



**UPSC ESE Syllabus Details:** Union Public Service Commission (UPSC) Engineering Services Exam Syllabus is given below...

## I. Civil Engineering (for both objective and conventional type papers)

### Paper I

1. Building Materials
2. Solid Mechanics
3. Structural Analysis
4. Design of Steel Structures
5. Design of Concrete and Masonry Structures
6. Construction Practice, Planning and Management

### Paper II

1. (a) Fluid Mechanics, Open Channel, Flow, Pipe Flow  
(b) Hydraulic Machines and Hydropower
2. (a) Hydrology  
(b) Water Resources Engineering

### Environmental Engineering

3. (a) Water Supply Engineering  
(b) Waste Water Engineering  
(c) Solid Waste Management  
(d) Air and Noise Pollution and Ecology
4. (a) Geo-technical Engineering  
(b) Foundation Engineering
5. (a) Surveying and Geology  
(b) Transportation Engineering

## II. Mechanical Engineering (For both objective and conventional type papers)

### Paper I

1. Fluid Mechanics
2. Thermodynamics and Heat transfer
3. IC Engines, Refrigeration and Air conditioning
4. Turbo Machinery
5. Power Plant Engineering
6. Renewable Sources of Energy

### Paper II

1. Engineering Mechanics
2. Mechanisms and Machines
3. Design of Machine Elements
4. Manufacturing ,Industrial and Maintenance Engineering
5. Mechatronics and Robotics

## III. Electrical Engineering (for both objective and conventional type papers)

### Paper I

1. Engineering Mathematics
2. Electrical Materials
3. Electric Circuits and Fields
4. Electrical and Electronic Measurements
5. Computer Fundamentals
6. Basic Electronics Engineering

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## Paper II

1. Analog and Digital Electronics
2. Systems and Signal Processing
3. Control Systems
4. Electrical Machines
5. Power Systems
6. Power Electronics and Drives

## IV. Electronics And Telecommunication Engineering (For both objective and conventional type papers)

### Paper I

1. Basic Electronics Engineering
2. Basic Electrical Engineering
3. Materials Science
4. Electronic Measurements and Instrumentation
5. Network Theory
6. Analog and Digital Circuits

### Paper II

1. Analog and Digital Communication Systems
2. Control Systems
3. Computer Organization and Architecture
4. Electro Magnetics
5. Advanced Electronics Topics
6. Advanced Communication Topics

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