ST.FRANCIS INSTITUTE OF TECHNOLOGY (ENGINEERING COLLEGE)
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LEARNING AND INFORMATION RESOURCE CENTRE

EXTC Sem V Books - Updated on July 2022

Subject	Title	Author	Publica-tions	No. of Existing Books in the Library
Digital communication ECC501	Principles of Communication Systems	H. Taub, D. Schlling, and G. Saha-	Tata Mc-Graw Hill, New Delhi, Third Edition, 2012	50
	Modern Digital and Analog Communication Systems	Lathi B P, and Ding Z	Oxford University Press, Fourth Edition, 2017	33
	Digital Communications	Haykin Simon	John Wiley and Sons, New Delhi, Fourth Edition, 2014	16
	Digital Communications	John G. Proakis	McGraw-Hill, Fourth Edition	7
	Digital Communication: Fundamentals and applications,	Sklar B, and Ray P. K	Pearson,Dorling Kindersley (India), Delhi, Second	36

			Edition, 2009.	
	Analog and Digital Communication	T L Singal	Tata Mc-Graw Hill, New Delhi, First Edition,2012.	3
	Digital Communication	P Ramakrishna Rao	Tata Mc-Graw Hill, New Delhi, First Edition,2011.	10
	Digital and analog communication Systems,	K. Sam Shanmugam	John Wiley and sons	12
	Fundamentals of Digital Communication	Upamanyu Madhow	Cambridge University Press	1 (Reference Section)
	Fundamentals of Error Correcting Codes,	W.C. Huffman, Vera Pless	Cambridge University Press	1 (Reference Section)
	Coding Techniques	Graham Wade	Palgrave, New York	5
Discrete-Time Signal Processing ECC502	Digital Signal Processing	Proakis J., Manolakis D	4th Edition, Pearson Education.	52
	Digital Signal Processing", A Practical Approach	Emmanuel C. Ifeachor, Barrie W. Jervis	Pearson Education	6
	Digital Signal Processing	A Nagoor Kani	2nd Edition. Tata Mc	8

			Graw Hill Education Private Limited	
	Digital Signal Processing – A Computer Based Approach	Sanjit K. Mitra	4th Edition McGraw Hill Education (India) Private Limited, 2013	16
	Discrete Time Signal Processing	Oppenheim A., Schafer R., Buck J	, 2nd Edition, Pearson Education, 3rd Edition, 2010	1 (Reference Section)
	Theory and Applications of Digital Signal Processing	L. R. Rabiner and B. Gold	PrenticeHall of India, 2006.	12
	Digital Signal Processing	S Salivahan, C Gnanapriya	Mc Graw Hill Education (India) limited, 4 th Edition, 2015	46
	Digital Signal Processing", Schaum's Outline Series	Monson H Hayes,	2 nd Edition, 2011	5
	"Biomedical Signal Analysis- A Case Study Approach	Rangaraj M. Rangayyan	Wiley 2002	NIL
Digital VLSI ECC503	CMOS Digital Integrated Circuits Analysis and Design	Sung-Mo Kang and Yusuf Leblebici	Tata McGraw Hill, 3rd	22

			Edition, 2012.	
	Digital Integrated Circuits: A Design Perspective"	Jan M. Rabaey, Anantha Chandrakasan and Borivoje Nikolic	Pearson Education, 2nd Edition	18
	Digital Design with RTL design, VHDL and VERILOG	Frank Vahid	John Wiley and Sons Publisher 2011	7
	CMOS VLSI Design: A Circuits and Systems Perspective	Neil H. E. Weste, David Harris and Ayan Banerjee	Pearson Education, 3rd Edition	13
	Introduction to VLSI Circuits and Systems	John P. Uyemura	Wiley, Student Edition, 2013	30
	CMOS Circuit Design, Layout and Simulation	R. Jacob Baker	Wiley, 2nd Edition, 2013	8
Random Signal Analysis ECC504	Probability, Statistics and Random Process	T. Veerarajan	Tata McGraw Hill Education, Third Edition (2018)	25
	Probability, Random Variables, and Stochastic Processes	Athanasios Papoulis and S. Unnikrishna Pillai	Tata McGraw Hill Education	20

	Probability, Statistics, and Random Processes for Engineers,	Henry Stark & John Woods	4th Edition, Pearson Education, 2012	NIL
	Introduction to linear regression Analysis	Douglas C. Montgomery, Elizabeth A. Peck and G. Geoffrey Vining	student edition, Wiley publications	NIL
	Probability and Random Processes with Applications to Signal Processing and Communications	Scott Miller and Donald Childers	Elsevier Publication.	5
	Theory and Problems of Probability, Random Variables, and Random Processes", Schaum's Outline Series	Hwei Hsu	McGraw Hill, 1997	22
	Probability Theory and Random Process	P. Ramesh Babu	Tata McGraw Hill Education	NIL
	Probability and Random Processes for Electrical Engineering	Alberto Leon Garcia	second edition , Pearson education	2
	An Introduction to Statistical Learning by Gareth James	.Daniela Witten, Trevor Hastie , Robert Tibshirani,	7th Edition, Springer 2017.	NIL
	Probability and Statistics for Engineers and Scientists	Ronald Walpole, et. al	8th edition, Pearson Education.	NIL

	Probability, Statistics, and Random Processes	P. Kousalya	Pearson Education	NIL
Digital and IP TV Engineering ECCDLO 5011	Television and video Engineering	A. M. Dhake	Tata McGraw Hill Publication	16
	Video Demystified,	Kelth jack	Hand book for digital engineers, Newness, Elsevier	6
	.Digital Television Systems	Marcelo S. Alencar	Cambridge University Press	NIL
	Understanding IPTV	Gilbert Held	CRC Press	NIL
	The digital evolution of Television,	D. Gerbarg	Springer	NIL
	Applications and Usability of interactive TV	Maris Jos Abisolo	Springer	NIL
	IPTV Delivery network	Suliman Mohamed Fati, Saiful Azad, Al-Sakib Khan Pathan,	Wiley Publications	NIL
	Television Engineering & Video Systems	R. G. Gupta	McGraw Hill Publication	27
	Quantum dot based light emitting diodes	Morteza Sasani Ghamsari	Google book	NIL
Data Compression and Cryptography ECCDLO5012	Introduction to Data Compression|	Khalid Sayood	3rd Edition Morgan Kauffman	20
	The Data Compression Book	Mark Nelson, Jean-Loup Gailly	2nd edition, BPB	5

			Publications	
	Cryptography and Network Security Principles and Practices	William Stallings	5th Edition‖, Pearson Education	16
	|Cryptography and Network Security	Behrouz A. Forouzan	Tata McGraw-Hill.	35
	Data Compression: The Complete Reference	David Salomon	Springer	30
	Computer Security Art and Science‖,	Matt Bishop	Addison-Wesley	8
	Network Security and Cryptography	Bernard Menesez,	Delmar Cengage Learning, 7th Edition	25
IT Infra & Security ECCDLO5013	IT Infrastructure & Its Management	Gupta	First Edition, Tata McGraw-Hill Education	NIL
	Computer Security Principles and Practice	William Stallings	Sixth Edition, Pearson Education	2
	Computer Security,	Dieter Gollmann	Third Edition, Wiley Publications.	6
	Data Communications and Networking	Forouzan,	Fourth Edition, Mc Graw Hill Publication	75

	Wireless Networks	P. Nicopolitidis, M.S. Obaidat, G.I Papadimitriou, A.S Pomportsis,	Wiley Publications	13
	Security in Computing	Charles P. Pfleeger	Fifth Edition, Pearson Education	10
	CCNA Security Study Guide	Tim Boyle	Wiley Publications	NIL
	Introduction to Computer Security	Matt Bishop	Pearson	6 (3 in UG Section and 3 in PG Section)
Data Structure & Algorithm ECCDLO 5014	Introduction to Data Structure and its Applications	Jean Paul Tremblay, P. G. Sorenson	McGraw-Hill Higher Education	7
	Fundamentals of Computer Algorithms	Ellis Horowitz, Sartaj Sahani and Sanguthevar Rajasekaran,	Second Edition, Universities Press (India) Pvt. Ltd.	26
	Learning with Python	Allen Downey, Jeffrey Elkner, Chris Meyers	Dreamtech Press	NIL
	An introduction to data structures with applications	Jean Paul Tremblay, Paul G. Sorenson;	Tata McGrawHill; 1984	7

	Algorithms	Sanjoy Dasgupta, Christos Papadimitriou, Umesh Vazirani	Tata McGrawHill Edition.	8 (PG Section)
Sensor Technology ECCDLO 5015	Transducers and Instrumentation	D.V.S. Murthy	PHI Learning, 2nd Edition, 2013	1
	Sensor and Transducers	D. Patranabis	(2e) Prentice Hall, New Delhi, 2003	2 (older editions)
	Radio Engineering for Wireless Communication and Sensor Applications	Antti V. Raisanen, Arto Lehto	Artech House mobile communications series, USA, 2003	NIL
	Sensors and Signal Conditioning	Ramon Pallas Areny, John G. Webster	2nd edition, John Wiley and Sons, 2000.	NIL
	Wireless Communication and Networking	Vijay K. Garg	Morgan - Kaufmann Series in Networking, Elsevier, 2010.	41
	An Introduction to Microelectromechanical Systems Engineering,	Nadim Maluf, Kirt Williams,	Artech House, 2004	NIL

	Micro Electro Mechanical System Design	James J. Allen	Taylor and Francis, 2005	NIL
	A Course in Electrical and ElectronicMeasurements and Instrumentation	A.K. Sawhney	Dhanpatrai & Co., 19th Edition, 2011	21
	Sensors, Actuators and their Interfaces: A Multidisciplinary Introduction	Nathan Ida	Second Edition, IET Control, Robotics and Sensors Series 127, 2020	NIL
	Instrumentation Devices and System	C.S. Rangan, G.R. Sarma, V.S. Mani	TMH,1997	25
	Handbook of Modern Sensors Physics, Designs, and Applications	Jacob Fraden	Fourth Edition, Springer, 2010.	NIL
Business Communication & Ethics ECL504	Humanities for the engineering curriculum: With selected chapters from Olsen/Huckin: Technical writing and professional communication	Arms, V. M.	second edition. Boston, MA: McGraw-Hill. (2005)	NIL
	Business communication today. Upper Saddle River	Bovée, C. L., &Thill, J. V. (2021).	Upper Saddle River NJ: Pearson	NIL
	Verbal communication: Soft skills for a digital workplace	Butterfield, J. (2017).	Boston, MA: Cengage Learning.	NIL

	Personal development for life and work	Masters, L. A., Wallace, H. R., & Harwood, L. (2011).	Mason: South-Western Cengage Learning	16
	Introducing Personal development for life and work (not mentioned in syllabus)	Masters, L. A., Wallace, H. R., & Harwood, L. (2011).		13
	Organizational behaviour	Robbins, S. P., Judge, T. A., & Campbell, T. T. (2017).	Harlow, England: Pearson.	6 (older editions available)
	Technical Communication, Principles and Practice	Meenakshi Raman, Sangeeta Sharma (2004)	Oxford University Press	7
	Tests of Aptitude for Placement Readiness	Archana Ram (2018) Place Mentor,	Oxford University Press	NIL
	Communication Skills a workbook	Sanjay Kumar &PushpLata (2018).	New Delhi: Oxford University Press.	NIL
	Communication Skills (not mentioned in syllabus)	Sanjay Kumar &PushpLata (2011).		11
Mini Project 2A: Embedded System Project ECM501	Introduction to Embedded Systems	Shibu K.V	Mc Graw Hill, 2nd edition.	
	"Embedded System Design: A unified Hardware/Software Introduction	Frank Vahid, and Tony Givargis,	Wiley Publication	25

	Embedded Systems Architecture, Programming and design	Raj Kamal	Tata MCgraw-Hill Publication.	12
	Embedded Real Time Systems: Concepts, Design & Programming	Dr. K.V.K.K. Prasad	Dreamtech Publication	11
	Embedded real systems Programming	Iyer, Gupta	TMH	11
	Embedded systems software primer	David Simon	Pearson	13
	ARM_System_Developers_GuideDesigning_and_Optimizing_System_Software	Andrew Sloss Dominic Symes and Chris Wright	Elsevier and Morgan Kaufmann Publishers.	30
	Embedded C	Michel J Pont	Pearson	NIL