

APPSC AEE Syllabi

APPSC AEE Syllabus 2018-2019 | General Studies & Mental Ability

- General Science: Contemporary developments in Science and Technology
- World Geography & Geography of India with a focus on AP
- History of India
- Current events of national and international importance
- Indian polity & Economy – including the country's political system- rural development – Planning and
- Economic reforms in India
- Puzzles
- Verbal Reasoning
- Logical Reasoning
- Data Sufficiency
- Non-Verbal Reasoning
- Data Interpretation
- Analytical Reasoning

AEE Syllabus 2018-2019 | Civil Engineering

- Civil Engineering Materials and Construction
- Fluid Mechanics
- Hydrology & Water Resources Engineering
- Reinforced Concrete Structures
- Bridge Engineering
- Concrete Technology
- Estimation, Costing, and Specifications
- Steel Structures
- Construction and Project Management
- PSC Structures
- Environmental Studies
- Environmental Engineering
- Hydraulic Structures
- Soil Mechanics and Foundation Engineering
- Transportation Engineering
- Solid Mechanics, Structural Analysis
- Surveying

AP AEE Syllabus 2018-2019 | Electrical Engineering

Generating Stations:

- The principle of a fast breeder reactor
- Location and types, types of hydroelectric power stations, the layout of a hydro-power plant, types of turbines used
- Types of nuclear power reactors
- Pumped storage installations
- Nuclear power generation; nuclear fission

Over Head Line Insulators:

- Types of Insulators
- Methods of improving string efficiency
- String efficiency
- Potential distributions over a string of suspension insulators

Transmission & Distribution:

- Seg, Tension Calculations, Tuned Power Lines
- ABCD constants
- Mechanical Design
- Short, Medium and Long lines
- Representation of Overhead Lines
- Line constants
- Inductance and Capacitance calculations

Protection:

- Protection of transformers against winding faults, overloads and external short circuits
- Overcurrent, directional and distance protection of lines
- Protection of Alternators against stator faults, rotor faults, loss of excitation, unbalanced loading, overloading, failure of a prime mover
- Characteristic of Relays

Underground Cables:

- Power frequency withstands tests
- Insulation of cables
- Grading of cables
- Testing of cables
- Capacitance Measurement in cables

Fault Calculations:

- Symmetrical components

- Types of faults
- Balanced Fault calculations on systems
- Analysis of unbalanced faults

Utilization of Electrical Energy:

- Industrial Drives
- Estimating and Rating
- Motors for various drives
- Testing of D.C. and A.C. motors
- Neutral Earthing

APPSC AEE Syllabus 2018-2019 | Mechanical Engineering

- Heat-Transfer
- Theory of Machines
- Inventory Control
- Thermodynamics
- I.C. Engines
- Computer Integrated Manufacturing
- Casting, Forming and Joining Processes
- Fluid Mechanics
- Operations Research
- Refrigeration and air-conditioning
- Vibrations
- Production Planning and Control
- Machining and Machine Tool Operations
- Machine Design
- Engineering Materials
- Power Engineering
- Engineering Mechanics
- Mechanics of Materials
- Metrology and Inspection
- Turbo-machinery