

<u>Lesson Plan</u>		
Name of Faculty : Pratik Vashist		
Discipline : Automobile		
Semester : 5th		
Subject : CBT -II		
Lesson Plan Duration : 15 Weeks		
Week	Theory	
	Lecture Day	Topic
1st	1st	UNIT-1 Function & types of suspension system
	2nd	Suspension spring- function, construction material
	3rd	Types of suspension spring, sprung & unsprung weight
2nd	4th	Characteristics of spring material
	5th	Types of leaf spring
	6th	Leaf spring terminology- spring eye, bushes, leaf sections, rubber pads
3rd	7th	Pressure block, spring cover, interleaf inserters
	8th	variable rate spring, helper spring, pneumatic suspension system
	9th	function & construction of hydraulic damper
4th	10th	Diagnosing of common faults and their rectification
	11th	UNIT-2 Wheel- types , constructional details,
	12th	Material used for wheels
5th	13th	Sessional Test -1
	14th	Classification of tyres, function of tyres
	15th	construction of pneumatic tyres
6th	16th	composition of covers, tread breaker, bead and casing
	17th	Comparison of cross ply and radial ply
	18th	Causes of excessive tyre wear, tyre care & maintenance
7th	19th	Static & dynamic balancing
	20th	Tubeless tyres, run flat tyres,
	21st	retreading of tyres
8th	22nd	Concept of self inflation tyres.
	23rd	UNIT - 3 Purpose of braking, layout of braking

	24th	Types of brakes
9th	25th	Sessional Test -2
	26th	Principle of hydraulic brakes, layout, braking action, master cylinder
	27th	Wheel cylinder, self adjusting brakes
10th	28th	self applying and self releasing action, anti skid device
	29th	pedal travel, brake enclosers, heat generation and dessipation
	30th	Drum brakes- construction and working,leading and trailing screw
11th	31st	Construction and working of disk brakes, hand brakes,
	32nd	Common faults and their ractification
	33rd	UNIT - 4 Power brakes- Air, air- hydraulic, Hydro- vaccum
12th	34th	Brake fluids and their characteristic , antilock braking system
	35th	Brake tests, Common faults and their ractification
	36th	UNIT-5 Classification of vehicles according to body, car body types
13th	37th	Body and frame types, Unitised body, Body panels and their construction
	38th	Body material , body painting process
	39th	UNIT-6 Preventive design, design for minimum injury,seat belts
14th	40th	Air bag, Electronic vehicle stability
	41st	Occupants protection system, pedestrian protection
	42nd	History, market share,recent development of leading manufacturers of automobile
15th	43rd	Specification of chassis and transmission system of two wheeler
	44th	Specification of chassis and transmission system of four wheeler
	45th	Sessional test- 3