The reference books for GATE ECE students are below.

**Linear Algebra, Numerical Methods,Transform Theory**
Higher Engineering Mathematics by B.S.Grewal

**Calculus, Differential equations, Complex variables:**
Intermediate Mathematics, S.chand publications by B.V.Sastry , K.Venkateswarlu ( if i remember ) both the volumes.

**Probability and Statistics:**
Probability , statistics and queuing theory by S.C.Gupta & V.K.Kapoor

**Networks: Network graphs:**
Network Analysis by Van Valkenburg
Network Theory by Alexander Sadiku, UA Bakshi
Network Theory by Shaum’s outline, Robbins and Miller

**Electronic Devices**
Electronic Devices and Circuits by Boylestead
Solid State Electronic Devices by Benjamin G Streetman
Integrated electronics by Milman Halkias
Electronic Devices and Circuits by David A Bell
Integrated Circuits: Sedra Smith, K.R. Botkar
Electronic Principals by Malvino

**Analog and Digital Circuits**
Engineering Circuit Analysis Hayt & Kemmerly
Electric Circuits by Joseph A. Edminister
Fundamentals of Electric Circuits – Sadiku
Electronic Circuit Analysis by Donald Neamen
Electronic Devices and Circuits by Boylestead
Micro Electronic Circuits by Sedra & Smith
Digital Circuits Anand Kumar, Morris Mano

**Signals and Systems:**
Signals and System by Oppenham and Schiener
Signals and System: by Schaum Series, Willsky & Nacob
Signals and System by Sanjay Sharma

**Control Systems:**
Control Systems by Ogatta,Kuo
Linear Control Systems by B.S Manke.

**Communications:**
Communication Systems by Simon Haykin
Principle of Communication System by B. P. Lathi
Principle of Communication System by Taub & Schilling
Communication Systems by Carlson
Communication Systems by Sanjay Sharma

**Electromagnetics**
Electromagnetic Waves & Radiating Systems by Hayt, JD Kraus
Elements of Electromagneticsby Sadiku
Electromagnetics by J.D.Kraus
Engineering Applications of Electromagnetic Theory by Liao

**Few other useful books for GATE ECE preparation.**
Gate 2010 by R.S. Kanodia (for questions only)
Previous GATE Question papers(Made Easy Publishers,GK publishers etc)
Previous Engg Services question papers(Made Easy Publishers)
Aptitude Test-D R Choudhary
GATE Physics Self Study Book by Surekha Tomar
Multiple Choice Questions with Explainatory Answers by UPKAR Publication , Agra