AY 2024-25

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
(An Autonomous Institute under Kakatiya University, Warangal)

Date: 22-08-2024

LIST OF TEXTBOOKS FOR I – SEMESTER B.TECH.

All students are advised to **purchase the following TEXT BOOKS**and **LAPTOP/DESKTOP**. ***Textbook reading is an essential part of course learning.*** In addition to the classroom learning, the student can learn additional inputs from reading course textbooks

Stream –I (CSE,ECE,ECI,EEE,CE)

S. No	Name of the Course	Textbook to be Purchased	Author
1.	Differential Calculus and Ordinary Differential Equations (Common to all branches)	***Higher Engineering Mathematics*** Khanna Publishers, Delhi, 43/e	Grewal, B.S
2.	Programming for Problem solving with C (Common to all branches)	***Programming in ANSI C***, Tata McGraw Hill, 6/e	E. Balagurusamy
3.	Engineering graphics through CAD (Common to all branches)	(1) ***Elementary Engineering Drawing***, Charotar Publishing House, Anand, India, 2017. *(2)**Engineering Graphics with AutoCAD***, PHI publisher, revised edition, July 2010.	1. Bhatt N.D., 2. Kulkarni D. M., Rastogi A. P., and Sarkar A.
4.	Basic Electrical Engineering (for CSE, ECE &ECI)	***Basic Electrical Engineering***, I K International Publishing House Pvt. Ltd, 1/e	K. Uma Rao and A. Jayalakshmi
	Basic Electrical Engineering (for EEE)	1. ***Basic Electrical Engineering,*** Pearson Education, 2011 2. ***Circuits and networks***, McGraw-Hill Education, 2015, Fifth edition	K. Uma Rao A. Sudhakar, Shyammohan S. Palli
	Basic Electrical and Electronics Engineering (for CE)	1.***Basic Electrical Engineering***, Pearson Education, Edition,2011 2. ***Electronic Devices and Circuits***, TMH Publication, 5th Edition	K. Uma Rao S Salivahanan & N Suresh Kumar
4	Engineering Physics (for CSE)	1.***A Textbook of Engineering Physics***, S. Chand & Company Ltd, 11th Edn., 2018 2.***Electronic devices and circuits***, Mc Graw Hill Edn., 2017	M. Avadhanulu and Kshirsagar, TVS Arun Murthy, S Salivahanan, N Suresh Kumar
	Engineering Physics (for ECE)	1. ***Electronic devices and circuits***, Mc Graw Hill Education (India) private limited, ISBN-10: 93-392-1225-8, 2015. ***2. A Textbook of Engineering Physics***, S. Chand & Company Ltd,	S Salivahanan, N Suresh Kumar M. Avadhanulu and Kshirsagar, TVS Arun Murthy

		11th Edn., ISBN- 978-93-528-3399-3, 2018 ***Electrical Engineering Materials and Electronic Components***, S.K.Kataria& Sons Publisher, ISBN-10: 81-85749-84-1, 2005	K.B.Raina, S.K.Bhattacharya, T. Joneja
	Engineering Physics (for ECI&EEE)	1.***A Text Book of Engineering Physics***, S. Chand & Company Ltd, 11th edition, 2018 2. ***Electronic devices and circuits***, Mc Graw Hill, 3rd edition, 2017 *3.****Electrical Engineering Materials and Electronic Components***, S.K.Kataria& Sons Publisher, 2005	M. Avadhanulu and Kshirsagar, TVS Arun S Salivahanan, N Suresh KumarMurthy K.B.Raina, S.K.Bhattacharya, T. Joneja,
	Engineering Physics (for CE)	1.***A Textbook of Engineering Physics***, S. Chand & Company Ltd, 11th edition, 2018 2. ***Engineering Physics***, McGraw Hill Education, New Delhi, 2nd edition, 2021.	M.N. Avadhanulu, P.G. Khirsagar and T.V.S. Arun Murthy V. Rajendran,
5	Computer Organization & Architecture (for CSE)	***Computer Organization and Embedded Systems***, McGraw-Hill Education, 6th Edition,	Carl Hamacher, Zvonko Vranesic, Safwat Zaky, Naraig Manjikian,
	Switching Theory and Logic Design (for ECE)	***Switching Theory & Logic Design*** *PHI, 2nd edition, 2014.* *Digital Design, PHI, New Delhi, 4th edition, 2006.*	A. Anand Kumar M. Moris Mano
	Electronic Measurements and Instrumentation (for ECI)	***Electronic Measurements and Instrumentation,***S. Chand & Co., New Delhi 3rd edition, 2020	R.K. Rajput
	Electrical Measurements & Sensors (for EEE)	***Electrical and Electronics Measurement and Instrumentation***, Dhanpat Rai Publications, 12th edition	A. K. Sawhney
	Engineering Mechanics (for CE)	1. ***Engineering Mechanics: Statics and Dynamics***, Umesh Publishers, New Delhi, 15th edition, 2020. (Unit-I , II & III) *2.* ***Strength of Materials***, S. Chand and Company, New Delhi, 8th edition. 2021. (Unit-IV)	A.K. Tayal R.K. Rajput

Stream –II (CSM, CSD, IT, CSN, CSO, ME)

S. No	Name of the Course	Textbook to be Purchased	Author
1.	Differential Calculus and Ordinary Differential Equations (Common to all branches)	***Higher Engineering Mathematics***, Khanna Publishers, Delhi, 43/e	Grewal, B. S
2.	Programming for Problem solving with C (Common to all branches)	***Programming in ANSI C***, Tata McGraw Hill, 8/e, 2022	E. Balagurusamy
3.	Basic Electrical Engineering (for CSM, CSD, CSO, CSN, IT)	***Basic Electrical Engineering***, I K International Publishing House Pvt. Ltd, 1/e	K. Uma Rao and A. Jayalakshmi
	Basic Electrical and Electronics Engineering (for ME)	1.***Basic Electrical Engineering***, Pearson Education, Edition,2011(Unit-I, II & III)	K. Uma Rao
		2.***Electronic Devices and Circuits***,*TMH Publication*, 5th Edition (Unit -IV)	S Salivahanan & N Suresh Kumar
4	Engineering Chemistry (for CSM, CSD, CSO, CSN, IT)	1. ***Engineering Chemistry*** Dhanpat Rai Publishing Company, 17/e, 2019 2. ***Green manufacturing: fundamentals and applications*** Springer Science & Business Media, 2012	Jain and Jain
	Engineering Chemistry (for ME)	***Engineering Chemistry***, Dhanpat Rai Publishing Company, 17th Edn., 2019	William D. Callister Jr & David G. Rethwisch
5	Switching Theory and Logic Design (for CSM)	*(1)* ***Digital Design***, PHI, New Delhi, 4th edition, 2006 (2) ***Switching Theory & Logic Design***, PHI,2nd edition, 2014	(1) M. Moris Mano (2) A. Anand Kumar
	Switching Theory and Logic Design (for CSD)	(1) ***Digital Design***, PHI, New Delhi, 4th edition, 2006 (2) ***Switching Theory & Logic Design***, PHI,2nd edition, 2014	(1) M. Moris Mano (2) A. Anand Kumar
	Digital Logic Design (for IT)	***Digital Design with an Introduction to the Verilog HDL***, Pearson, 5th edition, 2013	(1) M. Morris Mano (2) D. Michael Ciletti
	Digital Logic Design (for CSN & CSO)	***Digital Design***, PHI, 4th edition, New Delhi, 2003	Moris Mano
	Thermodynamics (for ME)	***Engineering Thermodynamics***, McGraw Hill Education, 6th edition, 2017.	Nag P.K.

LAPTOP/DESKTOP:

1. A Laptop/Desktop is essential to engineering students for them to improve their **PROGRAMMING SKILLS, PROBLEM SOLVING SKILLS, LATERAL THINKING and PRESENTATION SKILLS**.
2. It is recommended for every engineering student to have a laptop/Desktop. The student can use it for online classes, submission of coding assignments, making power point presentations, software to implement Mini Project and Major Project

PRINCIPAL