

**AICTE RECOMMENDED
LIST OF SUGGESTED BOOKS OF
KHANNA PUBLISHING HOUSE**

**FOR
POSTGRADUATE DEGREE COURSES
IN
ENGINEERING &
TECHNOLOGY
[FEBRUARY 2018]**



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COMPUTER SCIENCE & ENGINEERING		
SEMESTER -I		
S.No.	COURSES	LIST OF SUGGESTED BOOKS/ PUBLICATIONS
1	Mathematical Foundations for Computer Science	Manish Sharma & Amit Gupta, The Practice of Business Statistics
2	Advanced Data Structures	R.B. Patel, Expert Data Structures with C++
3	Data Science	V.K. Jain, Data Science & Analytics
4	Machine Learning	V.K. Jain, Machine Learning
		Rajiv Chopra, Deep Learning
5	Ethical Hacking	Harsh Bothra, Hacking
6	Introduction to Intelligent Systems	M.C.Trivedi, Artificial Intelligence
7	Distributed Systems	Ikvinderpal Singh, Distributed Systems
8	Advanced Wireless and Mobile Networks	Brijesh K. Gupta, Mobile Computing
9	Operating System Design	Ekta Walia, Operating Systems
10	Smart Sensors and Internet of Things	Jeeva Jose, Internet of Things
SEMESTER-II		
11	Big Data Analytics	V.K. Jain, Big Data and Hadoop
		V.K. Jain, Data Science & Analytics
12	Advance Algorithms	Gajendra Sharma, Design & Analysis of Algorithms
13	Parallel Algorithms	R.S. Salaria, Data Structures using C
14	IoT Application and Communication Protocol	Jeeva Jose, Internet of Things
15	Network Security	V.K. Jain, Cryptography and Network Security
16	Advanced Machine Learning	Rajiv Chopra, Deep Learning
		V.K. Jain, Machine Learning
SEMESTER-III		
17	Business Analytics	V.K. Jain, Data Science & Analytics
		Krishnan, Bhambri & Chopra, Business Analytics
18	Industrial Safety	S.C. Sharma, Industrial Safety
19	Waste to Energy	O.P. Gupta, Energy Technology
20	Data Warehousing & Mining	Ikvinderpal Singh, Data Mining & Warehousing
21	IOT and Smart Cities	Jeeva Jose, Internet of Things

CIVIL ENGINEERING		
SEMESTER-I		
S.No.	COURSES	LIST OF SUGGESTED BOOKS/ PUBLICATIONS
1	Advanced Structural Analysis	R. Agor, Structural Analysis
2	Advanced Solid Mechanics	D.S. Bedi, Strength of Materials
3	Theory and Applications of Cement Composites	S.K. Sharma, Civil Engineering Construction Materials
4	Analytical and Numerical Methods for Structural Engineering	RS Salaria, Computer Oriented Numerical Methods
5	Advanced Fluid Mechanics	SS Rattan, Fluid Mechanics
6	Water Resources Systems Planning	O. P. Gupta, Elements of Water Pollution Control Engineering
SEMESTER-II		
7	Ground Water Engineering	O. P. Gupta, Elements of Water Pollution Control Engineering
8	Free Surface Flows	Saiful Islam, Open Channel Flow
9	Computational Methods in Fluid Mechanics	SS Rattan, Fluid Mechanics and Hydraulic Machines
10	Advanced Numerical Analysis	RS Salaria, Computer Oriented Numerical Methods
SEMESTER-III		
11	Design of Prestressed Concrete Structures	S.B. Vanakudre, Prestressed Concrete
12	Business Analytics	Krishnan, Bhambri & Chopra, Business Analytics
		V.K. Jain, Data Science and Analytics
13	Industrial Safety	S.C. Sharma, Industrial Safety
14	Waste to Energy	O.P. Gupta, Energy Technology
15	Computer Methods in Hydraulics and Hydrology	Saiful Islam, Open Channel Flow

MECHANICAL ENGINEERING		
SEMESTER-I		
S.No.	COURSES	LIST OF SUGGESTED BOOKS/ PUBLICATIONS
1	Advanced Machine Design	Sadhu Singh, Machine Design
2	Mathematical Methods in Engineering	Chandrika Prasad, Advanced Engineering Mathematics
3	Advanced Fluid Dynamics	S.S. Rattan, Fluid Mechanics
4	Energy Conservation and Management	O.P. Gupta, Energy Technology
		O.P. Jahkar, Energy Conservation in Buildings
5	Air Conditioning System Design	Sadhu Singh, Refrigeration and Air Conditioning
SEMESTER-II		
6	Computer Aided Design	O.P. Gupta, Chemical Process Technology
7	Refrigeration and Cryogenics	Sadhu Singh, Refrigeration and Air Conditioning
SEMESTER-III		
8	Advanced Metallurgy	O.P. Gupta, Objective Type Questions & Answers in Metallurgical Engineering
9	Industrial Safety	S.C. Sharma, Industrial Safety
10	Waste to Energy	A. Chandra, Non-Conventional Energy
		O.P. Gupta, Energy Technology
11	Design of Solar and Wind System	O.P. Gupta, Energy Technology
12	Advanced Mathematical Methods in Engineering	Chandrika Prasad, Advanced Engineering Mathematics
13	Business Analytics	Krishnan, Bhambri & Chopra, Business Analytics
		V.K. Jain, Data Science and Analytics

TELECOMMUNICATION & ELECTRICAL ENGINEERING		
SEMESTER-I		
S.No.	COURSES	LIST OF SUGGESTED BOOKS/ PUBLICATIONS
1	Digital Image and Video Processing	M.C. Trivedi, Digital Image Processing
2	Computer Vision	Rajiv Chopra, Deep Learning A.Ravichandran, Computers Today
3	Voice and Data Networks	Bhavneet Sidhu, An Integrated approach to Computer Networks
4	Programming Languages for Embedded Software	R.S. Salaria, Data Structures using C++ R.B. Patel, Expert Data Structures with C
5	VLSI Signal Processing	Rishabh Anand, Digital System Design Using VHDL Virendra Kumar, Parallel Algorithms and Computation
6	Parallel Processing	Virendra Kumar, Parallel Algorithms and Computation
SEMESTER-II		
7	Pattern Recognition and Machine Learning	Rajiv Chopra, Machine Learning
8	Advanced Compute Architecture	Ikvinderpal Singh, Advanced Computer Organisation Architecture
9	IOT and Applications	Jeeva Jose, Internet of Things
10	Audio Processing	Bali & Bali, Audio Video Systems
11	Internet of Things	Jeeva Jose, Internet of Things
12	Voice and Data Networks	Bhavneet Sidhu, An Integrated approach to Computer Networks
13	VLSI Design Verification and Testing	Bhavneet Sidhu, An Integrated approach to Computer Networks
14	Network Security and Cryptography	V.K. Jain, Cryptography and Network Security
15	Physical Design Automation	V.K. Jain, Cryptography and Network Security
SEMESTER-III		
16	Artificial Intelligence	M.C. Trivedi, Artificial Intelligence
17	Business Analytics	V.K. Jain, Data Science and Analytics Krishnan, Bhambri & Chopra, Business Analytics
18	Industrial Safety	S.C. Sharma, Industrial Safety
19	Waste to Energy	O.P. Gupta, Energy Technology
20	Pattern Recognition and Machine Learning	Rajiv Chopra, Machine Learning
21	Communication Network	Bhavneet Sidhu, An Integrated approach to Computer Networks
22	Disaster Management	S.C. Sharma, Disaster Management

ELECTRICAL ENGINEERING		
SEMESTER-I		
S.No.	COURSES	LIST OF SUGGESTED BOOKS/ PUBLICATIONS
1	Electric Drives System	A.K. Babu, Electric & Hybrid Vehicles
2	Modeling and Analysis of Electrical Machines	P.S. Bimbhra, Electrical Machines
3	Dynamics of Electrical Machines	G.C. Garg, Electrical Machines-I, II
4	Digital Control	A. Ambikapathy, Control Systems
5	Renewable Energy Systems	A. Chandra, Non-Conventional Energy Resources
Semester-II		
6	Advanced Microcontroller based Systems	A.K. Gautam, Advanced Microprocessors
7	Non-Conventional Electrical Energy Systems	A. Chandra, Non-Conventional Energy Resources
8	Artificial Intelligence Techniques	M.C. Trivedi, Artificial Intelligence
9	Energy Conversion Processes	O.P. Gupta, Energy Technology
10	Electric and Hybrid Vehicles	A.K. Babu, Electric and Hybrid Vehicles
Semester-III		
11	Business Analytics	V.K. Jain, Data Science and Analytics
		Krishnan, Bhambri & Chopra, Business Analytics
12	Industrial Safety	S.C. Sharma, Industrial Safety
13	Waste to Energy	O.P. Gupta, Energy Technology
14	Computational Methods	R.S. Salaria, Computer Oriented Numerical Methods
15	Power System Analysis	A.Ambikapathy, Power System Analysis
16	Reliability Analysis and Protection	S.C. Sharma, Reliability Engineering

AICTE Recommended Books for Postgraduate Degree Courses as per Model Curriculum 2018

CHEMICAL ENGINEERING		
SEMESTER-I		
S.No.	COURSES	LIST OF SUGGESTED BOOKS/ PUBLICATIONS
1	Mathematical and Statistical Methods in Chemical Engineering	R.S. Salaria, Computer Oriented Numerical Methods
2	Industrial Pollution Control	O.P. Gupta, Elements of Environmental Pollution Control
SEMESTER-III		
3	Business Analytics	V.K. Jain, Data Science and Analytics
		Krishnan, Bhambri & Chopra, Business Analytics
4	Industrial Safety	S.C. Sharma, Industrial Safety
5	Disaster Management	S.C. Sharma, Disaster Management
6	Waste to Energy	O.P. Gupta, Energy Technology