

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY
RECOMMENDED LEARNING RESOURCES/ BOOKS
(2018-2019)
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
<u>1</u>	Values and Ethics in Profession	<u>1.</u> 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
<u>2</u>	Environmental Sciences	<u>1.</u> M.P. Poonia & S.C. Sharma, Environmental Studies
		<u>2.</u> 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
<u>5</u>	Digital Electronics	<u>1.</u> Rishabh Anand, Digital Electronics
		<u>2.</u> R.P. Jain, Modern Digital Electronics
<u>6</u>	Data structure & Algorithms	<u>1.</u> R.S. Salaria, Data Structures and Algorithms using C
		<u>2.</u> Sartaj Sahni, Fundamentals of Data Structures
<u>7</u>	Numerical Methods	<u>1.</u> R.S. Salaria, Computer Oriented Numerical Methods
		<u>2.</u> E.Balaguruswamy , Numerical Methods
<u>8</u>	Formal Language & Automata Theory	<u>1.</u> Amit Gupta, Theory of Automata and Formal Languages
		<u>2.</u> Mishra, Theory of Computer Science: Automata, Languages and Computation
<u>9</u>	Computer Organization & Architecture	<u>1.</u> Ikvinderpal Singh, Computer Organization and Architecture
		<u>2.</u> Rajaraman, Organization & Architecture
<u>10</u>	Economics for Engineers	<u>1.</u> Premvir Kapoor, Sociology and Economics for Engineers
		<u>2.</u> H.L Bhatia, Economics for Engineers
<u>11</u>	Design & Analysis of Algorithms	<u>1.</u> Gajendra Sharma, Design & Analysis of Algorithms
		<u>2.</u> S. Sridhar, Design & Analysis of Algorithms
<u>12</u>	Microprocessors & Microcontrollers	<u>1.</u> A.K. Gautam, Advance Microprocessor
		<u>2.</u> Ramesh Gaonkar, Microprocessors
<u>13</u>	Discrete Mathematics	<u>1.</u> Chakraborty & Sarkar, Discrete Mathematics and Its

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			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
<u>19</u>	Computer Networks	<u>1.</u>	Bhavneet Sidhu, An Integrated Approach to Computer Networks
		<u>2.</u>	Keshav, An Engineering Approach to Computer Networking
<u>20</u>	Operating Systems	<u>1.</u>	Ekta Walia, Operating System Concepts
		<u>2.</u>	Dhananjay M. Dhamdhare, Operating Systems A Concept-Based Approach
<u>21</u>	Information Theory Coding	<u>1.</u>	Monica Borda, Fundamentals in Information Theory and Coding
		<u>2.</u>	Bose, Information Theory, 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
<u>24</u>	Human Resource Management	<u>1.</u>	C.B. Gupta, Human Resource Management
		<u>2.</u>	Awasthapa, Human Resource Management & Case Studies
<u>25</u>	Multimedia	<u>1.</u>	V.K. Jain, Introduction to Multimedia and Its Applications
		<u>2.</u>	Multimedia and Animation by V.K. Jain
<u>26</u>	Software Engineering	<u>1.</u>	Nasib Singh Gill, Software Engineering
		<u>2.</u>	Pankaj Jalote, A concise introduction to software Engineering
<u>27</u>	Compiler Design	<u>1.</u>	Aho, Compiler Design
		<u>2.</u>	Shrikant, Compiler Design Handbook

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

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