

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
	AN F312	AIRCRAFT PROPULSION	TO BE ANNOUNCED
2423	AN F314	INTRODUCTION TO FLIGHT	(i) John D. Anderson Introduction to Flight 6th Edition, McGraw Hill, (Special Indian edition) 2017
			(ii) T. H. G. Megson Aircraft structures for engineering students Elsevier India, 2005
	AN F315	AIRCRAFT STRUCTURES	1. Megson T.H.G., "Aircraft Structures for Engineering Students" ; Butterworth-Heinemann (Elsevier), 7 th Edition, UK, 2022.
			2. Sun C. T., Adnan A., "Mechanics of Aircraft Structures", 3 rd Edition, Wiley, NJ, USA, 2021.
1001	BIO F110	BIOLOGY LABORATORY	Same as Part iv: Biology Faculty MT-I Biology, Notes EDD, 2007 Lab Manual for Biology Laboratory Notes EDD, 2012
1002	BIO F111	GENERAL BIOLOGY	Simon, E.J. et. al. Campbell Essential Biology with Physiology (5th edition). Noida: Pearson India Education Services Pvt. Ltd., 2016
1423	BIO F215	BIOPHYSICS	J. A. Tuszynski and M. Kurzynski Introduction to Molecular Biophysics CRC Press (Indian Edition), Chennai
2264	BIO F217	LAB FOR WATER SANITATION & SOLID WASTE MANAGEMENT	TO BE ANNOUNCED
1424	BIO F241	ECOLOGY & ENVIRONMENTAL SCIENCE	Odum, Eugene P & G.W Barrett Fundamentals of Ecology Cengage Learning, 5th ed, 2006
1430	BIO F242	INTRODUCTION TO BIOINFORMATICS	LESK, ARTHUR M INTRO TO BIOINFORMATICS OUP, 3RD ED., 2009
1425	BIO F243	GENETICS	Tamarin, Robert H. Principles of Genetics TMH, 7th ed., 2002
1426	BIO F244	INSTRU METHODS OF ANAL	(i) Sivasankar et. al Instrumental Methods of Analysis CBS Oxford University Press, New Delhi, 1st 2012
			(ii) Mahesh et. al Lab Manual for PHA C391 IMA 2008
1651	BIO F266	STUDY PROJECT	No text book required
1431	BIO F341	DEVELOPMENTAL BIOLOGY	Wolpert, Lewis & Others Principles of Development OUP, 5rd ed, 2015

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1432	BIO F342	IMMUNOLOGY	Owen et al Kuby's Immunology 7th Ed. Freeman press. 2013
1650	BIO F366	LABORATORY PROJECT	No text book required
1736	BIO F367	LABORATORY PROJECT	No text book required
1685	BIO F376	DESIGN PROJECT	No text book required
1752	BIO F377	DESIGN PROJECT	No text book required
1438	BIO F451	BIOPROCESS TECHNOLOGY	Stanbury, Whitaker & Hall Principles of Fermentation Technology (1997) Aditya Books (P) Ltd
2009	BIO G523	ADV & APPLIED MICROBIO	Madigan MT, Martinko JM, Dunlop P.V, Clark D P Brock biology of Microorganisms Pearson 12th Ed
151	BIO G542	ADVANCED CELL AND MOLECULAR BIOLOGY	Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts and Peter Walter Molecular Biology of the Cell Garland Publishing Inc., New York and London, 2008
1887	BIO G570	RECENT DEVELOPMENTS IN BIOLOG	No text book required
956	BIO G643	PLANT BIOTECHNOLOGY	(i) Narayanaswamy S. Plant Cell and Tissue Culture Tata McGraw Hill Publishing Company Limited, 1994 (Tenth Reprint 2011)
			(ii) Adrian Slater Nigel W. Scott, and Mark R. Fowler Plant Biotechnology: The Genetic manipulation of plants (Second edition) Oxford University Press (Reprint 2010)
549	BITS C790T	INDEPENDENT STUDY	No text book required
596	BITS C791T	TEACHING PRACTICE I	No text book required
602	BITS C792T	TEACHING PRACTICE II	No text book required
520	BITS C797T	PHD SEMINAR	No text book required
553	BITS C799T	PHD THESIS	No text book required
2128	BITS E593	READING COURSE I	No text book required
2490	BITS E594	READING COURSE II	No text book required
2101	BITS E661	RESEARCH METHODOLOGY I	No text book required
857	BITS E793T	PRACTICE LECT SERIES I	No text book required
1003	BITS F110	ENGINEERING GRAPHICS	Kulkarni D M and Others Engineering Graphics with AutoCAD PHI,2009

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1004	BITS F111	THERMODYNAMICS	(i) Borgnakke Sonntag Fundamentals of Thermodynamics 10th Edition, Wiley India Adaptation
			(ii) Van Wylen & others Thermodynamics Tables, Figures and Charts Notes-EDD, 2007
1005	BITS F112	TECHNICAL REPORT WRITING	Hewings, M. and Thaine C Cambridge Academic English (Advanced) Student's Book First South Asian Edition. Cambridge University Press
1860	BITS F114	GENERAL MATHEMATICS II	(i) Weir, MD, Hass J, Giordano FR Thomas Calculus Pearson education 13th Ed, 2007
			(ii) Erwin Kreyszig Advanced Engineering Mathematics 10th Edition Wiley-India, 2015
1862	BITS F219	PROCESS ENGINEERING	(i) Lachman, L., Lieberman, H. A., Kanig, J. L. The Theory and Practice of Industrial Pharmacy Lea-F, 3rd ed., 1986
			(ii) Aulton M. E Pharmaceutics: The Design of Manufacture of Medicine, Dosage form Design Churchill Livingstone, 2nd Edition, 2002
1632	BITS F225	ENVIRONMENTAL STUDIES	Bharucha, E Textbook for Environmental Studies for Undergraduate Courses Second ed. Hyderabad: Universities Press. 2013
2517	BITS F232	FOUNDATIONS OF DATA STRUCTURE AND ALGORITHMS	TO BE ANNOUNCED
2606	BITS F235	DIGITAL FUNDAMENTALS	TO BE ANNOUNCED
2277	BITS F314	GAME THEORY AND ITS APPLICATION	(i) Osborne, M.J. An Introduction to Game Theory Oxford University Press, India 2004
			(ii) Gibbons, R Game Theory for Applied Economists Princeton 1992
786	BITS F315	INTRODUCTION TO COGNITIVE NEUROSCIENCE	No text book required
2336	BITS F327	ARTIFICIAL INTELLIGENCE FOR ROBOTICS	Russell, Stuart J., and Peter Norvig. Artificial intelligence: a modern approach. Malaysia Pearson Education Limited,, 2016.

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1512	BITS F385	INTRO TO GENDER STUDIES	Mary E. John Women's studies in India A Reader, New Delhi: Penguin Books India Pvt. Ltd 2008
1592	BITS F412	PRACTICE SCHOOL II	No text book required
1615	BITS F413	PRACTICE SCHOOL II	No text book required
1248	BITS F415	INTRODUCTION TO MEMS	Tai-Ran Hsu MEMS and Micro systems Design and Manufacture Tata McGraw Hill, 2002
1809	BITS F417	MICRO-FLUIDICS & ITS APP	Nam-Trung Nguyen and Steven T. Wereley 1. Fundamentals and applications of microfluidics Artech House, 2002
1770	BITS F418	INTRO TO BIOMEDICAL ENGG	TO BE ANNOUNCED
1593	BITS F421T	THESIS	No text book required
1616	BITS F422T	THESIS	No text book required
1617	BITS F423T	THESIS	No text book required
1619	BITS F424T	THESIS	No text book required
1794	BITS F428	ESSENTIALS OF STRATE MGT	(i) Adrian Haberberg& Alison Rieple Strategic Management Theory & Application Oxford
			(ii) Charles W L Hill / Gareth R Jones Strategic Management – An Integrated Approach
1811	BITS F441	ROBOTICS	Mittal R. K. & Nagrath I. J Robotics and Control TMH, 2003 (Reprint 2007 or later)
1812	BITS F442	REMOTE SENS & IMAGE PROC	Lillesand TM and Kiefer RW Remote Sensing and Image interpretation John Wiley & Sons, 7 th ed. 2015
1338	BITS F463	CRYPTOGRAPHY	William Stallings Cryptography and Network Security: Principles and Practice 7th Edition, Pearson Education, 2017
1339	BITS F464	MACHINE LEARNING	(i) Christopher M. Bishop Pattern Recognition AND Machine Learning Springer publishers
			(ii) Tom M. Mitchell Machine Learning The McGraw-Hill Companies, Inc
547	BITS G513	STUDY IN ADVANCED TOPICS	No text book required

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
2636	BITS G527	DATA SCIENCES II	(i) Arjun, Panesar Machine Learning and AI for Healthcare: Big Data for Improved Health Outcomes Apress: London, UK (2019)
			(ii) Aggarwal Charu C. Data mining: the textbook Springer, 2015
754	BITS G529	RESEARCH PROJECT I	No text book required
755	BITS G539	RESEARCH PROJECT II	No text book required
2003	BITS G540	RESEARCH PRACTICE	No text book required
2165	BITS G563T	DISSERTATION	No text book required
756	BITS G629T	DISSERTATION	No text book required
809	BITS G639	PRACTICE SCHOOL	No text book required
757	BITS G649	READING COURSE	No text book required
2167	BITS G661	RESEARCH METHODOLOGY I	C.George Thomas Research Methodology and Scientific Writing Ane Books Pvt. Ltd., 2015
1191	CE F241	ANALYSIS OF STRUCTURES	Hibbeler, R C Structural Analysis Pearson Education; Ninth edition (27 October 2017)
1192	CE F242	CONSTRUCTION PLANNING & TECH	Punmia, B C, Ashok K Jain and Arun K Jain Building Construction Eleventh Edition, Laxmi Publications Ltd, New Delhi, 2016
1193	CE F243	SOIL MECHANICS	Gopal Ranjan and A. S. R. Rao Basic and Applied Soil Mechanics New Age International Publishers, 3rd Edition, 2016
1194	CE F244	HIGHWAY ENGINEERING	(i) Khanna, S.K, Justo, A and Veeraragavan, A Highway Engineering Nem Chand & Bros. Revised Tenth Edition, 2014
			(ii) Khanna, S.K, Justo, A and Veeraragavan, A Highway Materials and Pavement Testing Nem Chand & Bros., Fifth Edition, 2009 (For Lab Portion)
1652	CE F266	STUDY PROJECT	No text book required
2282	CE F321	ENGINEERING HYDROLOGY	(i) Subramanya K Engineering Hydrology Tata McGraw hill, New Delhi. 2013.
			(ii) Modi, P.N. Irrigation Water Resources and Water Power Engineering Standard Book House, New Delhi, 2012

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1199	CE F342	WATER & WASTEWATER TREAT	(i) Garg, S. K. (2020). Environmental Engineering - (Vol. I): Water Supply Engineering (34th ed., Vol. 1) Khanna
			(ii) Garg, K. S. (2021). Environmental Engineering (Vol. II) Sewage Waste Disposal and Air Pollution Engineering (39th ed., Vol. 2). Khanna.
1200	CE F343	DESIGN OF STEEL STRUCTURES	(i) N. Subramanian Steel Structures Design and Practice Oxford University Press. 2010
			(ii) IS-800:2007 Code of practice for General construction in steel Bureau of Indian Standards, New Delhi
		DESIGN OF STEEL STRUCTURES	(iii) R. Agor Steel Tables Birla. Publications, 2017
1667	CE F366	LABORATORY PROJECT	No text book required
1737	CE F367	LABORATORY PROJECT	No text book required
1686	CE F376	DESIGN PROJECT	No text book required
1753	CE F377	DESIGN PROJECT	No text book required
1214	CE F411	OPER RESEARCH FOR ENGIN	HA Taha Operations Research: An Introduction Pearson Education/PHI, 9/E, 2014.
1223	CE F415	DES OF PREST CONC STRUCT	Krishna Raju, N Prestressed Concrete 6th Edition, Tata McGraw-Hill Publishing Company Ltd., 2018
1230	CE F416	COMP APPL IN CIVIL ENGG	Amin Ghali, Adam Neville, and Tom G. Brown Structural Analysis: A Unified Classical and Matrix Approach 2009, 6th Ed., CRC Press.
1236	CE F423	GREEN BUILD & ENER CONSE	(i) Krishnan, A., Baker, N., Yannas, S., & Szokolay, S Climate responsive architecture, a design handbook for energy efficient buildings New Delhi: Tata McGraw-Hill Publishing Company
			(ii) TERI & ICAEN Sustainable building design manual (Vol. II). New Delhi: The Energy and Resources Institute(TERI)Press

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1218	CE F425	AIRPORT RAIL & WATERWAYS	(i) Subhash C. Saxena Airport Engineering, Planning and Design CBS Publishers and Distributors New Delhi. (Reprint 2015)
			(ii) R. Srinivasan Harbour, Dock and Tunnel Engineering 29th Edition, Charotar Publishing House Pvt. Ltd. 2018
			(iii) Saxena SC and Arora S C A Text Book of Railway Engineering Paperback Dhanpat Rai Publications (Reprint 2015)
230	CE G514	STRUCTURAL OPTIMIZATION	Rao, S S Engineering Optimization, Theory and Practice New Age International Publishers, Fourth Edition, 2013.
256	CE G518	PAVEMENT ANALYSIS & DES	(i) Yang H Huang (2010) Pavement Analysis and Design Pearson, Prentice Hall, NJ, USA 2nd Edition
			(ii) AASHTO Mechanistic Empirical Pavement Design Guide – A Manual of Practice USA, 2nd Edition
2338	CE G566	PUBLIC TRANSPORTATION	(i) Vuchic Vukan R Urban Transit: Operations, Planning and Economics John Wiley & Sons, Inc.; 2005
			(ii) Vukan R. Vuchic Urban Transit Systems and Technology John Wiley & Sons, Inc. 2007 Edition
2342	CE G570	HIGHWAY CONSTRUCTION TECHNOLOG	(i) Kandhal Text book on Bituminous Road Construction in India PHI, Revised Edition (2019).
			(ii) MoRTH Book of specifications for Roads and Bridge works IRC, Latest Revision, 2013, New Delh
2347	CE G575	FREIGHT TRANSPORTATION	(i) Tavasszy, L., and DeJong, G Modeling Freight Transport Elsevier 1st Edition 2014
			(ii) Sunil Chopra, Peter Meindl and D V Kalra Supply Chain Management: Strategy, planning and Operation Pearson Education, Sixth Edition, India, 201
688	CE G613	ADV CONCRETE STRUCTURES	Varghese P C Adv. Reinforced Concrete Design PHI, 2nd ed 2005

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
108	CE G615	EARTHQUAKE ENGINEERING	(i) Agarwal P and Shrikhande M Earthquake resistant design of Structures PHI ,2006
			(ii) S K Duggal Earthquake resistant design of Structures OUP 2007
346	CE G616	BRIDGE ENGINEERING	Johnson D Victor Essentials of Bridge Engineering 6th Edition, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi 2010
1180	CHE F241	HEAT TRANSFER	(i) Holman J.P. Heat Transfer TMH, 10th ed. , 2011
			(ii) McCabe, W.L., J.C. Smith, and P. Harriott Unit Operations of Chemical Engineering (7th Ed.), McGraw Hill, 2005
1181	CHE F242	NUM METHOD FOR CHEM ENGG	Steven C. Chapra, Raymond P. Canale "Numerical Methods for Engineers" Tata McGraw-Hill 6th Edition 2012
1182	CHE F243	MATERIAL SCIENCE & ENGINEERING	William D Callister Material Science and Engineering - An Introduction JR. Ninth Edition, John Wiley (2013)
1183	CHE F244	SEPARATION PROCESSES I	(i) Robert E. Treybal Mass Transfer Operations Third Edition, McGraw Hill
			(ii) J. D.Seader and Ernest J. Henley Separation Process principles Second Edition, Wiley.
1653	CHE F266	STUDY PROJECT	No text book required
2615	CHE F315	MACHINE LEARNING FOR CHE ENG	TO BE ANNOUNCED
1188	CHE F341	CHEMICAL ENGG LAB II	No text book required
1189	CHE F342	PROCESS DYN & CONTROL	(i) Seborg, Dale E and others Process Dynamics and Control WSE, 2nd ed, 2004
			(ii) Coughanowr, D.R. and Steven E LeBlanc Process Systems Analysis and Control, 3rd Ed McGraw-Hill, 2009.
1190	CHE F343	PROCESS DES PRINCIPLE II	1. Seider W.D., Seader J.D. & Lewin D.R Product and Process Design principles: Synthesis, Analysis and Evaluation John Wiley & Sons, Inc., 2nd edition

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1668	CHE F366	LABORATORY PROJECT	No text book required
1738	CHE F367	LABORATORY PROJECT	No text book required
1687	CHE F376	DESIGN PROJECT	No text book required
1754	CHE F377	DESIGN PROJECT	No text book required
1206	CHE F411	ENVIR POLLUTION CONTROL	(i) Davis, M.L. and D.A. Cornwell Introduction to Environmental Engg. TMH, 4th ed., 2010
			(ii) Rao, C S Environmental Pollution Control Engineering New Age International 2nd Ed., 2006
1202	CHE F433	CORROSION ENGINEERING	Fontana, Marselio G Corrosion Engineering TMH, 3rd ed., 1986
2146	CHE G552	ADV TRANSPORT PHENOMENA	(i) Bird, Stewart and Lightfoot Transport Phenomena John Wiley & Sons, 2002, 2nd edition
			(ii) Joel Plawsky Transport Phenomena Fundamentals CRC Press, 2010, 2nd edition
			(iii) Fox and McDonald Fluid Mechanics
2150	CHE G556	ELECTROCHEMICAL ENGINEERING	(i) A.J. Bard and L. R. Faulker Electrochemical methods, Fundamentals and applications John Wiley and Sons
			(ii) J.O.M Bockris and A. K. N. Reddy Modern Electrochemistry Plenum Press
729	CHE G641	REACTION ENGINEERING	(i) Levenspiel, Octave Chemical Reaction Engineering Wiley India Pvt. Ltd., New Delhi, 3rd Edition, 2000 (or higher edition if available!)
			(ii) Fogler, H. Scott Elements of Chemical Reaction Engineering Pearson Edu, 4th ed, 2006 (or higher edition if available!)
1006	CHEM F110	CHEMISTRY LABORATORY	Lab Manual for Chemistry Laboratory
1007	CHEM F111	GENERAL CHEMISTRY	(i) Solomons's Organic Chemistry Global Edition

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
		GENERAL CHEMISTRY	(ii) J. D. Lee, Concise Inorganic Chemistry 5th Edition, Blackwell Science, Oxford, 1999
1569	CHEM F223	COLLOID & SURFACE CHEM	(i) Drew Myers Surfaces, Interfaces, and Colloids: Principles and Applications Wiley, Second Edition, 1999
			(ii) Pallab Ghosh Colloid and Interface Science 2009
			(iii) I. N. Levine Physical Chemistry 5th Edition, Tata McGraw-Hill, 2011
1554	CHEM F241	INORGANIC CHEMISTRY II	Huheey, J. E.; Keiter, E. A.; Keiter, R. L.; Medhi O. K Inorganic Chemistry 4th Edition, Pearson
1555	CHEM F242	CHEMICAL EXPER I	NO TEXT BOOK REQUIRED
1556	CHEM F243	ORGANIC CHEMISTRY II	(i) E. I. Eliel, S. H. Wilen, L.N. Mander John Wiley & Sons Stereochemistry of Organic Compounds 1st Ed., 2004. (T1)
			(ii) Michael B Smith & Jerry March Advanced Organic Chemistry John Wiley & Sons, 6th ed., 2012
1557	CHEM F244	PHYSICAL CHEMISTRY III	Levine, Ira N Quantum Chemistry PHI, 6th Edition, 2009
1654	CHEM F266	STUDY PROJECT	No text book required
1580	CHEM F329	ANALYTICAL CHEMISTRY	GARY. D. CHRISTIAN Analytical Chemistry 6th ed. Wiley 2003
1561	CHEM F341	CHEMICAL EXPER II	No text book required
1562	CHEM F342	ORGANIC CHEMISTRY IV	(i) Raj K Bansal, Heterocyclic Chemistry 5th Ed., New Age International publishers, 2010. (TB1)
		ORGANIC CHEMISTRY IV	(ii) I L Finar Organic Chemistry Vol-2, 5th Ed., Pearson Education, 2009.
1563	CHEM F343	INORGANIC CHEMISTRY III	(i) E. Ochiai Bioinorganic Chemistry: A Survey Academic Press, 2008.
			(ii) Donald R. Askeland, Pradeep P. Phule The Science and Engineering of Materials Fourth Edition, Thomson, 2003
1669	CHEM F366	LABORATORY PROJECT	No text book required

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1739	CHEM F367	LABORATORY PROJECT	No text book required
1688	CHEM F376	DESIGN PROJECT	No text book required
1755	CHEM F377	DESIGN PROJECT	No text book required
1573	CHEM F412	PHOTOCHEM & LASER SPECTR	(i) K. K. Rohatgi-Mukherjee Fundamentals of Photochemistry John Wiley & Sons
			(ii) J. R. Lakowicz Principles of Fluorescence Spectroscopy Springer; 3rd edition
			(iii) W. T. Silvest Laser Fundamentals Cambridge University Press; 2nd edition
1578	CHEM F414	BIO & CHEMICAL SENSORS	(i) Brian R. Eggins Chemical Sensors and Biosensors 2007, John Wiley & Sons Ltd.
			(ii) Jiri Janta Principles of Chemical Sensors 2009, 2nd Ed., Springer
736	CHEM G551	ADV ORGANIC CHEMISTRY	TO BE ANNOUNCED
7	CHEM G552	ADVANCED INORGANIC CHEMISTRY	TO BE ANNOUNCED
1008	CS F111	COMPUTER PROGRAMMING	Hanley and Koffman Problem solving and program design in C Pearson, 2014
1094	CS F211	DATA STRUCTURES & ALGO	TH Cormen, CE Leiserson, RL Rivest, C Stein Introduction to Algorithms 3rd Ed., MIT Press, PHI, 2010
1095	CS F212	DATA BASE SYSTEMS	Elmars R, & Navathe S B, Fundamental of Database System 7e, Pearson, 2016.
1092	CS F213	OBJECT ORIENTED PROG	(i) Matt Weisfeld The object-oriented thought process Third Edition, Addison-Wesley, 2013.
			(ii) Herbert Schildt The Complete Reference- Java 12th Edition (McGraw Hill; Standard Edition)
1313	CS F241	MICROPROC & INTERFACING	Lyla B Das The x86 Microprocessors: 8086 to Pentium, Multicores, Atom and the 8051 Microcontroller Architecture, Programming and Interfacing, Second Edition
1655	CS F266	STUDY PROJECT	No text book required

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1320	CS F303	COMPUTER NETWORKS	James F. Kurose and Keith W. Ross Computer Networking: A Top-Down Approach Sixth Edition, 2013, Pearson.
1317	CS F342	COMPUTER ARCHITECTURE	Patterson, D.A. & J.L. Hennessy Computer Organization and Design Elsevier, 5th ed., 2013
1318	CS F363	COMPILER CONSTRUCTION	Aho, Sethi and Ullman. Compilers Principles, Techniques, and Tools Pearson Education. Low Price Edition. Second Edition
1319	CS F364	DESIGN & ANAL OF ALGO	Cormen, Thomas H & Others Intro. to Algorithms PHI, 3rd ed., 2012
1670	CS F366	LABORATORY PROJECT	No text book required
1740	CS F367	LABORATORY PROJECT	No text book required
1315	CS F372	OPERATING SYSTEMS	Silberschatz, Galvin, and Gagne Operating System concepts 9th edition, John Wiley & Sons, 2012
1689	CS F376	DESIGN PROJECT	No text book required
1756	CS F377	DESIGN PROJECT	No text book required
1333	CS F407	ARTIFICIAL INTELLIGENCE	Russell Stuart J & Peter Norvig Artificial Intelligence : A Modern Approach PHI/Pearson Edu., 3 rd Ed, 2009
1322	CS F415	DATA MINING	Tan, Pang-Ning & Others Introduction to Data Mining Pearson Education, 2006
2629	CS F437	GENERATIVE ARTIFICIAL INTELLIGEN	TO BE ANNOUNCED
1857	CS F469	INFORMATION RETRIEVAL	C. D. Manning, P. Raghavan and H. Schutze Introduction to Information Retrieval Cambridge University Press, 2008
507	CS G513	NETWORK SECURITY	William Stallings Cryptography and Network Security: Principles and Practice 7th Edition, Pearson, 2017
2449	CS G516	ADVANCED DATABASE SYSTEMS	(i) Raghu Ramakrishnan and Johannes Gehrke Database Management System 3rd Ed, McGraw-Hill, 2002
			(ii) Silberschatz A, Korth H F, and Sudarshan S Database System Concepts TMH, 7th Edition, 2020

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2052	CS G523	SOFTWARE FOR EMBEDDED SYS	(i) Bruce Powel Douglass Real – Time UML: Advances in the UML for Real – Time Systems 3rd Edition, 2004
			(ii) Dive into Python https://www.python.org/
			(iii) Brian Gerkey, Morgan L. Quigley, and William D. Smart Programming Robots with ROS: A Practical Introduction to the Robot Operating System https://www.ros.org/
2006	CS G524	ADV COMPUTER ARCHITECTURE	J.L Hennessy & D.A.Patterson Morgan Kaufmann Computer Architecture: A Quantitative Approach 6th Edition, 2017
436	DE G514	FRACTURE MECHANICS	Prashant Kumar Elements of Fracture Mechanics Tata McGraw-Hill Publishing Company Ltd., New Delhi, 2009.
1384	ECE F241	MICROPROC & INTERFACING	Lyla B Das The x86 Microprocessors: 8086 to Pentium, Multicores, Atom and the 8051 Microcontroller Architecture, Programming and Interfacing, Second Edition
1385	ECE F242	CONTROL SYSTEMS	Nagrath I.J. and M. Gopal Control Systems Engineering NAIL , 5th ed. , 2007
1386	ECE F243	SIGNALS & SYSTEMS	Lathi, B P Principles of Signal Processing and Linear OUP, 2nd ed., 2009
1387	ECE F244	MICROELECTRONIC CIRCUITS	A. S. Sedra & K. C. Smith Microelectronic Ciruits Oxford University Press, 7th ed.
1701	ECE F266	STUDY PROJECT	No text book required
1894	ECE F312	EM FIELDS LAB MICRO ENGG LAB	No text book required
1391	ECE F341	ANALOG ELECTRONICS	(i) Maheshwari L K Analog Electronics PHI, 2005
			(ii) Maheshwari L K & M M S Anand Lab Experiments&PSPICE Simu in Analog Electronics Experiments PHI, 2005
1595	ECE F343	COMMUNICATION NETWORKS	Behrouz A. Forouzan Data communications and networking TMH; 5th Edition; 2013

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1390	ECE F344	INFO THEORY & CODING	Ranjan Bose Information Theory, Coding and Cryptography Tata McGrawHill, 2016 3rd Ed
1702	ECE F366	LABORATORY PROJECT	No text book required
1705	ECE F367	LABORATORY PROJECT	No text book required
1703	ECE F376	DESIGN PROJECT	No text book required
1706	ECE F377	DESIGN PROJECT	No text book required
1023	ECON F211	PRINCIPLES OF ECONOMICS	Karl E. Case, Ray C. Fair & Sharon M. Oster Principle of Economics Pearson Education, 12th ed, 2017
1120	ECON F212	FUNDA OF FIN AND ACCOUNT	(i) R. Narayanaswamy .Financial Accounting – A Managerial Perspective PHI, 5th edition, 2014
			(ii) Robert Anthony, David Hawkins, Kenneth Merchant Accounting Text & Cases 13th edition, 2013 (For select cases & Management Accounting)
			(iii) Bhole, L.M.and Jitendra Mahakud Financial Institutions & Markets: Structure Growth and Innovations” Tata McGraw Hill, 5th edition, 2009
2534	ECON F215	COMPUTATIONAL METHODS FOR EC	TO BE ANNOUNCED
1442	ECON F241	ECONOMETRIC METHODS	Christopher Dougherty Introduction to Econometrics 5th Edition, Oxford University Press 2016
1443	ECON F242	MICROECONOMICS	(i) Varian, Hal R Microeconomic Analysis Viva-Norton Student 3rd Edition, 2009
			(ii) Varian, Hal, R Intermediate Microeconomics 8th Edition, Affiliated East-West Press and W.W. Norton, 2010
1444	ECON F243	MACROECONOMICS	Froyen, Richard T Macroeconomics:Theories & Policies A. W. Inc. ed; 10th ed. 1999
1445	ECON F244	ECONOMIC OF GROWTH & DEV	Devraj Ray Development Economics OUP, Delhi 2010, Reprint
1656	ECON F266	STUDY PROJECT	No text book required
1773	ECON F314	INDUSTRIAL ECONOMICS	J. Church and R. Ware Industrial Organization: A Strategic Approach First edition, McGraw-Hill, 2000

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1923	ECON F315	FINANCIAL MANAGEMENT	Richard A Brealey, Stewart C Myers, Franklin Allen and Pitabas Mohanty Principles of Corporate Finance Tata McGraw-Hill Publishing Company Ltd, 2012
1449	ECON F341	PUBLIC FIN THEO & POLICY	Musgrave, Richard A & P B Musgrave Public Finance in Theory and Practice McGraw-Hill Book Company, New York (2007)
1450	ECON F342	APPLIED ECONOMETRICS	J Wooldridge Introductory Econometrics- A Modern Approach 4th Edition (ISBNNo. 9788131516737), South Western Cengage Learning, 2012
1451	ECON F343	ECONOMIC ANAL OF PUB POL	Bellinger, William K Economic Analysis of Public Policy Routledge, London and New York, 2007
2184	ECON F345	BEHAVIORAL ECONOMICS	Dhami, Sanjit The Foundations of Behavioural Economic Analysis: Volume I: Behavioural Economics of Risk, Uncertainty, and Ambiguity Oxford University Press, 2019.
1565	ECON F354	DERIVATIVES & RISK MGMT	John C. Hull & Basu Sankarshan Options, Futures and Other Derivatives 8th Edition, Pearson Education
1547	ECON F355	BUSS ANAL & VALUATION	(i) Palepu, Healy & Bernard Business Analysis & Valuation - Using Financial Statements Text & Cases Cengage Learning Publisher, 3rd Edition
			(ii) Damodaran A Damodaran on Valuation Wiley India Pvt. Ltd. 2nd Edition
1684	ECON F366	LABORATORY PROJECT	No text book required
1741	ECON F367	LABORATORY PROJECT	No text book required
1690	ECON F376	DESIGN PROJECT	No text book required
1757	ECON F377	DESIGN PROJECT	No text book required
1566	ECON F412	SECUR ANAL & PORTFOL MGT	(i) Reilly, Frank K & Keith C.Brown Analysis of Investments & Management of Portfolios Cengage-L, 10th ed., 2012
			(ii) Zvi Bodie, Alex Kane, Alan Marcus, Pitabas Mohanty Investments 2010, McGraw Hill

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1590	ECON F416	REGIONAL ECONOMICS	Jan K. Brueckner Lectures on Urban Economics Cambridge, MA: MIT Press (Low price Indian edition (PHE) is available) Chapter 1,2,3,5,11 (2011)
2536	ECON F420	APPLIED MACROECONOMETRICS	TO BE ANNOUNCED
1874	ECON F434	INTERNATIONAL BUSINESS	John D. Daniels & Lee H. Radebaugh International Business, Environment & Operations Pearson Education, 2018, 16th edition.
1875	ECON F435	MARKETING RESEARCH	MALHOTRA NARESH K Marketing Research: An applied orientation Pearson Education, 2013, 6th Edition.
1009	EEE F111	ELECTRICAL SCIENCES	Leonard S. Bobrow Fundamentals of Electrical Engineering Adapted by Naveen Gupta, Asian Edition, OUP
1238	EEE F241	MICROPROC & INTERFACING	Lyla B Das The x86 Microprocessors: 8086 to Pentium, Multicores, Atom and the 8051 Microcontroller Architecture, Programming and Interfacing, Second Edition
1239	EEE F242	CONTROL SYSTEMS	Nagrath I.J. and M. Gopal Control Systems Engineering NAIL , 5th ed. , 2007
1240	EEE F243	SIGNALS & SYSTEMS	Lathi, B P Principles of Signal Processing and Linear OUP, 2nd ed., 2009
1241	EEE F244	MICROELECTRONIC CIRCUITS	A. S. Sedra & K. C. Smith Microelectronic Ciruits Oxford University Press, 7th ed.
1889	EEE F245	CONTROL SYSTEMS LABORATORY	(i) Nagrath I. J. and M. Gopal Control Systems Engineering New Age International (P) Limited, 5th ed, 2007
			(ii) LabVIEW manuals Quanser-QUBE-Servo manuals TO BE ANNOUNCED
	EEE F246	ELECTRICAL & ELECTRONIC CIRCUITS LABORATORY	No text book required
1657	EEE F266	STUDY PROJECT	No text book required
1244	EEE F312	POWER SYSTEMS	Nagrath I.J. and D.P.Kothari Power System Engg. TMH, 2nd ed,2008
1245	EEE F341	ANALOG ELECTRONICS	(i) Maheshwari L K Analog Electronics PHI, 2005

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
			(ii) Maheshwari L K & M M S Anand Lab Experiments&PSPICE Simu in Analog Electronics Experiments PHI, 2005
1246	EEE F342	POWER ELECTRONICS	(i) N. Mohan, T. M. Undeland, and W. P. Robbins Power Electronics: Converters, Applications, and Design John Wiley & Sons Inc. 2008, third edition
			(ii) M.H.Rashid Power Electronics Devices, Circuits and Applications Prentice-Hall, Inc., Pearson education, 2004, third edition
1902	EEE F348	FPGA BASED SYSTEM DESIGN LAB	(i) Wolf Wayne FPGA Based System Design Pearson Edu, 2004.
			(ii) Samir Palnitkar. Verilog HDL: A Guide to Digital Design and Synthesis Book
			(iii) Pong P. Chu., FPGA prototyping by Verilog examples Wiley, 2008
1731	EEE F366	LABORATORY PROJECT	No text book required
1742	EEE F367	LABORATORY PROJECT	No text book required
1691	EEE F376	DESIGN PROJECT	No text book required
1758	EEE F377	DESIGN PROJECT	No text book required
1259	EEE F426	FIBRE OPTICS & OPTOELECT	Khare, R.P Fiber Optics and Optoelectronics Oxford University Press (2004)
2497	EEE F428	ENERGY STORAGE SYSTEMS	TO BE ANNOUNCED
1257	EEE F435	DIGITAL IMAGE PROCESSING	Gonzalez & Woods Digital Image Processing 3rd Edition , Pearson 2009
1855	EEE F474	ANTENNA THEORY AND DESIGN	C.A. Balanis, Antenna Theory, Analysis and Design 3rd ed., John Wiley and Sons 2005
1895	EEE F477	MODELING OF FIELD-EFFECT NANO DEVICES	Mark Lundstrom Fundamentals of Nano Transistors Word Scientific, 1st ed., 2008.
1901	EEE F478	POWER SYSTEMS LAB	Nagrath I.J. and D.P.Kothari Power System Engineering TMH, 1994
96	EEE G592	MOBILE & PERSONAL COMMUNICATI	Theodore S. Rappaport Wireless Communications Principles and Practice Second Edition, Pearson, 2010

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
80	EEE G622	ADVANCED DIGITAL COMMUNICATIO	(i) John G. Proakis Digital Communications ,4th edition, McGraw Hill, 2001
			(ii) David Tse and Pramod Viswanath Fundamentals of Wireless Communications
			(iii) H. Nguyen and Ed Shwedyk A First Course in Digital Communications CUP, 2009
1539	FIN F311	DERIVATIVES & RISK MGMT	John C. Hull & Basu Sankarshan Options, Futures and Other Derivatives 8th Edition, Pearson Education
1545	FIN F313	SECUR ANAL & PORTFOL MGT	(i) Reilly, Frank K & Keith C.Brown Analysis of Investments & Management of Portfolios Cengage-L, 10th ed., 2012
			(ii) Zvi Bodie, Alex Kane, Alan Marcus, Pitabas Mohanty Investments 2010, McGraw Hill
1542	FIN F315	FINANCIAL MANAGEMENT	Richard A Brealey, Stewart C Myers, Franklin Allen and Pitabas Mohanty Principles of Corporate Finance Tata McGraw-Hill Publishing Company Ltd, 2012
1942	FIN F414	FINANCIAL RISK ANALYTICS AND MANAGEMENT	John C. Hull Risk Management & Financial Institutions 4th Edition, Wiley
1135	GS F223	INTRO TO MASS COMM	Stanley J.Baran Introduction to Mass Communication: Media Literacy and Culture Macmillan 5th Edition, 2017
1171	GS F233	PUBLIC POLICY	(i) McGraw-Hill Education (UK) Colebatch, H. (2009) Policy (third edition)
			(ii) Mathur, K. (2013) Public policy and politics in India: How institutions matter . OUP Catalogue.
1165	GS F245	EFFECTIVE PUBLIC SPEAK	Rice, T. A. (Editor & Reviewer, 2017) Fundamentals of Public Speaking (Version 5.2.4) College of the Canyons.
1137	GS F322	CRITI ANAL OF LIT & CINE	(i) Pramod K.Nayar Studying Literature: An Introduction to Fiction and Poetry Orient Blackswan.2013
			(ii) Jarek Kupsc The History of Cinema for Beginners Orient Blackswan.2010.

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
			(iii) Geeta. B Introduction to Film Analysis (EDD notes)
1177	GS F333	PUBLIC ADMINISTRATION	Bidyut Chakrabarty and Prakash Chand Indian Administration: Evolution and Practice New Delhi: Sage Publications India, 2016
	GS F342	COMPUTER MEDIATED COMM	TO BE ANNOUNCED
2565	GS F345	CONSTITUTION OF INDIA	TO BE ANNOUNCED
1603	HSS F222	LINGUISTICS	Yule, G. The Study of Language Cambridge: CUP. 2010 (4nd Edn.)
1627	HSS F235	INTRODUCTORY PHILOSOPHY	Hales, Steven D This Is Philosophy: An Introduction Malden MA: Wiley-Blackwell 2013
1903	HSS F237	CONTEMPORARY INDIAN ENGLISH FICTION	Mukherjee, Meenakshi The Perishable Empire: Essays on Indian Writing in English OUP, 2000
2426	HSS F248	INTRODUCTION TO DISABILITY STUDIES	Ghai, Anita Disability in South Asia: Knowledge and Experience. Sage, 2018
1643	HSS F316	POP LITER & CULT OF S ASIA	Betts, Raymond & Lyz Bly F A History of Popular Culture New York:Routledge, 2013 (2nd edition)
1645	HSS F317	INTRO TO GLOBALIZATION	Steger, Manfred B. Globalization A Very Short Introduction Oxford: Oxford University Press 2020
1943	HSS F322	SOCIAL AND POLITICAL ECOLOGY	Paul Robbins Political Ecology: A Critical Introduction Oxford: Wiley-Blackwell 2012
1599	HSS F334	SRIMAD BHAGAVAD GITA	Trans. S. Radhakrishnan. The Bhagavad Gita. Harper Collins Publishers, 2014. ISBN : 978-81-7223-898-8
	HSS F336	MODERN FICTION	TO BE ANNOUNCED
1606	HSS F337	ENGLISH LITERARY FORMS AND MOVEMENTS	(i) Long, William J English Literature: Its History and its Significance Kolkata: Books Way, 2009.
			(ii) Abrams, M. H., and Geoffrey Galt Harpham A Glossary of Literary Terms Tenth Edition. 2012. USA: Wadsworth

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1607	HSS F338	COMPARATIVE INDIAN LIT	Ben Hutchinson Comparative Literature OUP, 2018
1832	HSS F340	POST COLONIAL LITERATURE	(i) McLeod, John Beginning Postcolonialism 2nd ed., Manchester UP, 2010
			(ii) Ashcroft, Bill, et al., editors Post-Colonial Studies: The Key Concepts 2nd ed., Routledge, 2007
2270	HSS F363	DISASTER AND DEVELOPMENT	TO BE ANNOUNCED
2290	HSS F369	CASTE AND GENDER IN INDIA	Uma Chakravathy Gendering Caste: Through a Feminist Lens Stree, 2018
2566	HSS F378	CINEMAS OF INDIA: FROM PAST TO PRESENT	(i) Vasudevan, Ravi Making Meaning in Indian Cinema Oxford University Press ed. (2000)
			(ii) Duggal, Menon & Bhattacharya Film Studies: An Introduction, Worldview 2022
2567	HSS F379	INTRODUCTION TO PHILOSOPHY OF SCIENCE	No text book required
2632	HSS F382	HOUSING: PROGRAMS, POLICIES AN PRACTICES	TO BE ANNOUNCED
1341	INSTR F241	MICROPROC & INTERFACING	Lyla B Das The x86 Microprocessors: 8086 to Pentium, Multicores, Atom and the 8051 Microcontroller Architecture, Programming and Interfacing, Second Edition
1342	INSTR F242	CONTROL SYSTEMS	Nagrath I.J. and M. Gopal Control Systems Engineering NAIL , 5th ed. , 2007
1343	INSTR F243	SIGNALS & SYSTEMS	Lathi, B P Principles of Signal Processing and Linear OUP, 2nd ed., 2009
1344	INSTR F244	MICROELECTRONIC CIRCUITS	A. S. Sedra & K. C. Smith Microelectronic Ciruits Oxford University Press, 7th ed.
1660	INSTR F266	STUDY PROJECT	No text book required
1348	INSTR F341	ANALOG ELECTRONICS	(i) Maheshwari L K Analog Electronics PHI, 2005
			(ii) Maheshwari L K & M M S Anand Lab Experiments&PSPICE Simu in Analog Electronics Experiments PHI, 2005

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1349	INSTR F342	POWER ELECTRONICS	(i) N. Mohan, T. M. Undeland, and W. P. Robbins Power Electronics: Converters, Applications, and Design John Wiley & Sons Inc. 2008, third edition
		POWER ELECTRONICS	(ii) M.H.Rashid Power Electronics Devices, Circuits and Applications Prentice-Hall, Inc., Pearson education, 2004, third edition
1350	INSTR F343	INDUS INSTRUMENT & CONT	Surekha Bhanot, Process Control: Principles and Applications, Oxford University press, Fourth Impression 2010
1734	INSTR F366	LABORATORY PROJECT	No text book required
1745	INSTR F367	LABORATORY PROJECT	No text book required
1694	INSTR F376	DESIGN PROJECT	No text book required
1761	INSTR F377	DESIGN PROJECT	No text book required
1529	IS F341	SOFTWARE ENGINEERING	Ian Sommerville Software Engineering Pearson Education, 2017
1011	MATH F112	MATHEMATICS II	(i) Churchill, R V and James W, Complex Variables and Applications 8th Edition, 2008, McGraw-Hill
			(ii) Gareth Williams Linear Algebra with Applications 9th Edition, 2018, Jones & Bartlett Learning
1012	MATH F113	PROBABILITY AND STATISTICS	Jay L Devore Probability and Statistics for Engineering and the Sciences 8th Edition, Cengage Learning, 2012
1123	MATH F213	DISCRETE MATHEMATICS	Joe L. Mott, Abraham Kandel, Theodore P. Baker Discrete Mathematics for Computer Scientist & Mathematicians Pearson India, 2nd Edition 2015
1340	MATH F231	NUMBER THEORY	Thomas Koshy Elementary Number Theory with Applications Academic Press, 2007
1465	MATH F241	MATHEMATICAL METHODS	(i) F. B. Hildebrand Methods of Applied Mathematics Dover Publications, Second Edition, 1992

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
			(ii) Sudhakar Nair Advanced Topics in Applied Mathematics: For Engineering and the Physical Sciences Cambridge University Press, 2011
1466	MATH F242	OPERATIONS RESEARCH	(i) Taha, Hamdy A Operations Research:An Introduction Pearson Edu,10th ed.,2012
			(ii) Venkateswaran S. and B. Singh Operations Research Notes EDD, V. 3, 2007
1467	MATH F243	GRAPHS AND NETWORKS	Gary Chartrand & Ping Zhang Introduction to Graph Theory Tata Mcgraw-hill, Indian Edition 2006
1468	MATH F244	MEASURE & INTEGRATION	H. L. Royden, P. M. Fitzpatrick Real Analysis 4th Edition, Pearson Education India, 2015
1662	MATH F266	STUDY PROJECT	No text book required
2559	MATH F315	INTRO TO STATISTICAL INFERENCE	No text book required
1472	MATH F341	INTRO TO FUNCTIONAL ANAL	Kreyszig, Erwin Introductory Functional Analysis with Applications Reprinted 2010, John Wiley
1473	MATH F342	DIFFERENTIAL GEOMETRY	D. Somasundaram Differential Geometry A First Course Narosa Publishing House, First Edition, 2012.
1474	MATH F343	PARTIAL DIFF EQUATIONS	Tyn Myint-U and Lokenath Debnath Linear Partial Differential Equations for Scientists and Engineers, Birkhauser, 4th Edition
1479	MATH F353	STATISTICAL INFER & APP	Venkateswaran, S., & B. Singh Operations Research Notes-EDD, Vol.1 and 2, 1997
1679	MATH F366	LABORATORY PROJECT	No text book required
1747	MATH F367	LABORATORY PROJECT	No text book required
1696	MATH F376	DESIGN PROJECT	No text book required
1763	MATH F377	DESIGN PROJECT	No text book required
1480	MATH F421	COMBINATORIAL MATHEMATICS	Richard A. Brualdi Introductory Combinatorics Pearson Prentice Hall, 2014
1880	MATH F456	COSMOLOGY	A. Liddle An Introduction to Modern Cosmology, Relativity and Cosmology 3rd edition,Wiley (2015)

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1476	MATH F471	NONLINEAR OPTIMIZATION	1. M. S. Bazzara, H.D. sherali and C.M. Shetty Nonlinear Programming: Theory and Algorithms Wiley-Interscience; 3rd edition, 2006.
1477	MATH F481	COMMUTATIVE ALGEBRA	M. F. Atiyah and I. G. Macdonald Introduction to commutative algebra, Taylor & Francis, 1994.
1013	ME F112	WORKSHOP PRACTICE	(i) Parashar, B S N & R K Mittal Elements of Manufacturing Processes PHI , 2003
			(ii) Sangwan, K S & Others Workshop Practice Manual Notes-EDD, 2007
2397	ME F218	ADVANCED MECHANICS OF SOLIDS	Arthur P., Boresi and R.J. Schmidt "Advanced Mechanics of Materials" John Wiley, 6th Edition, 2003.
2398	ME F219	MANUFACTURING PROCESSES	Serope Kalpakjian and Steven R. Schmid "Manufacturing Processes for Engineering Materials" Pearson Education (Low Price Edition), 2003
2430	ME F220	HEAT TRANSFER	Frank P. Incropera , David P. Dewitt , Theodore L. Bergman , Adrienne S. Lavine Incropera's Principles of Heat and Mass Transfer Wiley India Edition, 2018
2399	ME F221	MECHANISMS AND MACHINES	Uicker, JJ and Others Theory of Machines and Mechanisms OUP 3rd Ed., 2003
1263	ME F241	MACHINE DESIGN & DRAWING	Richard G. Budynas, J. Keith Nisbett Shigley's Mechanical Engineering Design Tata–McGraw Hill,. 9th SI Edition, New Delhi, 2011
1264	ME F242	IC ENGINES	Ganeshan V Internal Combustion Engines Tata McGraw-Hill, 4th Edition, 2012
1265	ME F243	PRODUCTION TECHNIQUES I	Serope Kalpakjian and Steven R. Schmid "Manufacturing Processes for Engineering Materials" Pearson Education (Low Price Edition), 2003
1663	ME F266	STUDY PROJECT	No text book required
2406	ME F318	COMPUTER-AIDED DESIGN	(i) Zeid , Ibrahim "Mastering CAD/CAM" Tata McGraw-Hill, 2007

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
			(ii) Chandrupatla, T. R., Belegundu, A. D., Introduction to Finite Elements in Engineering 3rd Edition, Prentice Hall of India, 2005, New Delhi.
			(iii) Narayana K. L., Kannaiah P., Venkata Reddy K Machine Drawing 3rd Edition, New Age International Publishers, New Delhi.
2407	ME F319	VIBRATIONS AND CONTROL	(i) William T. Thomson, Marie Dillon Dahleh and Chandramouli Padmanabhan, Pearson Theory of Vibrations with Applications Pearson, Sixth Ed
			(ii) Katsuhiko Ogata, Modern Control Engineering Pearson, 5th Edition
2408	ME F320	ENGINEERING OPTIMIZATION	HA Taha Operations Research: An Introduction Pearson Education/PHI, 8/E, 2007
2538	ME F321	DATA MINING IN MECHANICAL SCI	TO BE ANNOUNCED
2539	ME F323	ENERGY STORAGE TECHNOLOGIES	TO BE ANNOUNCED
1270	ME F341	PRIMEMOVERS & FLUID MACH	(i) Lal Jagdish Hydraulic Machines Metropolitan, 6th ed.rev.,1975
			(ii) Venkanna B. K. Fundamentals of Turbomachinery 6th Print (2009), PHI, New Delhi.
1680	ME F366	LABORATORY PROJECT	No text book required
1748	ME F367	LABORATORY PROJECT	No text book required
1697	ME F376	DESIGN PROJECT	No text book required
1764	ME F377	DESIGN PROJECT	No text book required
1810	ME F423	MICRO-FLUIDICS & ITS APP	Nam-Trung Nguyen and Steven T. Wereley 1. Fundamentals and applications of microfluidics Artech House, 2002
2311	ME F426	INDUSTRY 4.0 IN MANUFACTURING	(i) Zhang Y. and Tao F. Optimization of Manufacturing Systems using the Internet of Things 1st Edition, 2017, Academic Press (Elsevier), UK
			(ii) Sartal, Antonio, Diego Carou, and J. Paulo Davim Enabling technologies for the successful deployment of Industry 4.0 CRC Press, 2020.

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
			(iii) Gilchrist, Alasdair Industry 4.0: the industrial internet of things. Apress, 2016
1867	ME F483	WIND ENERGY	Sathyajith Mathew Wind Energy - Fundamentals, Resource Analysis and Economics Springer-Verlag Berlin Heidelberg 2006
1868	ME F484	AUTOMOTIVE TECHNOLOGY	(i) Sudhir Kumar Saxena Automobile Engineering, University Science Press, 1st Edition, 2009
			(ii) VAW Hillier Fundamentals of Motor Vehicle Technology Vol 1 & 2, Nelson Thornes, UK, 6th Edition, 2012
410	ME G515	COMPUT FLUID DYNAMICS	(i) Anderson, John D Computational Fluid Dynamics MGHISE , 1995
			(ii) K Muralidhar & T Sundararajan Computational Fluid Flow and Heat Transfer Narosa Book Distributors Pvt Ltd, 2nd Edition, 2009.
			(iii) H K Versteeg & W Malalasekara Introduction to Computational Fluid Dynamics The Finite Volume Method Pearson Education (Indian Reprint), 2nd Edition, 2007
2086	ME G538	TOYOTA PRODUCTION SYSTEM	TO BE ANNOUNCED
2087	ME G539	COMP INTEGRATED MANUFACT	TO BE ANNOUNCED
266	ME G611	COMP AIDED ANAL & DESIGN	Rogers, David F & James A Adams Mathematical Elements for Computer Graphics Tata McGraw-Hill, New York, 2004
739	ME G631	ADVANCED HEAT TRANSFER	(i) M. Necati Ozisik Heat Conduction John Wiley & Sons, 2nd edition, 1993
			(ii) A. Bejan Convective Heat Transfer Wiley India Pvt. Ltd, Third Edition, 2004
			(iii) Michael F. Modest Radiative Heat Transfer Academic Press, 2nd edition, 2003.
500	MEL G623	ADVANCED VLSI DESIGN	(i) Kaushik Roy & Sharat C. Prasad Low-Power CMOS VLSI Circuit Design Wiley

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
			(ii) Yuan Taur & Tak H. Ning Fundamentals of Modern VLSI Devices Cambridge University Press
224	MEL G632	ANALOG IC DESIGN	Razavi, Behzad Des. of Analog CMOS Integrated Circuits TMH, 2001
484	MEL G641	CAD FOR IC DESIGN	Naveed Sherwani Algorithm for VLSI Physical Automation 3rd Edition, Kluwer Academic Press, 1998
817	MEL G642	VLSI ARCHITECTURE	(i) Patterson, David A & JL.Hennessy Computer Organization & Design Elsevier, 4td ed, 2009
			(ii) Nick Tredenick Nick Tredenick Digital Press, 1987.
1417	MF F418	LEAN MANUFACTURING	(i) Pascal Dennis Lean Production Simplified 2nd Edition, Productivity Press, 2007
			(ii) Jeffrey K. Liker, The Toyota Way McGraw-Hill Edition, New Delhi, 2004
1418	MF F421	SUPPLY CHAIN MANAGEMENT	Sunil Chopra, Peter Meindl and D V Kalra Supply Chain Management: Strategy, Planning and Operation”, Pearson Education Sixth Edition, India, 2016
1884	MF F485	SUSTAINABLE MANUFACTURING	(i) D. Dornfeld (ed.) Green Manufacturing: Fundamentals and Applications Springer, New York, 2013 [1]
			(ii) Anthony Johnson Sustainability in Engineering Design Elsevier publication, 2014 [2]
			(iii) Gunther Seliger (ed.) Sustainability in Manufacturing Springer, 2007 [3]
1024	MGTS F211	PRINCIPLES OF MANAGEMENT	Stephen P. Robbins, Mary Coulter & Agna Fernandez Management Pearson Education, 2019, 14th edition.
2544	MGTS F311	MARKETING	TO BE ANNOUNCED
2546	MGTS F314	ESSENTIALS OF FINANCIAL MGT.	TO BE ANNOUNCED
2547	MGTS F315	FOUNDATIONS OF BUSINESS ANALYTICS	TO BE ANNOUNCED

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
2548	MGTS F316	MANAGERIAL & LEADERSHIP SKILLS	TO BE ANNOUNCED
389	MSE G512	MANUFACT PLANNING & CONT	Russell R. S. & Taylor B. W., Operations Management", International Student Version, 7/e John Wiley and Sons (Asia) Pte. Ltd., 2011
2066	MST G522	ADVANCED COMPOSITES	K.K. Chawala Composite materials 2nd ed., (1987) Springer-Verlag, New York.
1087	PHA F214	ANATOMY PHYSIO & HYGIENE	Marieb, Elaine N Essentials of Human Anatomy & Physiology Pearson Edu., 9th ed., 2009
2504	PHA F216	PHARMACEUTICAL FORMULATIONS I	Cooper and Gunn Dispensing for Pharmaceutical Students CBS , 12th ed. , 1987
1291	PHA F241	PHARMACEUTICAL CHEMISTRY	(i) L. G. Wade and Maya Shankar Singh Organic Chemistry Pearson, 6th Edition
			(ii) Bentley and Driver's Text book of Pharmaceutical Chemistry 8th Edition, Oxford Medical publications
1292	PHA F242	BIOLOGICAL CHEMISTRY	Robert K. Murray, et.al Harper's illustrated biochemistry McGraw Hill Medical Publishers, 29th edition
1665	PHA F266	STUDY PROJECT	No text book required
1299	PHA F313	INSTRU METHODS OF ANAL	(i) Willard, H.H & Others Instrumental Methods of Analysis CBS , 7th ed , 1988
			(ii) Parimoo P Pharmaceutical Analysis CBSI, 1988
1296	PHA F341	PHARMACOLOGY II	Tripathi KD Essentials of Medical Pharmacology Sixth edition, Jaypee brothers, New Delhi 2008
1298	PHA F342	MEDICINAL CHEMISTRY II	(i) William O Foye Principles of Medicinal Chemistry Sixth Edition, Lea and Febiger, Phil., 2008
			(ii) D . Sriram & P. Yogeeswari Medicinal Chemistry Pearson Education, second Edition, 2010.(or latest)
1301	PHA F343	FORENSIC PHARMACY	Mithal B.M. Textbook of Forensic Pharmacy Vallabh, 10th ed, 1999
1302	PHA F344	NATURAL DRUGS	Evans, W C and D. Evan Trease & Evans' Pharmacognosy Saunders , 16th ed , 2009

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1682	PHA F366	LABORATORY PROJECT	No text book required
1750	PHA F367	LABORATORY PROJECT	No text book required
1699	PHA F376	DESIGN PROJECT	No text book required
1766	PHA F377	DESIGN PROJECT	No text book required
1303	PHA F413	PHARMA MANG & QUAL CONTR	(i) Khanna, O.P. Industrial Engineering & Mgt Dhanpat Rai , Rev.ed , 1999
			(ii) Sidney H. Willing; Marcel Dekker Good Manuf Prac for Phar:A Plan for Total Q.C. Marcel Dekker , 6th ed , 2007
1304	PHA F414	BIOPHARMACEUTICS	Brahmankar, D M and Jaiswal, S N Biopharmaceutics and Pharmacokinetics - A treatise Vallabh , 2nd ed., 2009
1307	PHA F417	PHARMACOECONOMICS	TO BE ANNOUNCED
351	PHA G532	Q A & REGULATORY AFFAIRS	(i) Sidney H. Willig, Murray M. Tuckerman and William S. Hitchings IV Good Manufacturing Practices for Pharmaceuticals: A Plan for Total Quality Control Marcel Dekker, New York, 4th Edn., Vol. 78, 1997.
			(ii) Alfred H. Wachter and Robert A. Nash Pharmaceutical Process Validation Marcel Dekker, New York, 2nd Edn., Vol. 129, 2014
			(iii) Shein-Chung Chow, Jen-Pei Liu Design and analysis of clinical trials Wiley-IEEE, 2003
2292	PHA G546	PHARMACEUTICAL BIO STATISTICS	Sanford Bolton and Charles Bon Pharmaceutical Statistics: Practical and Clinical Applications Fifth Edition.(Informa Healthcare, 2007).
67	PHA G611	ADVANCED PHARMACOLOGY	Goodman & Gilman's The Pharmacological basis of Therapeutics McGraw Hill, 10th ed., 2001
747	PHA G612	PHARM KINET & CLINIC PHA	Gibaldi M & D Perrier Pharmacokinetics Marcel Dekker , 2nd ed. , 1982
145	PHA G617	ADV DRUG DELIVERY SYSTEM	Tyle, P Specialized Drug Delivery Systems- Manufacturing and Production Technology Marcel Dekker, New York, 1990

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COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
2390	PHA G624	PRINCIPLES OF TOXICOLOGY	TO BE ANNOUNCED
1014	PHY F110	PHYSICS LABORATORY	Lab manual for Physics
1015	PHY F111	MECH OSCIL & WAVES	(i) by D. Kleppner and R. Kolenkow An Introduction to Mechanics Cambridge University Press, Second edition 2021
			(ii) French, Anthony P Vibrations and Waves CBS, 2003
1493	PHY F215	INTRO TO ASTRO & ASTROPH	Hannu Karttunen Fundamentals of Astronomy 6th edition 2017 edition, Springer
1482	PHY F241	ELECTROMAGNETIC THEORY II	David Griffiths, J Introduction to Electrodynamics PHI, 4th ed. 2018
1483	PHY F242	QUANTUM MECHANICS I	D J Griffiths Introduction to Quantum Mechanics LPE, Pearson 2nd edition
1484	PHY F243	MATHEMATICAL METHODS OF PHYSICS	(i) Arfken, Weber, Harris Mathematical Methods for Physicists 7th edition, Academic Press, 2012
			(ii) Philippe Dennery, Andre Krzywicki Mathematics for Physicists Dover Books on Physics, Dover Publications Inc, 1996
1485	PHY F244	MODERN PHYSICS LAB	No text book required
1666	PHY F266	STUDY PROJECT	No text book required
1494	PHY F315	THEORY OF RELATIVITY	Robert Resnick Introduction to Special Relativity Wiley India Ltd
1489	PHY F341	SOLID STATE PHYSICS	D. L. Sidebottom Fundamentals of Condensed Matter Physics and Crystalline Physics Cambridge University Press
1490	PHY F342	ATOMIC & MOLECULAR PHY	Bransden B.H, Joachain C.J. Physics of Atoms and Molecules Pearson, 2nd ed. 2001.
1491	PHY F343	NUCLEAR & PARTICLE PHY	A. Das, T. Ferbel Introduction to nuclear and particle physics Publisher - World Scientific Publishing Ltd
1492	PHY F344	ADVANCED PHYSICS LAB	No text book required
1683	PHY F366	LABORATORY PROJECT	No text book required
1751	PHY F367	LABORATORY PROJECT	No text book required
1700	PHY F376	DESIGN PROJECT	No text book required
1767	PHY F377	DESIGN PROJECT	No text book required
2136	PHY F379	THIN FILM TECHNOLOGY	TO BE ANNOUNCED

TEXT BOOKS

COM COD	COURSE NO	COURSE TITLE	TEXT BOOK(S)
1495	PHY F412	INTRO TO QUAN FIELD THEO	(i) M. Peskin & D. Schroeder An Introduction to Quantum Field Theory Sarat Book House
			(ii) A. Zee Quantum Field Theory in a Nutshell [Princeton University Press]
1496	PHY F413	PARTICLE PHYSICS	(i) Francis Halzen & Alan D. Martin (H-M) Quarks and Leptons: An Introductory Course in Modern Particle Physics
			(ii) David Griffiths (G) Introduction to Elementary Particles
1504	PHY F420	QUANTUM OPTICS	C. Gerry and P. Knight Introductory Quantum Optics Cambridge University Press, 2005