Program /Open Electives for 7th semester (Odd semester) of Academic Session 2071-18

S. No.	Department	PE-I, Slot S-5, Maximum Students-60	PE-II, Slot S-6, Maximum Students-60	PE-III, Slot S-7, Maximum Students-60	Open Electives S1, S2, S3, & S4 Maximum Students-120
1.	Chemical	(i) CHT403 Modelling and Simulation; (ii) CHT405 Introduction to Plastic Materials	(i) CHT411,Polymer Science and Technology (ii) CHT413 Bioprocess Engineering (iii) CHT415 Non-Conventional Energy Sources		(i) CHT321 Petroleum, Petrochemicals & Natural 2 Gas Engineering (ii) CHT 419 Fuel Cells
2.	Civil	(i) CET 409 Traffic Engineering and Transport Planning (ii) CET 405; System Analysis	(i) CET 411; Construction Project Management (ii) CET 407; Prestressed Concrete		(i) CET 431; Introduction to Remote Sensing and GIS (ii) CET 432; Numerical Methods
3.	CSE	(i) CST449, 4, Real Time Systems (ii) CST457, 4, Evolving Architectures	(i) CST445, 4, Natural Language Processing (ii) CST455, 4, Digital Image Processing		(i) CST203, Data Structures & Algorithms (ii) CST302, Operating Systems
4.	Electrical	(i) EET 409 : Computer Architecture and Organization (ii) EET 415: Renewable Energy Sources	(i) EET 417: Power system planning and reliability (ii) EET 419: Computer-aided power system analysis	(i) EET 411: Advanced Electrical Machines (ii) EET 423: Power System Operation in Restructured Markets	(i) EET 307 Control systems Engineering (ii) EET 201 Network Theory
5.	Electronics	ECT413 Computer Networks	ECT456 Semiconductor Opto-Electronics	(i) ECT462 Artificial Intelligence & Expert System (ii) ECT614 VLSI Technology	(i) ECT305 Optical Communication Systems (ii) ECT204* Probabilistic Methods in Signals & Systems
6.	Mechanical	(i) MET 402; Air Conditioning System Design; (ii) MET 406; Project Management; (iii) MET 408; Supply Chain Management;	(i) MET 411; Finite Element Methods; (ii) MET 413; Design of Mechanisms; (iii) MET 426; Mechatronics Design;		(i) MET404; Renewable Energy Sources;
7.	Metallurgy	(i) MTT-401: Physical Metallurgy of Non Ferrous Metals & Alloys	(ii) MTT-417: Surface Coatings (ii) MTT-423: NDT &		(i) MTT-216: Introduction to Nano Materials & Technology

		(ii) MTT-415: Automotive Materials	Quality Control		
8.	Chemistry	NIL			
9.	Physics				(i) PHT- 401, Solar Energy and Physics of Photovoltaics (ii) PHT- 403, Introduction to theory of relativity and cosmology
10.	Maths				(i) MAT403, Abstract Algebra (ii) MAT405, Probability and Statistics
11.	Humanities				(i) HS-407Indian Constitution and Polity (ii) HS-401Introduction to Sociology (iii) HST 404 Communication Skills (iv) HST 402Industrial Economics (v) HST-604Indian Constitution, Democracy and World Affairs
12.	Management				BMT 535 Investment Banking
13.	Centre for Energy				(i) CEE 501 Photovoltaic and Fuel Cell Systems (ii) CEE 503 Wind and Hydro energy Systems (iii) CEE504 Energy and Environmental Policies
14.	MRC				(i) MST 609, Electrical, optical, magnetic &thermal properties of materials (II)MST613 Structural characterization of materials
15.	NCDMM	NIL			

Advance Elective for ECE: ECT603   CAD Algorithms for Synthesis of Digital Systems

Associate Dean (UG)