Maulana Abul Kalam Azad University of Technology Recommended Learning Resources/ Books (2018-19)

BOOKS / Resources

For

Classroom Equivalent MOOCS For B.Tech - CSE and IT Courses from

2nd year to 4th Year

S.No.	COURSES		LIST OF SUGGESTED BOOKS
1	Values and Ethics in Profession	1.	Professional Ethics and Human Values Premvir Kapoor
_		<u>2.</u>	A Foundation Course in Human Values and Professional Ethics,
			R.R. Gaur, R. Sangal, G.P. Bagaria
2	Environmental Sciences	1.	M.P. Poonia & S.C. Sharma, Environmental Studies
		2.	Erach Bharucha, Textbook of Environmental Studies
<u>3</u>	Biology	<u>1.</u>	Tyagarajan, Biology for Engineers
<u>4</u>	Analog Electronic Circuits	<u>1.</u>	A.K. Maini, Analog Electronics
		<u>2.</u>	L.K.Maheshwari, Analog Electronics
	D' '(1El)	1	D' 1 11 A 1 D' ' 1 D' . '
<u>5</u>	Digital Electronics	1.	Rishabh Anand, Digital Electronics
		<u>2.</u>	R.P. Jain, Modern Digital Electronics
<u>6</u>	Data structure & Algorithms	1.	R.S. Salaria, Data Structures and Algorithms using C
0	Data structure & Angorithms	<u>2.</u>	Sartaj Sahni, Fundamentals of Data Structures
		<u> </u>	Sarray Samm, 1 anoamentary of Data Structures
7	Numerical Methods	<u>1.</u>	R.S. Salaria, Computer Oriented Numerical Methods
_		<u>2.</u>	E.Balaguruswamy , Numerical Methods
8	Formal Language & Automata	1.	Amit Gupta, Theory of Automata and Formal Languages
	Theory	<u>2.</u>	Mishra, Theory of Computer Science: Automata, Languages and
			Computation
<u>9</u>	Computer Organization &	<u>1.</u>	Ikvinderpal Singh, Computer Organization and Architecture
	Architecture		
		<u>2.</u>	Rajaraman, Organization & Architecture
4.0		1	
<u>10</u>	Economics for Engineers	1.	Premvir Kapoor, Sociology and Economics for Engineers H.L Bhatia, Economics for Engineers
		<u>2.</u>	n.L diiana, Economics for Engineers
11	Design & Analysis of Algorithms	1.	Gajendra Sharma, Design & Analysis of Algorithms
11	Design & Anarysis of Argorithms		
		<u>2.</u>	S. Sridhar, Design & Analysis of Algorithms

12	Microprocessors & Microcontrollers	<u>1.</u>	A.K. Gautam, Advance Microprocessor
	1	<u>2.</u>	Ramesh Gaonkar, Microprocessors
			•
<u>13</u>	Discrete Mathematics	<u>1.</u>	Chakraborty & Sarkar, Discrete Mathematics and Its
			Applications
		<u>2.</u>	S.B. Singh Jai Kishore Ekta Gupta, Discrete Structures
<u>14</u>	Data Communication	<u>1.</u>	Sanjay Sharma, A course in Computer Networks, Katsons
		<u>2.</u>	Bhavneet Sidhu, An Integrated approach to Computer
			Networks
<u>15</u>	Digital Signal Processing	<u>1.</u>	Salivahanan, Digital Signal Processing
		<u>2.</u>	S. K. Mitra, Digital Signal Processing
<u>16</u>	Object Oriented Programming	<u>1.</u>	R.S. Salaria, Mastering Object Oriented Programming using
			C++
		<u>2.</u>	Balaguruswamy, Object Oriented Programming with C++
<u>17</u>	Principles of Management	<u>1.</u>	Premvir Kapoor, Principles and Practices of Management
		<u>2.</u>	C.B. Gupta, Principles of Management
<u>18</u>	Database Management System	<u>1.</u>	R.P. Mahapatra Govind Verma, Database Management System
		<u>2.</u>	Raghurama Krishan, Database Management Systems
10	C	1	
<u>19</u>	Computer Networks	1.	Bhavneet Sidhu, An Integrated Approach to Computer Networks
		<u>2.</u>	Keshav, An Engineering Approach to Computer Networking
20	Operating Systems	1	Ekta Walia, Operating System Concepts
<u>20</u>	Operating Systems	1.	Dhananjay M. Dhamdhere, Operating Systems A Concept-
		<u>2.</u>	Based Approach
			Based Approach
<u>21</u>	Information Theory Coding	1	Monica Borda, Fundamentals in Information Theory and
<u> </u>	Information Theory County		Coding
		<u>2.</u>	Bose, Information Theory, Coding and Cryptography
		<u> 2.</u>	bose, information meory, coding and cryptography
<u>22</u>	Computer Graphics	<u>1.</u>	Rishabh Anand, Computer Graphics
		<u>2.</u>	Shah, Engineering Drawing and Computer Graphics
<u>23</u>	Operations Research	<u>1.</u>	J.C. Pant, Introduction to Optimisation: Operations
			Research
		<u>2.</u>	Pannerselvam, Operations Research
	W D 34	1	
<u>24</u>	Human Resource Management	1.	C.B. Gupta, Human Resource Management
		<u>2.</u>	Awasthapa, Human Resource Management & Case Studies
2F	Multimedia	1	V. V. Join Introduction to Multimodic and Ita Applications
<u>25</u>	Ividitifiedia	1.	V.K. Jain, Introduction to Multimedia and Its Applications Multimedia and Animation by V.K. Jain
		<u>2.</u>	With the Cura and Panination by V.K. Jani
24	Software Engineering	1.	Nasib Singh Gill, Software Engineering
<u>26</u>	Software Engineering	<u>2.</u>	Pankaj Jalote, A concise introduction to software Engineering
		<u> </u>	rankaj saroto, ri concise introduction to software Engineering
<u>27</u>	Complier Design	<u>1.</u>	Aho, Complier Design
<u> </u>	Compiler Design	2.	Shrikant, Complier Design Handbook
		_	ooks in Engineering & Tachnology w. a.f. 2018

<u>28</u>	Pattern Recognition	<u>1.</u>	Khandelwal, K. C., Mahdi, S. S., Biogas Technology - A Practical Hand Book-Vol. I & II
		<u>2.</u>	M. Narasimha Murty, V. Susheela Devi, Pattern
			Recognition
29	Soft Computing	1.	Ikvinderpal Singh, Soft Computing
=-	1 2	<u>2.</u>	Sivanandam & Deepa, Principles of Soft Computing
<u>30</u>	Artificial Intelligence	<u>1.</u>	Munesh Chandra Trivedi, A Classical Approach to Artificial Intelligence
		<u>2.</u>	Chandra S.S. & H.S. Anand, Artificial Intelligence and Machine Learning
<u>31</u>	Digital Image Processing	1.	Ikvinderpal Singh, Digital Image Processing
		<u>2.</u>	Anil Kumar Jain, Fundamentals of Digital Image Processing
32	Cloud Computing	1.	K. Chandrasekaran, Essentials of Cloud Computing
32	Cloud Companies	<u>2.</u>	Pandey & Choudhary, Cloud Computing
			, , , , , , , , , , , , , , , , , , ,
<u>33</u>	Data Mining	<u>1.</u>	Krishnan, Bhambri & Chopra, Data Mining & Bussiness Intelligence
		<u>2.</u>	Vipin Kumar, Introduction to Data Mining
34	Sensor Networks	<u>1.</u>	C.S. Raghavendra, K. M. Sivalingam, T. Znati, Editors, Wireless Sensor Networks
		<u>2.</u>	Misra, Wireless Communication and Netorks
<u>35</u>	Mobile Computing	<u>1.</u>	Rishabh Anand, Mobile Computing
<u>55</u>	macine companing	<u>2.</u>	Talukdar, Mobile Computing
			Talandary mobile companing
<u>36</u>	Internet Technology	<u>1.</u>	A. Ravichandhran, Fundamentals of Information Technology
		<u>2.</u>	Soma Dasgupta, Internet & Web Development
<u>37</u>	Microelectronics & VLSI Design	<u>1.</u>	P.P. Sahu, VLSI Design
		<u>2.</u>	N.A. Sherwani, Algorithms for VLSI Physical Design
			Automation
20	Control System	1	A Ambikanathy Control Systems
<u>38</u>	Control System	<u>1.</u> <u>2.</u>	A. Ambikapathy, Control Systems Gopal, Control Systems
		<u> </u>	Copul, Control Dysteins
39	Organizational Behavior	<u>1.</u>	C.B. Gupta, Organizational Behavior
<u> </u>		<u>2.</u>	Vohra, Organizational Behavior
<u>40</u>	Project Management	<u>1.</u>	Jha, Project Management
		<u>2.</u>	Punmia, Project Management with CPM /PERT
41	Computer Architecture	<u>1.</u>	Ikvinderpal Singh, Computer Organization and Architectures
<u></u>		<u>2.</u>	Rajiv Chopra, Advanced Computer Architecture
42	Natural Language Processing	<u>1.</u>	Rajesh Arumugam, Hands-on Natural Language Processing with Python
		<u>2.</u>	Taming Python by Programming, Jeeva Jose
			
	1	-	

43	Cryptography and Network Security	<u>1.</u> <u>2.</u>	V.K. Jain, Cryptography and Network Security Atul Kahate, Cryptography & Network Security
44	Business Analytics	<u>1.</u> <u>2.</u>	Krishnan, Bhambri & Chopra, Business Analytics U. Dinesh Kuamr, Business Analytics
<u>45</u>	Cyber Law and Security Policy	<u>1.</u> <u>2.</u>	Gupta & Gupta, Information Security & Cyber Laws V.K. Jain, Cryptography and Network Security
46	Low Power Circuits	<u>1.</u>	Prasad, Low Power CMOS VLSI Circuit Design
<u>47</u>	E-Commerce	<u>1.</u> <u>2.</u>	Gupta & Gupta, E-Commerce P.T. Joseph, E-Commerce
<u>48</u>	Robotics	<u>1.</u> <u>2.</u>	S. Mukeerjee, Robotics Process Automation K.Goyal and D.Bhandari, Industrial Automation and Robotics