



## ACADEMIC OFFICE

### NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 620 015, TAMILNADU, INDIA

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Ref: NIT-T/UG/On-Semester-Redo/2020

24.08.2020

### NOTICE

Those students (Admitted in Batches 2015 to 2018) who have not registered or prevented from appearing for the final assessments due to shortage of attendance in earlier sessions are directed to follow the procedure for registering the on-semester redo (along with junior classes)

1. Download the course registration form from MIS, after the regular session (July 2020) course registration (Not applicable for 2016 and 2015 Batch students).
2. Choose the courses to be registered for on-semester redo from the attached course master.
3. Send both course registration form (as mentioned in sl.no.1) and list of courses to be registered in on-semester redo to the Head of the Department concerned with a request to approve the on-semester redo on or before 27.08.2020. E-mail ids of Heads of Department are available in the link:  
<https://www.nitt.edu/home/administration/hods/>
4. The maximum number of courses a student can register in a session, including on-semester redo as per the regulation is given below:

**“A student can register a maximum of six theory courses in the third regular session. From the fourth regular session onwards, students can register for a maximum of seven (7) theory courses, including ReDo courses. The Maximum number of ELR is two per session.”**

5. Heads of Department will approve the request of the students after checking the condition (Sl. No.4), upload, and allot faculty in MIS for the approved courses.
6. After completing the process (Sl. No. 5), Heads of Department will send a list of courses to be registered with student name and roll number to the academic office ([ugcad@nitt.edu](mailto:ugcad@nitt.edu) and [ugsection@nitt.edu](mailto:ugsection@nitt.edu)).
7. The academic office will register the course, and the same will be informed to the respective Head of the Department and student concerned.

Associate Dean Academic (UG)

**NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620015**

**OFFICE OF THE DEAN (ACADEMIC)**

**B.Arch./B.Tech - LIST OF COURSES TO BE OFFERED IN JULY 2020 SESSION (Except First Year)**

Programme: B. Arch.

Specialization: Architecture

SEMESTER III				
Code	Course of Study	Prerequisites	Name of the Faculty*	Semester
AR201	Computer Applications in Architecture -II	NIL	Prof. K. Bhagyashri	III
AR203	History of Architecture - III	NIL	Prof. Pudhuma Bharathi	III
AR205	Structural Analysis	NIL	Dr. L. Saikala	III
AR207	Building Construction and Materials - II	NIL	Dr. K. Thirumaran	III
AR209	Surveying and Site Planning	NIL	Dr. D. Kannamma	III
AR211	Architectural Design - III	Basic and Architectural Design - I & Architectural Design - II	Prof. G. Sangeetha	III
AR213	Model Making	NIL	Prof. Bellatrix Valdaris	III
SEMESTER V				
AR301	Architectural Acoustics	NIL	Prof. Amalan Sigmund Kaushik S	V
AR303	Design of R.C.C. Structures	NIL	Dr. L. Saikala	V
AR305	Lighting and Electrical Services	NIL	Dr. G. Subbaiyan	V
AR307	Building Construction and Materials -IV	NIL	Prof. K. Bhagyashri	V
AR309	Interior Design	NIL	Prof. S. Rajendra Babu	V
AR311	Architectural Design - IV	Architectural Design - III	Prof. Wilson Fredrick & Prof. Saurabh Kumar	V
Elective – I				
AR353	Graphic Design	NIL	Prof. Bellatrix Valdaris	V
	Global / Other Department Elective			V
SEMESTER VII				
AR402	Building Structural System	NIL	Dr. L. Saikala	VII
AR404	Energy Efficient Buildings	NIL	Prof. Amalan Sigmund Kaushik S	VII
AR406	Disaster Resistant Building Design and Management	NIL	Prof. Saurabh Kumar	VII
AR408	Urban Design	NIL	Dr. P. Gopalakrishnan	VII
AR410	Building Construction and Materials -VI	NIL	Dr. G. Subbaiyan	VII
AR412	Architectural Design -VI	Architectural Design-V	Prof. Amalan Sigmund Kaushik S & Prof. K. Bhagyashri	VII
Elective - III				
AR454	Environmental Control and Design Workshop	NIL	Dr.P.Gopalakrishnan	VII
AR456	Landscape Design	NIL	Dr. A. Meenatchisundaram	VII
	Global / Other Department Elective			VII
SEMESTER IX				
AR501	Building Bye-Laws and Codes of Practice	NIL	Dr. D. Kannamma	IX
AR503	Environment and Behavior	NIL	Dr. K. Premkumar	IX
AR505	Urban Planning	NIL	Prof. Wilson Fredrick	IX
AR507	Architectural Design - VII	Architectural Design -VI	Dr. K. Thirumaran	IX
AR509	Dissertation – I (Seminar)	NIL	Dr. G. Subbaiyan	IX
Elective - IV				
AR551	Sustainable Architecture	NIL	Dr. A. Meenatchisundaram	IX
AR553	Cost efficient Construction Techniques	NIL	Prof. Pudhuma Bharathi	IX
Elective - V				

AR561	Environmental Planning	NIL	Prof. Saurab Kumar	IX
Programme: B.Tech.				
Dept.: Chemical Engineering				
<b>1. GIR, ELR, CORE COURSES</b>				
Course Code	Course Name	Prerequisites	Name of the Faculty*	Semester
HSIR14	Professional Ethics	None	Humanities Dept	III
CLPC12	Process Calculations	None	Dr.M.Arivazhagan	III
CLPC13	Momentum Transfer	None	Dr.M.Perumalsamy	III
CLPC14	Chemical Engineering Thermodynamics	CLPC11	Dr.K.N.Sheeba	III
CLPC15	Chemical Technology	None	Dr.M.Matheswaran	III
CLLR11	Momentum Transfer Lab	CLPC13	Dr.M.Perumalsamy/ Dr.T.Sivasankar/ Dr. Jyoti Sahu	III
CLLR12	Instrumental Analysis and Thermodynamics Lab	CLPC14	Dr.K.N.Sheeba/ Dr.M.Arivazhagan/ Dr.Karthikeya Shukla	III
CLPC19	Chemical Reaction Engineering - 1	CLPC17	Dr.P.Sivashanmugam	V
CLPC20	Mass Transfer	CLPC15	Dr.T.Sivasankar	V
CLPC21	Heat Transfer	None	Dr.P.Kalaichelvi	V
CLPC22	Safety in Chemical Industries	CLPC16	Dr.Karthikeya Shukla	V
CLLR13	Particulate Science and Technology Laboratory	CLPC18, CLPC20	Dr. J. Sarat Chandra Babu/ Dr. A.Arunagiri/ Dr.Sourav Poddar	V
CLPC26	Biochemical Engineering	CLPC19	Dr. M.Arivazhagan	VII
CLPC27	Chemical Process Equipment Design	CLPC10,CLPC19, CLPC20, CLPC21	Dr. A.Arunagiri	VII
CLPC28	Project Engineering and Economics	CLPC16	Dr.G.Arthanareeswaran	VII
CLPC29	Transport Phenomena	CLPC14, CLPC20, CLPC21	Dr.N.Samsudeen	VII
CLIR16	Internship / Industrial Training / Academic Attachment		Dr.G.Arthanareeswaran	VII
CLIR18	Comprehensive Viva voce		Dr.M.Arivazhagan/ Dr.K.Muthukumar/ Dr. S.Saravanan	VII
CLLR16	Mass Transfer Laboratory	CLPC20, CLPC24	Dr. K.M. Meera S. Begum/ Dr. M. Matheswaran	VII
CLLR17	Process Dynamics and Control Laboratory	CLPC25	Dr. T.K.Radhakrishnan/ Dr. N. Samsudeen/ Dr.K.Sankar	VII
<b>2. PROGRAMME ELECTIVES</b>				
CLPE13	Polymer science and Technology	None	Dr.Sourav Poddar (PDF )	III
CLPE10	Petroleum and Petrochemical Engineering( PE)	None	Dr.K.Muthukumar	V
CLPE12	Industrial Process Biotechnology	None	Dr.Jyoti Sahu	V
CLPE18	Process intensification	CLPC21	Dr.K.Sankar	VII
<b>3. OPEN ELECTIVES</b>				
CLOE17	Design and Analysis of Experiments	None	Dr.V.Nagajyothi	VII
<b>4. MINOR COURSES (For B.Tech.)</b>				
CLMI11	Chemical Process Calculations	None	Dr.M.Arivazhagan	III
<b>5. HONOURS COURSES(For B.Tech.)</b>				
CLHO14	Applied Mathematics in Chemical Engineering	CLPC19, CLPC20, CLPC21	Dr.M.Matheswaran	VII
CLHO11	Advances in Fluidization Engineering		Dr. SARAT CHANDRA BABU	V
Programme:B.Tech.				
Dept.: Civil Engineering				
Course Code	Title of the Course		Faculty	Semester
<b>1. CORE COURSES</b>				
HSIR13	Industrial Economics and Foreign Trades		New Faculty	III
CEPC11	Mechanics of Solids	CEPC10	Sec A: Dr. Greegar George, Sec B: Dr. Mashudha Sulthana	III
CEPC12	Hydraulics and Fluid Machinery		Sec A: Dr. Raghavan R/ Dr. R. Manjula	III
CEPC13	Concrete Technology		Sec A: Dr. J. Karthikeyan, Sec B: Dr. Prabha Mohandoss	III
CEPC14	Surveying		Sec A: Dr. G. Swaminathan, Sec B: Dr. Nisha Radhakrishnan	III
CELR11	Strength of Materials and Concrete Laboratory		Sec A: Dr. Greegar George, Sec B: Dr. Kamalkrishna Bera	III

CELR12	Survey Laboratory		Sec A: Dr. O. Darshana, Sec B: Dr. Prabha Mohandoss	III
CEPC20	Highway and Pavement Engineering		Dr. V. Sunitha & Dr. S. Marisamynathan	V
CEPC21	Analysis of Indeterminate Structures	CEPC16	Dr. K. Baskar	V
CEPC22	Basic Reinforced Concrete Design		Dr. Raghavan R	V
CEPC23	Geotechnical Engineering II	CEPC19	Dr. Jeevan Joseph	V
CELR13	Environmental Engineering Laboratory		Dr. Uma Sakthi	V
CELR14	Geotechnical Engineering Laboratory		Sec A: Dr. R. Deendayal, Sec B: Dr. Jeevan Joseph	V
HSIR14	Professional Ethics		New Faculty	VII
CEPC27	Advanced Steel Structural Elements	CEPC24	Dr. R. Senthilkumar	VII
CEPC29	Irrigation and Hydraulic Engineering	CEPC17	Dr. S. Saravanan	VII
CEIR18	Comprehensive Viva		Dr. Raghavan R	VII
CEIR16	Internship / industrial training / academic attachment		Dr. J. Karthikeyan	VII
CELR19	Estimation, Costing and Valuation		Dr. Aneesh Mathew	VII
<b>2. PROGRAMME ELECTIVES</b>				
CEPE10	Construction Techniques and Equipment		Dr. K. Nandhini	III
CEPE11	Elementary Structural Dynamics	CEPC10	Dr. P. A. Krishnan	V
CEPE32	Geodetic Surveying	CEPC14	Dr. Nisha Radhakrishnan	V
CEPE12	Maintenance and Rehabilitation of Structures	CEPC15	Dr. Prabha Mohandoss	V
CEPE24	Environmental Management and Impact Assessment	CEPC18	Dr. Uma Shakti	V/VII
CEPE14	Structural System Analysis	CEPC25	Dr. Greegar George	VII
CEPE21	Transportation Planning	CEPC20	Dr. O. Darshana	VII
CEPE28	Geotechnical Earthquake Engineering	CEPC23	Dr. S. Jayalekshmi	VII
CEPE37	Simulation Modelling for Water Resources Engineering		Dr. R. Manjula	VII
<b>3. HONORS</b>				
CEHO24	Advanced Remote Sensing Techniques	CEPC14	Dr. S. Saravanan	V/VII
CEHO17	Soil Dynamics and Machine Foundations	CEPC23	Dr. K. Muthukkumaran	V/VII

**Programme: B.Tech.**

**Dept.: Computer Science Engineering**

<b>1. GIR, ELR, CORE COURSES</b>				
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>Prerequisites</b>	<b>Name of the Faculty</b>	<b>SEMESTER</b>
MAIR31	Probability and Operations Research		Maths Department	III
CSPC31	Principles of Programming languages	None	Dr. A. Santhana Vijayan (A)/ Dr. R. Bala Krishnan (B)	III
CSPC32	Data Structures	None	Dr. R. Mohan (A)/ Dr. B. Nithya (B)	III
CSPC33	Digital systems design	None	Dr. R. Leela Velusamy (A)/ Dr. B. Shameedha Begum (B)	III
CSPC34	Computer Organization	None	Dr. C. Mala (A)/ Dr. S. Jaya Nirmala (B)	III
CSLR31	Data structures laboratory	CSPC32	Dr. P. Kumaran (A)/ Dr. B. Nithya (B)/ Dr. R. Bala Krishnan (B)	III
CSLR32	Digital laboratory	CSPC33	Dr. K. Sitara (A)/ Dr. S. Jaya Nirmala (B)/ Dr. A. Saraswathi Priyadarshini (B)	III
CSPC31	Computer Architecture	CSPC24	Dr. N. Ramasubramanian (A)/ Dr. B. Shameedha Begum (B)	V
CSPC32	Internetworking Protocols	CSPC27	Dr. S. Mary Saira Bhanu (A) / Dr. B. Nithya (B)	V
CSPC33	Database Management Systems	None	Dr. E. Sivasankar (A)/ Dr. M. Brindha (B)	V
CSPC34	Software Engineering	None	Dr. R. Mohan (A)/ Dr. Chandramani Chaudhary (B)	V
CSLR31	Network Programming Laboratory	CSPC32	Dr. Chandramani Chaudhary (A)/ Dr. M. Sridevi (B)/ Dr. M. Sai Krishna (B)	V
CSLR32	Database Management Systems Laboratory	CSPC33	Dr. E. Sivasankar (A)/ Dr. M. Brindha (B)/ Dr. P. Kumaran (B)	V
HSIR13	Industrial Economics And Foreign Trade	None		VII
CSPC41	Principles Of Compiler Design	CSPC28	Dr. Rajeswari Sridhar (A)/ Dr. P. Kumaran (B)	VII
CSIR16	Internship / industrial training / academic attachment			VII
CSIR18	Comprehensive Viva-Voce	None	Dr. A. Santhana Vijayan (A)/ Dr. Kamalika Bhattacharjee (B)	VII
<b>2. PROGRAM ELECTIVES</b>				

CSPE32	Combinatorics and Graph Theory	CSPC11	Dr. K. Viswanathan Iyer (A,B)	III
CSPE21	Machine Learning	CSPC25	Dr. Rajeswari Sridhar (A,B)	V
CSPE12	Design and Analysis of Parallel algorithms	CSPC29	Dr. M. Sridevi (A,B)	V
CSPE28	Data Sciences	CSPC33, CSPE14	Dr. R. Bala Krishnan (A,B)	VII
CSPE18	Advanced Cryptography	CSPC35	Dr. Kunwar Singh (A,B)	VII
CSPE17	Advanced Database Management Systems	CSPC33, CSPE14	Dr. M. Brindha (A,B)	VII
CSPE29	Cloud Computing and Architecture	CSPC27	Dr. S. Jaya Nirmala (A,B)	VII
3. MINOR				
CSMI12	Computer Organization	None	Dr. Kamalika Bhattacharjee	V
CSMI14	Database Management System	None	Dr. A. Saraswathi Priyadharshini	V
CSMI17	Data Communications and Networks	None	Dr. M. Sai Krishna	VII
4. OPEN ELECTIVES				
CSOE17	Big Data Analytics	CSMI14	Dr. Chandramani Chaudhary	V, VII
5. HONOURS COURSES				
CSHO17	Soft Computing	CSPC25		V & VII

Programme : B.Tech.

Specialization : Electrical and Electronics Engineering

1. GIR, ELR, CORE COURSES				
Course Code	Course Name	Prerequisites	Name of the Faculty	Semester
MAIR32	MATHEMATICS - III	MAIR21	Faculty from Mathematics	III Semester (A)
MAIR32	MATHEMATICS - III	MAIR21	Faculty from Mathematics	III Semester (B)
EEPC11	NETWORKS AND LINEAR SYSTEMS	EEPC10	Dr. Karthik Thirumala	III Semester (A)
EEPC11	NETWORKS AND LINEAR SYSTEMS	EEPC10	Dr. Ankur Singh Rana	III Semester (B)
EEPC13	ELECTRON DEVICES	-	Dr. M Sahoo	III Semester (A)
EEPC13	ELECTRON DEVICES	-	Dr. Shelas Sathyan	III Semester (B)
EEPC12	DC MACHINES AND TRANSFORMERS	EEPC10	Dr. P. Raja	III Semester (A)
EEPC12	DC MACHINES AND TRANSFORMERS	EEPC10	Dr. S. Senthil Kumar	III Semester (B)
EEPC14	DIGITAL ELECTRONICS	-	Dr.S.Mageshwari	III Semester (A)
EEPC14	DIGITAL ELECTRONICS	-	Dr. S. Moorthi	III Semester (B)
EELR10	CIRCUITS AND DIGITAL LAB	EEPC10	Dr.S.Mageshwari	III Semester (A)
EELR10	CIRCUITS AND DIGITAL LAB	EEPC10	Dr. S. Moorthi	III Semester (B)
EELR11	DC MACHINES AND TRANSFORMERS LAB	EEPC12	Dr. P. Raja	III Semester (A)
EELR11	DC MACHINES AND TRANSFORMERS LAB	EEPC12	Dr. S. Senthil Kumar	III Semester (B)
EEPC13	DATA STRUCTURES AND ALGORITHMS	CSIR11	Mr. Rakesh Kumar	V Semester (A)
EEPC13	DATA STRUCTURES AND ALGORITHMS	CSIR11	Dr. S. Sudha	V Semester (B)
EEPC17	LINEAR INTEGRATED CIRCUITS	EEPC11	Dr. G.Saravana Ilango	V Semester (A)
EEPC17	LINEAR INTEGRATED CIRCUITS	EEPC11	Dr. N. Ammasai Gounden	V Semester (B)
EEPC20	CONTROL SYSTEMS	MAIR32	Dr. Vivek Mohan	V Semester (A)
EEPC20	CONTROL SYSTEMS	MAIR32	Dr. V. Sankarnarayanan	V Semester (B)
EEPC25	POWER SYSTEM ANALYSIS	MAIR42, EEPC16	Dr. Arul Daniel	V Semester (A)
EEPC25	POWER SYSTEM ANALYSIS	MAIR42, EEPC16	Dr.M. Jaya Bharata Reddy	V Semester (B)
EELR13	INTEGRATED CIRCUITS LABORATORY	EEPC17	Dr. G.Saravana Ilango	V Semester (A)
EELR13	INTEGRATED CIRCUITS LABORATORY	EEPC17	Dr. Aneesa Farhan	V Semester (B)
EELR17	POWER SYSTEMS LABORATORY	EEPC25	Dr. Arul Daniel & Mr. Sreenu Sreekumar	V Semester (A)
EELR17	POWER SYSTEMS LABORATORY	EEPC25	Dr.M. Jaya Bharata Reddy	V Semester (B)
EEPC27	COMMUNICATION SYSTEMS	EEPC15, EEPC19	Dr. Hemant Kumar, ECE	VII Semester (A)
EEPC27	COMMUNICATION SYSTEMS	EEPC15, EEPC19	Mrs. B. R. Mounika, PDF, ECE	VII Semester (B)
HSIR13	INDUSTRIAL ECONOMICS AND FOREIGN TRADE	-	Faculty from Humanities	VII Semester (A)

HSIR13	INDUSTRIAL ECONOMICS AND FOREIGN TRADE	-	Faculty from Humanities	VII Semester (B)
EEIR16	INTERNSHIP / INDUSTRIAL TRAINING / ACADEMIC ATTACHMENT			VII
EEIR18	COMPREHENSIVE VIVA-VOCE EXAMINATION			VII
<b>2. PROGRAMME ELECTIVES</b>				
EEPE10	POWER GENERATION SYSTEMS	-	Dr. Ankur Singh Rana	B.Tech III SEM
EEPE11	ELECTRICAL SAFETY	-	Mr. Sreenu Sreekumar	B.Tech III SEM
EEPE25	UTILIZATION OF ELECTRICAL ENERGY	EEPC18	Dr. Josephine R. L.	B.Tech V SEM
EEPE24	DESIGN OF ELECTRICAL APPARATUS	EEPC18	Dr. Naveen Yalla	B.Tech V SEM
EEPE23	EHV AC AND DC TRANSMISSION	EEPC16	Dr. Ashok Kumar	B.Tech V SEM
EEPE41	POWER SYSTEM ECONOMICS AND CONTROL TECHNIQUES	EEPC25	Dr. M.P. Selvan	B.Tech VII SEM
EEPE33	SOLID STATE DRIVES	EEPC18, EEPC21	Dr. Pinkymol	B.Tech VII SEM
EEPE40	MODERN OPTIMIZATION TECHNIQUES FOR ELECTRIC POWER SYS	EEPC25	Dr. Kayalvizhi	
<b>3. OPEN ELECTIVES</b>				
EEOE18	CONTROL SYSTEMS ENGINEERING	-	Dr. P. Srinivasa Rao Nayak	B.Tech V SEM
EEOE19	ANALOG AND DIGITAL ELECTRONICS	-	Dr.S.Mageshwari	B.Tech VII SEM
<b>4. MINOR COURSES (For B.Tech.)</b>				
EEMI10	BASICS OF ELECTRICAL CIRCUITS	-	Dr. M. Venkata Kirthiga	B.Tech III SEM
EEMI12	CONTROL SYSTEMS ENGINEERING	-	Dr. P. Srinivasa Rao Nayak	B.Tech V SEM
EEMI13	ANALOG AND DIGITAL ELECTRONICS	EEMI10	Dr.S.Mageshwari	B.Tech VII SEM
<b>5. HONOURS COURSES(For B.Tech.)</b>				
EEHO11/EEPE23	EHV AC AND DC TRANSMISSION	EEPC16	Dr. Ashok Kumar	B.Tech V SEM
EEHO21/EEPE41	POWER SYSTEM ECONOMICS AND CONTROL TECHNIQUES	EEPC25	Dr. M.P. Selvan	B.Tech VII SEM

Programme: B. Tech.

Dept.: Electronics & Communication Engineering

<b>1. GIR, ELR, CORE COURSES</b>				
Course Code	Course Name	Prerequisites	Name of the Faculty	Semester
MAIR33	REAL ANALYSIS AND PROBABILITY THEORY	None	Maths Department	III
ECPC10	Signals and System	None	Dr. P. Palanisamy (A), Dr. S. Deivalekshmi(B)	III
ECPC11	Network Analysis and Synthesis	None	Dr. Patil Ashish Anand Rao (A), Dr. R. Pandeewari (B)	III
ECPC12	Electrodynamics & Electromagnetic Waves	None	Dr. P. MuthuChidambaranathan (A), Dr. Hemant Kumar (B)	III
ECPC14	Digital Circuits and Systems	None	Dr. G. Lakshminarayanan (A), Prof. R. Thilagavathy (B)	III
ECLR10	Devices & Network Laboratory	None	Prof. R. K. Kavitha (A), Dr. Patil Ashish Anand Rao (B)	III
ECLR11	Digital Electronics Laboratory	None	Dr. G. Thavasi Raja (A), Dr. R. Malmathanraj (B)	III
ECPC19	Statistical Theory of Communication	MAIR34	Dr. E. S. Gopi (A), Dr. Varun P. Gopi (B)	V
ECPC20	Digital Signal Processors and Applications	ECPC15	Dr. M. Bhaskar(A, B)	V
ECPC21	Analog Communication	ECPC10	Dr. N. Gunavathi (A), Dr. B. Malarkodi (B)	V
ECPC22	Antennas & Propagation	ECPC12	Dr. D. Sriramkumar (A, B)	V
ECPC23	Analog Integrated Circuits	ECPC17	Dr. P. Maheswaran (A), Dr. S. S. Karthikeyan (B)	V
ECLR14	Analog Integrated Circuits Laboratory	None	Dr. S. Deivalekshmi(A), Mrs. Reddy MounikaBommisetty (B)	V
ECLR15	Digital Signal Processing and Simulation Laboratory	None	Dr. M. Bhaskar(A), Dr. P. Sudharsan (B)	V
HSIR13	Industrial Economics and Foreign Trade		Dr. Nagasubramanian, Dept. of Humanities	VII
ECPC27	Wireless Communication	None	Dr. B. Rebekka (A), Dr. V. Sudha (B)	VII
ECPC28	FiberOptic Communication	ECPC12 & ECPC21	Dr. G. Thavasi Raja (A, B)	VII
ECPC29	Microwave electronics	ECPC25	Dr. R. K. Jeyachitra (A), Dr. C. Elavarasi (B)	VII
ECLR 18	Fiber Optic Communication laboratory	None	Dr. R. K. Jeyachitra (A), Dr. Hemant Kumar (B)	VII
ECLR19	Microwave Laboratory	None	Dr. N. Gunavathi (A), Dr. C. Elavarasi(B)	VII
ECIR16	INTERNSHIP / INDUSTRIAL TRAINING			VII
ECIR18	COMPREHENSIVE VIVA			VII

<b>2. PROGRAMME ELECTIVES</b>				
ECPE20	Digital Speech Processing	None	Dr. P. Sudharsan (A, B)	V & VII
ECPE22	Pattern Recognition	None	Dr. E. S. Gopi (A, B)	V & VII
ECPE10	Networks and Protocols	None	Dr. B. Rebekka (A) Dr. P. Sudharsan (B)	III
ECPE11	Satellite Communication	ECPC24	Dr. P. Maheswaran (A, B)	VII
<b>3. OPEN ELECTIVES</b>				
ECOE15	Pattern Recognition	None	Dr. E. S. Gopi	V&VII
<b>4. MINOR COURSES (For B.Tech.)</b>				
ECMI10	Signals and Systems	None	Dr.S. Deivalekshmi	III
ECMI17	Electronic Circuits	ECMI13	Dr.R.Malmathanraj	V
ECMI27	Wireless Communication	ECMI24	Dr.P.Muthu Chidambara Nathan	VII
<b>5. HONOURS COURSES (For B.Tech.)</b>				
ECHO10	Advanced Digital signal processing	ECPC15	Dr. P. Palanisamy	V & VII
ECHO30	DSP for Medical Imaging	ECPC15	Dr. Varun P. Gopi	V
ECHO19	Analog IC Design	ECPC23	Dr. B. Venkataramani	VII

**Programme : B.Tech.**

**Dept: Instrumentation and Control Engineering**

<b>1. GIR, ELR, CORE COURSES</b>				
Course Code	Course Name	Prerequisites	Name of the Faculty*	Semester
MAIR34	Probability and Distribution Theory		Dr.V.Dinakaran(PDF)-Maths(A-section)	III
MAIR34	Probability and Distribution Theory		Dr.Sivanesan-Maths(B-section)	III
ICPC12	Circuit Theory		Dr. Geetha C (A-section)	III
ICPC12	Circuit Theory		Dr. S. Narayanan (B-section)	III
ICPC13	Sensors and Transducers		Dr. G. Uma ( A-section)	III
ICPC13	Sensors and Transducers		Dr. M. Umapathy (B-section)	III
ICPC14	Digital Electronics		Ms. V. Sridevi (A-section)	III
ICPC14	Digital Electronics		Dr. D. Ezhilarasi (B-section)	III
ICPC15	Signals and Systems		Dr. D. Ezhilarasi ( A-section)	III
ICPC15	Signals and Systems		Dr. A. Ramakalyan (B-section)	III
ICLR10	Thermodynamics and Fluid Mechanics Laboratory		Dr.Vijayan(PDF)- Mechanical (A-section )	III
ICLR10	Thermodynamics and Fluid Mechanics Laboratory		Dr.Vijayan(PDF)- Mechanical ( B section)	III
ICLR11	Circuits and Digital Laboratory		Dr. Geetha C (A-section)	III
ICLR11	Circuits and Digital Laboratory		Dr.Pravin (PDF) (B section)	III
ICPC19	Electrical and Electronic Measurements		Dr.R.Periyasamy (A-section)	V
ICPC19	Electrical and Electronic Measurements		Dr.Geetha C (B-Section)	V
ICPC21	Control System – I		Dr K Dhanalakshmi (A-section)	V
ICPC21	Control System – I		Dr. K. Srinivasan (B-Section)	V
ICPC22	Instrumentation Practices in Industries		Dr. B. Vasuki (A-section )	V
ICPC22	Instrumentation Practices in Industries		Dr. B. Vasuki (B section)	V
ICPC23	Principles of Communication Systems		D.N.Gunavathi -ECE (A-section)	V
ICPC23	Principles of Communication Systems		Dr.V.Sudha -ECE (B section)	V
ICLR14	Instrumentation Laboratory		Dr.R.Periyasamy (A-section)	V
ICLR14	Instrumentation Laboratory		Dr. PA. Karthick (B-Section)	V
ICLR15	Microprocessors and Microcontrollers Laboratory		Dr. D. Ezhilarasi and Dr.Shiraz Sohail (A-section)	V
ICLR15	Microprocessors and Microcontrollers Laboratory		Ms. V. Sridevi (B-Section)	V
ICPC27	Product Design and Development (Practice)		Prof Goldin R Bennet (A-section )	VII
ICPC27	Product Design and Development (Practice)		Prof Goldin R Bennet ( B section)	VII
ICPC28	Analytical Instrumentation		Dr. PA. Karthick (A-section)	VII

ICPC28	Analytical Instrumentation		Dr. Gopi Krishnan (PDF) (B section)	VII
ICPC29	Logic and Distributed Control System		Dr. N. Sivakumaran (A-section)	VII
ICPC29	Logic and Distributed Control System		Dr. S. Narayanan (B section)	VII
HSIR13	Industrial Economics and Foreign Trade		Dr.Padmaja- Humanities (A-section)	VII
HSIR13	Industrial Economics and Foreign Trade		Dr.Padmaja- Humanities (B section)	VII
ICLR17	Industrial Automation and Process Control Laboratory		Dr. N. Sivakumaran (A-section)	VII
ICLR17	Industrial Automation and Process Control Laboratory		Dr. K. Srinivasan (B section)	VII
ICIR16	INTERNSHIP / INDUSTRIAL TRAINING / ACADEMIC ATTACHMENT			VII
ICIR18	Comprehensive Viva- Voce Examination		Dr. G. Uma (A-section )	VII
ICIR18	Comprehensive Viva- Voce Examination		Dr. G. Uma ( B section)	VII
<b>2. PROGRAMME ELECTIVES</b>				
ICPE52	Electron Devices and Circuits		Dr.Shiraz Sohail	III
ICPE53	Data Structures and Algorithms		Dr.M.Sridevi -CSE	III
ICPE11	Medical Instrumentation		Dr.R.Periyasamy	V
ICPE31	Power Electronics		Swayam online	V
ICPE30	Digital Signal Processing (DSP)		Dr.PA Karthick	V
ICPE13	Automotive Instrumentation		Dr.Shiraz Sohail	V
ICPE12	Micro Electro Mechanical Systems (MEMS)		Dr. Pravin (PDF)	VII
ICPE34	Digital Image Processing		Swayam online	VII
ICPE41	Internet of Things System Design		Swayam online	VII
ICPE45	Robotics		Swayam online	VII
<b>3.OPEN ELECTIVES NIL</b>				
<b>4. MINOR COURSES (For B.Tech.)</b>				
ICMI10	Transducer Engineering		Dr. M. Umamathy / Dr. G. Uma	III
<b>5.HONOURS COURSES (For B.Tech.)</b>				
ICHO16	Electronics for Sensor Design		Dr.Shiraz Sohail	V
ICHO15	Optimal and Robust Control		Dr.A.Ramakalyan	VII

**Programme: B.Tech.**

**Dept.: Mechanical Engineering**

<b>1. GENERAL INSTITUTE REQUIREMENTS (GIR) COURSES</b>				
Course Code	Course Name	Pre-requisites	Name of the Faculty	Semester
HSIR13	Industrial Economics and Foreign Trade	-NIL-	Humanities Department	III
HSIR14	Professional Ethics	-NIL-	Humanities Department	VII
MEIR16	Summer Internship	-NIL-	HOD/Department	VII
MEIR18	Comprehensive viva	-NIL-	Prof. SS. Arulappan / Dr. Vignesh	VII
<b>2. CORE COURSES</b>				
MEPC11	Engineering Thermodynamics	-NIL-	Dr. M. Udayakumar / Dr. S. Venkatachalapathy	III
MEPC12	Strength of Materials	-NIL-	Dr. N. Siva Shanmugam / Dr. R Prakash	III
MEPC13	Applied Electrical and Electronics Engineering	EEIR11	Dr. Kayalvizhi / Dr. Naveen Yella	III
MEPC14	Fluid Mechanics and Machines	-NIL-	Dr. R B Anand / Dr. P. Kaushik	III
MEPC20	Engineering Materials	-NIL-	Dr. N Ashok Kumar / Dr. Raghuram	V
MEPC22	Heat and Mass Transfer	MEPC11	Dr. S Suresh / Dr. S. Vedharaj	V
MEPC23	Mechanics of Machines – II	MEPC17	Dr. G. Rajasekaran / Dr. Sreejith Mohan	V
MEPC24	Analysis and Design of Machine Components	MEPC12	Prof. SS. Arulappan / Dr. Nivish George	V
MEPC28	Power Plant Engineering	MEPC21	Dr. AR. Veerappan	VII
MEPC21	Turbo machines	MEPC18	Dr. T. Suthakar (visiting faculty)	VII
<b>3. PROGRAMME ELECTIVES</b>				
MEPE35	Computer Aided Design and Drafting	MEIR12	Dr. Nanda Naik Korra	III



MEPE40	Operations Research	-NIL-	Dr. Bishweshwar Babu	III
MEPE10	Compressible flow and jet propulsion	MEPC18	Dr. T. Suthakar (visiting faculty)	V
MEPE12	Advanced IC engines	MEPC16	Dr. V. Arul Mozhi Selvan	V
MEPE26	Mechatronics	MEPC13	ICE Department	V
MEPE25	Industrial Robotics	MEPC13	Dr. Krishna Mohan Kumar	VII
MEPE19	Vehicle dynamics	MEPC25	Dr. Bishweshwar Babu	VII
<b>4. ESSENTIAL PROGRAMME LABORATORY REQUIREMENT</b>				
MELR11	Strength of Materials and Fluid Mechanics and Machines Laboratory	-NIL-	Dr. R B Anand / Dr. Vijayan	III
MELR12	Computer Aided Machine Drawing	-NIL-	Dr. T Ramesh / Dr. Vignesh	III
MELR22	Thermal Engineering Lab II	-NIL-	Dr. M. Udayakumar / Dr. Venkatesh	V
MELR15	Dynamics Lab	-NIL-	Dr. Vignesh	V
<b>5. OPEN ELECTIVES</b>				
MEOE16	Cryogenic Engineering	-NIL-	Dr. V Mariappan	V, VII
<b>6. MINOR ELECTIVES</b>				
MEM11	Fundamentals of Thermal Engineering	-NIL-	Dr. R Anand	III, V, VII
<b>7. HONOURS COURSE</b>				
MEHO16	Design and Optimization of Thermal Energy systems	MEPC16	Dr. V Mariappan	V, VII

**Programme : B.Tech.**

**Dept.: MME**

III Semester				
Code	Subject Name	Pre-requisites	Faculty Name	Semester
HSIR13	Industrial Economics and Foreign Trades	NIL	Humanities	III
MTPC11	Metallurgical Thermodynamics and kinetics	NIL	Dr. D. Nagarajan	III
MTPC12	Physical Metallurgy	NIL	Dr. A. Muthuchamy	III
MTPC13	Electrical, Electronic and Magnetic Materials	NIL	New Faculty - I/ Prof. S. Kumaran	III
MTPC14	Polymers, Composites and Ceramics	NIL	Dr. V. Suriyanarayanan	III
MTLR30	Process Metallurgy Laboratory	NIL	Dr. V. Karthik & New Faculty - II	III
MTLR31	Polymers, Composites and Ceramics Laboratory	MTPC14	Dr. V. Karthik	III
	<b>Elective – I (PE/OE)</b>			III
<b>Programme Elective</b>				
MTPE01	Mineral Processing and Metallurgical analysis	NIL	Dr. Nimu Chand Reger	III
<b>Open Elective</b>				
MTOE10	Nanomaterials and Applications	NIL	New Faculty - I/ Prof. S. Kumaran	III
(V Sem –2018Curriculum)				
MTPC19	Metal Casting Technology	NIL	Prof.S.P.Kumaresh Babu	V
MTPC20	Materials Joining Technology	NIL	Dr. S. Jerome	V
MTPC21	Iron Making and Steel Making	MTPC13, MTPC17	Prof. S. Raman Sankaranarayanan	V
MTPC23	Mechanical Behavior of Materials	MTPC11, MTPC15	Dr. K. Sivaprasad	V
	<b>Elective – Program elective</b>			V
	<b>Elective – Program/Open Elective</b>			V
	<b>Elective – Minor/Open Elective</b>			V
MTLR33	Foundry and Welding Lab	MTPC19, MTPC20	Dr. S. Jerome	V
MTLR34	Materials Testing Lab	MTPC23	Prof. B. Ravisankar & Dr. Nimu Chand Reger	V
<b>Programme Electives</b>				
MTPE 02	Special Steel and Cast Irons	MTPC18	Dr. D. Nagarajan	V, VII
MTPE 11	Ceramic Materials	NIL	Dr. N. Ramesh Babu	V, VII
MTPE 15	Automotive Materials	MTPC15	Prof. S. Muthukumar	V, VII

MTPE27	Stainless Steels and Advanced Ferrous Alloy	NIL	Prof. S. Raman Sankaranarayanan	V, VII
<b>Open Electives</b>				
MTOE12 (VII Sem) /	Introduction to Computational Techniques (VII Sem) & Computational Techniques (V Sem)	NIL	Dr. V. Karthik	V, VII
MTOE13/ 44	Design and Selection of Materials	NIL	Prof. B. Ravisankar	V, VII
MTOE17/ 48	Nanomaterials and Applications	NIL	New Faculty - II / Prof. S. Kumaran	V, VII
<b>Honors Elective</b>				
MTHO13	Aerospace materials	NIL	Prof. V. Muthupandi	V, VII
<b>(VII Semester –2017 Curriculum)</b>				
Code	Subject Name			
HSIR14	Professional Ethics	NIL	Humanities	VII
MTPC28	Corrosion Engineering	NIL	Prof. S. Natarajan	VII
MTPC29	Testing and Characterization of Materials	NIL	Prof. V. Muthupandi	VII
	Elective – Program elective			VII
	Elective – Program/Open Elective			VII
	Elective – Minor/Open Elective			VII
MTIR16	INTERNSHIP / INDUSTRIAL TRAINING / ACADEMIC ATTACHMENT			VII
MTIR18	Comprehensive Viva	NIL	Prof. B. Ravisankar	VII
MTLR17	Corrosion and Surface Engineering Laboratory	MTPC28	Prof. S.P.Kumaresh Babu & New Faculty - I	VII
<b>Programme : B.Tech.</b>				
<b>Dept : Production Engineering</b>				
<b>GIR, ELR, CORE COURSES</b>				
<b>SUBJECT CODE</b>	<b>SUBJECT NAME</b>	<b>Prerequisites</b>	<b>Faculty Name &amp; Sections</b>	<b>Semester</b>
PRPC11	Casting and Welding Technology	-	Dr.D.Lenin Singaravelu, (A)	III
PRPC11	Casting and Welding Technology	-	Dr.P.Sathiya, (B)	III
PRPC12	Metallurgy and Materials Engineering	-	Dr.C.Sathiya Narayanan, (A)	III
PRPC12	Metallurgy and Materials Engineering	-	Dr.Matruprasad Rout, (B)	III
PRPC13	Fluids and Thermal Engineering	-	Mechanical Engg., A & B-Prod	III
PRPC14	Forming and Machining Technology	-	Dr.V.Senthilkumar, (A)	III
PRPC14	Forming and Machining Technology	-	Dr.Vineet Kumar Yadav, (B)	III
PRLR10	Manufacturing Processes Lab.	-	Dr.Vineet Kumar Yadav, A & B-Prod	III
PRLR11	Weldability and Formability Lab.	-	Dr.P.Sathiya, A & B-Prod	III
HSIR13	Industrial Economics and Foreign Trades	-	Dr.P.Baranitharan-PDF-3, A & B-Prod	III
PRPC20	Design of Machine Elements	-	Dr.Prakash Kumar, A & B	V
PRPC21	Tooling for Manufacturing	-	Dr.S.Kumanan, A	V
PRPC21	Tooling for Manufacturing	-	Dr.V.Satheeshkumar, B	V
PRPC22	Quality, Reliability and Safety Engineering	-	Dr.Santosh Mishra, A & B	V
PRPC23	Computer Integrated Manufacturing (Theory and Lab)	-	Dr.J.Jerald, A	V
PRPC23	Computer Integrated Manufacturing (Theory and Lab)	-	Dr.T.Selvaraj, B	V
PRLR14	Machine Drawing Practice	-	Dr.Santosh Mishra, A	V
PRLR14	Machine Drawing Practice	-	Dr.V.Satheeshkumar, B	V
HSIR14	Professional Ethics and Psychology	-	Humanities and Social Sciences, A & B	V
PRPC28	Analysis of Production Systems and IE Lab	-	Dr.P.Asokan, A	VII
PRPC28	Analysis of Production Systems and IE Lab	-	Dr.A.Noorul Haq, B	VII
PRPC29	Manufacturing System Simulation (Theory and Lab)	-	Dr.S.PrasannaVenkatesan, A & B	VII
PRIR16	Internship / Industrial Training / Academic Attachment	-	Dr.C.Sathiya Narayanan, A & B	VII
PRIR18	Comprehensive Viva	-	Dr.C.Sathiya Narayanan, A & B	VII

PRIR19	Industrial Lecture	-	Dr.C.Sathiya Narayanan, A &B	VII
<b>PROGRAMME ELECTIVES</b>				
PRPE40	Numerical Methods for Engineers(2019-batch-Elective 1)	-	Mathematics Dept.	III
PRPE 11	Product Development Strategies (2019-batch-Elective 1)		Dr.Varadha Rajulu-PDF-2	III
PRPE10	Unconventional Machining Processes (Elective 1&2)	-	Dr.K.Anand Babu-PDF-4	V
PRPE25	Product Development Strategies (Elective 1&2)	-	Dr.Varadha Rajulu-PDF-2	V
PRPE15	Industrial Robotics (Elective 1&2)		Dr.T.Selvaraj	V
PRPE38	Supply Chain Management(Elective 6&7)	-	Dr.P.Parthiban	VII
<b>OPEN ELECTIVES</b>				
PROE10	Operations Management(Open Elective-1) (Elective 6&7)	-	Dr.Bhuvaneskumar -PDF-5	VII
<b>MINOR COURSES (For B.Tech.)</b>				
PRMI12	Unconventional Manufacturing Processes(minor-2)	-	Dr.K.Anand Babu-PDF-4	V
PRMI14	Quality Engineering(minor-4)	-	Dr.A.Noorul Haq	VII
<b>HONOURS COURSES (For B.Tech.)</b>				
PRHO17	Product Life Cycle Management (HO1)	-	Dr.Varadha Rajulu-PDF-2	V
<b>Programme: B.Tech.</b>				
<b>Course offering Dept.: Chemistry</b>				
<b>MINOR COURSES (For B.Tech.)</b>				
<b>Course Code</b>	<b>Course Name</b>	<b>Prerequisites</b>	<b>Name of the Faculty</b>	<b>Semester</b>
CHMI23	Polymer Chemistry		Dr.V.M.Biju	III, V, VII
CHMI13	Spectroscopy of Organic compounds		Dr.Sarthak Mandal	III, V, VII
<b>Programme: B.Tech.</b>				
<b>Course offering Dept.: DEEE</b>				
<b>1. MINOR COURSES (For B.Tech.)</b>				
<b>Course Code</b>	<b>Course Name</b>	<b>Prerequisites</b>	<b>Name of the Faculty</b>	<b>Semester</b>
ENMI11	POWER PLANT ENGINEERING		Dr. V M JAGANNATHAN/ HoD DEE/(VF)	V
ENMI13	ENERGY AUDIT AND MANAGEMENT		Dr.M.PREMALATHA/ Dr.S.KALAISELVAN (Post-doc. Fellows, DEE)	VII
<b>Programme: B.Tech.</b>				
<b>Course offering Dept.: Management Studies</b>				
<b>MINOR COURSES (For B.Tech.)</b>				
<b>Course Code</b>	<b>Course Name</b>	<b>Prerequisites</b>	<b>Name of the Faculty</b>	<b>Semester</b>
MBMI12	Marketing Management	-	Dr. B Janarthanan, Dr. I Rajesh and 1 PDF Scholar	V
MBMI13	Human Resource Management	-	Dr. Shobitha Poulouse, Dr. Manji Mahipalan and 1 PDF Scholar	VII
<b>Programme: B.Tech.</b>				
<b>Course offering Dept.: Humanities and Social Sciences</b>				
<b>Course Code</b>	<b>Course Name</b>	<b>Prerequisites</b>	<b>Name of the Faculty</b>	<b>Semester</b>
HSMI20	THE PROFESSIONAL ENTREPRENEUR			VII
HSMI25	Introduction To Graphic Narratives And Comic Culture			V
HSEO11	Creative writing through literature			VII
HSMI10	Basic Econometrics			V
HSMI11	Applied Game Theory			VII
HSEO13	Entrepreneurship Development			V, VII
<b>Programme: B.Tech.</b>				
<b>Course offering Dept.: Physics</b>				
<b>Course Code</b>	<b>Course Name</b>	<b>Prerequisites</b>	<b>Name of the Faculty</b>	<b>Semester</b>
PHMI13	SOLID STATE PHYSICS		Dr. R. Nagalakshmi	V, VII