

## Physics:

Sl.No	Name of the book	Author	Publication
1.	Practical Physics	C. L. Arora	S Chand
2.	A Text book of Engineering Physics	M. N. Avadhanulu & P.G. Kashirsagar	S. Chand
3.	Text Book of Physics for Class XI & XII (Part-I, Part-II);		N.C.E.R.T., Delhi
4.	Concepts in Physics, Vol. I	H. C. Verma	Bharti Bhawan Ltd. New Delhi
5.	Concepts in Physics, Vol. II,	H. C. Verma	Bharti Bhawan Ltd. New Delhi
6.	Engineering Physics	H. K Malik & A. K Singh	McGraw Hill
7.	Comprehensive Practical Physics, Vol, I & II	J. N. Jaiswal	Laxmi Publications

## Maths:

Sl.No	Name of the book	Author	Publication
1.	Calculus and Analytical Geometry	G. B. Thomas, R.L. Finey	Addision Wesley
2.	The elements of coordinate geometry part-1 cartesian coordinates	S. L. Loney	Arihant
3.	Mathematics for Class 12 Vol. I & II	R. D. Sharma	Dhanpat Rai
4.	Higher Engineering Mathematics	B. S. Grewal	Khana Publishers
5.	College Algebra	Murray R. Spiegel, Robert E. Moyer	Tata McGraw Hill
6.	Calculus	Frank Ayers, Elliot Mendelson	McGraw Hill
7.	Advanced Engineering Mathematics	ERWIN KREYSZIG	Willey
8.	NCERT Text book (Class XI and XII)		

## Chemistry:

Sl.No	Name of the book	Author	Publication
1.	NCERT Textbook Class XI &XII	NCERT	NCERT
2.	A Text Book Of Engineering Chemistry	Sashi Chawla	Dhanpat Rai & Co.
3.	Applied Chemistry I	Dr. Raman Rani Mittal	S. K. Kataria & Sons
4.	Engineering Chemistry	Jain and Jain	Dhanpat Rai & Co.
5.	Principles of Physical Chemistry	B. R. Puri, Madan S. Pathania, L. R. Sharma	Vishal Publishing Co.
6.	Elements of Physical Chemistry	Peter Atkins and Julio de Paula	Oxford University Press

## Chemical Engineering:

Sl.No	Name of the book	Author	Publication
1.	Process systems Analysis and Control	D. R. Coughanowr and L. B. Koppel	Mc-Graw-Hill
2.	Principles Of Mass Transfer Operations - I Volume I	Dr. Kiran D. Patil	Nirali Prakashan
3.	Process Heat Transfer	D. Q. Kern	Tata McGraw - Hill
4.	Introduction to Chemical Equipment Design	B. C. Bhattacharya	CBS Publishers
5.	Chemical Engineering Thermodynamics	K. V. Narayanan	PHI
6.	Introduction to Chemical Engineering Thermodynamics	J. M. Smith, H C Van Ness	McGraw Hill Edition
7.	Mass Transfer Operations	R. E. Treybal	McGraw -Hill International Edition
8.	Unit Operations of Chemical Engineering	W. L. McCabe, J. Smith and P. Harriot	McGraw - Hill
9.	Process Modeling, Simulation and Control for Chemical Engineers	W. L. Luyben	McGraw Hill International

## Mechanical Engineering:

Sl.No	Name of the book	Author	Publication
1.	Engineering Mechanics	Timoshenko	McGraw Hill Education
2.	Internal Combustion Engine	V. Ganesan	McGraw Hill Education
3.	Engineering Thermodynamics	P. K. Nag	McGraw Hill Education
4.	Manufacturing Technology Vol. - I	P. N. Rao	Tata McGraw Hill
5.	Manufacturing Technology Vol. II	P. N. Rao	Tata McGraw Hill
6.	Theory of Mechanisms Machines	Ghosh and A. K. Mallik	East West Press Pvt Ltd
7.	Manufacturing Science	Amitabha Ghosh & Mallik	PEARSON India
8.	Design of Machine Elements	M. F Spotts, T. E. Shoup, L. E. Hornberger, S. R. Jayram and C. V. Venkatesh,	Person Education
9.	A Course in Heat and Mass Transfer	S. C. Arora, S. Domkundwar, Anand V. Domkundwar	DHANPAT RAI & CO.
10.	Introduction to Fluid Mechanics	P. J. Pritchard, Fox and McDonald	Wiley Publications

## Petroleum Engineering:

Sl.No	Name of the book	Author	Publication
1.	Reservoir Engineering Handbook	Tarek Ahmed	Gulf Professional Publishing,
2.	Fundamentals of Reservoir Engineering (1998).	L. P. Dake	Shell learning and development
3.	Well Testing	John Lee	SPE Books
4.	Oil well Drilling Engineering : Principles and Practice	H. Rabia	Springer

5.	Applied Petroleum Reservoir Engineering	Benjamin Cole Craft, Murray Free Hawkins, and Ronald E. Terry	Prentice Hall
6.	Dictionary of Petroleum Exploration, Drilling & Production	Norman J, Hyne	PennWell Books
7.	Handbook of offshore Engineering Volume 1 & 2	S. K. Chakrabarti	Elsevier
8.	Introduction to Petroleum Production: Reservoir Engineering, Drilling, Well Completions v. 1	D. R. Skinner	Gulf Publishing Co
9.	Textbook of Geology	P.K. Mukherjee	Wordls Press Private Limited
10.	Production Operations, Volume II	Thomas O. Allen and Alan P. Roberts	PennWell Books

### **Pipeline Engineering:**

Sl.No	Name of the book	Author	Publication
1.	Handbook of Piping Design	G. K. Sahu	Second
2.	Oil and Gas Pipelines and Piping Systems: Design, Construction, Management, and Inspection	Alireza Bahadori	Elsevier Science
3.	Liquid Pipeline Hydraulics	E. Shashi Menon	Trafford Publishing
4.	Gas Pipeline Hydraulics	E. Shashi Menon	Taylor & Francis
5.	Process Plant Layout and Piping Design	Ed Bausbacher and Roger Hunt	P T R Prentice hall Inc.
6.	Pipe drafting and design	Roy A. Parisher and Robert A. Rhea	Gulf Professional Publishing

## Fire & Safety Engineering

Sl.No	Name of the book	Author	Publication
1.	Handbook of fire and Explosion Protection Engineering Principles for the Oil, Gas, Chemical, and Related facilities	D. P. Nolan	Gulf publishing
2.	Fire Safety in Building	V. K. Jain	Newage publishers
3.	Fundamental of fire safety in building design	Dr. Than Singh Sharma	Aayush Publications
4.	SFPE Hand Book for Fire Protection Engineering, NFPA	Morgan Hurley	Springer
5.	Fundamentals of Firefighter skills		Jones & Bartlett Learning
6.	Fire Service Hydraulics & Pump Operation	Paul Spurgeon	Fire Engineering Series, Penwell Publications
7.	Industrial Fire Protection Engineering	Robert G.Zalosh	Wiley
8.	Industrial Safety, Health and environment Management system	R. K. Jain and Sunil S Rao	K H A N N A PUBLISHERS
9.	An Introduction to Fire Dynamics	D. D. Drysdale	Wiley

## Others

### First Year

Sl.No	Name of the book	Author	Publication
1.	Essential English Grammar with Answers	Raymond Murphy	Cambridge University Press)
2.	Human Values and Professional Ethics	R R Gaur, R Sangal, G P Bagaria	Excel Books
3.	Human Values	A.N. Tripathi	New Age Intl. Publishers
4.	The Story of My Experiments with Truth	M o h a n d a s Karamchand Gandhi	National Book Press
5.	Computer Fundamentals	R.S. Salaria	Khanna Publishing House
6.	PC Software Made Easy – The PC Course Kit	Ramesh Bangia	Khanna Publishing House
7.	English for Polytechnics	Dr P a p o r i R a n i Barooah	Eastern Book House Publishers)
8.	Industrial Engineering and Management	O.P. Khanna	Dhanpat Rai Publishing
9.	ENGLISH – I Scheme – MSBTE	S V SHETTY , DR Y T MALSHETTE , S S KASBE	Nirali Prakashan
10.	Entrepreneurship Development	CB Gupta and P Srinivasan	Sultan Chand & Sons
11.	Electrical Technology Vol – II	Theraja, B. L	S. Chand
12.	Electrical Technology Vol – I	Theraja, B. L	S. Chand
13.	Small is Beautiful	E. F Schumacher	RHUK
14.	Engineering Economics	Panneer Selvam, R	Prentice Hall of India
15.	Industrial Instrumentation	D. P. Eckman	CBS
16.	Let Us C	<u>Yashavant Kanetkar</u>	BPB

## **List of Softwares:**

- **Wolfram Mathematica**
- **Matlab**
- **FORTRAN**
- **C++**
- **Python**
- **ExCell**
- **LaTex**
- **CAD - Computer Aided Design**
- **LabView**
- **Origin**
- **XmGrace**
- **Simfit**
- **Sigmaplot**
- **SPSS : Statistical Package for Social Sciences (for all types of Statistical Computations.)**
- **R software**
- **Altium Designer**
- **Atmel Studio**
- **PartSim Simulator**
- **ESPREsSo : Extensible Simulation Package for Research on Soft matter**
- **GitHub**