

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.386 OF. 2016

M.E.2013 CREDIT PATTERN (ALL BRANCHES)

Examination of OCT/NOV 2016

(Under Faculty of 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. Candidates are 2008, 2010 & 2012 pattern will have to appear for equivalent subject mention in 2013 pattern timetable.
12. Time table of the subject of 2008,2010 & 2012 pattern for which equivalent is not given in 2013 pattern will be declared Separately.
13. 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
Thursday 08/12/2016	APPLICATIONS OF STATISTICAL METHODS IN CONSTRUCTION (501021)
Tuesday 13/12/2016	MANAGEMENT & PROJECT PLANNING IN CONSTRUCTION (501022)
Friday 16/12/2016	CONSTRUCTION TECHNOLOGY (501023)
Tuesday 20/12/2016	RESEARCH METHODOLOGY TREATMENT (501004)
Thursday 22/12/2016	ELECTIVE - I (501024)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	CONSTRUCTION CONTRACTS ADMINISTRATION & MANAGEMENT (501026)
Wednesday 14/12/2016	PROJECT ECONOMICS & FINANCIAL MANAGEMENT (501027)
Saturday 17/12/2016	OPERATION RESEARCH (501028)
Wednesday 21/12/2016	ELECTIVE - II (501029)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ENVIRONMENT & ENERGY FOR SUBSTANABLE CONSTRUCTION (601032)
Thursday 15/12/2016	TQM IN CONSTRUCTION (601033)
Monday 19/12/2016	ELECTIVE - III (601034)

(CIVIL) (ENVIRONMENTAL ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	ENVIRONMENTAL LEGISLATION & MANAGEMENT SYSTEMS (501061)
Tuesday 13/12/2016	ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY (501062)
Friday 16/12/2016	PHYSICO-CHEMICAL PROCESS FOR WATER & WASTE WATER TREATMENT (501063)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (501004)
Thursday 22/12/2016	ELECTIVE - I (501064)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	INDUSTRIAL WASTE WATER MANAGEMENT (501066)
Wednesday 14/12/2016	AIR POLLUTION & CONTROL (501067)
Saturday 17/12/2016	SOLID WASTE & HAZARDOUS WASTE MANAGEMENT (501068)
Wednesday 21/12/2016	ELECTIVE - II (501069)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ENVIRONMENTAL SANITATION (601072)
Thursday 15/12/2016	ENVIRONMENTAL IMPACT ASSESSMENT (601073)
Monday 19/12/2016	OPEN ELECTIVE (601074)

(CIVIL) (GEOTECHNICAL ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	ADVANCE SOIL MECHANICS (501121)
Tuesday 13/12/2016	GROUND IMPROVEMENT TECHNIQUES (501122)
Friday 16/12/2016	ROCK MECHANICS (501123)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (501004)
Thursday 22/12/2016	ELECTIVE - I (501124)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ADVANCE FOUNDATION ENGINEERING (501126)
Wednesday 14/12/2016	CONSTRUCTION METHODS IN GEOTECHNICAL (501127)
Saturday 17/12/2016	STABILITY OF SLOPES & EARTH DAM (501128)
Wednesday 21/12/2016	ELECTIVE - II (501129)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	GEOTECHNICAL EARTHQUAKE ENGINEERING (601132)
Thursday 15/12/2016	GEOENVIRONMENTAL ENGINEERING (601133)
Monday 19/12/2016	ELECTIVE - III (601134)

(CIVIL) (HYDRAULICS ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	FLUID MECHANICS (501041)
Tuesday 13/12/2016	IRRIGATION & DRAINAGE (501042)
Friday 16/12/2016	PLANNING & MANAGEMNET OF WATER RESOURCES (501043)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (501004)
Thursday 22/12/2016	ELECTIVE - I (501044)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	OPEN CHANNEL HYDRAULICS (501046)
Wednesday 14/12/2016	SEDIMENT TRANSPORT AND RIVER MECHANICS (501047)
Saturday 17/12/2016	HYDROLOGY (501048)
Wednesday 21/12/2016	ELECTIVE - II (501049)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	DAM ENGINEERING (601052)
Thursday 15/12/2016	OPTIMIZATION TECHNIQUES (601053)
Monday 19/12/2016	ELECTIVE - III (601054)

(CIVIL) (STRUCTURE ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	ADVANCED MECHANICS OF SOLIDS (501401)
Tuesday 13/12/2016	STRUCTURAL DYNAMICS (501402)
Friday 16/12/2016	ADVANCED DESIGN OF STEEL STRUCTURES (501403)
Tuesday 20/12/2016	RESEARCH METHODOLOGY TREATMENT (501404)
Thursday 22/12/2016	ELECTIVE - I (501405)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	FINITE ELEMENT ANALYSIS (501407)
Wednesday 14/12/2016	THEORY OF PLATES & SHELLS (501408)
Saturday 17/12/2016	ADVANCED DESIGN OF CONCRETE STRUCTURES (501409)
Wednesday 21/12/2016	ELECTIVE - II (501410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	EARTHQUAKE ENGINEERING & DIASTER MANAGEMENT (601013)
Thursday 15/12/2016	DESIGN OF RCC & PRESTRESSED CEMENT CONCRETE BRIDGES (601014)
Monday 19/12/2016	ELECTIVE - III (601015)

(CIVIL) (WATER RESOURCES & ENVIRONMENTAL ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	PLANNING & MANAGEMENT OF WATER RESOURCES (501081)
Tuesday 13/12/2016	ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY (501082)
Friday 16/12/2016	FLUID MECHANICS (501083)
Tuesday 20/12/2016	RESEARCH METHODOLOGY TREATMENT (501004)
Thursday 22/12/2016	ELECTIVE - I (501084)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ENVIRONMENTAL HYDRAULICS & ENVIRONMENTAL STRUCTURES (501086)
Wednesday 14/12/2016	HYDROLOGY (501087)
Saturday 17/12/2016	OPEN CHANNEL HYRADULICS (501088)
Wednesday 21/12/2016	ELECTIVE - II (501089)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED WATER & WASTE WATER TREATMENT (601092)
Thursday 15/12/2016	DAM ENGINEERING (601093)
Monday 19/12/2016	ELECTIVE - III (601094)

(MECHANICAL) (DESIGN ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	* ADVANCED MATHEMATICS (507201)
Tuesday 13/12/2016	MATERIAL SCIENCE & MECHANICAL BEHAVIOR OF MATERIALS (502202)
Friday 16/12/2016	ADVANCED STRESS ANALYSIS (502203)
Tuesday 20/12/2016	** RESEARCH METHODOLOGY (502204)
Thursday 22/12/2016	ELECTIVE - I (502205)

NOTE:-

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

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ANALYSIS & SYNTHESIS OF MECHANISMS (502207)
Wednesday 14/12/2016	ADVANCED MECHANICAL VIBRATIONS (502208)
Saturday 17/12/2016	FINITE ELEMENT METHOD (502209)
Wednesday 21/12/2016	ELECTIVE - II (502210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	OPTIMIZATION TECHNIQUES (602213)
Thursday 15/12/2016	MECHANICAL MEASUREMENTS & CONTROLS (602214)
Monday 19/12/2016	ELECTIVE - III (602215)

(MECHANICAL) (HEAT POWER ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	* ADVANCED MATHEMATICS & NUMERICAL METHODS (507101)
Tuesday 13/12/2016	ADVANCED THERMODYNAMICS & COMBUSITION TECHNOLOGY (502102)
Friday 16/12/2016	** ADVANCED FLUID MECHANICS (502103)
Tuesday 20/12/2016	*** RESEARCH METHODOLOGY (502104)
Thursday 22/12/2016	ELECTIVE - I (502105)

NOTE:-

* *Common to Energy Engineering - 2013 Credit Pattern*

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

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ADVANCED HEAT TRANSFER (502107)
Wednesday 14/12/2016	AIR CONDITIONING TECHNOLOGY (502108)
Saturday 17/12/2016	MEASUREMENTS AND CONTROLS (502109)
Wednesday 21/12/2016	ELECTIVE - II (502110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	COMPUTATIONAL FLUID DYNAMICS (602113)
Thursday 15/12/2016	DESIGN OF HEAT TRANSFER EQUIPMENTS (602114)
Monday 19/12/2016	ELECTIVE - III (602115)

CHEMICAL ENGINEERING

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	MATHEMATICAL & STATISTICAL METHODS (509101)
Tuesday 13/12/2016	PROCESS OPTIMIZATION (509102)
Friday 16/12/2016	ADVANCED SEPARATION PROCESSES (509103)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (509104)
Thursday 22/12/2016	ELECTIVE - I (509105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ADVANCED TRANSPORT PHENOMENA (509107)
Wednesday 14/12/2016	ADVANCED PROCESS CONTROL (509108)
Saturday 17/12/2016	ADVANCED REACTION ENGINEERING (509109)
Wednesday 21/12/2016	ELECTIVE - II (509110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	PROCESS MODELING & SIMULATION (509113)
Thursday 15/12/2016	ADVANCED THERMODYNAMICS (509114)
Monday 19/12/2016	ELECTIVE - III (509115)

CHEMICAL ENGINEERING (ENVIRONMENTAL)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	APPLIED STATISTICS FOR ENVIRONMENTAL ENGINEERS (509131)
Tuesday 13/12/2016	ENVIRONMENTAL MANAGEMENT (509132)
Friday 16/12/2016	ENVIRONMENTAL CHEMISTRY (509133)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (509134)
Thursday 22/12/2016	ELECTIVE - I (509135)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	WASTEWATER TREATMENT & DESIGN (509137)
Wednesday 14/12/2016	SOLID WASTE MANAGEMENT (509138)
Saturday 17/12/2016	INDUSTRIAL WASTE TREATMENT (509139)
Wednesday 21/12/2016	ELECTIVE - II (509140)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	REMOTE SENSING & GIS APPLICATIONS IN ENVIRONMENTAL ENGINEERING (509143)
Thursday 15/12/2016	INDUSTRIAL POLLUTION PREVENTION & CLEANER PRODUCTION (509144)
Monday 19/12/2016	ELECTIVE - III (509145)

COMPUTER (COMPUTER ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	APPLIED ALGORITHMS (510101)
Tuesday 13/12/2016	HIGH PERFORMANCE DATABASES (510102)
Friday 16/12/2016	ADVANCED COMPUTER ARCHITECTURE (510103)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (510104)
Thursday 22/12/2016	ELECTIVE - I (510105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	OPERATING SYSTEM DESIGN (510107)
Wednesday 14/12/2016	SOFTWARE DESIGN & ARCHITECTURE (510108)
Saturday 17/12/2016	ADVANCED COMPUTER NETWORKS (510109)
Wednesday 21/12/2016	ELECTIVE - II (510110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED STORAGE SYSTEMS & INFRASTRUCTURE MANAGEMENT (610101)
Thursday 15/12/2016	ADVANCED UNIX PROGRAMMING (610102)
Monday 19/12/2016	ELECTIVE - III (610103)

COMPUTER (COMPUTER NETWORKS)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	ADVANCED NETWORK ALGORITHMS (510201)
Tuesday 13/12/2016	WIRELESS COMMUNICATION (510202)
Friday 16/12/2016	ADVANCED DATABASES (510203)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (510204)
Thursday 22/12/2016	ELECTIVE - I (510205)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	NETWORK DESIGN, MODELLING & ANALYSIS (510207)
Wednesday 14/12/2016	DISTRIBUTED SYSTEMS (510208)
Saturday 17/12/2016	HIGH PERFORMANCE NETWORKS (510209)
Wednesday 21/12/2016	ELECTIVE - II (510210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED TCP/IP (610201)
Thursday 15/12/2016	SYSTEM OPERATIONS & MAINTENANCE (610202)
Monday 19/12/2016	ELECTIVE - III (610203)

ELECTRICAL (CONTROL SYSTEMS)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	COMPUTATIONAL TECHNIQUE FOR CONTROL SYSTEM (503101)
Tuesday 13/12/2016	PROCESS CONTROL MANAGEMENT (503102)
Friday 16/12/2016	NON LINEAR CONTROL SYSTEM (503103)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (503104)
Thursday 22/12/2016	ELECTIVE - I (503105)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	MULTIVARIABLE & OPTIMAL CONTROL SYSTEM (503107)
Wednesday 14/12/2016	SYSTEM IDENTIFICATION & ADAPTIVE CONTROL (503108)
Saturday 17/12/2016	ADVANCED DIGITAL CONTROL TECHNIQUES (503109)
Wednesday 21/12/2016	ELECTIVE - II (503110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED DRIVERS & CONTROL (603101)
Thursday 15/12/2016	COMPUTER AIDED CONTROL SYSTEM DESIGN (603102)
Monday 19/12/2016	ELECTIVE - III (603103)

ELECTRICAL (POWER ELECTRONICS & DRIVES)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	MODELLING & ANALYSIS OF ELECTRICAL MACHINES (503301)
Tuesday 13/12/2016	ENERGY MANAGEMENT & POWER QUALITY IN ELECTRICAL DRIVERS (503302)
Friday 16/12/2016	POWER CONVERTORS (503303)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (503304)
Thursday 22/12/2016	ELECTIVE - I (503305)

NOTE:-

** Common to All Electrical Branches - 2013 Pattern*

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	AC & DC DRIVERS (503307)
Wednesday 14/12/2016	DESIGN OF POWER ELECTRONIC SYSTEM (503308)
Saturday 17/12/2016	ADVANCED CONTROL SYSTEMS (503309)
Wednesday 21/12/2016	ELECTIVE - II (503310)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	POWER ELECTRONICS APPLICATIONS (603301)
Thursday 15/12/2016	POWER ELECTRONICS IN SMART GRID (603302)
Monday 19/12/2016	ELECTIVE - III (603303)

ELECTRICAL (POWER SYSTEMS)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	COMPUTER APPLICATIONS IN POWER SYSTEMS (503201)
Tuesday 13/12/2016	POWER SECTOR ECONOMICS & MANAGEMENT (503202)
Friday 16/12/2016	POWER SYSTEM MODELLING (503203)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (503204)
Thursday 22/12/2016	ELECTIVE - I (503205)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	POWER SYSTEM DYNAMICS (503207)
Wednesday 14/12/2016	POWER SYSTEM PLANNING & RELIABILITY (503208)
Saturday 17/12/2016	HVDC & FLEXIBLE AC TRANSMISSION (503209)
Wednesday 21/12/2016	ELECTIVE - II (503210)

SEM-III

	2013 Course TIME-2.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED POWER SYSTEM PROTECTION (603201)
Thursday 15/12/2016	POWER QUALITY ASSESSMENT & MITIGATION (603202)
Monday 19/12/2016	ELECTIVE - III (603203)

ELECTRONICS & TELECOMMUNICATION (COMMUNICATION NETWORK)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	MODELLING & SIMULATION OF COMMUNICATION NETWORKS (504501)
Tuesday 13/12/2016	SPREAD SPECTRUM & CDMA SYSTEMS (504502)
Friday 16/12/2016	DETECTION & ESTIMATION THEORY (504503)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (504104)
Thursday 22/12/2016	ELECTIVE - I (504105)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	TRAFFIC ANALYSIS & QOS (504507)
Wednesday 14/12/2016	BROADBAND WIRELESS TECHNOLOGIES (504508)
Saturday 17/12/2016	OPTICAL NETWORKS (504509)
Wednesday 21/12/2016	ELECTIVE - II (504510)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	MOBILE COMPUTING (604501)
Thursday 15/12/2016	DIGITAL COMMUNICATION RECEIVERS (604502)
Monday 19/12/2016	ELECTIVE - III (604503)

ELECTRONICS & TELECOMMUNICATION (MICROWAVE)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	ELECTROMAGNETICS & ANTENNA THEORY (504301)
Tuesday 13/12/2016	RF & MICROWAVE CIRCUITS (504302)
Friday 16/12/2016	MICROWAVE MEASUREMENTS (504303)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (504104)
Thursday 22/12/2016	ELECTIVE - I (504105)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	COMPUTATIONAL ELECTROMAGNETICS (504307)
Wednesday 14/12/2016	RF & MMIC TECHNOLOGY (504308)
Saturday 17/12/2016	WIRELESS COMMUNICATION SYSTEM (504309)
Wednesday 21/12/2016	ELECTIVE - II (504310)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	EMI & EMC TECHNIQUES (604301)
Thursday 15/12/2016	RADAR & SATELLITE COMMUNICATIONS (604302)
Monday 19/12/2016	ELECTIVE - III (604303)

ELECTRONICS & TELECOMMUNICATION (SIGNAL PROCESSING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	IMAGE PROCESSING & ANALYSIS (504401)
Tuesday 13/12/2016	SIGNAL PROCESSING TECHNIQUES (504402)
Friday 16/12/2016	MIXED SIGNAL PROCESSING SYSTEMS & DESIGN (504403)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (504104)
Thursday 22/12/2016	ELECTIVE - I (504105)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	SPEECH SIGNAL PROCESSING (504407)
Wednesday 14/12/2016	ARCHITECTURE FOR SIGNAL PROCESSING ALGORITHMS (504408)
Saturday 17/12/2016	BIOMEDICAL SIGNAL PROCESSING (504409)
Wednesday 21/12/2016	ELECTIVE - II (504410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	STATISTICAL SIGNAL PROCESSING (604401)
Thursday 15/12/2016	STILL IMAGE & MOVING PICTURE COMPRESSION STANDARDS (604402)
Monday 19/12/2016	ELECTIVE - III (604403)

ELECTRONICS & TELECOMMUNICATION (VLSI & EMBEDDED SYSTEMS)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	DIGITAL CMOS DESIGN (504201)
Tuesday 13/12/2016	EMBEDDE SYSTEM DESIGN (504103)
Friday 16/12/2016	RECONFIGURABLE COMPUTING (504203)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (504104)
Thursday 22/12/2016	ELECTIVE - I (504105)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ANALOG CMOS DESIGN (504207)
Wednesday 14/12/2016	SYSTEM ON CHIP (504208)
Saturday 17/12/2016	EMBEDDED SIGNAL PROCESSORS (504209)
Wednesday 21/12/2016	ELECTIVE - II (504210)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	FAULT TOLERANT SYSTEMS (604201)
Thursday 15/12/2016	ASIC DESIGN (604202)
Monday 19/12/2016	ELECTIVE - III (604203)

ELECTRONICS (DIGITAL SYSTEMS)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	MICROELECTRONICS (504101)
Tuesday 13/12/2016	DIGITAL SIGNAL PROCESSING ARCHITECTURES (504102)
Friday 16/12/2016	EMBEDDE SYSTEM DESIGN (504103)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (504104)
Thursday 22/12/2016	ELECTIVE - I (504105)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	DESIGN FOR TESTABILITY (504107)
Wednesday 14/12/2016	PLD'S & ASIC DESIGN (504108)
Saturday 17/12/2016	RANDOM SIGNALS AND PROCESSES (504109)
Wednesday 21/12/2016	ELECTIVE - II (504110)

SEM-III

	2013 Course TIME-2.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	IMAGE PROCESSING & COMPUTER VISION (604101)
Thursday 15/12/2016	WIRELESS & MOBILE TECHNOLOGIES (604102)
Monday 19/12/2016	ELECTIVE - III (604103)

INFORMATION TECHNOLOGY

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	MATHEMATICAL FOUNDATION OF INFORMATION TECHNOLOGY (514401)
Tuesday 13/12/2016	APPLIED ALGORITHMS (514402)
Friday 16/12/2016	ADVANCE OPERATING SYSTEM (514403)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (514404)
Thursday 22/12/2016	ELECTIVE - I (514405)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	WIRELESS COMMUNICATION TECHNOLOGIES (514407)
Wednesday 14/12/2016	ADVANCED DATABASE SYSTEMS (514408)
Saturday 17/12/2016	ADVANCE COMPUTER ARCHITECTURE (514409)
Wednesday 21/12/2016	ELECTIVE - II (514410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	INFORMATION ASSURANCE & SECURITY (514413)
Thursday 15/12/2016	NETWORK PROGRAMMING (514414)
Monday 19/12/2016	OPEN ELECTIVE (514415)

INSTRUMENTATION & CONTROL (BIOMEDICAL)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	* MATHEMATICAL METHODS IN INSTRUMENTATION (506101)
Tuesday 13/12/2016	BIO-SIGNAL PROCESSING (506202)
Friday 16/12/2016	ANALYTICAL INSTRUMENTATION (506203)
Tuesday 20/12/2016	** RESEARCH METHODOLOGY (506104)
Thursday 22/12/2016	ELECTIVE - I (506105)

NOTE:-

* *Common to Process Instrumentation - 2013 Credit Pattern*

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	TRANSDUCER DESIGN (506207)
Wednesday 14/12/2016	DIGITAL IMAGE PROCESSING (506208)
Saturday 17/12/2016	COMMUNICATION PROTOCOLS FOR INSTRUMENTATION (506209)
Wednesday 21/12/2016	ELECTIVE - II (506210)

SEM-III

	2013 Course TIME-2.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	MEDICAL IMAGING TECHNIQUES (606201)
Thursday 15/12/2016	ADVANCED DIGITAL SIGNAL PROCESSING (606202)
Monday 19/12/2016	ELECTIVE - III (606103)

INSTRUMENTATION & CONTROL (PROCESS INSTRUMENTATION)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	* MATHEMATICAL METHODS IN INSTRUMENTATION (506101)
Tuesday 13/12/2016	TRANSDUSER DESIGN (506102)
Friday 16/12/2016	INDUSTRIAL AUTOMATION (506103)
Tuesday 20/12/2016	** RESEARCH METHODOLOGY (506104)
Thursday 22/12/2016	ELECTIVE - I (506205)

NOTE:-

* *Common to Biomedical Instrumentation - 2013 Credit Pattern*

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ADVANCED PROCESS CONTROL (506107)
Wednesday 14/12/2016	EMBEDDED SYSTEM DESIGN (506108)
Saturday 17/12/2016	ADVANCED CONTROL SYSTEM (506109)
Wednesday 21/12/2016	ELECTIVE - II (506110)

SEM-III

	2013 Course TIME-
Day & Date	Subject
Saturday 10/12/2016	ADVANCED SIGNAL PROCESSING (606101)
Thursday 15/12/2016	BUILDING AUTOMATION (606102)
Monday 19/12/2016	ELECTIVE - III (606103)

MECHANICAL (AUTOMOTIVE ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	* ADVANCED MATHEMATICS (507201)
Tuesday 13/12/2016	AUTOMOTIVE ENGINE DESIGN (502302)
Friday 16/12/2016	AUTOMOTIVE SAFETY & REGULATIONS (502303)
Tuesday 20/12/2016	** RESEARCH METHODOLOGY (502304)
Thursday 22/12/2016	ELECTIVE - I (502305)

NOTE:-

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

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ENGINE COMBUSTION TECHNOLOGY (502307)
Wednesday 14/12/2016	NOISE VIBRATION & HARSHNESS (502308)
Saturday 17/12/2016	AUTOMATIVE CHASSIS DESIGN (502309)
Wednesday 21/12/2016	ELECTIVE - II (502310)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	VEHICLE DYNAMICS (602313)
Thursday 15/12/2016	AUTOTRONICS (602314)
Monday 19/12/2016	ELECTIVE - III (602315)

MECHANICAL (COMPUTER AIDED DESIGN,MANUFACTURE & ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	* ADVANCED MATHEMATICS (507201)
Tuesday 13/12/2016	ADVANCED MACHINE DESIGN (502402)
Friday 16/12/2016	COMPUTER AIDED DESIGN (502403)
Tuesday 20/12/2016	** RESEARCH METHODOLOGY (502404)
Thursday 22/12/2016	ELECTIVE - I (502405)

NOTE:-

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

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	COMPUTER INTEGRATED MANUFACTURING (502407)
Wednesday 14/12/2016	INDUSTRIAL PRODUCT DESIGN & PRODUCT LIFE CYCLE MANAGEMENT (502408)
Saturday 17/12/2016	AUTOMATED MANUFACTURING SYSTEM MODELLING (502409)
Wednesday 21/12/2016	ELECTIVE - II (502410)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	SIMULATION MODELLING (602413)
Thursday 15/12/2016	OPTIMIZATION TECHNIQUES (602414)
Monday 19/12/2016	ELECTIVE - III (602415)

MECHANICAL (ENERGY ENGINEERING)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	* ADVANCED MATHEMATICS & NUMERICAL METHODS (507101)
Tuesday 13/12/2016	ADVANCED THERMODYNAMICS (502502)
Friday 16/12/2016	** ADVANCED FLUID MECHANICS (502503)
Tuesday 20/12/2016	*** RESEARCH METHODOLOGY (502504)
Thursday 22/12/2016	ELECTIVE - I (502505)

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*

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ADVANCED HEAT TRANSFER (502107)
Wednesday 14/12/2016	ENERGY CONVERSION SYSTEMS (502508)
Saturday 17/12/2016	ENERGY MANAGEMENT (502509)
Wednesday 21/12/2016	ELECTIVE - II (502510)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	NUCLEAR MATERIALS & REACTOR FUNDAMENTALS (602513)
Thursday 15/12/2016	ENERGY SYSTEMS MODELLING & ANALYSIS (602514)
Monday 19/12/2016	ELECTIVE - III (602515)

MECHANICAL (MECHATRONICS)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	SYSTEM MODELLING, IDENTIFICATION & SIMULATION (502801)
Tuesday 13/12/2016	CONTROL SYSTEMS - I (502802)
Friday 16/12/2016	SENSORS, TRANSDUCERS & TRANSFACING TECHNIQUES (502803)
Tuesday 20/12/2016	* RESEARCH METHODOLOGY (502804)
Thursday 22/12/2016	ELECTIVE - I (502805)

NOTE:-

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

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	PLC PROGRAMMING (502807)
Wednesday 14/12/2016	CONTROL SYSTEMS II (502808)
Saturday 17/12/2016	INDUSTRIAL DRIVES & ACTUATORS (502809)
Wednesday 21/12/2016	ELECTIVE - II (502810)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	MICROCONTROLLER APPLICATIONS IN EMBEDDED SYSTEMS (602813)
Thursday 15/12/2016	FLEXIBLE MANUFACTURING SYSTEMS (602814)
Monday 19/12/2016	ELECTIVE - III (602815)

PETROLEUM ENGINEERING

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	NUMERICAL SIMULATION IN PETROLEUM ENGINEERING (512101)
Tuesday 13/12/2016	GEOLOGY IN RESERVOIR DESCRIPTION (512102)
Friday 16/12/2016	ADVANCED DRILLING ENGINEERING (512103)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (512104)
Thursday 22/12/2016	ELECTIVE - I (512105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	ADVANCED RESERVOIR ENGINEERING (512107)
Wednesday 14/12/2016	ENVIRONMENTAL TECHNOLOGY IN PETROLEUM ENGINEERING (512108)
Saturday 17/12/2016	ADVANCED PRODUCTION ENGINEERING (512109)
Wednesday 21/12/2016	ELECTIVE - II (512110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED WELL TESTING (512113)
Thursday 15/12/2016	ADVANCED WELL CONTROL (512114)
Monday 19/12/2016	ELECTIVE - III (512115)

POLYMER ENGINEERING

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	MATHEMATICAL & STATISTICAL METHODS (709115)
Tuesday 13/12/2016	PRINCIPLES OF MANAGEMENT (709116)
Friday 16/12/2016	ADVANCED POLYMER TECHNOLOGY (709117)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (709118)
Thursday 22/12/2016	ELECTIVE - I (709119)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	POLYMER PROCESSING & TESTING (709121)
Wednesday 14/12/2016	POLYMER PHYSICS & CHARACTERIZATION (709122)
Saturday 17/12/2016	POLYMER STRUCTURE & PROPERTIES (709123)
Wednesday 21/12/2016	ELECTIVE - II (709124)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	POLYMER RHEOLOGY (709127)
Thursday 15/12/2016	TRANSPORT PHENOMENON IN POLYMERS (709128)
Monday 19/12/2016	ELECTIVE - III (709129)

PRINTING ENGINEERING & GRAPHIC COMMUNICATION

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	PROBABILITY, STATISTICS & REGRESSION ANALYSIS (508101)
Tuesday 13/12/2016	PRINTING TECHNOLOGY MANAGEMENT (508102)
Friday 16/12/2016	MODERN TRENDS IN PRINTING (508103)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (508104)
Thursday 22/12/2016	ELECTIVE - I (508105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	COLOUR SCIENCE (508107)
Wednesday 14/12/2016	WEB HANDLING ON PRESS (508108)
Saturday 17/12/2016	SUBSTRATE & INK (508109)
Wednesday 21/12/2016	ELECTIVE - II (508110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	PRINTED ELECTRONICS & RFID (608101)
Thursday 15/12/2016	ADVANCES IN CONVERTING & PACKAGING (608102)
Monday 19/12/2016	ELECTIVE - III (608103)

PRODUCTION ENGINEERING (CAD/CAM)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	COMPUTER AIDED DESIGN (511301)
Tuesday 13/12/2016	COMPUTER AIDED MANUFACTURING (511302)
Friday 16/12/2016	ADVANCED MATHEMATICS & STATISTICS (511303)
Tuesday 20/12/2016	DESIGN OF EXPERIMENTS & RESEARCH METHODOLOGY (511304)
Thursday 22/12/2016	ELECTIVE - I (511305)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	COMPUTER INTEGRATED MANUFACTURING (511307)
Wednesday 14/12/2016	FINITE ELEMENT ANALYSIS (511308)
Saturday 17/12/2016	OPTIMIZATION TECHNIQUES (511309)
Wednesday 21/12/2016	ELECTIVE - II (511310)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED STRESS ANALYSIS (511313)
Thursday 15/12/2016	COMPUTER AIDED PRODUCTION PLANNING (511314)
Monday 19/12/2016	ELECTIVE - III (511315)

PRODUCTION ENGINEERING (MANUFACTURING & AUTOMATION)

SEM-I

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Thursday 08/12/2016	MATHEMATICS & STATISTICS (511101)
Tuesday 13/12/2016	INDUSTRIAL AUTOMATION (511102)
Friday 16/12/2016	ADVANCED MANUFACTURING PROCESSES (511103)
Tuesday 20/12/2016	RESEARCH METHODOLOGY (511104)
Thursday 22/12/2016	ELECTIVE - I (511105)

SEM-II

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Friday 09/12/2016	COMPUTER INTEGRATED MANUFACTURING (511107)
Wednesday 14/12/2016	TOOL & DIE DESIGN (511108)
Saturday 17/12/2016	ADVANCED JOINING PROCESSES (511109)
Wednesday 21/12/2016	ELECTIVE - II (511110)

SEM-III

	2013 Course TIME-02.30 PM To 05.30 PM
Day & Date	Subject
Saturday 10/12/2016	ADVANCED ROBOTICS (611101)
Thursday 15/12/2016	SURFACE ENGINEERING (611102)
Monday 19/12/2016	ELECTIVE - III (611103)

Ganeshkhind, Pune - 411 007

Ref.No/XCT/1497

Date:22/10/2016

Dr. Ashok Chavan

Controller of Examinations