

DIRECTED STUDY COURSES

(Ph.D. Programmes)



ACADEMIC OFFICE NATIONAL INSTITUTE OF TECHNOLOGY

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ARCHITECTURE

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	AR712	RESEARCH METHODS IN ARCHITECTURE	3
2.	AR807	ARCHITECTURAL CONSERVATION	3
3.	AR809	URBAN DESIGN AND RENEWAL	3
4.	AR810	ECONOMIC ENVIRONMENTAL RESOURCES	3
		AND STATISTICS	
5.	AR811	URBAN ENVIRONMENT	3
6.	AR812	MATHEMATICS IN ARCHITECTURE	2
7.	AR813	SOUTH INDIAN TEMPLE ARCHITECTURE	3
8.	AR814	URBAN MICRO CLIMATE	
9.	AR815	THEORY AND PRINCIPLES OF THERMAL	3
		COMFORT	
10.	AR816	CONTEMPORARY THEORIES OF	3
		ARCHITECTURE	
11.	AR817	SPACE PLACE AND SOCIETY	3

CHEMICAL ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	CH801	RESEARCH TECHNIQUES IN CHEMICAL SCIENCES	3
2.	CH812	FUNDAMENTAL OF PHOTOCHEMISTRY AND UV-VIS FLUORESCENCE SPECTROSCOPY	3
3.	CL801	MEMBRANE SEPARATION TECHNOLOGY PRINCIPLES AND APPLICATIONS	3
4.	CL802	ALGOLOGY	3
5.	CL803	COMPUTATIONAL METHODS IN BIO ENGINEERING	3
6.	CL804	DESIGN OF SOLAR ENERGY SYSTEMS	3
7.	CL805	MODELING OF WASTEWATER TREATMENT PROCESSES AND BIOSTATISTICAL DATA ANALYSIS	3
8.	CL806	ENVIRONMENTAL NANOTECHNOLOGY	3
9.	CL807	SOLAR ENERGY FOR INDUSTRIAL PROCESS HEAT	3
10.	CL808	ADVANCED STATISTICAL THERMODYNAMICS	3
11.	CL809	DESIGN AND ANALYSIS OF LIQUID AIR MEMBRANE ENERGY EXCHANGER	3
12.	CL810	DESALINATION POWERED BY RENEWABLE ENERGY	3
13.	CL811	MATERIAL SCIENCE	3
14.	CL812	CORROSION SCIENCE	3

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CIVIL ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	CE805	CONSTITUTIVE MODELLING OF GEOLOGICAL MATERIALS	3
2.	CE806	MODELLING IN REMOTE SENSING AND GIS	3
3.	CE807	SOIL STRUCTURE INTERACTION	3
4.	CE808	PROCESS CHEMISTRY FOR WATER AND WASTE WATER TREATMENT	3
5.	CE809	SIMULANT MATERIALS	4
6.	CE810	UNIT OPERATIONS AND PROCESSES IN WATER AND WASTE WATER TREATMENT	3
7.	CE811	RELIABILITY ANALYSIS OF STRUCTURES	3
8.	CE812	SOIL DYNAMICS AND GEOTECHNICAL EARTHQUAKE ENGINEERING	3
9.	CE815	COASTAL AND OFFSHORE STRUCTURES	3
10.	CE816	HYPER SPECTRAL IMAGE PROCESSING	3
11.	CE817	APPLICATION OF WAVELET TRANSFORM FOR SATELLITE IMAGE PROCESSING	3
12.	CE818	SIMULATION MODELLING IN WATER RESOURCE	3
13.	CE819	HIGHWAY DESIGN AND SAFETY	3
14.	CE820	ADVANCED SPATIAL ANALYSIS TECHNIQUES	3
15.	CE821	FLOOD MODELLING AND DROUGHT ASSESSMENT	3
16.	CE822	MICROBIAL GEOTECHNOLOGY AND GROUND IMPROVEMENT	3
17.	CE823	RIVER HYDRAULICS	3
18.	CE824	LUNAR CIVIL INFRASTRUCTURE	3
19.	CE825	LAND USE AND TRANSPORTATION PLANNING	3
20.	CE826	ADVANCED SOIL MECHANICS FOR PROBLEMATIC SUBGADES	3
21.	CE827	MICROWAVE REMOTE SENSING AND ITS APPLICATIONS	3
22.	CE828	WATER SHED CONSERVATION AND MANAGEMENT	3
23.	CE829	CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT	3
24.	CE830	HYPERSPECTRAL REMOTE SENSING AND ITS APPLICATIONS	3

COMPUTER SCIENCE AND ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	CA7C8	SOCIAL NETWORK ANALYSIS	3
2.	CS801	RESEARCH TECHNIQUES IN COMPUTER SCIENCES	3
3.	CS812	ADVANCED DISTRIBUTED SYSTEMS	3
4.	CS814	GRID COMPUTING	3

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6.	CS816	DATA MINING AND XML	3
7.	CS817	CLIENT SERVER ARCHITECTURE AND	3
	00011	INTERNET	
8.	CS818	WEB ARCHITECTURE AND SERVICES	3
9.	CS819	SYSTEM SIMULATION, ANALYSIS AND	3
		MODELLING TECHNIQUES	
10.	CS820	COMBINATORIAL MATHEMATICS AND GRAPH	3
		THEORETIC ALGORITHMS	
11.	CS821	PRINCIPLES AND ALGORITHMS FOR	3
		COMPUTER VISION	
12.	CS822	PRINCIPLES OF PERVASIVE COMPUTING	3
13.	CS822	EMBEDDED MULTICORE SYSTEMS	3
14.	CS823	KERNEL METHODS AND PATTERN ANALYSIS	3
15.	CS823	XML AND WEB SERVICES	3 3 3
16.	CS824	MACHINE LEARNING	3
17.	CS824	MULTICORE ARCHITECTURE AND	3
		PROGRAMMING ISSUES	
18.	CS825	WEB TECHNOLOGY	3
19.	CS825	MULTICORE CACHE MEMORY	3
20.	CS826	MULTICORE ARCHITECTURES AND	3
2.4		PROGRAMMING ISSUES	
21.	CS827	BIG DATA AND THE CLOUD	3
22.	CS828	MATHEMATICAL FOUNDATIONS OF	3
00	00004	ALGEBRAIC GRAPH THEORY	
23.	CS831	ARCHITECTURAL SUPPORT FOR CLOUD	3
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24.	U3032	DESIGN	3
25.	CS833	TOPICS IN CRYPTANALYSIS	3
26.	CS834	MEMORY ARCHITECTURES AND DESIGN	3
27.	CS835	CACHE COHERENCE FOR MULTICORE	3
21.	00000	ARCHITECTURE	3
28.	CS836	GPU ARCHITECTURE AND PROGRAMMING	3
29.	CS837	ADVANCED CONCEPTS IN IMAGE	3
		PROCESSING	
30.	CS838	SELECTED TOPICS IN GRAPH ALGORITHMS	3
31.	CS839	ARTIFICIAL INTELLIGENCE	3
32.	CS840	SECURITY AND PRIVACY IN IOT	3
33.	CS841	HYPERGRAPH ALGORITHMS AND	3
		APPLICATIONS	
34.	CS842	CHAOS BASED IMAGE CRYPTOGRAPHY	3
35.	CS843	SOCIAL NETWORKS AND INFORMATION	3
		RETRIEVAL SYSTEMS	
36.	CS844	WIRELESS COMMUNICATION TECHNOLOGY	3
	_	FOR THE IOT	
37.	CS845	ADVANCE CRYPTOGRAPHY	3
38.	CS846	ARCHITECTURE AND TECHNOLOGIES FOR	3
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39.	CS847	RECONFIGURABLE ARCHITECTURES	FOR	3
		CRYPTOGRAPHIC ALGORITHMS		
40.	CS848	FPGA PROGRAMMING TECHNIQUES		3
41.	CS849	ARCHITECTURE SUPPORT FOR	IOT	3
		APPLICATIONS		
42.	CS850	INTERNET OF THINGS - ARCHITECTURE	AND	3
		DESIGN PRINCIPLES		

ELECTRICAL AND ELECTRONICS ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	EE801	RESEARCH TECHNIQUES IN ELECTRICAL SCIENCES	3
2.	EE803	WIND ENERGY ELECTRIC CONVERSION SYSTEMS	3
3.	EE804	SIMULATION OF POWER CONVERTERS USING MATLAB/SIMULINK	3
4.	EE805	ADVANCED DIGITAL CONTROLLERS IN POWER ELECTRONIC APPLICATIONS	3
5.	EE806	HARMONIC REDUCTION TECHNIQUES	3
6.	EE807	SMART GRID TECHNOLOGIES	3
7.	EE808	PROTOCOLS AND ARCHITECTURES FOR WIRELESS SENSOR NETWORKS	
8.	EE815	PERMANENT MAGNET BLDC MOTOR DRIVES AND CONTROLS	3
9.	EE816	SMART GRID COMMUNICATION AND SECURITY	3
10.	EE817	SMART GRID AND WIDE AREA MEASUREMENT	3
11.	EE821	ADVANCED ANALOG INTEGRATED CIRCUITS	3
12.	EE822	PROTECTION OF ELECTRIC POWER TRANSMISSION SYSTEMS	3
13.	EE823	SYSTEMS ENGINEERING	3
14.	EE824	AERODYANAMIC STUDIES FOR STRATOSPHERIC AIRSHIPS	3
15.	EE825	INDUSTRIAL IMAGE PROCESSING	3
16.	EE826	SOLAR PV SYSTEMS	3
17.	EE863	POWER ELECTRONICS IN RENEWABLE ENERGY SYSTEM	3
18.	EE864	DESIGN OF EMBEDDED CONTROLLERS FOR SMART GRID	3
19.	EE865	ADVANCED DIGITAL SYSTEM DESIGN	3

ELECTRONICS AND COMMUNICATION ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	EC801	DIGITAL SYSTEM DESIGN	3
2.	EC802	MODELING AND SYNTHESIS WITH VERILOG HDL	3
3.	EC803	DIGITAL SIGNAL PROCESSING STRUCTURES FOR VLSI	3
4.	EC804	COGNITIVE RADIO	3

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INSTRUMENTATION AND CONTROL ENGINEERING

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1.	IC801	ALGORITHMS	3
2.	IC802	PIEZOELECTRIC ENERGY HARVESTING	3
		TECHNOLOGIES	
3.	IC803	DESIGN AND CONTROL OF SHAPE MEMORY	3
		ALLOY BASED SYSTEMS	
4.	IC804	ANATOMY AND PHYSIOLOGY	3
5.	IC805	PHYSIOLOGICAL CONTROL SYSTEMS	3
6.	IC806	MEDICAL IMAGE PROCESSING	3
7.	IC807	RAILWAY VEHICLE DYNAMICS	3
8.	IC808	INDUSTRIAL IMAGE PROCESSING	3
9.	IC808	INDUSTRIAL IMAGE ANALYSIS	3
10.	IC809	FRACTAL ANALYSIS AND IMAGE PROCESSING	3
11.	IC810	ADVANCED SOFT COMPUTING TECHNIQUES IN	3
		INSTRUMENTATION APPLICATIONS	
12.	IC811	INSTRUMENTATAION SYSTEM DESIGN	3
13.	IC812	MODELLING AND SIMULATION OF PROCESSES	3
14.	IC813	INTELLIGENT STRUCTURAL SYSTEMS	3
15.	IC814	STOCHASTIC PROCESSES	3
16.	IC815	ANALYSIS AND DESIGN OF SMART MATERIALS	3
		AND STRUCTURES	
17.	IC816	ADVANCED CIRUCUITS AND SYSTEMS DESIGN	3
18.	IC816	INTEGRATED CIRCUITS AND SYSTEMS DESIGN	3
19.	IC817	FAULT TOLERANT CONTROL SYSTEMS	3
20.	IC818	INTRODUCTION TO BIOMATERIALS	3
21.	IC819	BASICS OF THEORETICAL COMPUTER	3
		SCIENCE FOR CONTROL	
22.	IC820	INDUSTRIAL AUTOMATION AND CONTROL	3
23.	IC821	MULTIVARIABLE CONTROL	3
24.	IC822	UTILITY BOILERS FOR SUB CRITICAL AND	3
		SUPER CRITICAL PLANTY	
25.	IC823	ADVANCED CONTROL SYSTEMS	3
26.	IC824	MODELLING, CONTROL AND POWER OPTIMIZATION	3
07	10005	OF UNMANNED AERIAL VEHICLE	
27.	IC825	SENSOR LINEARIZATION FOR MEASURMENT	3
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28.	IC826	COMPUTATIONAL ELECTROMAGNETICS AND	3
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MECHANICAL ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	ME 813	ERGONOMICS ASPECTS IN SAFETY	3
		ENGINEERING	
2.	ME801	SURFACE COATING AND CHARACTERISATION	3
3.	ME802	BIOMECHANICS AND HUMAN BODY	3
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4.	ME803	AUTOMOTIVE ENGINE SYSTEM	3
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6.	ME806	MEASUREMENTS IN THERMAL ENGINEERING	3
7.	ME807	SENSITIVITY MEASUREMENT AND	3
'.	WILOUT	EVALUATION OF ENERGITIC MATERIALS	Ü
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9.	ME808	SORPOTION, REFRIGERATION AND HEATING	3
		SYSTEMS	•
10.	ME808	THERMAL POWER PIPING SYSTEMS	3
11.	ME809	INDUSTRIAL TRIBOLOGY	3
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13.	ME810	COMPOSITE MATERIALS	3 3 3
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		MANUFACTURING PROCESSES	
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		COMPONENTS	
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37.	ME831	ADVANCED WIND TURBINE TECHNOLOGY	3
38.	ME832	COMBUSTION AND EMISSION IN IC ENGINES	3
39.	ME833	ADVANCES IN ENGINEERING MATERIALS	3
40.	ME834	COMPUTATION MODELING OF PULVERIZED	3
		COAL FIRED BOILERS	
41.	ME835	TRIBOLOGY	3
42.	ME836	TWO PHASE FLOW AND HEAT TRANSFER	3

METALLURGICAL AND MATERIALS ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	MT801	RESEARCH TECHNIQUES IN MECHANICAL	3
		SCIENCES	
2.	MT805	PHYSICAL METALLURGY OF INTER METALLIC	3
		COMPOUNDS	
3.	MT806	ADVANCED BIOCERAMICS	3
4.	MT807	METALLIC MATERIALS	3
5.	MT808	SUPPLY CHAIN RISK MANAGEMENT	3
6.	MT809	WELDABILITY OF SPECIAL STEELS	3
7.	MT810	SPECIAL WELDING PROCESSES	3
8.	MT811	WELDING CONSUMMABLES	3

PRODUCTION ENGINEERING

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	PR803	SURFACE ENGINEERING	3
2.	PR803	LEAK TESTING	3
3.	PR804	SURFACE ENGINEERING	3
4.	PR805	COMPOSITE MATERIALS	3
5.	PR807	SOLAR SYSTEMS AND TECHNOLOGY	3
6.	PR808	SUPPLY CHAIN RISK MANAGEMENT	3
7.	PR808	FORMABILITY OF SHEET METALS	3
8.	PR809	FIELD SERVICES MANAGEMENT	3
9.	PR810	LEAN MANUFACTURING SYSTEM	3
10.	PR811	E- WASTE ASSESSMENT AND MANAGEMENT	3
11.	PR812	WELDING SIMULATION FOR BOILER	3
		COMPONENTS	

MATHEMATICS

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	MA801	RESEARCH METHODOLOGY IN	3
		MATHEMATICAL SCIENCES	
2.	MA802	INTRODUCTION TO FUZZY MATHEMATICS AND	3
		ITS APPLICATIONS	
3.	MA803	ADVANCED FUZZY MATHEMATICS AND ITS	3
		APPLICATIONS	
4.	MA804	ADVANCED NUMERICAL COMPUTATIONS	3
5.	MA806	MATRIX THEORY AND STOCHASTIC	3

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		PROGRAMMING	
6.	MA811	RHEOLOGY OF BLOOD AND ITS VESSELS	3
7.	MA851	ADVANCED MATHEMATICS	4
8.	MA851	APPLIED MATHEMATICS	3
9.	MA852	BIORHEOLOGY	3
10.	MA853	ADVANCED NUMERICAL ANALYSIS FOR SINGULARLY PERTURBED DIFFERENTIAL	3
		EQUATIONS	
11.	MA854	INTRODUCTION TO SINGULARLY PERTURBED DIFFERENTIAL EQUATIONS	3

CHEMISTRY

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	CY810	FUEL CELLS	3
2.	CY802	ADVANCED RESEARCH TOPICS IN CHEMISTRY	3
3.	CY803	FUEL CELLS	3
4.	CY803	STEREO SELECTIVE SYNTHESIS	3
5.	CY805	PRINCILPLES AND APPLICATIONS OF COORDINATION CHEMISTRY	3
6.	CY806	PRINCIPLES AND APPLICATIONS IN PHYSICAL CHEMISTRY	3
7.	CY808	PRINCIPLES AND APPLICATIONS OF ANALYTICAL CHEMISTRY	3
8.	CY809	ADVANCED INORGANIC AND ORGANOMETALLIC CHEMISTRY	3
9.	CY809	STEREO SELECTIVE SYNTHESIS	3
10.	CY810	COORDINATION CHEMISTRY-I	3
11.	CY810	STEREO SELECTIVE SYNTHESIS	3
12.	CY810	COORDINATION CHEMISTRY-I	3
13.	CY810	STEREO SELECTIVE SYNTHESIS	3
14.	CY811	COORDINATION CHEMISTRY-II	3
15.	CY812	FUNDAMENTALS OF PHOTO CHEMISTRY AND	3
		UV-VIS, FLUORESCENCE SPECTROSCOPY	
16.	CY813	POLYMER CHEMISTRY AND APPLICATIONS	3
17.	CY814	FUNDAMENTALS OF PHOTOCHEMISTRY AND UV-VIS,FLUORESCENCE SPECTROSCOPY	3
18.	CY815	SYNTHETIC ORGANICS, ORGANOMETALLICS AND POLYMERS	3
19.	CY816	COMPUTATIONAL METHODS AND STRUCTURE PROPERTY OPTIMIZATION	3
20.	CY817	STEREO SELECTIVE SYNTHESIS	3
21.	CY817	CHEMICAL SENSORS & THEIR APPLICATIONS	3
22.	CY818	POLYMER AND THEIR COMPOSITES FOR FUEL CELL APPLICATIONS	3
23.	CY818	SYNTHESIS AND CHARACTERIZATION OF NANOINORGANIC MATERIALS	3
24.	CY819	ELECTROCHEMISTRY	3
25.	CY820	HOMOGENEOUS CATALYSIS	3

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PHYSICS

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	PH800	RESEARCH TECHNIQUES IN PHYSICAL SCIENCES	3
2.	PH801	FRONTIER AREAS OF RESEARCH IN PHYSICS	3
3.	PH802	EXPERIMENTAL TECHNIQUES FOR RESEARCH ADVANCED PHYSICS	3
4.	PH804	NANOMATERIALS AND ITS APPLICATIONS	3
5.	PH805	QUANTUM COMPUTATION AND QUANTUM INFORMATION	3
6.	PH806	MODELING AND OPTIMIZATION OF MEMS DEVICES	3
7.	PH807	SPECIAL TOPICS IN CONDENSED MATTER PHYSICS AND EXPERIMENTAL METHODS	3
8.	PH808	HAMILTONIAN CHAOS AND SEMICLASSICAL MECHANICS	3
9.	PH810	NANO STRUCTURED MATERIALS AND APPLICATIONS	3
10.	PH811	MULTIFUNCTIONAL MATERIALS	3
11.	PH812	CARBON NANOMATERIALS AND THEIR APPLICATIONS	3
12.	PH813	EXPERIMENTAL TECHNIQUES FOR RESEARCH IN ADVANCED PHYSICS	3
13.	PH814	LASER MATERIAL PROCESSING	3
14.	PH815	FLUID MECHANICS AND CHARACERISTICS OF NANOFLUIDS	3
15.	PH816	CLOUD COMPUTING FOR BIG DATA	3
16.	PH817	BASIC COURSE ON THERMOELECTRIC MATERIALS	3
17.	PH818	EMBEDDED SYSTEM DESIGN	3
18.	PH819	EMBEDDED NETWORKING	3
19.	PH820	NANOPHOTONICS	3

MANAGEMENT STUDIES

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	MB 820	SERVICES MARKETING	2
2.	MB 825	STRATEGIC BRAND MANAGEMENT	2
3.	MB 838	SUPPLY CHAIN MANAGEMENT	2
4.	MB 840	ADVERTISING MANAGEMENT	3
5.	MB800	SYSTEMS ANALYSIS AND DESIGN	2
6.	MB801	INTRODUCTION TO BUSINESS ANALYSIS AND	2
		IT CONSULTING	
7.	MB801	ADVANCED DATA ANALYTICS	2
8.	MB802	ADVANCED RESEARCH METHODOLOGY	2
9.	MB802	BUSINESS ANALYSIS AND ITC IN BANKING	2
		AND FINANCIAL SERVICES	
10.	MB803	CUSTOMER EXPERIENCE MANAGEMENT	3

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11.	MB803	BUSINESS ANALYSIS AND ITC IN MARKETING AND RETAIL	2
12.	MB804	BUSINESS PROCESS REENGINEERING	3
13.	MB805	IT CONSULTING	3
14.	MB805	SYSTEM ANALYSIS AND DESIGN AND CASE	2
15.	MB806	SOFTWARE QUALITY MANAGEMENT	3
16.	MB807	SOFTWARE QUALITY MANAGEMENT	2
17.	MB808	ADVANCED MARKETING RESEARCH	3
18.	MB809	SOCIAL NETWORK ANALYSIS	2
19.	MB810	SOFTWARE QUALITY MANAGEMENT	3
20.	MB811	ADVANCED CUSTOMER RELATIONSHIP MANAGEMENT	2
21.	MB812	BASIC DATA ANALYTICS	2
22.	MB812	INTEGRATED MARKETING COMMUNICATION	2
23.	MB812	MARKETING METRICS	2
	_		3
24.	MB812	BASIC DATA ANALYTICS	
25.	MB813	ADVANCED DATA ANALYTICS	3 2
26.	MB813	MARKET MICROSTRUCTURE MARKETING RESEARCH	2
27. 28.	MB813		3
	MB814	MARKETING OF BANKING SERVICES	2
29.	MB814	DATA MINING TECHNIQUES	3
30.	MB814	CONSUMER BEHAVIOUR	2
31.	MB815	INTRODUCTION TO BUSINESS ANALYTICS	
32.	MB815	ADVANCED SERVICES MARKETING CUSTOMBER RELATIONSHIP MANAGEMENT	3
33.	MB815		2
34. 35.	MB816 MB816	MARKETING ANALYTICS FRAUD RISK MANAGEMENT	3
36.	MB816	BANKING FRAUD RISK MANAGEMENT	3 3
37.	MB817	COMPUTATIONAL FINANCE	3 3
38.	MB817	CORPORATE GOVERNANCE	3 3
	_		3 2
39. 40.	MB818 MB819	FINANCIAL RISK ANALYTICS	
		MARKET MICROSTRUCTURE THEORY	3
41.	MB820	SERVICES MARKETING	3
42.	MB820	ADVANCED WEB METRICS	<u> </u>
43. 44.	MB821A	SOCIAL MEDIA MARKETING BASIC DATA ANALYTICS	3 3
	MB821	FASHION MARKETING	
45.	MB822	ADVANCED DATA ANALYTICS	<u>3</u> 2
46.	MB822		
47.	MB823A		3
48.	MB823	DATA MINING TECHNIQUES	
49.	MB823	RETAIL MANAGEMENT INTRODUCTION TO BUSINESS ANALYTICS	2
50.	MB824	STRATEGIC BRAND MANAGEMENT	2
51.	MB825		
52.	MB826	FINANCIAL RISK ANALYTICS	2
53.	MB826	STRATEGIC MARKETING	3
54.	MB827	HUMAN RESOURCE ANALYTICS	2
55. 56	MB828	DIGITAL ANALYTICS	3
56.	MB829	BASIC MARKETING ANALYTICS	2

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58. MB831 MARKETING METRICS 2 59. MB831 ADVANCE DATA ANALYTICS 2 60. MB831 ADVANCE BUSINESS INTELLIGENCE 2 61. MB832 MARKETING RESEARCH 2 62. MB833 CONSUMER BEHAVIOR 2 63. MB834 BASIC DATA ANALYTICS 2 64. MB834 CUSTOMER RELATIONSHIP MANAGEMENT 2 65. MB835 INDIAN BANKING AND FINANCIAL SYSTEM 2 66. MB836 DIRECT MARKETING 2 67. MB836 DISTICS MANAGEMENT 2 68. MB836 BUSINESS TO BUSINESS MARKETING 2 69. MB837 INTERNATIONAL MARKETING 2 70. MB838 SUPPLY CHAIN MANAGEMENT 2 71. MB839 SERVICES MARKETING 2 72. MB840 ADVERTISING MANAGEMENT 2 74. MB841 TECHNOLOGY AND FRAUD RISK 74. MB841	57.	MB829	ANALYTICS FOR STRATEGIC MARKET PLANNING	2
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		MANAGEMEN	NT			
103.	MB896	FINANCIAL	STATEMENT	ANALYSIS	AND	2
		REPORTING				
104.	MB897	BUSINESS PI	ROCESS MANA	GEMENT		2

ENERGY AND ENVIRONMENT

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	EN801	COAL CHARACTERIZATION IMPACT OF COAL	3
		QUALITY ON POWER STATION	
2.	EN810	SOLAR POWER PLANT COMPONENTS AND	3
		DESIGN	
3.	EN811	PRINCIPLES OF DOWNSTREAM TECHNIQUES	3
		IN BIOPROCESS	
4.	EN812	DESIGN OF HEAT EXCHANGERS,	3
		EVAPORATORS SEPERATION EQUIPMENT AND	
		DRYERS	
5.	EN813	INSTRUMENTATION IN ASSESSMENT OF	3
		WATER AND WASTEWATER QUALITY	
6.	EN814	SOLAR THERMAL ENERGY STORAGE	3

COMPUTER APPLICATIONS

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	CA802	RESEARCH FUNDAMENTALS IN COMPUTER SCIENCE AND APPLICATIONS	3
2.	CA803	MOBILE AGENTS TECHNOLOGY	3
3.	CA804	DATA MINING,INDEXING AND INFORMATION RETRIEVAL	3
4.	CA805	DATA MINING AND ADVANCED CONCEPTS	3
5.	CA806	DATAMINING IN BIOINFORMATICS	3
6.	CA807	RESEARCH FUNDAMENTALS IN COMPUTER APPLICATIONS	3
7.	CA808	MULTIMEDIA SYSTEMS AND APPLICATIONS	3
8.	CA809	MOBILE DATA MANAGEMENT	3
9.	CA810	USER INTERFACE DESIGN AND IMPLEMENTATION	3
10.	CA811	NATURAL LANGUAGE PROCESSING	3
11.	CA812	ADVANCED DISTRIBUTED SYSTEMS	3 3 3
12.	CA813	XML AND CLOUD COMPUTING	
13.	CA814	MOBILE ADHOC NETWORK BASED MULTIMEDIA COMPUTING	3
14.	CA815	INFORMATION RETRIEVAL SYSTEM	3
15.	CA821	COMPUTATIONAL BASICS FOR QUANTUM COMPUTATION	3
16.	CA822	QUANTUM COMPUTATION AND QUANTUM INFORMATION	3
17.	CA823	EVOLUTIONARY ALGORITHMS IN BIOINFORMATICS	3

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18.	CA824	WEB MINING AND INFORMATION RETRIEVAL	3
19.	CA825	DATABASE SECURITY	3
20.	CA826	PRINCIPLES OF COGNITIVE SCIENCE	3
21.	CA827	DIGITAL VIDEO PROCESSING AND	3
		COMMUNICATIONS	
22.	CA828	CRYPTOGRAPAY	3
23.	CA828	MATHEMATICAL FOUNDATIONS OF	3
		CRYPTOGRAPHY	
24.	CA829	FOUNDATIONS OF COMPUTER	3
		APPLICATIONS RESEARCH	
25.	CA830	ADVANCES IN CLOUD COMPUTING	3
		TECHNOLOGIES	
26.	CA831	MOBILE COMMUNICATION AND COMPUTING	3
27.	CA832	ADVANCED DATA MINING	3
28.	CA833	WEB MINING	3
29.	CA834	CLOUD BASED E-LEARNING	3
30.	CA835	MULTICORE PROGRAMMING AND GPGPU	3
		PROGRAMMING	
31.	CA836	SECURITY ASPECTS OF CLOUD	3
		ARCHITECTURE	
32.	CA837	ADVANCED INFORMATION SECURITY	3
33.	CA838	MEDICAL IMAGE ANALYSIS	3
34.	CA839	INFOMETRICS	3
35.	CA840	INTEGRATED SOFTWARE PROJECT	3
		MANAGEMENT	
36.	CA841	ADVANCED MUSIC INFORMATION	3
		TECHNOLOGY	
37.	CA842	HEALTH CARE ANALYTICS	3
38.	CA843	ADVANCED COMBINATORICS AND GRAPH	3
		THEORY	
39.	CA844	VISUAL SENSOR NETWORKS	3
40.	CA845	COMPUTER VISION TECHNOLOGY FOR	3
		INDUSTRY	
41.	CA846	CRYPTOLOGY	3
42.	CA847	CLOUD SECURITY AND BIG DATA	3
43.	CA848	ADVANCED CRYPTOGRAPHIC TECHNIQUES	3
44.	CA849	BIOMETRICS	3
45.	CA850	INTRODUCTION TO MACHINE LEARNING	3
46.	CA851	GREEN COMPUTING	3
47.	CA852	DATA COMPRESSION	3
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HUMANITIES AND SOCIAL SCIENCES

SL.NO.	CODE	COURSE OF STUDY	CREDIT
1.	HM800	RESEARCH METHODOLOGY IN HUMANITIES	3
2.	HM801	SOCIOLINGUISTICS	3
3.	HM802	PSYCHOLINGUISTICS	3
4.	HM803	APPLIED LINGUISTICS	3
5.	HM804	ENGLISH LANGUAGE TEACHING	3

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6.	HM805	ENGLISH FOR SPECIFIC PURPOSES	3
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8.	HM806	COMMUNICATIVE LANGUAGE TEACHING	3
9.	HM806	AFRICAN AMERICAN HISTORY	3
10.	HM807	THEORIZING IN THE HUMANITIES	3
11.	HM808	LITERARY AND VISUAL CULTURES OF AIDS	3
12.	HM809	AN INDRODUCTION TO INDIAN QUEER	3
		STUDIES	
13.	HM810	A SURVEY OF INDIAN WRITING IN ENGLISH	3
14.	HM811	INDIAN DIASPORA AN INTRODUCTION	3 3 3
15.	HM812	CONTEMPORARY ECONOMICS	3
16.	HM812	HUMANISTIC TEXTS ACROSS CULTURES:	3
		SELECTIONS FROM WORLD LITERATURE	
17.	HM813	ENTREPRENEURSHIP DEVELOPMENT	3
18.	HM814	RESEARCH METHODOLOGY AND	3
		QUANTITATIVE TECHNIQUES	
19.	HM815	INTERNATIONAL ECONOMICS	3
20.	HM816	INTERNATIONAL BUSINESS	3
21.	HM817	ENTREPRENEURSHIP IN SMES AND	3
		UNORGANIZED SECTOR	
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		LITERATURE	
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28.	HM824	SURVEY OF THE MALAYALAM NOVEL	3
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	HM826	SOUTH EAST ASIAN LITERATURE	3
31.	HM827	AUTOBIOGRAPHY: THEORY AND PRACTICE	3
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34.	HM830	RESEARCH METHODOLOGY	3
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