



# ENGINEERS ACADEMY

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## Electronics & Communication Engineering **EC**

Subject	2012	2013	2014	2015	2016	2017
General Aptitude	15	15	15	15	15	15
Engg. Maths	12	12	13	9	11	12
Signals & Systems	7	10	10	10	13	11
Digital & Microprocessor	5	6	7	7	6	10
Control Systems	9	7	8	7	9	9
EMT	12	6	8	8	11	8
Communication	10	7	10	9	10	8
Analog Electronics	7	7	9	7	7	8
VLSI	2	6	0	7	6	7
Network Theory	12	15	10	10	7	6
EDC	9	9	10	11	5	6

### Additional Topics for ESE

Electromagnetic fields (Maxwell equations), Power systems (Gas & water turbine, solid state relays & digital protection, FACTS Concepts, HVDC transmission, power system dynamics, distributed generation, solar & wind power, smart grid, environmental implications, power economics, corona & radio interference, economic operation). Power electronics and drives (triggering circuits, adjustable speed DC & AC drives, DC-DC & DC-AC switched mode converters, resonant converters, high frequency inductors and transformers, power supplies). Analog and digital (multi vibrations, filters circuits and applications, basics of semiconductor diodes and transistors), electrical materials, computer fundamentals, measurements (Q-meter, transducers), communication systems.

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