

LEARNING AND INFORMATION RESOURCE CENTRE

EXTC Sem VI Books - Updated on January 17<sup>th</sup> 2022

Subject	Title	Author	Publications	Existing Copies in Library
Electromagnetics and Antenna(ECC601)	Electromagnetic Waves and Radiating Systems-2nd edition	Jordan and Balmain	PHI	11
	Principles of Electromagnetics Engineering-6th edition	Matthew N. O.Sadiku , S.V.Kulkarni	university press	Nil
	<b>PRINCIPLES OF ELECTROMAGNETICS -6th edition</b>	<b>SADIKU, MATTHEW N.O.KULKARNI, S.V.,</b>	<b>OXFORD UNIVERSITY PRESS</b>	<b>26</b>
	Antenna Theory: Analysis and Design, , 4th.ed	Costantine A. Balanis	John Wiley Publication	UG:2nd.ed.(17);3rd.ed.(11);PG:3rd.ed(10)
	Antenna and wave Propagation,4th edition	John D Kraus, A S Khan	McGraw Hill	10
	Antenna Theory and Design. , 3rd edition	Stutzman, Theile	John Wiley and Sons	PG:2
	Engineering Electromagnetics,7th edition	William H Hayt and John A Buck	Tata McGraw-Hill Publishing Company Limited	1
	Antennas and Radio Wave Propagation	R. E. Collin	McGraw Hill, International Student Edition	2
Computer Communication Networks(ECC602)	Data Communications and Networking , Fifth Edition , 2013.	Behrouz A. Forouzan	TMH	2nd .ed.(15);3rd .ed.(1);4th .ed.(37);5th .ed(11)=64

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	Computer Networks-Fifth Edition , 2013.	Andrew S Tanenbaum	Pearson Education, 2013.	UG:2nd.ed.(2); 3rd.ed.(5);4th.ed.(50);5th.ed.(5);PG:4th.ed.(3)
	Computer Networking: A Top-Down Approach,, 5th Edition, 2010	J J. F. Kurose and K. W. Ross	Addison Wesley	UG:8;PG:3
	Communication Networks, Second Edition, Fourth Edition, 2008.	Alberto Leon Garcia	McGraw Hill Education	Nil
	<b>COMMUNICATION NETWORKS: FUNDAMENTAL CONCEPTS AND KEY ARCHITECTURES</b>	<b>LEON-GARCIA, ALBERTO,WI DJAJA, INDRA</b>	<b>TATA McGRAW-HILL</b>	<b>2nd .ed(30)</b>
	An Engineering Approach to Computer Networks-, 2nd Edition,, 2015.	S.Keshav	Pearson Education	Nil
	<b>ENGINEERING APPROACH TO COMPUTER NETWORKING : ATM NETWORKS, THE INTERNET, AND THE TELEPHONE NETWORK</b>	<b>S.Keshav</b>	<b>Pearson Education</b>	<b>UG:8;PG:3</b>
	Understanding communications and Networks, 3rd Edition	W.A.Shay	Cengage Learning	2001(2);1994(1)
	Data and Computer Communications, 10th Edition, Pearson Education, 2014.	William Stallings	Pearson Education	6th.ed.(8);7th.ed.(1);8th.ed.(11)
Digital Image Processing and Machine Vision(ECC603)	Image Processing, Analysis, and Machine Vision, 3rd Edition, 2013	Milan Sonka ,Vaclav Hlavac, Roger Boyle	Cengage Engineering	2nd.ed.(4); 3rd.ed.(2)

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	Digital Image Processing, India, Third Edition	Gonzales and Woods	Pearson Education	UG:2nd.ed.(29);3rd.ed.(37);PG:3rd.ed.(3)
	Pattern classification and scene analysis	R. O. Duda and P. E. hart	Wiley Interscience publication	Nil
	<b>PATTERN CLASSIFICATION</b>	R. O. Duda and P. E. hart	Wiley Interscience publication	UG:2nd.ed.(8); PG:2nd.ed.(3)
	Pattern Recognition and Machine Learning	Christopher M. Bishop	Springer, 2006	PG:2
	Fundamentals of Image Processing, First Edition, 1989.	Anil K.Jain	Prentice Hall of India	Nil
	<b>FUNDAMENTALS OF DIGITAL IMAGE PROCESSING</b>	Anil K.Jain	<b>NEW DELHI/PHI LEARNING/1989</b>	1989(9); 2000(1);2002(10)
	Digital Image Processing, 3rd Edition, 2002	W Pratt	Wiley Publication	5
	Computer vision: A modern approach	Forsyth and Ponce	PHI	8
	Image Processing and Pattern Recognition: Fundamentals and Techniques	Frank Y Shish	Wiley Wiley-IEEE Press, 2010	Nil
Artificial Neural Networks and Fuzzy Logic(ECC604)	Introduction to Soft Computing, 3rd Edition.	S. N. Sivanandam and S. N. Deepa	Wiley India Publications	Nil
	<b>PRINCIPLES OF SOFT COMPUTING</b>	S. N. Sivanandam and S. N. Deepa	Wiley India Publications	UG:2007(3);2nd.ed.(12);PG:2nd.ed.(10)
	Neural Networks and Learning Machines,3rd Edition	Simon Haykin	Pearson Prentice Hall	Nil

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Neural Networks, Fuzzy Logic, and Genetic Algorithms	S. Rajasekaran and G. A. Vijayalakshmi Pai	PHI Learning Pvt. Ltd, 2003.	25
Practical Convolutional Neural Networks	Mohit Sewak Md. Rezaul Karim, Pradeep Pujari	Packt Publishing, 2018.	Nil
Fuzzy Logic with Engineering Applications, 3rd Edition	Timothy J. Ross	Wiley India Publications	1997(5); 2nd.ed.(3); 3rd.ed.(10)=18
Neural Network Design, 2nd Edition	Hagan, Demuth, and Beale	Thomson Learning	1996(6)
Neural Network- A Comprehensive Foundation, , 2nd.ed.	Simon Haykin	Pearson Education	9
Neural Networks for Pattern Recognition	Christopher M. Bishop	Oxford University Press, 2005.	(1995)1
Machine Learning Methods in the Environmental Sciences: Neural Network and Kernels	William W. Hsieh	Cambridge University Press, 2009.	15
Deep Learning, 2016	Ian Goodfellow, Yoshua Bengio, Aaron Courville	MIT Press	Nil
Introduction to Neural Network using Matlab 6.0	S. N. Sivanandam, S. Sumathi, and S. N. Deepa	Tata McGraw-Hill Publications, 2006.	5
Elements of Artificial Neural Networks	Mehrotra Kishan, Mohan C. K. Ranka Sanjay	Penram International Publishing Pvt. Ltd, 2nd Edition.	1997(6)

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	Introduction to Artificial Neural Systems	J. M. Zurada	Jaico Publishers, 2006.	1994(6);2006(8)=14
	Neural Networks and Fuzzy Systems	Bart Kosko	Pearson Education, 2007.	2009(3)
Mixed Signal VLSI(ECCDLO 6011)	Design of Analog CMOS Integrated Circuits, first edition,	B. Razavi	McGraw Hill,2001.	UG:7(2013);P G:3=10(2001)
	CMOS Analog Circuit Design, second edition	P.E.Allen and D R Holberg	Oxford University Press, 2002.	UG:4(2012);P G:3(2009)=7
	CMOS Circuit Design, Layout and Simulation, 2nd Edition	R. Jacob Baker	Wiley 2013	UG:8(2005);P G:3(2002);3(2005)
	Microelectronics Circuits Theory and Applications, Fifth Edition	Adel S. Sedra, Kenneth C. Smith, A.N. Chandorkar	Oxford University Press.	3(6th .ed.)
	<b>MICROELECTRONIC CIRCUITS</b>	Adel S. Sedra, Kenneth C. Smith, A.N. Chandorkar	Oxford University Press.	3rd.ed.(1);4th.ed.(1);5th.ed.(5)
	Analysis and design of Analog Integrated Circuit, 4th.ed	Gray, Meyer, Lewis and Hurst	Willey International, 2002	1(1995)
	Analog Circuit Design, Second Edition	Tony Chan Carusone, David Johns, Kenneth Martin	Wiely	Nil
	NPTEL / Swayam Course:			
Computer Organisation and Architecture(EC CDLO 6012)	Computer Organization and Architecture Designing for Performance-Tenth Edition	William Stallings	Pearson Education.	4th.ed.(2);5th.ed.(2);6th.ed.(15);7th.ed.(5);8th.ed.(6);9th.ed(10)

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	Computer Organization	C. Hamacher, Z. Vranesic and S. Zaky	McGrawHili	21
	Structured Computer Organization, Sixth Edition	Andrew S. Tanenbaum	Pearson	5th ed.(3);4th.ed.(6)
	Computer Organization and Design	D. A. Patterson and J. L. Hennessy	-	Nil
	Computer System Architecture, 3rd Edition, 2007	Morris Mano	Pearson Publication	10
	Computer Architecture and Organization	J. P. Hayes	McGraw-Hill, 1998	27
	Computer Architecture and Organization: Design Principles and Applications, Second Edition	B. Govindarajalu	Tata McGraw-Hill.	4
Digital Forensic (ECCDLO 6013)	Incident Response and computer forensics	Kevin Mandia, Chris Prosis	Tata McGrawHill, 2006	Nil
	Incident Response and computer forensics	LUTTGENS, JASON T./PEPE, MATTHEW/ MANDIA, KEVIN	McGRAW-HILL/2014	3
	Scene of the Cybercrime: Computer Forensics- Handbook 1st Edition, Kindle Edition	-	-	NIL
	Digital Forensics	Nilakshi Jain & Kalbande	Wiley Publication	8
	Cyber Security	Nina Godbole, Sunit Belapure	Wiley Publication	Nil
	CYBER SECURITY: UNDERSTANDING	Nina Godbole, Sunit Belapure	Wiley Publication	UG:30;PG: 11

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	CYBER CRIMES, COMPUTER FORENSICS AND LEGAL PERSPECTIVES			
	Guide to Computer Forensics and Investigations	Bill Nelson, Amelia Phillips, Christopher Steuart	Cengage Learning, 2014	2010-4th. ed.(15)
	Scene of the Cybercrime: Computer Forensics Handbook, 2nd Edition	Debra Littlejohn Shinder Michael Cross	Syngress Publishing, Inc.2008.	Nil
	Computer Forensics and Cyber Crime, Third Edition.	Marjie T. Britz	Pearson	Nil
	Suggested MOOCs for Self-Learning:	Course on “Ethical Hacking”		
		Course on “Digital Forensics”		
		Course on “Computer Forensics”		
		Course on Cyber Incident Response		
		Course on “Penetration Testing, Incident Responses and Forensics”		
Database Management System(ECCDL O 6014)	Database System Concepts, Fifth Edition	A Silberschatz, H Korth, S Sudarshan	McGraw-Hill	3rd.ed.(4);1991(1);1997(6);2006(1);5th.ed.(5);6th.ed.(32); PG:-6th.ed.(7)
	Database Systems, Seventh Edition	Rob, Coronel	Cengage Learning.	Nil

DATABASE SYSTEMS:DESIGN IMPLEMENTATION AND MANAGEMENT	Rob, Coronel	COURSE TECHNOLOGY. THOMSON LEARNING	4th.ed(5)
Fundamentals of Database System, Seventh Edition	Ramez Elmasri, Shamkant B. Navathe	Person.	UG:2nd.ed.(1); 3rd.ed.(7);4th.ed.(11);5th.ed.(60);7th.ed.(10);PG:5th.ed.(8)
Database Management Systems	G. K. Gupta	McGraw – Hill.	38
Database Systems Design, Implementation and Management, 5th Edition	Peter Rob and Carlos Coronel	Thomson Learning	4th.ed.(5)
SQL and PL/SQL for Oracle 11g, Black Book	P.S. Deshpande	Dreamtech Press	2
Introduction to Database Management	Mark L. Gillenson, Paulraj Ponniah	Wiley	4
Database Management Systems	Raghu Ramkrishnan and Johannes Gehrke	TMH	32
Database Management Systems	Debabrata Sahoo	Tata McGraw Hill, Schaum's Outline	
Database Management Systems	MATA-TOLEDO, RAMON A./CUSHMAN, PAULINE K./SAHOO, DEBABRATA	TATA McGRAW-HILL	5
E-Resources:			

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IoT and Industry 4.0(ECCDLO 6015)	Internet of Things: A Hands-on Approach	ArshdeepBahga and Vijay Madiseti	Universities Press.	20
	Internet of Things: Architecture and Design Principles	Raj Kamal	McGraw Hill Education	5
	Big Data Analytics	Radha Shankarmani, M Vijayalakshmi	Wiley Publications	61
	Analytics for the Internet of Things(IoT),Kindle Edition	Andrew Minteer	-	Nil
	Hands-On Industrial Internet of Things: Create a powerful Industrial IoT infrastructure using Industry 4.0”, Packt	Giacomo Veneri , Antonio Capasso		Nil
	Suggested reference material (research papers):		Industry 5.0—A Human-Centric	
			Solution – MDPI (open access)	
			Industry 5.0: Is the Manufacturing Industry on the Cusp of a New Revolution?	
	Industry 4.0: Managing The Digital Transformation	Alp Ustundag Emre Cevikkan	Springer Series in Advanced Manufacturing	Nil
	Internet of Things for Industry 4.0. EAI/Springer Innovations in Communication and Computing	G. R. Kanagachidambaresan, R. Anand, E. Balasubramanian, V. Mahima	-	Nil

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The Internet of Things (Connecting objects to the web)	Hakima Chaouchi	Wiley Publications	2
The Internet of Things	Samuel Greengard	MIT Press	3
Designing the Internet of Things, Paperback,First Edition	Adrian McEwen, Hakim Cassimally		3
Suggested MOOCs:		Introduction to Industry 4.0 and Industrial Internet of Things, By Prof. Sudip Misra, IIT Kharagpur	
		Industry 4.0: How to Revolutionize your Business	
		Introduction to internet of things, by Prof.Sudip Misra , IIT Kharagpur	
		Embedded Systems Design	
		By Prof. Anupam Basu, IIT Kharagpur	
Recommended list of tools for self learning:	Node Red -		
	M2MLabs Mainspring		
	Tensor Flow		
	Things Speak		

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Radar Engineering(EC CDLO 6016)	Introduction to RADAR Systems,Third Edition	Merill Skolnik	Tata McGrawHill	20
	RadarHandbook, Second Edition	Merill Skolnik	TataMcgrawHill	Nil
	Radar Systems and Radio Aids to Navigation	Dr. A. K. Sen, Dr. A. B. Bhattacharya	Khanna Publishers	4
	Principles of Modern Radar Basic Principals	Mark A.Richards,James A.Scheer, William A.Holm	ScitechPublishing	Nil
	UnderstandingRadarSystems	Simon Kingsley,Shau n Quegon	ScientechPublishing Inc.	Nil
	Radar Engineering and Fundamentals of Navigational Aids	G.S. N.Raju	I. K International publishing House Pvt.Ltd.	Nil
	Radar Systems and Radio Aids to Navigation	Dr. Arjun Singh	McGraw-Hill Education Private Limited	Nil
	Shipborne Radar And Arpa Nutshell Series Book3	CAPT. H. SUBRAMANI AM		Nil
Online Resource	NPTEL online Course			
Skill Laboratory: Linux & Networking &Server Configuration (ECL604)	UNIX Shell Programming, First edition.	YeswantKanet hkar	BPB	10
	Red Hat Linux Bible, 2005 edition..	Christopher Negus	Wiley Dreamtech India	Nil
	Linux for Beginners: An Introduction to the Linux Operating System and Command line	Jason Cannon		Nil

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	Advanced Programming in the UNIX Environment	W. Stevens, Stephen Rago	Addison-Wesley Professional Computing Series	Nil
	Official Red Hat Linux Users guide	Redhat	Wiley Dreamtech India	Nil
	UNIX for programmers and users, Third Edition	Graham Glass & King Ables	Pearson Education.	Nil
	Beginning Linux Programming, Fourth edition,	Neil Mathew & Richard Stones	Wiley Dreamtech India.	10
	Linux: The Complete Reference, Sixth Edition	Richard Petersen	-	Nil
			Software Tools:	
			Online Repository:	
Mini Project 2B:FPGA based Project(ECM601)	Verilog HDL A guide to Digital Design and Synthesis, 2nd Edition,2009	Samir Palnitkar	Pearson Education	Nil
	Programming FPGAs : Getting started with Verilog”, 1st Edition, 2016	Simon D Monk	McGraw Hill Education-	Nil
	Digital Design: With a Introduction to the Verilog Hdl	M. Morris Mano, Michael D. Ciletti	Pearson Prentice Hall, 2013	Nil
	Make: FPGAs: Turning Software into Hardware with Eight Fun and Easy DIY,First edition,2016	David Romano	Shroff/Maker Media	Nil
	Digital Design, Preview edition, 2009	Frank Vahid	Wiley India Private Limited	2005(7)

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COMPUTER ARITHMETIC Algorithms and Hardware Designs	Behrooz Parhami	Oxford University Press, 2010	Nil
Design Warrior's Guide to FPGA, 2004	Clive Maxfield	Elsevier	Nil
		Reference links:	
	Suggested FPGA Hardware Boards:	Numato FPGA boards -	
		Papilio FPGA boards -	
		CMOD s6 -	
		TinyFPGA	
		Zync,Zed Board	
		Artix -7, Kinetex Boards	