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