BOOKS/ Resources
for
2ⁿᵈYear, 3ʳᵈYear and 4ᵗʰYear B.Tech Courses of IT and CSE
for
Additional Credit Earning through MOOCS

S.No.	COURSES		LIST OF SUGGESTED BOOKS/ PUBLICATIONS
1	Introduction to Computing for Data Analysis with Python	1.	Taming Python by Programming, Jeeva Jose
		2.	Introduction to Computing and Problem Solving with Python, Jeeva Jose, Khanna Publishing House
2	Web Application Development	1.	Internet & Web Development, Soma Das Gupta, Khanna Publishing House
		2.	Web Development, Tanweer Alam, Khanna Publishers
3	Introduction to Design Thinking	1.	Jimmy Jain, Design Thinking
		2.	Idres Mootee, Design Thinking of Strategic Thinking, Wiley
4	Introduction to Data Modeling	1.	Object Oriented Modeling, Analysis and Design, Ikvinderpal Singh, Khanna Publishing House
		2.	Umanath, Data Modeling and Database Design, Cengage
5	Foundation of Data Structures	1.	Data Structures, R.S. Salaria, Khanna Publishing House
		2.	Fundamentals of Data Structures, Sartaj Sahni, PHI
6	Cyber Physical Systems	1.	Information Security & Cyber Laws, Gupta & Gupta, Khanna Publishing House
		2.	Raj Kumar, Cyber Physical Systems, Pearsons
7	The Bits and Bytes of Computer Networking	1.	Bhavneet Sidhu, An Integrated Approach to Computer Networks, Khanna Publications
		2.	Keshav, An Engineering Approach to Computer Networking, PHI
8	Bayesian Statistics: Techniques and Models	1.	Marin, Bayesian Statistics, Springer
9	Introduction to Cisco Networking	1.	Todd Lammle, CCNA Routing & Switching
		2.	Cisco Networking Academy, CCNA Security Course Booklet
10	Using Databases with Python	1.	Data Science and Analytics (with Python, R and SPSS Programming, V.K. Jain, Khanna Publishing House
		2.	Taming Python by Programming, Jeeva Jose

11	Ethical Hacking	1.	Hacking, Harsh Bothra, Khanna Publishing House
		2.	Hacking Secrets, Sal Satish, Indian Servers
12	Data Communications and Network Services	1.	Bhavneet Sidhu, An Integrated Approach to Computer Networks, Khanna Publications
		2.	Keshav, An Engineering Approach to Computer Networking
13	Functional Programming in Scala	1.	Scala Reactive Programming, Posa, Packet Publishers
		2.	A Taste of Functional Programming in Scala, Mandal
14	Internet of Things	1.	Internet of Things, Jeeva Jose, Khanna Publishing
		2.	Internet of Things, Bahga, University Press
15	Introduction to Computational Thinking and Data Science	1.	Maheshwari, Data Analytics, McGraw
		2.	Data Science and Analytics (with Python, R and SPSS Programming), V.K. Jain, Khanna Publishing House
16	Neural Networks	1.	Artificial Neural Networks Technology, Munesh Chandra Trivedi, Khanna Publishing House
		2.	S. Rajasekaram & G.A. Vijyalakshmi Pai, Neural Networks, Fuzzy Logic and Genetic Algorithms, PHI
17	Bitcoin and Cryptocurrency Technologies	1.	Block Chain & Cryptocurrencies, Anshul Kaushik
		2.	Bitcoin and Cryptocurrency Technologies, Arvind Narayanan, Princeton University Press
18	Text Mining in Python	1.	Text Mining, Weiss, Springer
		2.	Text Analysis with Python, Sarkar, Apress
19	Embedded Systems	1.	Shibu, Introduction to Embedded Systems, McGraw Hill
		2.	R.B. Patel, Expert Data Structures with C, Khanna Publishing House
20	Pattern Recognition	1.	Khandelwal, K. C., Mahdi, S. S., Biogas Technology - A Practical Hand Book-Vol. I & II
		2.	M. Narasimha Murty, V. Susheela Devi, Pattern Recognition
21	Virtual Reality	1.	
		2.	

22	Big Data Analytics	1.	Data Science and Analytics (with Python, R and SPSS Programming), V.K. Jain, Khanna Publishing
		2.	Big Data Hadoop, V.K. Jain, Khanna Publishing
23	Artificial Intelligence	1.	A Classical Approach to Artificial Intelligence, Munesh Chandra Trivedi, Khanna Publishing House
		2.	Artificial Intelligence and Machine Learning, Chandra S.S. & H.S. Anand, PHI Publications

24	Data Science with Python	1.	Data Science and Analytics (with Python, R and SPSS Programming), V.K. Jain, Khanna Publishing
		2.	Big Data Black Book, DT Editorial Services, Wiley India
25	Neural Networks for Machine Learning	1.	Machine Learning, Rajiv Chopra, Khanna Publishing
		2.	Artificial Intelligence and Machine Learning, Chandra S.S. & H.S. Anand, PHI Publications
26	Internet of Things	1.	Internet of Things, Jeeva Jose, Khanna Publishing House
		2.	Internet of Things, Arsheep Bahga and Vijay Madisetti
27	Chaos, Fractals and Dynamic Systems	1.	Chaos, Fractals and Dynamic Systems, Lasota, Kindle Edition
28	Computer Forensics	1.	Hacking, Harsh Bothra, Khanna Publishing House
		2.	Cryptography and Network Security, William Stalings, Pearson
29	Graph Theory	1.	Combinatorics and Graph Theory, SB Singh, Khanna Publishing House
		2.	Graph Theory, Deo and Narsingh, PHI Publications
30	Data Science for Engineers with R	1.	Beginner's Guide for Data Analysis using R Programming, Jeeva Jose, Khanna Publishing House
		2.	Data Science & Analytics, V.K. Jain, Khanna Publishing House
31	Social Networks	1.	
		2.	
32	Biometrics	1.	Aadhaar, Shankar Aiyar, Westland
		2.	Biometrics, Samir Nanavati, Wiley India
33	Robotics: Vision Intelligence & Machine Learning	1.	S. Mukeerjee, Robotics Process Automation
		2.	K.Goyal and D.Bhandari, Industrial Automation and Robotics
34	Remote Sensing	1.	Basudeb Bhatta, Remote Sensing and GIS, Oxford Publications
		2.	BC Panda, Remote Sensing, Viva Books
35	Leadership for Engineers	1.	Hess, Leadership for Engineers, Wiley India
36	Becoming an Entrepreneur	1.	Alyssa Rispoli, The Young Enterprenuer, Motivational Press
		2.	Nandini, Enterpedia, Embassy Books

39	Compliance in Office365: Data Governance	1.	Ramesh Bangia, Learning Microsoft Office, Khanna Publishing House
		2.	DAMA International, Data Management Body of Knowledge
40	Marketing Fundamentals: Who Is Your Customer?	1.	Ion Dodson, Digital Marketing, Wiley India
		2.	Dwivedi, Marketing Chronicles, Notion Press
41	Business Analytics for Management Decision	1.	Business Analytics, Balram Krishan, Khanna Publishing House
		2.	U. Dinesh Kuamr, Business Analytics
42	Business Analytics and Data Mining Modeling using R	1.	Beginner's Guide for Data Analysis using R Programming, Jeeva Jose, Khanna Publishing House
		2.	Tripathi, Learn Business Analytics in Six Steps using SAS and R, Apress
43	Consumer Behaviour	1.	Kumar, Consumer Behaviour, Pearson
		2.	Ramesh Kumar, Consumer Behaviour – Indian Perspective, Pearson
44	Introduction to Research	1.	J.C. Pant, Introduction to Optimisation: Operations Research
		2.	Pannerselvam, Operations Research, PHI
45	Services Management- A practical approach	1.	James, Services Management, McGraw Hill
46	Systems Engineering: Theory and Practice	1.	Alexandar, Systems Engineering, Wiley India
47	Soft Skills for Business Negotiations and Marketing Strategies	1.	Damian Ryan, Using Digital Marketing, Kogan Page
		2.	John & Scott, Soft Skills, Dreamtech Publications

48	Data Mining: Theories and Algorithms for Big Data	1.	Data Mining & Warehousing, Ikvinderpal Singh, Khanna Publishing House
		2.	Big Data Analytics – A Hands on Approach, Bahga
49	Cloud Computing	1.	K. Chandrasekaran, Essentials of Cloud Computing
		2.	Pandey & Choudhary, Cloud Computing
50	Principles of Machine Learning	1.	Machine Learning, Rajiv Chopra, Khanna Publishing House
		2.	Machine Learning, V.K. Jain, Khanna Publishing

			House
51	Machine Learning	1.	Machine Learning, Rajiv Chopra, Khanna Publishing House
		2.	Machine Learning, V.K. Jain, Khanna Publishing House
52	Cyber Security and its 10 Domains	1.	Information Security & Cyber Laws, Sarika Gupta, Khanna Publishing House
		2.	Cyber Security, Nina Godbole, Wiley India
53	Entrepreneurship in Emerging Economies	1.	Sociology & Economics for Engineers, Premvir Kapoor
		2.	Technolopoly, Neil Postman, Vintage Publishers
54	Quality Design and Control	1.	Total Quality Management, M.P. Poonia & S.C. Sharma
		2.	Quality Engineering Using Robust Design, Phadke, Pearson
55	Six Sigma	1.	Total Quality Management, M.P. Poonia & S.C. Sharma
		2.	Simplified Six Sigma, Gopalakrishna, PHI
56	Cryptography and Network Security	1.	Cryptography and Network Security, V.K. Jain, Khanna Publishing House
		2.	Atul Kahate, Cryptography & Network Security