
	31	Marketing and sales: Introduction, importance, and its functions			
XI	32	Physical distribution			
	33	Introduction to promotion mix			
	34	Sales promotion			
VII	35	Financial Management: Introductions, importance and its functions			
	36	Elementary knowledge of income tax, sales tax, excise duty, custom duty and VAT			
VIII	37	Miscellaneous Topics : Customer Relation Management (CRM): Definition and need			
	38	Types of CRM			
	39	Total Quality Management (TQM): Statistical process control			
	40	Total employees Involvement			
XIV	41	Just in time (JIT)			
	42	Intellectual Property Right (IPR) Introductions, definition and its importance			
	43	Infringement related to patents, copy right, trade mark			
XV	44	FEEDBACK of previous chapter/ test			
	45	FEEDBACK of previous chapter/ test			

Lesson Plan for Even Semester 2018

Name of Faculty : Sh.Gurpreet Singh

Discipline : Automobile Engineering

Semester : VI

Subject: TRACTOR AND SPECIAL PURPOSE VEHICLES

Lesson Plan Duration :

15 Weeks w.e.f 09/01/2018

WEEK	DAY	THEORY (Topic includingassigment/test)		
1	1	Classification of tractors,		
	2	main tractor assemblies		
	3	types of engine used,		
П	4	human factor in tractor design		
	5	applications of tractors		
	6	Basics trends in tractor design		
111	7	forces acting on a tractor on move		
	8	parallel pull and rolling resistance		
	9	tractor stability		
IV	10	Weight performance		
	11	Types of clutch used in tractors		
	12	transmission system buyout		
V	13	final drive		
	14	Reduction gear		
	15	tractor brake system		
VI	16	operator seat design		
	17	Power take off shaft		
	18	draw bar working		
VII	19	double clutch system traction control unit		
	20	belt pulley three point linkages		
	21	Salient features of wheels.		
VIII	22	Salient features of tyres.		
	23	Salient features of wheel base/wheel tracks.		
	24	Specifications of wheels.		
IX	25	Specifications tyres.		
	26	dual versus tendum tyres		
	27	tread design		
Х	28	effect of tyre inflation.		
	29	Functions of hydraulic system.	\neg	
	30	hydraulic system layout		
XI	31	various components of hydraulic system and their functions		
	32	Methods of attaching implements		
	33	Various control systems – depth control, position control		
XII	34	draft control, combination control		
	35	Working of hydraulic control levers		
	36	other uses of hydraulic control system		
XIII	37	Special purpose vehicle		

	38	Description and working principles of	
		Bull Dozer	
	39	Bull Dozer	
XIV	40	Front end loader	
	41	Front end load	
	42	Fire station vehicle	
XV	43	Fire station vehicle	
	44	Cranes	
	45	Cranes	

Lesson Plan for Even Semester 2018 Name of Faculty : Sh. O.P.Gera Discipline : Automobile Engineering Semester : VI Subject: **EMPLOYABILITY SKILLS – II**

Lesson Plan Duration :

15 Weeks w.e.f 09/01/2018

		Theory	Practical	
Week	Lectuer Day	Topic (includingassigment/test)	Practical Day	Торіс
I	1 2 3		1	How to prepare a resume and Covering Letter,How to Face Interview Do's and Don't During Interviews
11	4 5 6		2	Mock Interview practice
111	7 8 9		3	Make a Checck list to attend a meeting with Senior, peer & subordinate
IV	10 11 12		4	Mock meeting
V	13 14 15		5	Group discussion rules, points to be remember during GD
VI	16 17 18		6	Group Discussion

	19		
VII	20	7	Group Discussion
	21		
	22		How to make a power
	23		point
VIII		8	Presentation, Elements of Good Presentation,
	24		Various
			Tools used to make a presentation.
	25		Power Point Presentation
IX	26	9	(10
	27		Minutes only)
	28		Power Point Presentation
х	29	10	(10
	30		Minutes only)
	31		
XI	32	11	Paper Reading Exercise
	33		
	34		
XII	35	12	Paper Reading Exercise
	36		
	37		To Give Seminar on any
ХШ	38	13	topic of Mech.Engg. With
	39		report
	40		To Give Seminar on any
XIV	41 42	14	topic of Current Affair With report
	42		• • •
xv	43	15	Viva-Voce
ΛV			