

UPSC Electrical Engineering Books

UPSC Electrical Engineering Optional Books for Paper-1

Paper-1 of the IAS electrical engineering syllabus deals with circuit theory, signal & systems, analog electronics, E.M. theory, energy conversion, power electronics, etc. The syllabus of paper-1 is vast and you need to be well-versed with basic concepts first. Here are some IAS electrical engineering books that you can count on for covering these topics.

- Electrical Circuits 1&2 by Nasser, Schaum Series
- Electrical Circuits by Chakraborty
- Electromagnetic Theory by Saddique, Oxford Publications
- Electromagnetic Waves by Jordan & Balmain
- Electromagnetic Theory by Saddique, Oxford Publications.
- Analog and Digital Communications by K. Sam Shanmugam
- Analog and Digital Communications, Schaum Series
- Integrated Electronics by Milliman, and Halkis
- Microelectronics by Milliman and Grabel.
- Digital Design by Morris Mano.
- Digital Electronics by R P Jain.
- Electrical Machines by Nagrath and Kothari
- Electrical Machines by P.S. Bhimbra
- Electrical Drives by G.K. Dubey
- Power Electronics by P.S.Bhimbra
- Digital Signal Processing by Oppenheim & Willsky
- Digital Signal Processing by Proakis, Mahalanakis

UPSC Electrical Engineering Books for Paper-2

Just like Paper-1, Paper-2 also carries 250 marks, and it covers topics like control systems, measurement and instrumentation, power system protection, power systems, and digital communication. To have a solid grasp of these topics you will need to prepare from the best UPSC IAS electrical engineering books that we have mentioned below.

- Control Systems by BC Kuo.
- Modern Control Systems by Nagrath and Gopal
- Electrical Measurements and Measuring Instruments by A K Sawhney.
- Electronic Measurements by Cooper & etc., PHI Publications.
- Modern Power System Analysis by Nagrath
- Power System Analysis by C L Wadhwa
- Power System Protection by Badri Ram and Vishwa Karma, TMH Publications
- Non-Conventional Energy resources by G.D.Rai, Khanna Publications

- Microelectronics by Milliman and Grabel
- Microwaves by Kulkarni.
- Communication Systems by Kennedy.
- 8085 Microprocessor by Ramesh S Gaonkar
- Analog & Digital Communications by K Sam Sanmugam
- Analog & Digital Communications by Schum Series
- Electrical Engineering Materials by Seth & Gupta

Other Important IAS Electrical Engineering Books

Apart from the UPSC Electrical Engineering Books mentioned above, candidates can also refer to the following books.

- Automatic Control System by Benjamin C. Kuo
- Control System Engg. by Nagrath & Gopal
- Electrical Machinery by PS Bimbhra
- Electrical Machines by Nagrath & Kothari
- Power Electronics by PS Bimbhra
- Digital Logic & Computer Design by Morris Mano
- Electric Power Systems by CL Wadhwa
- Electromagnetic by Willaim H. Hayt
- Integrated Electronics by Milman & Halkias; Millma & Grobel
- Network Analysis by Van Valkenburg
- Electrical & Electronic Measurement and Instrumentation by AK Sawhney

- Power System Engineering by Nagrath & Kothari