UNIVERSITY OF CALICUT
(Pareeksha Bhavan)

**REVISED TIME TABLE FOR THE FIRST SEMESTER M.TECH. ENGINEERING REGULAR (2012 ADMISSION) / SUPPLEMENTARY EXAMINATION JANUARY 2013**

Time of Examination      : 9.30 am to 12.30 pm
Maximum Marks            : 100 each
Centre of Examination    : Respective colleges

### 1. ENVIRONMENTAL ENGINEERING

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | CEE 10 101 Applied Statistics |
| Friday 11th January 2013 | CEE 10 102 Environmental Chemistry |
| Monday 14th January 2013 | CEE 10 103 Environmental Microbiology |
| Wednesday 16th January 2013 | CEE 10 104  Physicochemical Methods in Environmental Engineering |
| Friday 18th January 2013 | **Elective**:<br>CEE 10 105 A Industrial Water Pollution Control<br>CEE 10 105 B Solid and Hazardous Waste Management<br>CEE 10 105 C Instrumental Methods in Environmental Engineering |

### 2. WATER RESOURCES AND HYDROINFORMATICS

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | CEH 10 101 Applied Statistics |
| Friday 11th January 2013 | CEH 10 102 Advanced Surveying and Remote Sensing |
| Monday 14th January 2013 | CEH 10 103 Water Resources System Engg |
| Wednesday 16th January 2013 | CEH 10 104 Advanced Free Surface Flow |
| Friday 18th January 2013 | **Elective**:<br>CEH 10 105 A Watershed Conservation and Management<br>CEH 10 105 B Information Technology for GIS Data Management<br>CEH 10 105 C Optimization Techniques<br>CEH 10 105 D Physiochemical Processes of Water and Wastewater Treatment |

### 3. CHEMICAL PROCESS CONTROL (CHEMICAL ENGINEERING)

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | CPC 10 101 Mathematics |
| Friday 11th January 2013 | CPC 10 102 Process Dynamics & Control-I |
| Monday 14th January 2013 | CPC 10 103 Industrial Instrumentation |
| Wednesday 16th January 2013 | CPC 10 104 Modern Control Theory |
| Friday 18th January 2013 | **Elective**:<br>CPC 10 105 A Process Optimization<br>CPC 10 105 B Energy Engineering and Management<br>CPC 10 105 C Separation Processes |

## 4. MANUFACTURING ENGINEERING / PRODUCTION ENGINEERING

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | MME/MPE 10 101 Applied Mathematics |
| Friday 11th January 2013 | MME/MPE 10 102 Advanced Welding & Casting Technology |
| Monday 14th January 2013 | MME 10 103 Metal Forming<br>MPE 10 103 Design of Machine Tools |
| Wednesday 16th January 2013 | MME/MPE 10 104 Production & Operations Management |
| Friday 18th January 2013 | MME/MPE 10 105A  Advanced Metrology<br>MME/MPE 10 105B  Composite Materials<br>MME/MPE 10 105C  Mechatronics Product Design |

## 5. THERMAL SYSTEMS

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | MTS 10 101 Mathematics |
| Friday 11th January 2013 | MTS 10 102 Advanced Thermodynamics & Combustion |
| Monday 14th January 2013 | MTS 10 103 Advanced Mechanics of Fluids |
| Wednesday 16th January 2013 | MTS/MIT 10 104 Advanced Heat  and Mass Transfer |
| Friday 18th January 2013 | MTS 10 105A  Refrigeration Systems<br>MTS 10 105B  Solar Energy<br>MTS 10 105C  Nanotechnology |

## 6. MACHINE DESIGN

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | MMD 10 101 Advanced Engineering Mathematics |
| Friday 11th January 2013 | MMD 10 102 Advanced Mechanics of Solids |
| Monday 14th January 2013 | MMD 10 103 Theory of Vibrations |
| Wednesday 16th January 2013 | MMD 10 104 Design Engineering |
| Friday 18th January 2013 | MMD 10 105A  Oil Hydraulics and Pneumatic Systems |
| | MMD 10 105B  Mechatronics System Design |
| | MMD 10 105C  Computer Aided Design |

## 7. COMPUTER SCIENCE AND ENGINEERING

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | MCS 10 101 Advanced Mathematical Structures |
| Friday 11th January 2013 | MCS 10 102 Operating System Design |
| Monday 14th January 2013 | MCS 10 103 Database Design |
| Wednesday 16th January 2013 | MCS 10 104 Compiler  Design |
| Friday 18th January 2013 | MCS /MCL 10 105A  Computational Intelligence<br>MCS 10 105B  Optical communication<br>MCS 10 105C  Game Theory<br>MCS 10 105D  Quantum Computing |

## 8. DIGITAL SIGNAL PROCESSING

| Day and Date | Subject |
|---|---|
| Wednesday 9<sup>th</sup> January 2013 | DSP 10 101 Linear Algebra for Signal Processing |
| Friday 11<sup>th</sup> January 2013 | DSP 10 102 DSP Algorithms & Architecture |
| Monday 14<sup>th</sup> January 2013 | DSP 10 103 Random Process and Application |
| Wednesday 16<sup>th</sup> January 2013 | DSP 10 104 Multirate Signal Processing |
| Friday 18<sup>th</sup> January 2013 | **Elective**: <br> DSP 10 105A  Digital Filter Design  & Application <br> DSP 10 105B  DSP System Design <br> DSP 10 105C  Image Processing <br> DSP 10 105D  Digital Communication Techniques <br> DSP 10 105E  Optimization Techniques |

## 9. MANUFACTURING SYSTEM MANAGEMENT

| Day & Date | Subject |
|---|---|
| Wednesday 9<sup>th</sup> January 2013 | PMS 10 101       Managerial Statistics |
| Friday 11<sup>th</sup> January 2013 | PMS 10 102       Advanced Manufacturing System |
| Monday 14<sup>th</sup> January 2013 | PMS 10 103       Advanced Operations Management |
| Wednesday 16<sup>th</sup> January 2013 | PMS 10 104       Total Quality Management |
| Friday 18<sup>th</sup> January 2013 | PMS 10 105 A Industrial Robotics & Expert Systems <br> PMS 10 105 B  Information Technology for GIS Data <br>                         Management <br> PMS 10 105 C  Management Accounting & Financial <br>                         Management <br> PMS 10 105 D  Safety Engineering  and Industrial Hygiene |

## 10. COMMUNICATION ENGINEERING AND SIGNAL PROCESSING

| Day & Date | Subject |
|---|---|
| Wednesday 9<sup>th</sup> January 2013 | ECS 10 101 Mathematics for Communication Engineering |
| Friday 11<sup>th</sup> January 2013 | ECS 10 102 Advanced Digital Communication |
| Monday 14<sup>th</sup> January 2013 | ECS 10 103 Advanced Digital Signal Processing |
| Wednesday 16<sup>th</sup> January 2013 | ECS 10 104 Design of Digital Signal Processing Systems |
| Friday 18<sup>th</sup> January 2013 | **Elective**: <br> ECS 10 105 A Information Theory <br> ECS 10 105 B Adaptive Signal Processing <br> ECS 10 105 C  Radio Frequency Integrated Circuits and <br>                       Systems <br> ECS 10 105 D Digital Image Processing |

## 11. INTERNAL COMBUSTION ENGINES AND TURBO MACHINERY

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | MIT 10 101 Applied Mathematics |
| Friday 11th January 2013 | MIT 10 102 Advanced Thermodynamics |
| Monday 14th January 2013 | MIT 10 103 Advanced Mechanics of Fluids |
| Wednesday 16th January 2013 | MIT 10 104 Advanced Heat and Mass Transfer |
| Friday 18th January 2013 | **Elective**:<br>MIT 10 105 A Energy Conservation in Thermal Systems<br>MIT 10 105 B Engine Pollution and Control<br>MIT 10 105 C Direct Energy Conversion System |

## 12. POWER SYSTEMS

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | EPS 10 101 Applied Mathematics |
| Friday 11th January 2013 | EPS 10 102 System Dynamics |
| Monday 14th January 2013 | EPS 10 103 Power System Operation & Control |
| Wednesday 16th January 2013 | EPS 10 104 Advanced Topics in Power Systems |
| Friday 18th January 2013 | **Elective**:<br>EPS 10 105 A Advanced Electrical Drives<br>EPS 10 105 B Adaptive Signal Processing<br>EPS 10 105 C Optimization Techniques<br>EPS 10 105 D High Voltage DC and AC Transmission |

## 13. POWER ELECTRONICS AND DRIVES/POWER ELECTRONICS

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | EPD/EPE/EPS 10 101/EIC 11 101 Applied Mathematics |
| Friday 11th January 2013 | EPD/EPE/EPS 10 102 System Dynamics |
| Monday 14th January 2013 | EPD/EPE 10 103 Analysis of Power Electronic Circuits-I |
| Wednesday 16th January 2013 | EPD/EPE 10 104 Electric Drives |
| Friday 18th January 2013 | EPD/EPE 10 105A Power Semi Conductor Devices & Modelling |
| | EPD/EPE 10 105B Dynamics of Electrical Machine |
| | EPD/EPE/EPS/CEH 10 105C/EIC 11 105C Optimization Techniques |
| | EPD/EPE/EPS 10 105D High Voltage DC & AC Transmission |

## 14. APPLIED ELECTRONICS AND COMMUNICATION SYSTEM

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | EAC 10 101 Mathematics for Communication Engineering |
| Friday 11th January 2013 | EAC 10 102 Design of Digital Signal Processing Systems |
| Monday 14th January 2013 | EAC 10 103 Advanced Digital Communication |
| Wednesday 16th January 2013 | EAC 10 104 System Design Using Embedded Processors |
| Friday 18th January 2013 | **Elective**:<br>EAC 10 105 A Information Theory<br>EAC 10 105 B Adaptive Signal Processing<br>EAC 10 105 C Communication Networks |

| EAC 10 105 D  Optical Communication |
|---|

## 15. EMBEDDED SYSTEMS

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | ES 10 101 System Design Using Embedded Processors |
| Friday 11th January 2013 | ES 10 102 Advanced Digital System   Design ( Common to EDT 11  102) |
| Monday 14th January 2013 | ES 10 103 Embedded Programming (Common to EDT 11 105A) |
| Wednesday 16th January 2013 | ES 10 104 Advanced Engineering mathematics |
| Friday 18th January 2013 | ES 10 105A Electronic System Design (Common to EDT 11 103) ES 10 105 B Software Engineering |
| Monday 21st January 2013 | ES 10 105 C Data Communication and Networking |

## 16. ELECTRONIC DESIGN TECHNOLOGY

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | EDT 11 101 Designing with   Microcontrollers |
| Friday 11th January 2013 | EDT 11 102 Advanced Digital  System   Design (Common to ES 10 102 ) |
| Monday 14th January 2013 | EDT 11 105A Embedded  Programming (Common to ES 10 103) |
| Wednesday 16th January 2013 | EDT 11 104  Advanced Engineering Mathematics |
| Friday 18th January 2013 | EDT 11 103 Electronic System Design (Common to ES 10 105A) |
| Monday 21st January 2013 | EDT 11 105 B/ VL 11 105B Digital Integrated Circuit Design EDT 11 105 C Data Communication and Networking |

## 17. COMPUTER AIDED PROCESS DESIGN (CHEMICAL ENGINEERING)

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | CPD11  101  Advanced Mathematics |
| Friday 11th January 2013 | CPD 11 102  Mechanical Design of Process Vessels-I |
| Monday 14th January 2013 | CPD 11 103   Process Equipment Design-II |
| Wednesday 16th January 2013 | CPD 11 104   Advanced Heat & Mass Transfer |
| Friday 18th January 2013 | **Elective**: CPD 11 105A  Process Optimization CPD 11 105B  Process Safety  Engineering CPD 11 105C  Project Engineering of Process Plants |

## 18. COMMUNICATION ENGINEERING

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | ECE 10 101 Probability & Stochastic Processes |
| Friday 11th January 2013 | ECE 10 102 Digital Communication Techniques |
| Monday 14th January 2013 | ECE 10 103 Wireless Mobile Networks |
| Wednesday 16th January 2013 | ECE 10 104 Advanced Digital Signal Processing |
| Friday 18th January 2013 | ECE 10 105A Optimization Techniques<br>ECE 10 105B OFDM for Wireless Communication<br>ECE 10 105C RF MEMS<br>ECE 10 105D Advances in Data & Computer Communications |

## 19. GEO TECHNICAL ENGINEERING

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | CEG 10 101 Advanced Engineering Mathematics |
| Friday 11th January 2013 | CEG 10 102 Advanced Soil Mechanics |
| Monday 14th January 2013 | CEG 10 103 Finite Element Method for Geomechanics |
| Wednesday 16th January 2013 | CEG 10 104 Rock Mechanics |
| Friday 18th January 2013 | **Elective**:<br>CEG 10 105A  Applied Soil Mechanics<br>CEG 10 105B  Ground Improvement<br>CEG 10 105C   Pavement Design |

## 20. INSTRUMENTATION AND CONTROL SYSTEMS

| Day and Date | Subject |
|---|---|
| Wednesday 9th January 2013 | EIC 11 101 Applied Mathematics |
| Friday 11th January 2013 | EIC 11 102  Modern Control Systems |
| Monday 14th January 2013 | EIC 11 103  Advanced Instrumentation |
| Wednesday 16th January 2013 | EIC 11 104  Discrete Data Control Systems |
| Friday 18th January 2013 | EIC 11 105A  Computer Control Systems<br>EIC 11 105B  Data Communications<br>EIC 11 105C  Optimization Techniques<br>EIC 11 105D  Bio Medical Instrumentation |

## 21. COMPUTATIONAL LINGUISTICS

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | MCL 10 101 Mathematical Foundations of Computer Science |
| Friday 11th January 2013 | MCL 10 102  Natural  Language Processing |
| Monday 14th January 2013 | MCL 10 103 Computational Linguistics-I |
| Wednesday 16th January 2013 | MCL 10 104 Speech Processing |
| Friday 18th January 2013 | MCL/MCS 10 105 A Computational Intelligence<br>MCL 10 105B  Information Retrieval & Extraction<br>MCL 10 105C  Theories of Syntax & Semantics<br>MCL 10 105D  Special Architectures |

## 22. VLSI DESIGN

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | VL 11 101 CMOS VLSI Design |
| Friday 11th January 2013 | VL 11 102 Advanced Digital System design |
| Monday 14th January 2013 | VL 11 103 Computer Aided Design of VLSI Circuits |
| Wednesday 16th January 2013 | VL/EDT 11 104 Advanced Engineering Mathematics |
| Friday 18th January 2013 | VL 11 105A/EDT 11 103/ES 10 105 A Electronic System Design<br>VL 11 105C/EDT 11 101 Designing with Microcontrollers |
| Monday 21st January 2013 | VL 11 105B/EDT 11 105B Digital Integrated Circuit Design |

## 23. BIO PROCESS ENGINEERING

| Day & Date | Subject |
|---|---|
| Wednesday 9th January 2013 | BTB 10 101 Applied Mathematics for Bioprocess Engineering |
| Friday 11th January 2013 | BTB 10 102 Metabolic Engineering |
| Monday 14th January 2013 | BTB 10 103 Advanced Genetic Engineering |
| Wednesday 16th January 2013 | BTB 10 104 Advanced Fermentation Engineering |
| Friday 18th January 2013 | **Elective**:<br>BTB 10 105A Biostatistics<br>BTB 10 105B Animal & Plant Cell Technology<br>BTB 10 105C  Marine Biotechnology |

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Calicut University.PO　　　　　　　CONTROLLER OF EXAMINATIONS

Dated: 03.01.2013