

UNIVERSITY OF CALICUT
(Pareeksha Bhavan)

**TIME TABLE FOR THE SECOND SEMESTER M.TECH. ENGINEERING
REGULAR (INTERNAL) EXAMINATION– JULY 2013**

Time of Examination : 9.30 am to 12.30 pm

Maximum Marks : 100 each

1) COMPUTER SCIENCE AND ENGINEERING

Centre of Examination : 1. MES College of Engineering , Kuttippuram
2. Nehru College of Engineering & Research Centre, Pampady
3. KMCT College of Engineering , Mukkom
4. Vidhya Academy of Science & Technology, Thalakkottukara
5. Vedavyasa Institute of Technology, Karadparamba
6. Govt.Engineering College,Thrissur
7. Malabar College of Engineering,
8. Javaharlal College of Engineering ,
9. MEA Collge of Engineering
10. NSS College of Engineering , Palakkad

Day and Date	Subject
Monday 15 th July 2013	MCS 10 201 Digital Communication Techniques
Wednesday 17 th July 2013	MCS 10 202 Algorithms and Complexity
Friday 19 th July 2013	MCS 10 203 Advanced Language Technologies
Tuesday 23 rd July 2013	<u>Elective II</u> MCS 10 204 (A) Data Compression MCS 10 204 (B) Cryptocomplexity MCS 10 204 (C) Information Theory
Thursday 25 th July 2013	<u>Elective III</u> MCS 10 205 (A) Advanced Networking Technologies MCS 10 205 (B) Bioinformatics MCS 10 205 (C) Soft Computing

2) THERMAL SYSTEMS

Centre of Examination :. MES College of Engineering , Kuttippuram

Day and Date	Subject
Monday 15 th July 2013	MTS 10 201 Design of Heat Transfer Equipments
Wednesday 17 th July 2013	MTS 10 202 Turbo Machines
Friday 19 th July 2013	MTS 10 203 Computational Methods in Fluid flow and Heat transfer
Tuesday 23 rd July 2013	<u>Elective II</u> MTS 10 204 (A) IC Engine Theory and Performance MTS 10 204 (B) Experimental Techniques in Thermal and Fluid Engineering MTS 10 204 (C) Air Conditioning Systems
Thursday 25 th July 2013	<u>Elective III</u> MTS 10 205 (A) Energy Management in Thermal Systems MTS 10 205 (B) Propulsion Engineering MTS 10 205 (C) Advanced Power Plant Engineering.

3) MACHINE DESIGN

Centre of Examination: Nehru College of Engineering & Research Centre, Pampady

Day and Date	Subject
Monday 15 th July 2013	MMD 10 201 Advanced Machine Design
Wednesday 17 th July 2013	MMD 10 202 Advanced Mechanism Design
Friday 19 th July 2013	MMD 10 203 Advanced FEM
Tuesday 23 rd July 2013	<u>Elective-II</u> MMD 10 204 A-Composite Materials MMD 10 204 B-Tribology in Design MMD 10 204 C-Experimental Stress Analysis
Thursday 25 th July 2013	<u>Elective-III</u> MMD 10 205 A-Optimization Techniques in Design MMD 10 205 B-Vibration Control and Condition Monitoring MMD 10 205 C-Design Pressure Vessels & Piping

4) APPLIED ELECTRONICS AND COMMUNICATION SYSTEM

Centre of Examination: Nehru College of Engineering & Research Centre, Pampady

Day and Date	Subject
Monday 15 th July 2013	EAC10 201 Digital System Design
Wednesday 17 th July 2013	EAC 10 202 Wireless Communication
Friday 19 th July 2013	EAC 10 203 Digital MOS Circuits
Tuesday 23 rd July 2013	<u>Elective-II</u> EAC 10 204 A-Multirate Signal Processing & Filter banks EAC 10 204 B-Spectral Analysis of Signals EAC 10 204 C-Spread Spectrum and CDMA Systems EAC 10 204 D-Markov Modelling & Queuing Theory
Thursday 25 th July 2013	<u>Elective-III</u> EAC 10 205 A- Communication Switching Theory EAC 10 205 B-Wavelets Theory EAC 10 205 C-Power Electronics EAC 10 205 D-Electronic System Design

5) DIGITAL SIGNAL PROCESSING

Centre of Examination: KMCT College of Engineering, Mukkom, Manassery

Day and Date	Subject
Monday 15 th July 2013	DSP 10 201 Wavelet Theory
Wednesday 17 th July 2013	DSP 10 202 Adaptive Signal Processing
Friday 19 th July 2013	DSP 10 203 Estimation and Detection Theory
Tuesday 23 rd July 2013	<u>Elective-II</u> DSP 10 204 A- Signal Compression Techniques DSP 10 204 B- Array Signal Processing DSP 10 204 C- Wireless Communications DSP 10 204 D- Information Theory & Data Encryption
Thursday 25 th July 2013	<u>Elective-III</u> DSP 10 205 A- Transform Theory DSP 10 205 B- Spectral Analysis Techniques DSP 10 205 C- Secure Communication DSP 10 205 D- Graph Theory

6) POWER ELECTRONICS AND DRIVES/POWER ELECTRONICS

Centre of Examination: 1. Nehru College of Engineering & Research Centre, Pampady
2. Vidya Academy of science & Technology, Thalakkottukara
3. Javaharlal College of Engineering
4. MEA College of Engineering
5. NSS College of Engineering
6. Jyothi College of Engineering, Cheruthuruthy

Day and Date	Subject
Monday 15 th July 2013	EPD/EPE 10 201 Analysis of Power Electronics Circuits-II
Wednesday 17 th July 2013	EPD 10 202 Digital Control Systems EPE 10 202 Switched Mode Power Converters
Friday 19 th July 2013	EPD/EPE 10 203 Advanced Electric Drives
Tuesday 23 rd July 2013	<u>Elective-II</u> EPD/EPE 10 204 A- FACTS & Custom Power Devices EPD/EPE 10 204 B- Power Quality EPD/EPE 10 204 C- Digital Simulation of Power Electronic Systems
Thursday 25 th July 2013	<u>Elective-III</u> EPD/EPE 10 205 A- Embedded Controllers and Real Time Systems EPD/EPE 10 205 B- DSP & Applications EPD 10 205 C- Switched Mode Power Converters EPE 10 205 C- Digital Control Systems

7) GEO TECHNICAL ENGINEERING

Centre of Examination: IES College of Engineering , Chittilappilly

Day and Date	Subject
Monday 15 th July 2013	CEG 10 201 Advanced Foundation Engineering
Wednesday 17 th July 2013	CEG 10 202 Structural Design of Foundation & Substructures
Friday 19 th July 2013	CEG 10 203 Solid Dynamics and Machine Foundation
Tuesday 23 rd July 2013	<u>Elective-II</u> CEG 10 204(A) Highway Subgrade and Foundation Analysis CEG 10 204(B) Modern Techniques in Geotechnical Engg CEG 10 204(C) Ground Water Hydrology
Thursday 25 th July 2013	<u>Elective-III</u> CEG 10 205 (A) Environmental Geotechnical Engineering CEG 10 205 (B) Reinforced Earth and Geotextiles CEG 10 205 (C) Stability Analysis of Slopes and Embankment

8) COMMUNICATION ENGINEERING

Centre of Examination: NSS College of Engineering, Palakkad

Day and Date	Subject
Monday 15 th July 2013	ECE 10 201 Advanced Information & Coding Theory
Wednesday 17 th July 2013	ECE 10 202 CDMA Technology
Friday 19 th July 2013	ECE 10 203 Advanced Optical Communication Systems
Tuesday 23 rd July 2013	<u>Elective-II</u> ECE 10 204 A-Multirate Signal Processing ECE 10 204 B-Smart Antennas ECE 10 204 C- Transform Theory ECE 10 204 D-Communication Switching & Multiplexing
Thursday 25 th July 2013	<u>Elective-III</u> ECE 10 205 A- Personal Wireless Networks & Mobile Computing ECE 10 205 B-Detection & Estimation ECE 10 205 C-Designing with ASICs ECE 10 205 D-RF Design of Communication Systems

9) COMPUTER AIDED PROCESS DESIGN (CHEMICAL ENGINEERING)

Centre of Examination : Govt. College of Engineering, Kozhikode

Day and Date	Subject
Monday 15 th July 2013	CPD 11 201 Process modeling and Simulation
Wednesday 17 th July 2013	CPD 11 202 Process Equipment Design -III
Friday 19 th July 2013	CPD 11 203 Process Equipment Design-IV
Tuesday 23 rd July 2013	<u>Elective II</u> CPD 11 204 (A) Transport Phenomena CPD 11 204 (B) Industrial Instrumentation CPD 11 204 (C) Environment Engineering and Management
Thursday 25 th July 2013	<u>Elective III</u> CPD 11 205(A) Computational Methods for Process Design CPD11 205(B)Modern Methods of Instrumentation Analysis CPD 11 205(C) Process Integration

10) INSTRUMENTATION AND CONTROL SYSTEMS

Centre of Examination : 1. MES College of Engineering , Kuttippuram

Day and Date	Subject
Monday 15 th July 2013	EIC 11 201 Process Control Instrumentation
Wednesday 17 th July 2013	EIC 11 202 Optimal and Adaptive Control Theory
Friday 19 th July 2013	EIC 11 203 Non linear Systems
Tuesday 23 rd July 2013	<u>Elective II</u> EIC 11 204 A- System Identification & Parameter Estimation EIC 11 204 B-Robotics System & Applications EIC 11 204 C- Mechatronics EIC 11 204 D-Switched Mode Power Converters
Thursday 25 th July 2013	<u>Elective III</u> EIC 11 205 A- Embedded Controllers in Real Time Systems EIC 11 205 B-DSP and its Application EIC 11 205 C-Variable Structure Control Systems EIC 11 205 D- Data Acquisition and Signal Conditioning

11) COMPUTATIONAL LINGUISTICS

Centre of Examination: Govt. Engineering College, Sreekrishnapuram

Day & Date	Subject
Monday 15 th July 2013	MCL 10 201 Statistical Natural Language Processing
Wednesday 17 th July 2013	MCL 10 202 Algorithms and Complexity
Friday 19 th July 2013	MCL 10 203 Data & Text Mining
Tuesday 23 rd July 2013	<u>Elective-II</u> MCL 10 204 A-Machine Learning MCL 10 204 B- Machine Translation MCL 10 204 C- Information Theory
Thursday 25 th July 2013	<u>Elective-III</u> MCL 10 205 A-Pattern Recognition MCL 10 205 B-Software Architecture & Project Management MCL 10 205 C-Soft Computing

12) VLSI DESIGN

Centre of Examinations:1. MET'S School of Engineering, Mala, Thrissur
2. Nehru College of Engineering & Research Centre, Pampady
3. Vedavyasa Engineering College, Karadparamba

Day & Date	Subject
Monday 15 th July 2013	VL 11 201 SOC Design & Verification
Wednesday 17 th July 2013	VL 11 202 Analog VLSI Design
Friday 19 th July 2013	VL 11 203 Testing & Verification VLSI Circuits
Tuesday 23 rd July 2013	<u>Elective-II</u> VL 11 204A- Low Power VLSI Design VL 11 204B- Synthesis & Optimization of Digital Circuits VL 11 204C- Design of Digital Signal Processing Systems
Thursday 25 th July 2013	<u>Elective-III</u> VL 11 205 A- High Speed Digital Design VL 11 204 B-Multimedia Compression Techniques VL 11 204 C- Design for Testability

13) BIO PROCESS ENGINEERING

Centre of Examination: MET'S School of Engineering, Mala, Thrissur

Day & Date	Subject
Monday 15 th July 2013	BTB 10 201 Bioprocess Plant Design
Wednesday 17 th July 2013	BTB 10 202 Downstream Processing in Bioprocesses
Friday 19 th July 2013	BTB 10 203 Advanced Enzyme Science & Engineering
Tuesday 23 rd July 2013	<u>Elective-II</u> BTB 10 204 (A) Bioinformatics BTB 10 204 (B) Analytical Techniques in Biotechnology BTB 10 204 (C) Pharmaceutical Biotechnology
Thursday 25 th July 2013	<u>Elective-III</u> BTB 10 205 (A) Industrial Biotechnology BTB 10 205 (B) Food Engineering and Biotechnology BTB 10 205 (C) Bionanotechnology

14) CONSTRUCTION ENGINEERING & MANAGEMENT

Centre of Examination: MES College of Engineering, Kuttipuram

Day and Date	Subject
Monday 15 th July 2013	CEM 10 201 Construction Planning, Scheduling & Control
Wednesday 17 th July 2013	CEM 10 202 Construction Personnel Management
Friday 19 th July 2013	CEM10 203 Construction Economics and Financial Management
Tuesday 23 rd July 2013	<u>Elective-II</u> CEM 10 204 A Computer Applications in Construction Engineering and Planning CEM 10 204 B Management Information System CEM 10 204 C Eco-friendly Construction CEM 10 204 D Advanced Construction Techniques
Thursday 25 th July 2013	<u>Elective-III</u> CEM 10 205 A Shoring, Scaffolding and Formwork CEM 10 205 B System Integration in Construction CEM 10 205 C Reuse & Recycle Technology CEM 10 205 D Smart Materials and Smart Structures

15) MANUFACTURING ENGINEERING

Centre of Examination: KMCT College of Engineering , Mukkom, Manassery

Day and Date	Subject
Monday 15 th July 2013	MME 10 201 Computer Integrated Manufacturing
Wednesday 17 th July 2013	MME10 202 Modern Manufacturing Processes
Friday 19 th July 2013	MME10 203 Plant Maintenance & Safety
Tuesday 23 rd July 2013	<u>Elective-II</u> MME 10 204 A-Design of Machine Tools MME 10 204 B-Management Information Systems MME 10 204 C-Reliability Engineering
Thursday 25 th July 2013	<u>Elective-III</u> MME10 205 A-Manufacturing Automation MME10 205 B-Quantitative Techniques for Managerial Decisions MME10 205 C- Six Sigma

16) EMBEDDED SYSTEMS

Centre of Examinations: Vedavyasa Engineering College, Karadparamba

Day and Date	Subject
Monday 15 th July 2013	ES 10 201 Design of Digital Signal Processing Systems
Wednesday 17 th July 2013	ES 10 202 Embedded OS & RTOS
Friday 19 th July 2013	ES 10 203 Product Design and Quality Management
Tuesday 23 rd July 2013	<u>Elective-II</u> ES 10 204 A Embedded Applications in Power Conversion ES 10 204 B –Modern Control Systems Design ES 10 204 C- Information Security
Thursday 25 th July 2013	<u>Elective-III</u> ES 10 205 A High Speed Digital Design ES 10 205 B –ASIC & SOC ES 10 205 C Multimedia Compression Techniques

17) ENERGY SYSTEMS

Centre of Examination: Nehru College of Engineering

Day and Date	Subject
Monday 15 th July 2013	MES 10 201 Design and Analysis of Energy Systems
Wednesday 17 th July 2013	MES 10 202 Energy Conservation in Thermal Systems
Friday 19 th July 2013	MES 10 203 Energy and Environment
Tuesday 23 rd July 2013	<u>Elective-II</u> MES 10 204 A Hydro Power Systems MES 10 204 B Research Methodology MES 10 204 C Computational Fluid Dynamics
Thursday 25 th July 2013	<u>Elective-III</u> MES 10 205 A Wind Energy and its Utilization MES 10 205 B Solar Energy and its Utilization MES 10 205 C Emerging Refrigeration Technologies

18) ENVIRONMENTAL ENGINEERING

Centre of Examination: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	CEE 10 201 Biological Methods in Environmental Engineering
Wednesday 17 th July 2013	<u>Elective-II</u> CEE 10 205 A Advanced Hydrology & Water Resources Engineering CEE10 205 B –Ground Water Contamination & Pollution Transport CEE10 205 C -Environmental Geology
Friday 19 th July 2013	CEE10 203 Environmental Impact Assessment
Tuesday 23 rd July 2013	<u>Elective-I</u> CEE10 204 A Water Pollution Control & Stream Sanitation CEE10 204 B –Environmental Health & Hygiene CEE 10 204 C- Environmental Systems Analysis
Thursday 25 th July 2013	CEE10 202 Air Quality Management & Meteorology

19) POWER SYSTEM ENGINEERING

Centre of Examinations: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	EPS 10 201 Digital Protection of Power Systems
Wednesday 17 th July 2013	EPS 10 202 Power System Dynamics
Friday 19 th July 2013	EPS 10 203 Power System Security
Tuesday 23 rd July 2013	<u>Elective-II</u> EPS 10 204 A-FACTS & Custom Power Devices EPS 10 204 B-Power Quality EPS 10 204 C-Switched Mode Power Controllers
Thursday 25 th July 2013	<u>Elective-III</u> EPS 10 205 A-Power System Planning Reliability EPS 10 205 B-Power Distribution Systems EPS 10 205 C-Distributed Generation

20) PROCESS CONTROL ENGINEERING (CHEMICAL ENGINEERING)

Centre of Examinations: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	CPC 10 201 Process Dynamics & Control-II
Wednesday 17 th July 2013	CPC10 202 Advanced Chemical Reaction Engineering
Friday 19 th July 2013	CPC10 203 Advanced Heat & Mass Transfer
Tuesday 23 rd July 2013	<u>Elective-II</u> CPC10 204 A Multi Variable Feed Back Control CPC10 204 B –System Identification CPC 10 204 C- Environmental Engineering & Management
Thursday 25 th July 2013	<u>Elective-III</u> CPC 10 205 A-Fuzzy Systems & Control CPC10 205 B –Bio-Chemical Engineering CPC10 205 C -Applied Process Control

21) PRODUCTION ENGINEERING

Centre of Examinations: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	MPE 10 201 Computer Integrated Manufacturing
Wednesday 17 th July 2013	MPE 10 202 Modern Manufacturing Processes
Friday 19 th July 2013	MPE 10 203 Plant Maintenance and Safety
Tuesday 23 rd July 2013	<u>Elective-II</u> MPE 10 204 A- Group Technologies &Flexible Manufacturing MPE 10 204 B- Management Information Systems MPE 10 204 C- Metal Forming
Thursday 25 th July 2013	<u>Elective-III</u> MPE 10 205 A- Manufacturing Automation MPE 10 205 B- Quantitative Techniques for Managerial Decisions MPE 10 205 C- Rapid Prototyping

22) COMMUNICATION ENGINEERING AND SIGNAL PROCESSING

Centre of Examinations: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	ECS 10 201 Estimation & Detection
Wednesday 17 th July 2013	ECS10 202 Wireless Communication
Friday 19 th July 2013	ECS10 203 Coding Theory
Tuesday 23 rd July 2013	<u>Elective-II</u> ECS10 204 A Multirate Signal Processing and Filter Banks ECS 10 204 B –Spectral Analysis of Signals ECS 10 204 C- Spread Spectrum & CDMA Systems ECS 10 204 D- Markov Modeling & Queuing Theory
Thursday 25 th July 2013	<u>Elective-III</u> ECS 10 205 A Communication Switching Theory ECS 10 205 B Wavelets ECS 10 205 C Communication Networks ECS 10 205 D System Design using Embedded Processors

23) MANUFACTURING SYSTEMS MANAGEMENT

Centre of Examinations: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	PMS 10 201 Modelling and Analysis of Manufacturing Systems
Wednesday 17 th July 2013	PMS 10 202 Enterprise Resource Planning
Friday 19 th July 2013	PMS 10 203 Integrated Product Development
Tuesday 23 rd July 2013	<u>Elective-II</u> PMS 10 204 A-Design and Analysis of Experiments PMS 10 204 B-Management Information System PMS 10 204 C-Reliability Engineering PMS 10 204 D Markov Modelling and Queuing Theory
Thursday 25 th July 2013	<u>Elective-III</u> PMS 10 205 A Industrial Marketing & Marketing Research PMS 10 205 B Ergonomics of Manufacturing PMS 10 205 C Strategic Management PMS 10 205 D Reverse Engineering

24) WATER RESOURCES AND HYDRO INFORMATICS

Centre of Examinations: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	CEH 10 201 GIS & Hydroinformatics
Wednesday 17 th July 2013	CEH 10 202 Advanced Hydrology & Water Resources Engineering
Friday 19 th July 2013	CEH 10 203 Environmental Impact Assessment
Tuesday 23 rd July 2013	<u>Elective-II</u> CEH 10 204 A-Water Pollution Control & Stream Sanitation CEH 10 204 B-Management Information Systems CEH 10 204 C-Fluvial Hydraulics CEH 10 204 D-Biological Methods in Environmental Engineering CEH 10 204 E-Data Acquisition in Hydroinformatics
Thursday 25 th July 2013	<u>Elective-III</u> CEH 10 205 A-Hydrologic Analysis & Design CEH 10 205 B-Groundwater Contamination and Pollution Transport CEH 10 205 C-Environmental Geology CEH 10 205 D-Water Power Engineering CEH 10 205 E-Groundwater Modelling and Management

25) INTERNAL COMBUSTION ENGINES AND TURBO MACHINERY

Centre of Examinations: Govt. Engineering College, Thrissur

Day and Date	Subject
Monday 15 th July 2013	MIT 10 201 Combustion & Emission in IC Engine
Wednesday 17 th July 2013	MIT 10 202 Computational Fluid Dynamics
Friday 19 th July 2013	MIT 10 203 Plant Maintenance & Safety
Tuesday 23 rd July 2013	<u>Elective-II</u> MIT 10 204 A-Internal Combustion Engine Design MIT 10 204 B-Management Information System MIT 10 204 C-Thermal Turbo Machines
Thursday 25 th July 2013	<u>Elective-III</u> MIT 10 205 A-Alternative Fuels for IC Engine MIT 10 205 B-Design & Analysis of Thermal Systems MIT 10 205 C-Simulation of IC Engine Processes

Calicut University.PO
Dated: 04.07.2013

Sd/-
CONTROLLER OF EXAMINATIONS