

AU3402 - Automotive Chassis Syllabus

Regulation 2021 Anna University

Introduction, Frame, Steering System

Types of Chassis layout, with reference to Power Plant location and drive, various types of frames, Loads acting on vehicle frame, Constructional details and materials for frames, Testing of frames, Types of Front Axles and Stub Axles, Front Wheel Geometry, Condition for True Rolling Motion of Wheels during Steering, Ackerman's and Davis Steering Mechanisms, Steering Error Curve, Steering Linkages, Different Types of Steering Gears, Slip Angle, Over-Steer and Under-Steer, Reversible and Irreversible Steering, EPAS.

1

Propeller Shaft And Final Drive

Effect of Driving Thrust, torque reactions and side thrust, Hotchkiss drive, torque tube drive, radius rods and stabilizers, Propeller Shaft, Universal Joints, Constant Velocity Universal Joints, Front Wheel drive, Final drive, different types, Double reduction and twin speed final drives, Multi-axled vehicles, Differential principle and types, Differential housings, limited speed differential, Differential locks.

2

Axles And Tyres

Construction and Design of Drive Axles, Types of Loads acting on drive axles, Full - Floating, Three-Quarter Floating and Semi-Floating Axles, Axle Housings and Types - Lift axle, Dead axle, Types and Constructional Details of Different Types of Wheels and Rims, Different Types of Tyres and their constructional details.

3

Suspension System

Need for Suspension System, Types of Suspension Springs, Constructional details and characteristics of Single Leaf, Multi-Leaf, Coil, and Torsion bar, Rubber, Pneumatic and Hydro - elastic Suspension Spring Systems, Independent Suspension System, Shock Absorbers, Types and Constructional details.

4

Braking System

Theory of Automobile Braking, Stopping Distance Time and Braking Efficiency, Effect of Weight Transfer during Braking, Theory of Drum Brakes, Leading and Trailing Shoes, Braking Torque, Constructional Details of Drum Brake and its Activators, Disc Brake Theory, Types and Construction, Hydraulic Braking System, Mechanical Braking System, Pneumatic Braking System, Power-Assisted Braking System, Anti-Lock Braking System, Constructional Details.

5



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David C. Barton, John D. Fieldhouse



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