

32181 – TWO AND THREE WHEELERS TECHNOLOGY

DETAILED SYLLABUS

UNIT- I THE POWER UNIT AND FUEL SYSTEM

Two stroke and four stroke - SI & CI engine Construction and Working - merits and demerits. Symmetrical and unsymmetrical valve & port timing diagrams- scavenging process- Fuel system –Different circuits in two wheeler fuel systems, fuel injection system and Lubrication system.

UNIT- II IGNITION SYSTEMS AND ELECTRICAL SYSTEM

Ignition systems-Magneto coil, battery coil ignition system, Electronic ignition System - Starting system-Kick starter system– Self starter system. DTSI Speedo meter – Mechanical and Digital - Construction and working. Battery- Ratings in Two and Three wheelers. Layout of electrical system in two and three wheelers.

UNIT- III CHASSIS AND SUB SYSTEMS

Main frame for two and three wheelers - Chassis –Types - Different drive systems for two wheelers and three wheelers – Clutch -Single plate, multiple plate wet and centrifugal clutch- Gear box- Constant mesh and sliding mesh- CVT -Continuously variable Transmission-Gear controls in two wheelers. Front and rear suspension systems- Shock absorbers. Panel meters and controls on handle bar of two and three wheelers.

UNIT- IV BRAKES AND WHEELS

Drum brakes & Disc brakes for two and three wheelers - Construction and Working and its Types - Front and Rear brake link layouts. Brake actuation mechanism. Wheels -Spoked wheel, cast wheel, Disc wheel & its merits and demerits. Tyres and tubes Construction & its Types.

UNIT- V TWO AND THREE WHEELERS

Two wheeler- case study of Sports bike, Motor cycles, Scooters and Mopeds – Parts, Components, maintenance and servicing. Three wheeler- Case study of Auto rickshaws, Pick up van, Delivery van Trailer- parts, components, maintenance and Servicing.

Text Book

1. Irving P.E Motor Cycle Engineering. Temple Press Book London.

Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
Question Papers
Results and Many more...

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www.AllAbtEngg.com

Reference

1. The Cycle Motor manual Temple Press Ltd London
2. Maintenance Manuals of Leading Two & Three Wheelers Manufacturers in India.