

Exam Pattern

Stage - I (Preliminary)	Objective Type	Time Length	Total Marks
Paper I (Common)	General Studies & Engineering Aptitude	2-Hour	200
Paper II	Engineering Specific	3-Hours	300
Stage I Total			500
Stage II (Mains)	Subjective Papers		
Engineering Paper I		3-Hour	300
Engineering Paper II		3-Hour	300
Stage II Total			600
Stage I + II Total			1100
Stage III	Personality Test		200
Grand Total			1300

UPSC Engineering Services Syllabus

General Ability

- Part-A (General Knowledge and Awareness)
- Part-B (General English)

UPSC ESE Syllabus 2017 (Civil)

Topics of Paper-I include

- Building Materials
- Solid Mechanics
- Structural Analysis
- Design of Steel Structures
- Design of concrete and Masonry structures
- Construction practice
- Planning and management

Paper-II contains the contents

1)

- (a) Fluid Mechanics, Open Flow, Pipe Flow
- (b) Hydraulics Machines and Hydropower

2)

- (a)Hydrology
- (b)Water Resources Engineering

3) Environmental Engineering

- (a) Water Supply Engineering
- (b)Waste Water Engineering
- (c)Solid Waste management
- (d)Air and noise pollution and Ecology

4)

- (a)Soil Mechanics
- (b)Foundation Engineering

5)

- (a)Surveying
- (b)Transportation Engineering

UPSC ESE Syllabus 2017 (Mechanical)

Paper I Contents

- Thermodynamics, Cycles and IC Engines
- Heat Transfer and Refrigeration and Air-conditioning
- Fluid Mechanics
- Fluid Machinery and Steam Generators

Paper II Contents

- Theory of Mechanics
- Machine Designs
- Strength of Materials
- Engineering Materials
- Production Engineering
- Industrial Engineering
- Elements of Computation

UPSC ESE Syllabus 2017 (Electrical)

Paper I

- EM Theory Electric and Magnetic Field
- Electrical Materials
- Electrical Circuits
- Measurements and Instrumentation
- Control Systems

Paper II

- Electrical Machines and Power Transformers
- Power Systems
- Analog and Digital Electronics and Circuits
- Microprocessors
- Communication Systems
- Power Electronics

UPSC ESE Syllabus 2017 (Electronics and Communication)

Paper I

- Materials and Components
- Physical, Electronics, and Electron Devices and ICs
- Signals and Systems
- Network Theory
- Electromagnetic Theory
- Electronic Measurements and instrumentation

Paper II

- Analog Electronic Circuits
- Digital Electronic Circuits
- Control Systems
- Communication Systems
- Microwave Engineering
- Computer Engineering

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