

Dicipline:	Mechanical	Semester: 6th	Name of the Teaching Faculty: Bijanananda Mishra	
Subject:	Automobile Engg.	No of Days/Week Class Allotted: 4	Semester From date: 13/08/23 To date: 23/05/25	No. of Weeks:
WEEK	Class Day	Theory Topics		
1	1st	Automobile : definition		
	2nd	Need & classification		
	3rd	Layout of automobile chassis with major components		
	4th	Clutch system : need & types		
	5th			
2	1st	Working principle with sketch of clutch system.		
	2nd	Gearbox details with diagram		
	3rd	Working of a 4-speed gear box		
	4th	Concept of automatic gear changing mechanism.		
	5th			
3	1st	Propeller shaft constructional features.		
	2nd	Differential: need, types.		
	3rd	Working principle of differential		
	4th	Braking system in automobiles.		
	5th			

WEEK	Class Day	Theory Topics
A	1st	Need & types of braking system.
	2nd	Mechanical brakes
	3rd	Hydraulic brake
	4th	Air brake
	5th	
5	1st	Air assisted hydraulic brake
	2nd	Vacuum brake
	3rd	Describe the battery ignition system
	4th	Describe magnet ignition system
	5th	
6	1st	Spark plugs:- with detailed specification
	2nd	Construction of spark plug
	3rd	State common ignition troubles.
	4th	State the remedial of ignition system.
	5th	

Discipline: Mechanical		Semester: 6th	Name of the Teaching Faculty: <i>Prjjanaraj Meehan</i>	
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WEEK	Class Day	Theory Topics		
7	1st	Description of conventional suspension system for rear & front axle.		
	2nd	Description of independent suspension system used in cars		
	3rd	Coiled spring & tension bar		
	4th	Constructional feature of a telescopic axle		
	5th			
8	1st	Engine cooling detailed introduction		
	2nd	Need & classification of engine cooling		
	3rd	Describe defects of cooling		
	4th	Describe remedial measures of cooling		
	5th			
9	1st	Lubrication		
	2nd	Function of lubrication		
	3rd	Describe lubrication system of I.C engine		
	4th	Revision of above classes.		
	5th			

WEEK	Class Day	Theory Topics
10	1st	Air-fuel ratio
	2nd	Carburetion process
	3rd	Carburetion process for petrol engine.
	4th	Carburetion process for diesel engine
	5th	
11	1st	Multi-point fuel injection system in petrol engine.
	2nd	Multi-point fuel injection system in diesel engine
	3rd	Automobile maintenance
	4th	Revision on above topics
	5th	
12	1st	Fuel injection systems for multi-cylinder engine for diesel engine.
	2nd	Automobile maintenance on fuel injection system.
	3rd	Surprise test
	4th	Fuel feed pump.
	5th	



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<b>WEEK</b>	<b>Class Day</b>	<b>Theory Topics</b>		
13	1st	Working principle of fuel feed pump.		
	2nd	Working principle of fuel injector pump.		
	3rd	Hybrid vehicle		
	4th	Electric vehicle		
	5th			
14	1st	Advantages of electric vehicle		
	2nd	Social & environmental importance of hybrid vehicle.		
	3rd	Application of electric vehicles		
	4th	Battery of electric vehicle.		
	5th			
15	1st	Battery types.		
	2nd	Fuel cells.		
	3rd	Series & parallel configuration		
	4th	Solar powered vehicles.		
	5th	Satyajam Acharya		