

SAVITRIBAI PHULE PUNE UNIVERSITY
(Formerly University of Pune)



EXAMINATION CIRCULAR NO.73 OF. 2018

M.E.ENGINEERING (2013 Pattern)

Examination of APR/MAY 2018

(Under Faculty of SCIENCE AND TECHNOLOGY : B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at the examination centre, FIFTEEN MINUTES before the time fixed for the first paper and TEN MINUTES before the time of each subsequent paper.
2. Candidates are forbidden from taking any material into the examination hall, that can be used for malpractice at the time of examination.
3. Candidates are requested to see the Notice Board at their place of examination regularly for changes if any, that may be notified later in the program.
4. No request for any special concession such as a change in time or any day fixed for the University Examination on any ground shall be granted.
5. Candidates are requested to note the Day, Date and Time of every Paper on every day.
6. Candidates are permitted to use stencils at the time of examination.
7. Candidates appearing for the examinations are expected to provide themselves with Side- rules.
8. The exchange or loan of side-rules, drawing instruments of other materials used in the examination hall is Not Permitted while the examinations are in process.
9. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
10. Use of non-programmable battery operated electronic Calculator of Pocket-size is allowed. The exchange of Calculators is not allowed.
11. The written examination will be conducted in the following order.

(CIVIL) (CONSTRUCTION MANAGEMENT)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	APPLICATIONS OF STATISTICAL METHODS IN CONSTRUCTION (501021)
Saturday 26/05/2018	MANAGEMENT & PROJECT PLANNING IN CONSTRUCTION (501022)
Wednesday 30/05/2018	CONSTRUCTION TECHNOLOGY (501023)
Saturday 02/06/2018	RESEARCH METHODOLOGY TREATMENT (501004)
Tuesday 05/06/2018	ELECTIVE - I (501024)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	CONSTRUCTION CONTRACTS ADMINISTRATION & MANAGEMENT (501026)
Monday 28/05/2018	PROJECT ECONOMICS & FINANCIAL MANAGEMENT (501027)
Thursday 31/05/2018	OPERATION RESEARCH (501028)
Monday 04/06/2018	ELECTIVE - II (501029)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ENVIRONMENT & ENERGY FOR SUBSTANABLE CONSTRUCTION (601032)
Tuesday 29/05/2018	TQM IN CONSTRUCTION (601033)
Friday 01/06/2018	ELECTIVE - III (601034)

(CIVIL) (ENVIRONMENTAL ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	ENVIRONMENTAL LEGISLATION & MANAGEMENT SYSTEMS (501061)
Saturday 26/05/2018	ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY (501062)
Wednesday 30/05/2018	PHYSICO-CHEMICAL PROCESS FOR WATER & WASTE WATER TREATMENT (501063)
Saturday 02/06/2018	RESEARCH METHODOLOGY (501004)
Tuesday 05/06/2018	ELECTIVE - I (501064)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	INDUSTRIAL WASTE WATER MANAGEMENT (501066)
Monday 28/05/2018	AIR POLLUTION & CONTROL (501067)
Thursday 31/05/2018	SOLID WASTE & HAZARDOUS WASTE MANAGEMENT (501068)
Monday 04/06/2018	ELECTIVE - II (501069)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ENVIRONMENTAL SANITATION (601072)
Tuesday 29/05/2018	ENVIRONMENTAL IMPACT ASSESSMENT (601073)
Friday 01/06/2018	OPEN ELECTIVE (601074)

(CIVIL) (GEOTECHNICAL ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	ADVANCE SOIL MECHANICS (501121)
Saturday 26/05/2018	GROUND IMPROVEMENT TECHNIQUES (501122)
Wednesday 30/05/2018	ROCK MECHANICS (501123)
Saturday 02/06/2018	RESEARCH METHODOLOGY (501004)
Tuesday 05/06/2018	ELECTIVE - I (501124)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ADVANCE FOUNDATION ENGINEERING (501126)
Monday 28/05/2018	CONSTRUCTION METHODS IN GEOTECHNICAL (501127)
Thursday 31/05/2018	STABILITY OF SLOPES & EARTH DAM (501128)
Monday 04/06/2018	ELECTIVE - II (501129)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	GEOTECHNICAL EARTHQUAKE ENGINEERING (601132)
Tuesday 29/05/2018	GEOENVIRONMENTAL ENGINEERING (601133)
Friday 01/06/2018	ELECTIVE - III (601134)

(CIVIL) (HYDRAULICS ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	FLUID MECHANICS (501041)
Saturday 26/05/2018	IRRIGATION & DRAINAGE (501042)
Wednesday 30/05/2018	PLANNING & MANAGEMNET OF WATER RESOURCES (501043)
Saturday 02/06/2018	RESEARCH METHODOLOGY (501004)
Tuesday 05/06/2018	ELECTIVE - I (501044)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	OPEN CHANNEL HYDRAULICS (501046)
Monday 28/05/2018	SEDIMENT TRANSPORT AND RIVER MECHANICS (501047)
Thursday 31/05/2018	HYDROLOGY (501048)
Monday 04/06/2018	ELECTIVE - II (501049)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	DAM ENGINEERING (601052)
Tuesday 29/05/2018	OPTIMIZATION TECHNIQUES (601053)
Friday 01/06/2018	ELECTIVE - III (601054)

(CIVIL) (STRUCTURE ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	ADVANCED MECHANICS OF SOLIDS (501401)
Saturday 26/05/2018	STRUCTURAL DYNAMICS (501402)
Wednesday 30/05/2018	ADVANCED DESIGN OF STEEL STRUCTURES (501403)
Saturday 02/06/2018	RESEARCH METHODOLOGY TREATMENT (501404)
Tuesday 05/06/2018	ELECTIVE - I (501405)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	FINITE ELEMENT ANALYSIS (501407)
Monday 28/05/2018	THEORY OF PLATES & SHELLS (501408)
Thursday 31/05/2018	ADVANCED DESIGN OF CONCRETE STRUCTURES (501409)
Monday 04/06/2018	ELECTIVE - II (501410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	EARTHQUAKE ENGINEERING & DIASTER MANAGEMENT (601013)
Tuesday 29/05/2018	DESIGN OF RCC & PRESTRESSED CEMENT CONCRETE BRIDGES (601014)
Friday 01/06/2018	ELECTIVE - III (601015)

(CIVIL) (WATER RESOURCES & ENVIRONMENTAL ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	PLANNING & MANAGEMENT OF WATER RESOURCES (501081)
Saturday 26/05/2018	ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY (501082)
Wednesday 30/05/2018	FLUID MECHANICS (501083)
Saturday 02/06/2018	RESEARCH METHODOLOGY TREATMENT (501004)
Tuesday 05/06/2018	ELECTIVE - I (501084)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ENVIRONMENTAL HYDRAULICS & ENVIRONMENTAL STRUCTURES (501086)
Monday 28/05/2018	HYDROLOGY (501087)
Thursday 31/05/2018	OPEN CHANNEL HYRADULICS (501088)
Monday 04/06/2018	ELECTIVE - II (501089)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED WATER & WASTE WATER TREATMENT (601092)
Tuesday 29/05/2018	DAM ENGINEERING (601093)
Friday 01/06/2018	ELECTIVE - III (601094)

(MECHANICAL) (DESIGN ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	* ADVANCED MATHEMATICS (507201)
Saturday 26/05/2018	MATERIAL SCIENCE & MECHANICAL BEHAVIOR OF MATERIALS (502202)
Wednesday 30/05/2018	ADVANCED STRESS ANALYSIS (502203)
Saturday 02/06/2018	** RESEARCH METHODOLOGY (502204)
Tuesday 05/06/2018	ELECTIVE - I (502205)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ANALYSIS & SYNTHESIS OF MECHANISMS (502207)
Monday 28/05/2018	ADVANCED MECHANICAL VIBRATIONS (502208)
Thursday 31/05/2018	FINITE ELEMENT METHOD (502209)
Monday 04/06/2018	ELECTIVE - II (502210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	OPTIMIZATION TECHNIQUES (602213)
Tuesday 29/05/2018	MECHANICAL MEASUREMENTS & CONTROLS (602214)
Friday 01/06/2018	ELECTIVE - III (602215)

NOTE:-

* *Common to Automotive Engg. & CADM&E - 2013 Credit Pattern*

** *Common to All Mechanical Branches - 2013 Credit Pattern*

(MECHANICAL) (HEAT POWER ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	* ADVANCED MATHEMATICS & NUMERICAL METHODS (507101)
Saturday 26/05/2018	ADVANCED THERMODYNAMICS & COMBUSITION TECHNOLOGY (502102)
Wednesday 30/05/2018	** ADVANCED FLUID MECHANICS (502103)
Saturday 02/06/2018	*** RESEARCH METHODOLOGY (502104)
Tuesday 05/06/2018	ELECTIVE - I (502105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ADVANCED HEAT TRANSFER (502107)
Monday 28/05/2018	AIR CONDITIONING TECHNOLOGY (502108)
Thursday 31/05/2018	MEASUREMENTS AND CONTROLS (502109)
Monday 04/06/2018	ELECTIVE - II (502110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	COMPUTATIONAL FLUID DYNAMICS (602113)
Tuesday 29/05/2018	DESIGN OF HEAT TRANSFER EQUIPMENTS (602114)
Friday 01/06/2018	ELECTIVE - III (602115)

NOTE:-

* *Common to Energy Engineering - 2013 Credit Pattern*

** *Common to Energy Engineering - 2013 Credit Pattern*

*** *Common to All Mechanical Branches - 2013 Credit Pattern*

CHEMICAL ENGINEERING**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	MATHEMATICAL & STATISTICAL METHODS (509101)
Saturday 26/05/2018	PROCESS OPTIMIZATION (509102)
Wednesday 30/05/2018	ADVANCED SEPARATION PROCESSES (509103)
Saturday 02/06/2018	RESEARCH METHODOLOGY (509104)
Tuesday 05/06/2018	ELECTIVE - I (509105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ADVANCED TRANSPORT PHENOMENA (509107)
Monday 28/05/2018	ADVANCED PROCESS CONTROL (509108)
Thursday 31/05/2018	ADVANCED REACTION ENGINEERING (509109)
Monday 04/06/2018	ELECTIVE - II (509110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	PROCESS MODELING & SIMULATION (509113)
Tuesday 29/05/2018	ADVANCED THERMODYNAMICS (509114)
Friday 01/06/2018	ELECTIVE - III (509115)

CHEMICAL ENGINEERING (ENVIRONMENTAL)

SEM-I

2013 Course TIME-02.30 PM To 05.30 PM	
Day & Date	Subject
Wednesday 23/05/2018	APPLIED STATISTICS FOR ENVIRONMENTAL ENGINEERS (509131)
Saturday 26/05/2018	ENVIRONMENTAL MANAGEMENT (509132)
Wednesday 30/05/2018	ENVIRONMENTAL CHEMISTRY (509133)
Saturday 02/06/2018	RESEARCH METHODOLOGY (509134)
Tuesday 05/06/2018	ELECTIVE - I (509135)

SEM-II

2013 Course TIME-02.30 PM To 05.30 PM	
Day & Date	Subject
Thursday 24/05/2018	WASTEWATER TREATMENT & DESIGN (509137)
Monday 28/05/2018	SOLID WASTE MANAGEMENT (509138)
Thursday 31/05/2018	INDUSTRIAL WASTE TREATMENT (509139)
Monday 04/06/2018	ELECTIVE - II (509140)

SEM-III

2013 Course TIME-02.30 PM To 05.30 PM	
Day & Date	Subject
Friday 25/05/2018	REMOTE SENSING & GIS APPLICATIONS IN ENVIRONMENTAL ENGINEERING (509143)
Tuesday 29/05/2018	INDUSTRIAL POLLUTION PREVENTION & CLEANER PRODUCTION (509144)
Friday 01/06/2018	ELECTIVE - III (509145)

COMPUTER (COMPUTER ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	APPLIED ALGORITHMS (510101)
Saturday 26/05/2018	HIGH PERFORMANCE DATABASES (510102)
Wednesday 30/05/2018	ADVANCED COMPUTER ARCHITECTURE (510103)
Saturday 02/06/2018	RESEARCH METHODOLOGY (510104)
Tuesday 05/06/2018	ELECTIVE - I (510105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	OPERATING SYSTEM DESIGN (510107)
Monday 28/05/2018	SOFTWARE DESIGN & ARCHITECTURE (510108)
Thursday 31/05/2018	ADVANCED COMPUTER NETWORKS (510109)
Monday 04/06/2018	ELECTIVE - II (510110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED STORAGE SYSTEMS & INFRASTRUCTURE MANAGEMENT (610101)
Tuesday 29/05/2018	ADVANCED UNIX PROGRAMMING (610102)
Friday 01/06/2018	ELECTIVE - III (610103)

COMPUTER (COMPUTER NETWORKS)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	ADVANCED NETWORK ALGORITHMS (510201)
Saturday 26/05/2018	WIRELESS COMMUNICATION (510202)
Wednesday 30/05/2018	ADVANCED DATABASES (510203)
Saturday 02/06/2018	RESEARCH METHODOLOGY (510204)
Tuesday 05/06/2018	ELECTIVE - I (510205)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	NETWORK DESIGN, MODELLING & ANALYSIS (510207)
Monday 28/05/2018	DISTRIBUTED SYSTEMS (510208)
Thursday 31/05/2018	HIGH PERFORMANCE NETWORKS (510209)
Monday 04/06/2018	ELECTIVE - II (510210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED TCP/IP (610201)
Tuesday 29/05/2018	SYSTEM OPERATIONS & MAINTENANCE (610202)
Friday 01/06/2018	ELECTIVE - III (610203)

ELECTRICAL (CONTROL SYSTEMS)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	COMPUTATIONAL TECHNIQUE FOR CONTROL SYSTEM (503101)
Saturday 26/05/2018	PROCESS CONTROL MANAGEMENT (503102)
Wednesday 30/05/2018	NON LINEAR CONTROL SYSTEM (503103)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (503104)
Tuesday 05/06/2018	ELECTIVE - I (503105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	MULTIVARIABLE & OPTIMAL CONTROL SYSTEM (503107)
Monday 28/05/2018	SYSTEM IDENTIFICATION & ADAPTIVE CONTROL (503108)
Thursday 31/05/2018	ADVANCED DIGITAL CONTROL TECHNIQUES (503109)
Monday 04/06/2018	ELECTIVE - II (503110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED DRIVERS & CONTROL (603101)
Tuesday 29/05/2018	COMPUTER AIDED CONTROL SYSTEM DESIGN (603102)
Friday 01/06/2018	ELECTIVE - III (603103)

NOTE:-

** Common to All Electrical Branches - 2013 Credit Pattern*

ELECTRICAL (POWER ELECTRONICS & DRIVES)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	MODELLING & ANALYSIS OF ELECTRICAL MACHINES (503301)
Saturday 26/05/2018	ENERGY MANAGEMENT & POWER QUALITY IN ELECTRICAL DRIVERS (503302)
Wednesday 30/05/2018	POWER CONVERTORS (503303)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (503304)
Tuesday 05/06/2018	ELECTIVE - I (503305)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	AC & DC DRIVERS (503307)
Monday 28/05/2018	DESIGN OF POWER ELECTRONIC SYSTEM (503308)
Thursday 31/05/2018	ADVANCED CONTROL SYSTEMS (503309)
Monday 04/06/2018	ELECTIVE - II (503310)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	POWER ELECTRONICS APPLICATIONS (603301)
Tuesday 29/05/2018	POWER ELECTRONICS IN SMART GRID (603302)
Friday 01/06/2018	ELECTIVE - III (603303)

NOTE:-

** Common to All Electrical Branches - 2013 Pattern*

ELECTRICAL (POWER SYSTEMS)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	COMPUTER APPLICATIONS IN POWER SYSTEMS (503201)
Saturday 26/05/2018	POWER SECTOR ECONOMICS & MANAGEMENT (503202)
Wednesday 30/05/2018	POWER SYSTEM MODELLING (503203)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (503204)
Tuesday 05/06/2018	ELECTIVE - I (503205)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	POWER SYSTEM DYNAMICS (503207)
Monday 28/05/2018	POWER SYSTEM PLANNING & RELIABILITY (503208)
Thursday 31/05/2018	HVDC & FLEXIBLE AC TRANSMISSION (503209)
Monday 04/06/2018	ELECTIVE - II (503210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED POWER SYSTEM PROTECTION (603201)
Tuesday 29/05/2018	POWER QUALITY ASSESSMENT & MITIGATION (603202)
Friday 01/06/2018	ELECTIVE - III (603203)

NOTE:-

** Common to All Electrical Branches - 2013 Credit Pattern*

ELECTRONICS & TELECOMMUNICATION (COMMUNICATION NETWORK)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	MODELLING & SIMULATION OF COMMUNICATION NETWORKS (504501)
Saturday 26/05/2018	SPREAD SPECTRUM & CDMA SYSTEMS (504502)
Wednesday 30/05/2018	DETECTION & ESTIMATION THEORY (504503)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (504104)
Tuesday 05/06/2018	ELECTIVE - I (504105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	TRAFFIC ANALYSIS & QOS (504507)
Monday 28/05/2018	BROADBAND WIRELESS TECHNOLOGIES (504508)
Thursday 31/05/2018	OPTICAL NETWORKS (504509)
Monday 04/06/2018	ELECTIVE - II (504510)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	MOBILE COMPUTING (604501)
Tuesday 29/05/2018	DIGITAL COMMUNICATION RECEIVERS (604502)
Friday 01/06/2018	ELECTIVE - III (604503)

NOTE:-

** Common to All E & TC Branches and Electronics Branch - 2013 Credit Pattern*

ELECTRONICS & TELECOMMUNICATION (MICROWAVE)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	ELECTROMAGNETICS & ANTENNA THEORY (504301)
Saturday 26/05/2018	RF & MICROWAVE CIRCUITS (504302)
Wednesday 30/05/2018	MICROWAVE MEASUREMENTS (504303)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (504104)
Tuesday 05/06/2018	ELECTIVE - I (504105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	COMPUTATIONAL ELECTROMAGNETICS (504307)
Monday 28/05/2018	RF & MMIC TECHNOLOGY (504308)
Thursday 31/05/2018	WIRELESS COMMUNICATION SYSTEM (504309)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	EMI & EMC TECHNIQUES (604301)
Tuesday 29/05/2018	RADAR & SATELLITE COMMUNICATIONS (604302)
Friday 01/06/2018	ELECTIVE - III (604303)

NOTE:-

** Common to All E & TC Branches and Electronics Branche - 2013 Credit Pattern*

ELECTRONICS & TELECOMMUNICATION (SIGNAL PROCESSING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	IMAGE PROCESSING & ANALYSIS (504401)
Saturday 26/05/2018	SIGNAL PROCESSING TECHNIQUES (504402)
Wednesday 30/05/2018	MIXED SIGNAL PROCESSING SYSTEMS & DESIGN (504403)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (504104)
Tuesday 05/06/2018	ELECTIVE - I (504105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	SPEECH SIGNAL PROCESSING (504407)
Monday 28/05/2018	ARCHITECTURE FOR SIGNAL PROCESSING ALGORITHMS (504408)
Thursday 31/05/2018	BIOMEDICAL SIGNAL PROCESSING (504409)
Monday 04/06/2018	ELECTIVE - II (504410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	STATISTICAL SIGNAL PROCESSING (604401)
Tuesday 29/05/2018	STILL IMAGE & MOVING PICTURE COMPRESSION STANDARDS (604402)
Friday 01/06/2018	ELECTIVE - III (604403)

NOTE:-

** Common to All E & TC Branches and Electronics Branche - 2013 Credit Pattern*

ELECTRONICS & TELECOMMUNICATION (VLSI & EMBEDDED SYSTEMS)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	DIGITAL CMOS DESIGN (504201)
Saturday 26/05/2018	EMBEDDE SYSTEM DESIGN (504103)
Wednesday 30/05/2018	RECONFIGURABLE COMPUTING (504203)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (504104)
Tuesday 05/06/2018	ELECTIVE - I (504105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ANALOG CMOS DESIGN (504207)
Monday 28/05/2018	SYSTEM ON CHIP (504208)
Thursday 31/05/2018	EMBEDDED SIGNAL PROCESSORS (504209)
Monday 04/06/2018	ELECTIVE - II (504210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	FAULT TOLERANT SYSTEMS (604201)
Tuesday 29/05/2018	ASIC DESIGN (604202)
Friday 01/06/2018	ELECTIVE - III (604203)

NOTE:-

** Common to All E & TC Branches and Electronics Branch - 2013 Credit Pattern*

ELECTRONICS (DIGITAL SYSTEMS)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	MICROELECTRONICS (504101)
Saturday 26/05/2018	DIGITAL SIGNAL PROCESSING ARCHITECTURES (504102)
Wednesday 30/05/2018	EMBEDDE SYSTEM DESIGN (504103)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (504104)
Tuesday 05/06/2018	ELECTIVE - I (504105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	DESIGN FOR TESTABILITY (504107)
Monday 28/05/2018	PLD'S & ASIC DESIGN (504108)
Thursday 31/05/2018	RANDOM SIGNALS AND PROCESSES (504109)
Monday 04/06/2018	ELECTIVE - II (504110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	IMAGE PROCESSING & COMPUTER VISION (604101)
Tuesday 29/05/2018	WIRELESS & MOBILE TECHNOLOGIES (604102)
Friday 01/06/2018	ELECTIVE - III (604103)

NOTE:-

** Common to Electronics Branch and All E & TC Branches - 2013 Credit Pattern*

INFORMATION TECHNOLOGY**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	MATHEMATICAL FOUNDATION OF INFORMATION TECHNOLOGY (514401)
Saturday 26/05/2018	APPLIED ALGORITHMS (514402)
Wednesday 30/05/2018	ADVANCE OPERATING SYSTEM (514403)
Saturday 02/06/2018	RESEARCH METHODOLOGY (514404)
Tuesday 05/06/2018	ELECTIVE - I (514405)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	WIRELESS COMMUNICATION TECHNOLOGIES (514407)
Monday 28/05/2018	ADVANCED DATABASE SYSTEMS (514408)
Thursday 31/05/2018	ADVANCE COMPUTER ARCHITECTURE (514409)
Monday 04/06/2018	ELECTIVE - II (514410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	INFORMATION ASSURANCE & SECURITY (514413)
Tuesday 29/05/2018	NETWORK PROGRAMMING (514414)
Friday 01/06/2018	OPEN ELECTIVE (514415)

INSTRUMENTATION & CONTROL (BIOMEDICAL)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	* MATHEMATICAL METHODS IN INSTRUMENTATION (506101)
Saturday 26/05/2018	BIO-SIGNAL PROCESSING (506202)
Wednesday 30/05/2018	ANALYTICAL INSTRUMENTATION (506203)
Saturday 02/06/2018	** RESEARCH METHODOLOGY (506104)
Tuesday 05/06/2018	ELECTIVE - I (506105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	TRANSDUCER DESIGN (506207)
Monday 28/05/2018	DIGITAL IMAGE PROCESSING (506208)
Thursday 31/05/2018	COMMUNICATION PROTOCOLS FOR INSTRUMENTATION (506209)
Monday 04/06/2018	ELECTIVE - II (506210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	MEDICAL IMAGING TECHNIQUES (606201)
Tuesday 29/05/2018	ADVANCED DIGITAL SIGNAL PROCESSING (606202)
Friday 01/06/2018	ELECTIVE - III (606103)

NOTE:-* **Common to Process Instrumentation - 2013 Credit Pattern**** **Common to Process Instrumentation - 2013 Credit Pattern**

INSTRUMENTATION & CONTROL (PROCESS INSTRUMENTATION)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	* MATHEMATICAL METHODS IN INSTRUMENTATION (506101)
Saturday 26/05/2018	TRANSDUSER DESIGN (506102)
Wednesday 30/05/2018	INDUSTRIAL AUTOMATION (506103)
Saturday 02/06/2018	** RESEARCH METHODOLOGY (506104)
Tuesday 05/06/2018	ELECTIVE - I (506205)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ADVANCED PROCESS CONTROL (506107)
Monday 28/05/2018	EMBEDDED SYSTEM DESIGN (506108)
Thursday 31/05/2018	ADVANCED CONTROL SYSTEM (506109)
Monday 04/06/2018	ELECTIVE - II (506110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED SIGNAL PROCESSING (606101)
Tuesday 29/05/2018	BUILDING AUTOMATION (606102)
Friday 01/06/2018	ELECTIVE - III (606103)

NOTE:-

* *Common to Biomedical Instrumentation - 2013 Credit Pattern*

** *Common to Biomedical Instrumentation - 2013 Credit Pattern*

MECHANICAL (AUTOMOTIVE ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	* ADVANCED MATHEMATICS (507201)
Saturday 26/05/2018	AUTOMOTIVE ENGINE DESIGN (502302)
Wednesday 30/05/2018	AUTOMOTIVE SAFETY & REGULATIONS (502303)
Saturday 02/06/2018	** RESEARCH METHODOLOGY (502304)
Tuesday 05/06/2018	ELECTIVE - I (502305)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ENGINE COMBUSTION TECHNOLOGY (502307)
Monday 28/05/2018	NOISE VIBRATION & HARSHNESS (502308)
Thursday 31/05/2018	AUTOMATIVE CHASSIS DESIGN (502309)
Monday 04/06/2018	ELECTIVE - II (502310)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	VEHICLE DYNAMICS (602313)
Tuesday 29/05/2018	AUTOTRONICS (602314)
Friday 01/06/2018	ELECTIVE - III (602315)

NOTE:-

* *Common to Design Engg. & CADM&E - 2013 Credit Pattern*

** *Common to All Mechanical Branches - 2013 Credit Pattern*

MECHANICAL (COMPUTER AIDED DESIGN,MANUFACTURE & ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	* ADVANCED MATHEMATICS (507201)
Saturday 26/05/2018	ADVANCED MACHINE DESIGN (502402)
Wednesday 30/05/2018	COMPUTER AIDED DESIGN (502403)
Saturday 02/06/2018	** RESEARCH METHODOLOGY (502404)
Tuesday 05/06/2018	ELECTIVE - I (502405)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	COMPUTER INTEGRATED MANUFACTURING (502407)
Monday 28/05/2018	INDUSTRIAL PRODUCT DESIGN & PRODUCT LIFE CYCLE MANAGEMENT (502408)
Thursday 31/05/2018	AUTOMATED MANUFACTURING SYSTEM MODELLING (502409)
Monday 04/06/2018	ELECTIVE - II (502410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	SIMULATION MODELLING (602413)
Tuesday 29/05/2018	OPTIMIZATION TECHNIQUES (602414)
Friday 01/06/2018	ELECTIVE - III (602415)

NOTE:-

* *Common to Design Engg. and Automotive Engg. - 2013 Credit Pattern*

** *Common to All Mechanical Branches - 2013 Credit Pattern*

MECHANICAL (ENERGY ENGINEERING)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	* ADVANCED MATHEMATICS & NUMERICAL METHODS (507101)
Saturday 26/05/2018	ADVANCED THERMODYNAMICS (502502)
Wednesday 30/05/2018	** ADVANCED FLUID MECHANICS (502503)
Saturday 02/06/2018	*** RESEARCH METHODOLOGY (502504)
Tuesday 05/06/2018	ELECTIVE - I (502505)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ADVANCED HEAT TRANSFER (502107)
Monday 28/05/2018	ENERGY CONVERSION SYSTEMS (502508)
Thursday 31/05/2018	ENERGY MANAGEMENT (502509)
Monday 04/06/2018	ELECTIVE - II (502510)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	NUCLEAR MATERIALS & REACTOR FUNDAMENTALS (602513)
Tuesday 29/05/2018	ENERGY SYSTEMS MODELLING & ANALYSIS (602514)
Friday 01/06/2018	ELECTIVE - III (602515)

NOTE:-

* *Common to Heat Power Engg. - 2013 Credit Pattern*

** *Common to Heat Power Engg. - 2013 Credit Pattern*

*** *Common to All Mechanical Branches - 2013 Credit Pattern*

MECHANICAL (MECHATRONICS)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	SYSTEM MODELLING, IDENTIFICATION & SIMULATION (502801)
Saturday 26/05/2018	CONTROL SYSTEMS - I (502802)
Wednesday 30/05/2018	SENSORS, TRANSDUCERS & TRANSFACING TECHNIQUES (502803)
Saturday 02/06/2018	* RESEARCH METHODOLOGY (502804)
Tuesday 05/06/2018	ELECTIVE - I (502805)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	PLC PROGRAMMING (502807)
Monday 28/05/2018	CONTROL SYSTEMS II (502808)
Thursday 31/05/2018	INDUSTRIAL DRIVES & ACTUATORS (502809)
Monday 04/06/2018	ELECTIVE - II (502810)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	MICROCONTROLLER APPLICATIONS IN EMBEDDED SYSTEMS (602813)
Tuesday 29/05/2018	FLEXIBLE MANUFACTURING SYSTEMS (602814)
Friday 01/06/2018	ELECTIVE - III (602815)

NOTE:-

*** Common to All Mechanical Branches - 2013 Credit Pattern**

PETROLEUM ENGINEERING**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	NUMERICAL SIMULATION IN PETROLEUM ENGINEERING (512101)
Saturday 26/05/2018	GEOLOGY IN RESERVOIR DESCRIPTION (512102)
Wednesday 30/05/2018	ADVANCED DRILLING ENGINEERING (512103)
Saturday 02/06/2018	RESEARCH METHODOLOGY (512104)
Tuesday 05/06/2018	ELECTIVE - I (512105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	ADVANCED RESERVOIR ENGINEERING (512107)
Monday 28/05/2018	ENVIRONMENTAL TECHNOLOGY IN PETROLEUM ENGINEERING (512108)
Thursday 31/05/2018	ADVANCED PRODUCTION ENGINEERING (512109)
Monday 04/06/2018	ELECTIVE - II (512110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED WELL TESTING (512113)
Tuesday 29/05/2018	ADVANCED WELL CONTROL (512114)
Friday 01/06/2018	ELECTIVE - III (512115)

POLYMER ENGINEERING**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	MATHEMATICAL & STATISTICAL METHODS (709115)
Saturday 26/05/2018	PRINCIPLES OF MANAGEMENT (709116)
Wednesday 30/05/2018	ADVANCED POLYMER TECHNOLOGY (709117)
Saturday 02/06/2018	RESEARCH METHODOLOGY (709118)
Tuesday 05/06/2018	ELECTIVE - I (709119)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	POLYMER PROCESSING & TESTING (709121)
Monday 28/05/2018	POLYMER PHYSICS & CHARACTERIZATION (709122)
Thursday 31/05/2018	POLYMER STRUCTURE & PROPERTIES (709123)
Monday 04/06/2018	ELECTIVE - II (709124)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	POLYMER RHEOLOGY (709127)
Tuesday 29/05/2018	TRANSPORT PHENOMENON IN POLYMERS (709128)
Friday 01/06/2018	ELECTIVE - III (709129)

PRINTING ENGINEERING & GRAPHIC COMMUNICATION**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	PROBABILITY, STATISTICS & REGRESSION ANALYSIS (508101)
Saturday 26/05/2018	PRINTING TECHNOLOGY MANAGEMENT (508102)
Wednesday 30/05/2018	MODERN TRENDS IN PRINTING (508103)
Saturday 02/06/2018	RESEARCH METHODOLOGY (508104)
Tuesday 05/06/2018	ELECTIVE - I (508105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	COLOUR SCIENCE (508107)
Monday 28/05/2018	WEB HANDLING ON PRESS (508108)
Thursday 31/05/2018	SUBSTRATE & INK (508109)
Monday 04/06/2018	ELECTIVE - II (508110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	PRINTED ELECTRONICS & RFID (608101)
Tuesday 29/05/2018	ADVANCES IN CONVERTING & PACKAGING (608102)
Friday 01/06/2018	ELECTIVE - III (608103)

PRODUCTION ENGINEERING (CAD/CAM)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	COMPUTER AIDED DESIGN (511301)
Saturday 26/05/2018	COMPUTER AIDED MANUFACTURING (511302)
Wednesday 30/05/2018	ADVANCED MATHEMATICS & STATISTICS (511303)
Saturday 02/06/2018	DESIGN OF EXPERIMENTS & RESEARCH METHODOLOGY (511304)
Tuesday 05/06/2018	ELECTIVE - I (511305)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	COMPUTER INTEGRATED MANUFACTURING (511307)
Monday 28/05/2018	FINITE ELEMENT ANALYSIS (511308)
Thursday 31/05/2018	OPTIMIZATION TECHNIQUES (511309)
Monday 04/06/2018	ELECTIVE - II (511310)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED STRESS ANALYSIS (511313)
Tuesday 29/05/2018	COMPUTER AIDED PRODUCTION PLANNING (511314)
Friday 01/06/2018	ELECTIVE - III (511315)

PRODUCTION ENGINEERING (MANUFACTURING & AUTOMATION)**SEM-I**

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Wednesday 23/05/2018	MATHEMATICS & STATISTICS (511101)
Saturday 26/05/2018	INDUSTRIAL AUTOMATION (511102)
Wednesday 30/05/2018	ADVANCED MANUFACTURING PROCESSES (511103)
Saturday 02/06/2018	RESEARCH METHODOLOGY (511104)
Tuesday 05/06/2018	ELECTIVE - I (511105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 24/05/2018	COMPUTER INTEGRATED MANUFACTURING (511107)
Monday 28/05/2018	TOOL & DIE DESIGN (511108)
Thursday 31/05/2018	ADVANCED JOINING PROCESSES (511109)
Monday 04/06/2018	ELECTIVE - II (511110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 25/05/2018	ADVANCED ROBOTICS (611101)
Tuesday 29/05/2018	SURFACE ENGINEERING (611102)
Friday 01/06/2018	ELECTIVE - III (611103)

Ganeshkhind, Pune - 411 007

Ref.No/XCT/0355

Date:15/02/2018

**I/C Director
Board of Examinations and Evaluation**