

**LIST OF SUGGESTED BOOKS OF  
INDIAN AUTHORS & PUBLISHERS**

**FOR**

**UNDERGRADUATE DEGREE COURSES IN**

**ENGINEERING & TECHNOLOGY**

**Academic Session 2018-19 onwards**

Based on

**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

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# FIRST YEAR

## UNDERGRADUATE DEGREE COURSES

### BASIC SCIENCE COURSES

#### BSC101 – Physics

1. Engineering Physics, Malik and Singh, McGraw Hill Education India
2. Engineering Physics, Naidu, Pearson
3. Mechanics, Mathur, S.Chand Publishing
4. Classical Mechanics, Upadhyaya, Himalaya Publishing House
5. Classical Mechanics, G. Aruldas, PHI
6. Engineering Physics, Gupta & Gaur, Dhanpat Rai
7. Quantum Mechanics, Ajay Ghatak S. Lokanathan, Trinity
8. Quantum Mechanics: A Text Book for undergraduates, Mahesh C Jain, TMH
9. Text Book of Quantum Mechanics, M. Mathews & Venkatesan, TMH
10. Electromagnetic Theory, Prabir K. Basu & Hrishikesh Dhasmana, AneBooks
11. Fundamentals of Electromagnetic Theory, Khunita, PHI
12. A Text Book of Optics, Avadhanulu, S. Chand
13. Optics, Ajoy Ghatak, TMH
14. Modern Physics for Engineers, S.P. Taneja, R. Chand
15. The Physics of waves and Oscillations, N.K. Bajaj, TMH
16. Engineering Physics, A.Sarin, Wiley
17. Principles of Engineering Physics 1&2, Md. Khan & S.Panigrahi, Cambridge University Press.
18. Engineering Physics, Dattu R. Joshi, McGraw Hill (2010)
19. Engineering Physics, V. Rajendran, McGraw Hill (2010)

#### BSC102 – Chemistry-I

1. Engineering Chemistry, Satyaprakash, Khanna Book Publishing, Delhi
2. A Text Book of Engg. Chemistry, Shashi Chawla, Dhanpat Rai & Co. (P) Ltd.
3. Essentials of Physical Chemistry, Bahl & Tuli, S.Chand Publishing
4. Applied Chemistry, Sunita Rattan, Kataria
5. Engineering Chemistry, Baskar, Wiley
6. Engineering Chemistry – I, D. Groukrishana, Vikas Publishing
7. Laboratory Manual Engg. Chemistry, Anupma Rajput, Dhanpat Rai & Co.
8. Engineering Chemistry S. Agarwal, Cambridge University Press
9. Engineering Chemistry O.G. Palanna, McGraw Hill (2017)

#### BSC103 – Mathematics – I

1. A Textbook of Engineering Mathematics, RD Sharma, Khanna Book Publishing Co. (P) Ltd., Delhi (ISBN: 9789386173508)
2. Advanced Engineering Mathematics, RD Sharma, Khanna Book Publishing Co. (P) Ltd., Delhi (ISBN: 9789386173522)
3. Engineering Mathematics for first year, Veerarajan T., McGraw-Hill Education (2017)
4. Higher Engineering Mathematics, Ramana B.V., Tata McGraw Hill Education
5. Differential Calculus Shanti Narayan & Dr. P.K. Mittal, S. Chand Publishing
6. A Course & Mathematical Analysis (ISBN: 9788121904728), Narayan & Mittal, S.Chand Publishing
7. Elements of Mathematical Analysis, Agor, (ISBN: 9789382609599)
8. Integral Calculus Shanti Narayan & Dr. P.K. Mittal, (ISBN: 9788121906814), S.Chand Publishing

9. A Textbook of Matrices, Narayan & Mittal, (ISBN: 9788121925969), S.Chand
10. Advanced Engineering Mathematics (ISBN: 9788120336094), Sashtry, PHI
11. Engineering Mathematics-I (Reena Garg) Khanna Book Publishing.
12. Higher Engineering Mathematics, B.V. Ramana, McGraw Hill (2006)
13. Engineering Mathematics, C.B. Gupta, McGraw Hill (2016)
14. Statistical Methods (combined), N.G. Das, McGraw Hill (2015)
15. Statistics, Murray R. Spiegel, McGraw Hill (2010).
16. Probability and Statistics, Murray R. Spiegel, McGraw Hill (2010).
17. Engineering Mathematics (vol.1-4) G. Samanta, New Age International (2015)
18. Discrete Mathematics, G. Samanta, New Age International (2015)



## **BSC103 – Mathematics – II**

1. A Textbook of Engineering Mathematics, RD Sharma, Khanna Book Publishing Co. (P) Ltd., Delhi (ISBN: 9789386173508)
2. Advanced Engineering Mathematics, RD Sharma, Khanna Book Publishing Co. (P) Ltd., Delhi (ISBN: 9789386173522)
3. Higher Engineering Mathematics, Ramana B.V., Tata McGraw Hill Education
4. Advanced Engineering Mathematics (ISBN:9788120336094), Sashtry, PHI
5. Engineering Mathematics (for Sem-III), Veerarajan, Tata McGraw Hill Education

# **ENGINEERING SCIENCE COURSES**

## **ESC101 – Basic Electrical Engineering**

1. Basic Electric Engineering, DP Kothari & Nagrath, Tata McGraw Hill (2017)
2. Basic Electrical Engineering, Ritu Sahdev, (ISBN: 9789386173492), Khanna Book Publishing Co. (P) Ltd., Delhi
3. Basic Electrical Engineering, Mittle & Mittal, Tata McGraw Hill
4. Basic Electric Engineering, DC Kulshrethra, Tata McGraw Hill
5. Basic Electrical Engineering, A.E. Fitzgerald, McGraw Hill (2009)
6. Basic Electrical Engineering, V.N. Mittle and A. Mittle, McGraw Hill (2005)

## **ESC102 – Engineering Graphics and Design**

1. Engineering Graphics & Design, Jain & Gautam, Khanna Publishing House
2. Engineering Drawing, N. D. Bhat, Charotar Publishing House
3. Engineering Drawing and Computer Graphics, Shah, Pearson
4. Textbook on Engineering Drawing, Narayana, Scitech Publishers
5. Engineering Graphics, Agarwal & Agarwal, TMH
6. Engineering Drawing, Dhananjoy Jolhe, McGraw Hill Education

## **ESC103 – Programming for Problem Solving**

1. Introduction to Computing and Problem Solving Using Python : E. Balaguruswamy (Mc Graw Hill Education)
2. Byron Gottfried, Schaum's Outline of Programming with C, McGraw-Hill
3. Sumitabha Das, Computer Fundamentals and C Programming, McGraw-Hill (2018)

# **HUMANITIES & SOCIAL SCIENCES**

## **ESC104- Workshop Manufacturing Practices**

1. Basic Manufacturing Process, Mehta & Gaira, Viva Books
2. Elements of Workshop Technology, Hajra & Choudhary, Media Promoters
3. Workshop Practices, HS Bawa, Tata McGraw Hill
4. Manufacturing Technology, Vol.1,2 and 3, PN Rao, TMH

## **HSMC101 – English**

1. Technical Communication, Meenakshi Raman & Sangeeta Sharma, Oxford University Press
2. Effective Communication Skills, Kulbushan Kumar, Khanna Publishing House, Delhi
3. Communication Skills, Pushplata, Sanjay Kumar, Oxford University Press

4. Soft Skills & Employability Skills , S. Pillai and A. Fernandes, Cambridge University Press 2018
5. English for Technical Communication, N.P Sudarshana and C. Savitha, Cambridge University Press 2016
6. Language and Life: A skills approach, Board of Editors, Orient Blackswan (2018).
7. Effective Technical Communication, A. Rizvi, McGraw Hill Education (2016)
8. Business Correspondence and Report Writing, Sharma and Mohan, McGraw Hill Education