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Solapur University Syllabus For Engineering

RE (Mechanical) Part - I I.C. ENGINE	
Teaching Scheme Lectures: 2 hrs/Week Practical: 2 hrs/Week	Examination Scheme Theory: 100 Marks Term work: 25 Marks Oral: 25 Marks
Course Objective: To provide an introduction to the basic principles of Internal Combustion Engines. To provide practical exercises to strengthen the student's knowledge of internal combustion engines.	
Section I	
1 Introduction to I.C. Engines & Engine Cycles: 05	
Introduction, Basic engine components and nomenclature, Classification of I. C. Engines Engine cycles, Deviation of actual cycle from air standard cycle, Valve timing diagram for high & low speed engine, Port timing diagram.	
2 Fuel systems for S.I. Engines: 05	
Engine fuel requirements, Elementary and complete carburetor (float, lifting and Acceleration system, Choke, Compensating system, economizer), Distribution for calculation of A/F ratio, Design of carburetor - Calculation of main dimension of air and fuel supply, Effect of altitude on air fuel ratio, Electronic Fuel Injection system (EFI) (Numerical on calculation of main dimension of carburetor)	
3 Fuel Systems for C.I. Engines: 05	
Requirements of injection system, Fuel metering, pressurizing and injecting system, Type of a system: Individual pump, Common rail and Distributor system, Fuel nozzle, Type of fuel nozzle- single hole, multi hole, pintle, and pintless, Formation of Spray, Atomization and penetration, Governing of C.I. engine, Pneumatic governors, Electronic control for diesel engine management, (Numerical on calculation of main dimension of fuel injection system)	
4 Supercharging: 03	
Purpose of supercharging, Thermodynamic cycle of supercharged engine, Type of superchargers, Turbo charging, Advantages and disadvantages, Limitations of supercharging for S.I. and C.I. Engines.	
5 Engine Selection: 02	
Selection of an I.C. engine for Automobiles, Locomotives, Aircraft, Marine, Agriculture, And Power generation based on criteria such as operating cycle, fuel cost, cooling method, cylinder numbers & arrangement, speed, fuel economy and power to weight ratio.	