



Regn Tm: 2607298

LESSON PLAN REGISTER

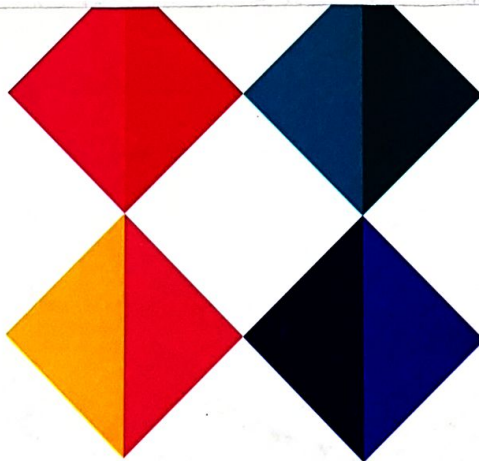
DEPARTMENT OF MECHANICAL ENGG.

BDSE, BRAJRAJNAGAR

SEMESTER: 5TH SEMESTER/6th

SESSION-2018-19 ^{SEMESTER} on wards

NAME OF FACULTY: B. Mishra



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LONG BOUND EXERCISE BOOK

Day	Description	Semester	Name of the Faculty	Byname
	Subject Design	No. of days per semester - 17	Commencement of semester - 01.09.2020	End of semester - 30-3-21
	Week	↓	Day ↓	
MON	Introduction to Machine design.			
WED	Classification of machine design.			
1st				
FRI	Engineering materials.			
SAT	Mechanical and Physical Properties of.			
MON	Stress, Strain, stress-strain curve.			
WED	Working stress, ultimate stress, yield stress			
2nd				
FRI	Factor of safety			
SAT	Stress concentration -			
SAT	Modes of failure			
MON	Governing factors for machine design			
3rd				
WED	Conf. -			
FRI	Design procedure.			
MON	Fasteners, Fastening processes.			
WED	Classification of joints			
4th				
FRI	Definition of welding, Types of welded joints			
SAT	Advantages of welded joints.			
MON	Strength of welded joints. (Tensile and Parallel fillet, circular fillet)			
WED	Design of welded joints for eccentric loads.			
5th				
FRI	Conf. -			
SAT	Numerical problems on welded joints.			
MON	Numerical problems on welded joints.			
WED	Riveted joints, Types of riveted joints.			
6th				
FRI	Classification of riveted joints.			
SAT	Failure of riveted joints			
MON	Strength of riveted joints, Efficiency			
7th				
WED	Design of riveted joints for pressure vessel			
FRI	Assumptions, procedure.			
FRI	Numerical problems.			

MON Shaft definition, function.

8th WED Material of shaft

FRI Standard size of shafts.

SAT Design of shaft on strength basis
Solid and hollow shafts. Pure torsion.

MON Design of shaft on rigidity basis.

9th WED stresses produced.

9th FRI Numerical Problems. (Torsion only)

SAT Numerical problems on (shearing stresses)

MON Numerical problems on rigidity basis.

10th WED Cont.

FRI Key, Definition, Function, materials.

SAT Types of keys, failure of key

MON Effect of key-way.

11th WED Specification of parallel key, gib-head key

11th FRI Failure of keys,

SAT Numerical Problems. Cont.

MON Cont.

12th WED Coupling, Definition, function.

12th FRI Design of shaft coupling.

13th SAT Requirements of good coupling.

MON Types of coupling

13th WED Design of sleeve coupling

13th FRI Design of compression coupling.

SAT Numerical Problems

MON Cont.

14th WED Design of spring: Definition, function.

FRI Spring materials, Types of springs.

SAT Standard size of spring wire

MON Terms used in helical compression spring

15th WED stresses induced, curvature effect, Deflection

15th FRI Slugs in spring.

SAT Numerical Problems.

Resub done 22/3/21

MON

WED

16th

FRI

SAT

MON

WED

17th

FRI

SAT

Describe Machine Semester	Name of Mr		
al.	- 6th teaching faculty - Ayunesh Mishra		
Subject Advance	No of days	Commencement - 20/11/21	
Manufacturing Process	per week -	3/9/21	
	end of semester -		
Week Day			
	MON Introduction to Advanced Manufacturing Processes.		
1st	WED Traditional and Untraditional Processes		
	FRI Modern Machining Process and Characteristics		
	SAT Cent - -		
	MON Ultrasonic Machining, Principle, Equipments		
	WED Ultrasonic Machining, Adv. Advantages & App.		
2nd	FRI EDM, Working Principle, Equipments, Dielectrics		
	SAT EDM Adv. Adv. Parameters, Applications.		
	MON Wire EDM, Equipments, Principles - - -		
	Controlling Parameters, Applications.		
3rd	WED AJM, Principle, Equipments, MRR		
	FRI ATM, Advantages, Adv. Application.		
	SAT LRM, Principle, Equipments, Parameters.		
	MON LRM, Adv. Adv. Application.		
4th	WED ECM, Working Principles, Equipments		
	FRI Process Parameters, MRR, Applications		
	SAT EDM Principles, description of Equipments		
	MON PAM: MRR, Process Parameters Cont.		
	WED Performance Characterization, Application.		
	FRI EDM: Working Principle, Equipments		
	SAT MRR, Process Parameters.		
	MON EDM: Performance Characterization, Applications.		
	WED Introduction to Plastic Processing,		
	FRI Machining Processes: Injection Molding		
	SAT Compression Molding -		
	MON Transfer Molding -		
	WED Introduction to Extruding		
	FRI Casting of Process of Plastic		
	SAT Calendaring process for Plastic.		
	MON Fabricating Processes, Sheet Making		
	WED Blow moulding & manufacturing of rods, tubes - - -		
	FRI Reinforcing. Application of Plastics		
	SAT Introduction to additive manufacturing processes, need - - -		
	MON Fundamentals of additive manufacturing - - -		
	WED Additive manufacturing Process Classification.		
	FRI Advantage of additive manufacturing - -		
	SAT Limitations of AM.		
	SAT Classification of AM Processes.		

MON Automated Processes, CNC Process

WED Difference between AM and CNC.

10th FRI Applications of AM: Aerospace engineering

SAT Automotive industries, Tooling industry, Arts--
R.P. medical, Biotech engineering.

MON Web based Rapid Prototyping Systems

11th WED Flexible manufacturing Processes

FRI Concurrent Engineering, Production tools

SAT ~~For~~ Capstan and Turret lathes

MON Concept of SPM

WED General elements of SPM

12th FRI Productivity improved by SPM.

SAT Cont. --

MON Principles of SPM design

WED Cont. --

13th FRI Maintenance of Machine tools introduction.

SAT Types of maintenance, Explanation.
(Preventive, Predictive, Planned, Breakdown)

MON Cont. --

WED Repair cycle Analysis.

14th FRI Repair Complexity

SAT Maintenance manual, record.

MON Housekeeping.

WED Introduction to Total Productive Maintenance (TPM)

15th FRI Cont. --

SAT

16th

17th

18th

19th

20th

21st

22nd

23rd

24th

25th

26th

27th

28th

29th

Revised
03/01/21