

SHIVAJIUNIVERSITY, KOLHAPUR.

Final Programme of M. E. I, II Semester, Examination to be held in December-2015

CIRCULER NO - 414 Exam Of December- 2015

1. The candidates are requested to be present at their respective places of Examination FIFTEEN MINUTES before the time appointed for setting of the First Paper and TEN MINUTES before the time appointed for setting of each subsequent Paper. Candidates are forbidden to take any book or paper into the Examination Hall.
2. The M.E. Examination will be held at:

Sr. No.	Centre	College Name
1	Karad	Govt. College of Engineering, Karad
2	Satara	K.B.P, College of Engineering, Satara
3	Warananagar.	Tatyasaheb Kore Institute of Technology, Warananagar.
4	Sakharale	Rajarambapu Institute of Technology, Sakharale
5	Budhagaon.	P.V.P. Institute of Technology, Budhagaon.
6	Ichalkaranji	DKT's Textile & Engineering Institute, Ichalkaranji.
7	Jaysingpur.	Dr.J.J.Magadum College Of Enggi. Jaysingpur.
8	Ambabai Talim Savanshta, Miraj	Walchand College Of Enggi. Sangli.
9	Ashta	Annasaheb Dange College Of Enggi.&Tech. Ashta
10	Atigre	Sou. Sushila Danchand Ghodawat, Charitable Trusts Group of Institutions, Atigre
11	Wathar	Ashokrao Mane Group of Institutions Faculty of Engineering & Management Studies , Wathar
12	Department of Technology, New Building, Shivaji University, Kolhapur.	Kolhapur Institute Of Technology's College Of Enggi, Gokul Shirgaon, Kolhapur
		D.Y.Patil College Of Enggi.&Tech. Kasaba Bawada, Kolhapur
13	Panhala	Sanjeevan Engineering and Technology Institute, Panhala
14	AGC	Arvind Gavali College of Engineering

3. The written Examination will be conducted in the following order:

SEMESTER – I

Day & Date : - Monday 28—12-2015 Time: 10.00 am to 01.00 p.m.

BRANCH	Sub-Branch	Papers	
CIVIL	Structure	Theory of Elasticity & Plasticity Time: 10.00 am to 02.00 p.m.	34341
	Construction & Management	Project Evaluation and Financing	34319
ELECTRICAL	Power System	Power System Modeling and Stability	34336
	Control System	Linear System Theory	34331
BIOCHEMICAL ENGINEERING & BIO-TECHNOLOGY	-	Advanced Bio reaction Engineering	42982
COMPUTER SCIENCE	-	Mathematical Foundations of Computer Science	48760
CAD/CAM/CAE	-	Advanced Machine Design	48729
AUTOMOBILE	-	Design of Experiments & Research Methodology	38712

Old Course

Day & Date : - - Monday 28-12-2015 Time: 10.00 am to 01.00 p.m.

MECHANICAL	HPE	Advanced Fluid Mechanics and CFD	34414
	Design	Computational Techniques in Design Engineering	34427
	Product Design & Development	Applied Machine Design	48783

SEMESTER – I**Day & Date : - Wednesday 30-12-2015 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Mechanics of Structures Time: 10.00 am to 02.00 p.m.	34342
	Construction & Management	Planning & Management of Projects	34320
ELECTRICAL	Power System	Modern Power System Protection & Related Instrumentation	34337
	Control System	Applied Linear Algebra for Control System	34332
BIOCHEMICAL ENGINEERING & BIO-TECHNOLOGY	-	Advanced Biological Thermodynamics	42983
COMPUTER SCIENCE	-	Advanced Distributed System	48761
CAD/CAM/CAE	-	Computer Aided Manufacturing	48730
AUTO MOBILE	-	Automotive Engines & Emission	38713

Semester – I**Old Course****Day & Date : - Wednesday 30-12-2015 Time: 10.00 am to 01.00 p.m.**

MECHANICAL	Design	Industrial Instrumentation	34428
	Product Design & Development	Computer Aided Design and Simulation	48784

SEMESTER – I**Day & Date : - Friday 1-1-2016 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Adv. Design of Concrete Structure Time: 10.00 am to 02.00 p.m.	34343
	Construction & Management	Construction Methods	34321
ELECTRICAL	Power System	Modern Power System Analysis & Computer Methods	34338
	Control System	Process Control	34333
BIOCHEMICAL ENGINEERING & BIO - TECHNOLOGY	-	Advanced Microbiology & Biochemistry	42984
COMPUTER SCIENCE	-	Design & Analysis of Algorithm	48762
CAD/CAM/CAE	-	Finite Element Analysis	48731
AUTO MOBILE	-	Theory of Elasticity & Reliability	38714

Old Course**Day & Date : - Friday 1-1- 2016 Time: 10.00 am to 01.00 p.m.**

MECHANICAL	HPE	Adv. Instrumentation Techniques	34416
	Product Design & Development	Design of Experiments and Research Methodology	48785

SEMESTER - I**Day & Date : - Monday 4-1-2016 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Dynamics of Structure Time: 10.00 am to 02.00 p.m.	34344
	Construction & Management	Construction Equipment	34322
ELECTRICAL	Power System	E.H.V.A.C. Transmission	34339
	Control System	Digital Signal Processing	34334
BIOCHEMICAL ENGINEERING & BIO - TECHNOLOGY		Advanced Bioseparation Processes	42985
COMPUTER SCIENCE	-	Elective – I	
		Unix Network Programming	48763
		Real Time System	48764
		Data Mining & Warehousing	48765
CAD/CAM/CAE	-	Design of Experiments and Research Methodology	48732
AUTOMOBILE	-	Transmission System Theory & Design	38715

Old Course**Day & Date : - Monday 4-1-2016 Time: 10.00 am to 01.00 p.m.**

MECHANICAL	Design	Design of Experiments and Research Methodology	34430
	Product Design & Development	Dynamic Analysis & Testing Methodology	48786

SEMESTER – I**Day & Date : - Wednesday 6-1-2016 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers		
CIVIL	Structure	Elective-I Design of Foundations Time: 10.00am. to 02.00 p.m.	35983	
		Advances in Concrete Composites	35984	
		Structural Optimization	35985	
	Construction & Management	Elective-I Entrepreneurship in Construction		34440
		Human Resources Development in Construction		34323
		iii) Work Study & Incentive Mgt.		35993
BIOCHEMICAL ENGINEERING BIO-TECHNOLOGY		Elective-I		
		Immunotechnology	42986	
		Biosensor Technology	42987	
		Environmental Biotechnology	42988	
		Animal Biotechnology	42989	
CAD/CAM/CAE	-	Elective –I		
		Mechatronic Systems Design	48733	
		Technology Management Engineering	48734	
		Tribology & Surface Engineering	48735	
		MEMS & Nanotechnology	48736	
		Design & Development of CAD/CAM/CAE Software	48737	
		Advanced Materials & processing Forming	48738	
AUTOMOBILE	-	Elective –I		
		Finite Element Analysis	38716	
		Hydraulic & Pneumatic System	38717	
		Combustion Engineering	38718	
		Vehical Instrumentation & testing	38719	
		Automobile Air Conditioning	38720	

SEMESTER – I BRANCH - MECHANICAL**New-Course- From-DEC-2012****Time: 10.00 am to 01.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Monday 28-12-2015	Mechanical- Production Engineering	Advanced Materials and Manufacturing Processes	56210
Wednesday 30-12-2015		Design Of Experiments and Research Methodology	56211
Friday 1-1-2016		Metal Forming Technology	56212
Monday 4-1-2016	Elective-I	Facility Planning & Plant Layout	56216
		Advanced Machine Tool Design	56217
		Mechatronic System Design	56218
		Advanced Tooling & Die Design	56219
		Human Resource Management	56220
		Costing & Cost Control	56221
Wednesday 6-1-2016	Elective-II	Advanced Fluid Power Engg.	56222
		Manufacturing System Design	56223
		MEMS & Nanotechnology	56224
		Supply Chain Management & Logistics	56225
		Engineering Economics	56226
		Financial Management	56227
Only For Student & College Information			
Measurements & Instrumentation Lab Subject Code – 56213 Advanced CNC Technology Lab Subject Code – 56214 Seminar-I Subject Code – 56215			

SEMESTER – I BRANCH – MECHANICAL

New-Course- From-DEC-2012

Time: 10.00 am to 01.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Monday 28-12-2015	Mechanical-Product Design & Development	Applied Machine Design	56250
Wednesday 30-12-2015		Computer Aided Design and Simulation	56251
Friday 1-1-2016		Design Of Experiments and Research Methodology	56252
Monday 4-1-2016	Elective-I	Advanced Material and Processing	56254
		Industrial Automation	56255
		System Design	56256
		Material Handling Equipment Design	56257
Wednesday 6-1-2016	Elective-II	Dynamic Analysis & Testing Methodology	56258
		Reverse Engineering	56259
		Computational Fluid Dynamics	56260
		Design Optimization	56261
Only For Student & College Information			
		Seminar-I Subject Code -	56253

SEMESTER – I BRANCH - MECHANICAL**New-Course- From-DEC-2012****Time: 10.00 am to 01.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Monday 28-12-2015	Mechanical-Machine Design	Mathematical Modeling And Design Optimization	55589
Wednesday 30-12-2015		Advanced Mechanics Of Solids	55590
Friday 1-1-2016		Advanced Theory Of Vibrations	55591
Monday 4-1-2016	Elective-I	Tribology	55592
		Process Equipment Design	55593
		Advanced Finite Element Analysis	55594
		Mechatronics	55595
Wednesday 6-1-2016	Elective-II	Vibration Control and Condition Monitoring	55596
		Product Design and Development	55597
		Material Handling Equipment Design	55598
		Robotics	55599
Only For Student & College Information			
Instrumentation Lab Subject Code -			55600
Seminar – I Subject Code -			55601

SEMESTER – I BRANCH - MECHANICAL**New-Course- From-DEC-2012****Time: 10.00 am to 01.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Monday 28-12-2015	Mechanical-Heat Power & Engineering	Advanced Fluid Mechanics	56033
Wednesday 30-12-2015		Advanced Heat Transfer	56036
Friday 1-1-2016		Advanced Thermodynamics and Combustion	56034
Monday 4-1-2016	Elective-I	Advanced I.C. engine	56042
		Advanced Refrigeration	56132
		Advanced Power Plant Engineering	56133
Wednesday 6-1-2016	Elective-II	Advanced Automobile Engineering	56134
		Design Of Air Conditioning Systems	56135
		Energy Analysis and Management	56136
Only For Student & College Information			
Industrial Instrumentation Lab Subject Code -			56035
Seminar – I Subject Code -			56037

SEMESTER – I BRANCH – MECHANICAL**New-Course- From – DEC – 2012 Time: 10.00 am to 01.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Monday 28-12-2015	Mechanical-Design Engineering	Mathematical Modeling And Design Optimization	56137
Wednesday 30-12-2015		Solid Mechanics	56138
Friday 1-1-2016		Advanced Engineering Materials	56139
Monday 4-1-2016	Elective-I	Reliability Engineering	56142
		Process Equipment Design	56143
		Material Handling Equipment Design	56144
		Product Design & Development	56145
Wednesday 6-1-2016	Elective-II	Robotics	56146
		Machine Tool Design	56147
		Advanced Finite Element Analysis	56148
		Reverse Engineering	56149
Only For Student & College Information			
Instrumentation Lab Subject Code –			56140
Seminar-I Subject Code –			56141

SEMESTER – I BRANCH – ELECTRONICS**New-Course- From – DEC – 2012 Time: 10.00 am to 01.00 p.m.**

DAY & DATE	Sub – Branch	Paper	
Monday 28-12-2015	VLSI and Embedded System	CMOS VLSI Design – I	60742
Wednesday 30-12-2015		Advanced Digital Signal Processing	60743
Friday 1-1-2016		Advanced Embedded System	60744
Monday 4-1-2016		Digital Systems Engineering	60745
Wednesday 6-1-2016		Elective – I	
		DSP VLSI – I	60747
		System on Chip Architecture – I	60748
		Communication System Design	60749
		Algorithm for VLSI Design Automation	60750
Only For Student & College Information			
		Seminar – I	60746 TW

SEMESTER-I**BranchCivilEnvironmental(old)****Time : 10.00 am to 1-00 p.m.**

DAY & DATE	BRANCH	PAPER	
Monday 28-12-2015	Environmental	Environmental Chemistry and Microbiology	34442
Wednesday 30-12-2015		Advanced Water Supply Treatment Technology	34444
Friday 1-1-2016		Numerical Methods in Environmental Engg.	36019
Monday 4-1-2016		Municipal and Industrial Solid Waste Management	36020
Wednesday 6-1-2016		Elective-I	
		Hydrology and Watershed Mgt.	34445
		Disaster Management	36021
Only For Student & College Information			

SEMESTER – I BRANCH – ELECTRONICS & TELECOMMUNICATION(Old Course)**Time: 10.00 am to 01.00 p.m.**

DAY & DATE	Branch	Paper	
Monday 28-12-2015	Electronics & Telecommunication	Advanced Light Wave Communication	43019
Wednesday 30-12-2015		Linear Algebra and Error Control Techniques	43020
Friday 1-1-2016		Advanced Network Systems	43021
Monday 4-1-2016		Random Process	43022
Wednesday 6-1-2016		Elective – I	
		Digital Data Compression	43023
		Optimization Techniques	43024
		Real Time Embedded Systems	43025
Only For Student & College Information			

SEMESTER-I New course
Branch- Civil Environmental
Time : 10.00 am to 1-00 p.m.

DAY & DATE	BRANCH	PAPER	
Monday 28-12-2015	Environmental	Air and Noise Pollution	66362
Wednesday 30-12-2015		Solid and Hazardous Waste Management	66363
Friday 1-1-2016		Physics Chemical Processes for Water and Wastewater	66364
Monday 4-1-2016		Elective-I	
		Industrial Health and Safety Auditing	66366
		Optimization Techniques	66367
		Project Management	66368
Wednesday 6-1-2016		Elective-II	
		Energy Management	66369
		Operation and Maintenance of treatment Plants	66370
		Green Building	66371
Only For Student & College Information			

SEMESTER – I BRANCH – ELECTRONICS & TELECOMMUNICATION (New Course)
Time: 10.00 am to 01.00 p.m.

DAY & DATE	Branch	Paper	
Monday 28-12-2015	Electronics & Telecommunication	Advanced Embedded System	66385
Wednesday 30-12-2015		Error Control Coding Techniques	66386
Friday 1-1-2016		Advanced Wireless Communication	66387
Monday 4-1-2016		Random Process	66388
Wednesday 6-1-2016		Elective – I	
		Mobile Computing	66391
		Digital Data Compression	66392
		Internet Traffic Engineering	66393
		Advanced Antenna Theory	66394
Only For Student & College Information			

SEMESTER – II**Day & Date : - Tuesday 29-12-2015 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Theory of Plates and Shell Time 10.00 a.m. to 02.00 p. m.	34346
	Environment	Air Pollution & Control	34448
	Construction & Management	Const. Techniques	34324
ELECTRICAL	Power System	Power System Planning & Eco.	34515
	Control System	Non-Linear Control System	34526
ELECTRONICS & TELECOMM.	-	RF & Microwave Circuit Design	43027
BIOCHEMICAL ENGINEERING & BIOTECHNOLOGY	-	Bioreactor Design	43448
COMPUTER SCIENCE	-	Design of Database Systems	48768
CAD/CAM/CAE	-	Manufacturing Systems Design	48742
AUTOMOBILE	-	Engine Design	38722

From May 2014**Day & Date : - Tuesday 29-12-2015 Time: 10.00 am to 01.00 p.m.**

MECHANICAL	HPE-G.I	I. C. Engines - I	34419
	Product Design & Development	Manufacturing System Design	48799

SEMESTER – II**Day & Date : - Thursday 31-12-2015 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Finite Element Method Time 10.00 a.m. to 02.00 p. m.	34347
	Environment	Environmental Pollution & Impact Assessment	36022
	Construction & Management	Legal Aspects in Construction Engg.	34325
ELECTRICAL	Power System	Real Time Control of Power System	34516
	Control System	Optimal Control System	34527
ELECTRONICS & TELECOMM.	-	Wireless Communication	43028
BIOCHEMICAL ENGINEERING & BIO- TECHNOLOGY	-	Advanced Enzyme Technology	43449
COMPUTER SCIENCE	-	Network Core Protocols & Management	48769
CAD/CAM/CAE	-	Product Life Cycle Management	48743
AUTOMOBILE	-	Classic & Body Engg.	38723

New Course - May 2014**Day & Date : - Thursday 31-12-2015 Time: 10.00 am to 01.00 p.m.**

MECHANICAL			
	Design	M/C Dynamics	34433
	Product Design & Development	Rapid Prototyping	48800

SEMESTER - II**Day & Date : - Saturday 2-1-2016 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Earthquake Engineering Time 10.00 a.m. to 02.00 p. m.	34348
	Environment	Waste Management Techniques	34451
	Construction & Management	Management Information System for Construction Management	34326
ELECTRICAL	Power System	H.V.D.C. Transmission	34517
	Control System	Digital Control System	34528
ELECTRONICS & TELECOMM.	-	Adaptive Signal Processing	43029
BIOCHEMICAL ENGINEERING & BIO - TECHNOLOGY	-	Advanced Food Technology	43450
COMPUTER SCIENCE	-	Parallel Algorithms & Design	48770
CAD/CAM/CAE	-	Ind. Automation & Robotics	48744
AUTOMOBILE	-	Vehicle Dynamics	38724

From May - 2014**Day & Date : - Saturday 2-1-2016 Time: 10.00 am to 01.00 p.m.**

MECHANICAL			
	Product Design & Development	Creativity Innovation & New Product Development	48801

SEMESTER – II

Day & Date :- Tuesday 5-1-2016 Time: 10.00 am to 01.00 p.m.

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Advanced Design of Steel Structure Time: 10.00 a.m. to 02.00 p.m.	34349
	Environment	Environmental Policy Laws & Economic	36023
	Construction & Management	Computational Methods & Optimization Techniques	34327
ELECTRICAL	Power System	Elective-I H.V. Engg.	34518
		Power Controllers.	34519
		Power System Instrumentation	36015
		Fuzzy Logic & Artificial Neural Network	34520
	Control System	Elective-I Micro-Controllers & Applications	34529
		Optimization Techniques	34530
		Identification & Estimation	34531
		Adaptive Control Systems	34532
		Multivariable Control System	36051
		Robust Control	36052

ELECTRONICS & TELECOMM.	-	Elective-II	
		Multi Rate Systems & Filter	43030
		Cryptography & Network Security	43031
		Speech & Audio Processing	43032
BIOCHEMICAL ENGINEERING & BIO-TECHNOLOGY	-	Advanced Genetic Engineering	43451
COMPUTER SCIENCE	-	Elective – II	
		Artificial Neural Network & Genetic algorithms	48771
		Operating System Design & Evaluation	48772
		Multicore Architecture & Programming	48773
CAD/CAM/CAE	-	Optimization Techniques	48745
AUTOMOBILE	-	Noise & Vibration	38725

From May 2014

Day & Date :- Tuesday 5-1-2016 Time: 10.00 am to 01.00 p.m.

MECHANICAL	Design	Industrial Product Design	34435
	Product Design & Development	Product Life Cycle Management	48802

SEMESTER – II

Day & Date : - Friday 8-1-2016 Time: 10.00 am to 01.00 p.m.

BRANCH	Sub- Branch	Papers		
CIVIL	Structure	Elective-II Stability of Structure Time: 10.00 a.m. to 02.00 p.m.	35986	
		Design of R.C.C. Bridge	35987	
		Structural Reliability	34457	
		Design of Folded Plates and Shells	35988	
	Environment	Elective-II Environmental Quality Management	36024	
		Remote Sensing & GIS Applications in Environmental Engg.	36025	
	Construction & Management	Elective-II Advanced Construction	35995	
		Appropriate Technology	35996	
		Environmental Impact Assessment	35997	
	ELECTRICAL	Power System	Elective-II Adv. Microprocessor of Techniques for Power System	34521
			Electric Power Quality & Harmonics	34522
			Artificial Intelligence & Expert Systems	36016
Control System		Elective-II Fuzzy & Neural Control	34533	
		Applied Optimal Control	36053	
		Stochastic Control	36054	
		Real Time Computer Control	36055	
		Software Applications to Control System	36056	
		Robotics	36057	
ELECTRONICS & TELECOMM.		Elective-III Mobile Computing	43033	
	Stochastic Models & Queuing Theory	43034		
	Communication System Design	43035		
	Optical Networks	43036		
BIOCHEMICAL ENGINEERING & BIO-TECHNOLOGY	Elective-II Planet Biotechnology	43452		
	Pharmaceutical Biotechnology	43453		
	Advanced protein Engineering	43454		
	Advanced Bioinformatics	43455		

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SEMESTER – II**Day & Date :- Friday 8-1-2016 Time: 10.00 am to 01.00 p.m.**

CAD/CAM/CAE	Elective- II	
	Computational Fluid Dynamics	48746
	Quality & Reliability Engineering	48747
	System Dynamics & Simulation	48748
	Artificial Intelligence	48749
	Automatic Control Engineering	48750
	CAD/CAM/CAE Practices in Metal Forming	48751
Rapid Prototyping	48752	
AUTOMOBILE	Elective - II	
	Computational Fluid Dynamics	38726
	Human Resource Development	38727
	Advanced Automotive Electronics	38728
	Automotive Maintenance & Management	38729
	Tribology	38730
COMPUTER SCIENCE	-	-

SEMESTER – II BRANCH - MECHANICAL

From May 2014 Time: 10.00 am to 01.00 p.m.

Tuesday 29-12-2015	HPE Gr.-I, II, III	Computational Techniques in Thermal Engg.	34423
	Production	Elective-II Total Quality Management	36042
Advanced Material and Manufacturing Processes		56210	
Financial of Management		56227	
Mechatronic system Design		56218	
Manufacturing System Design		56223	
Tuesday 4-1-2016			
Thursday 6-1-2016			
Tuesday 29-12-2015	Design	Elective-II	
		Tribology	34544
	Product Design & Development	Elective-II Reliability Engineering	48803
		Experimental Stress Analysis	48804
		Engineering Optimization in Design	48805
		Industrial Robotics & Expert Systems	48806
		AI & Neural Network	48807
		TQM and Six Sigma	48808

SEMESTER – II BRANCH – MECHANICAL**New-Course – From - May – 2013 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 29-12-2015	Mechanical- Machine Design	Advanced Material Science	55602
Thursday 31-12-2015		Advanced Machine Design	55603
Saturday 2-1-2016		Mechanics Of Machinery	55604
Tuesday 5-1-2016	Elective-III	Experimental Stress Analysis	55605
		Composite Materials	55606
		Advanced Machine Tool Design	55607
		Open Elective	55608
Friday 8-1-2016	Elective-IV	Noise & Vibration Harshness (NVH)	55609
		Vehicle Dynamics	55610
		Engineering Fracture Mechanics	55611
		Reliability Engineering	55612
Only For Student & College Information			
		Computer Aided Analysis Lab – 55613	T/W Ext.
		Seminar – II 55614	Ext.
		Comprehensive Viva 55618	Ext.

SEMESTER – II BRANCH - MECHANICAL**New-Course- From - May-2013 Time : 10.00 am. To 01.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 29-12-2015	Mechanical- Heat Power & Engineering	Numerical Computation of Fluid & Heat Flow	56043
Thursday 31-12-20-15		Energy Analysis of Thermal System	56044
Saturday 2-1-2016		Design Of Heat Transfer Equipments	56045
Tuesday 5-1-2016	Elective-III	Design Of Renewable Energy Equipments & System	56049
		Cryogenics	56050
		Open Elective	56053
Friday 8-1-2016	Elective-IV	Gas Turbines & Jet Propulsion	56051
		Advanced Mathematical Methods & Optimization	56052
		Design Of pumps, Compressors & Blowers	56054
Only For Student & College Information			
		Thermal Engg. Lab. - 56046	T/W & Ext.
		Seminar – II 56047	T/W
		Comprehensive viva - 56048	

SEMESTER – II BRANCH - MECHANICAL

New-Course - From – May – 2013 Time: 10.00 am. To 01.00 pm.

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 29-12-2015	Mechanical-Design Engineering	Advanced Theory Of Vibrations	56150
Thursday 31-12-2015		Advanced Design Engineering	56151
Saturday 2-1-2016		Analysis and Synthesis of Mechanisms	56152
Tuesday 5-1-2016	Elective-III	Design for Sustainability & Life Cycle Cost	56158
		Tribology	56159
		Open Elective	56160
		Experimental Stress Analysis	56157
Friday 8-1-2016	Elective-IV	Noise And Vibration Harshness (NVH)	56161
		Vehicle Dynamics	56162
		Engineering Fracture Mechanics	56163
		Design for Manufacture & Assembly	56164
Only For Student & College Information			
		Computer Aided Analysis Lab –	56153 T/W & Ext
		Seminar – II	56154 T/W
		Comprehensive Viva	56155
		Industrial Training	56156

SEMESTER – II BRANCH - MECHANICAL**New – Course – From – May – 2013 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 29-12-2015	Mechanical-Production Engineering	Optimization Techniques	56228
Thursday 31-12-2015		Advanced Casting Technology	56229
Saturday 2-1-2016		Production & Operations Management	56230
Tuesday 5-1-2016	Elective-III	Fabrication Engg. Welding Technology	56235
		Entrepreneurship Development	56236
		Precision Manufacturing	56237
		Reliability Engineering	56238
		World Class Manufacturing	56239
		Total Quality Management	56240
Friday 8-1-2016	Elective-IV	Plastics Processing & Die Design	56241
		Automatic Control Engineering	56242
		Enterprise Resource Planning	56243
		Industrial Automation & Robotics	56244
		Project Management	56245
		Open Elective	56246
Only For Student & College Information			
		Adv. Manufacturing Engg. Lab. – 56231 T/W	Ext.
		Automation & Simulation Lab. - 56232 T/W	Ext.
		Seminar- II 56233 T/W	
		Comprehensive Viva Voce 56234	Ext.

SEMESTER – II BRANCH - MECHANICAL**New-Course – From – May – 2013 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 29-12-2015	Mechanical-Product Design & Development	Manufacturing System Design	56262
Thursday 31-12-2015		Creativity, Innovation & New Product Development	56263
Saturday 2-1-2016		Product Life Cycle Management	56264
Tuesday 5-1-2016	Elective-III	Experimental Stress Analysis	56267
		Reliability Engineering	56268
		Industrial Robotics & Expert System	56269
		Open Elective	56270
Friday 8-1-2016	Elective-IV	Rapid Prototyping	56271
		Engineering Optimization In Design	56272
		AI.& Neural Network	56273
		TQM & Six Sigma	56274
Only For Student & College Information			
		Seminar-II	56265 T/W
		Comprehensive Viva	56266 Ext.

SEMESTER II**BRANCH – VLSI AND EMBEDDED SYSTEM****New Course From – May 2014 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 29-12-2015	VLSI AND EMBEDDED SYSTEM	CMOS VLSI DESIGN –II	60751
Thursday 31-12-2015		Analog & Mixed signal Design	60752
Saturday 2-1-2016		Embedded Software Design	60753
Tuesday 5-1-2016		Testing & Text ability	60754
Friday 8-1-2016	Elective-II	DSP VLSI – II	60756
		Automotive Embedded System	60757
		Low Power VLSI design	60758
		System on chip Architecture –II	60759

SEMESTER I**New Course From – DEC 2014 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	BRANCH	PAPER	
Monday 28-12-2015	CHEMICAL	Advanced Momentum and Heat Transfer	64209
Wednesday 30-12-2015		Advanced Chemical Engineering Thermodynamics	64210
Friday 1-1-2016		Process Modeling in Chemical Engineering	64211
Monday 4-1-2016		Elective-I Nanotechnology	64212
		Green Technology	64213
		Pharmaceutical Biotechnology	64214
Wednesday 6-1-2016		Elective-II Catalysis and Surface Phenomena	64215
		Bioprocess Engineering	64216
		Material Engineering	64217
		Process and Equipment Design	64218

SEMESTER I**New Course From – DEC 2014 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	BRANCH	PAPER	
Monday 28-12-2015	ELECTRONIC	Advanced Digital Signal processing	63931
Wednesday 30-12-2015		CMOS VLSI Design	63932
Friday 1-1-2016		Random Signal Processing	63933
Monday 4-1-2016		Elective-I High Performance Communication Network	63934
		Design of Digital Circuit and Logic Design	63935
		Optimization Techniques	63936
		Advance Communication System	63937
Wednesday 6-1-2016		Elective II Software Defined Radios	63938
		Image Processing And Application	63939
		Design of VLSI System	63940
		Robotic and Application	63941
		Wireless Sensor network	63942
	Industrial DC Drives	63943	

SEMESTER I**New Course From – DEC 2014 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	BRANCH	PAPER	
Monday 28-12-2015	CAD-CAM	Design of Experiments and Research Methodology	63965
Wednesday 31-12-2015		Finite Elements Analysis	63966
Friday 1-1-2016		Micro Electro-Mechanical System	63967
Monday 4-1-2016		Computer Aided Manufacturing	63968
Wednesday 6-1-2016		Elective-I Advanced Design Engineering	63969
		Advanced Tool Design	63970
		Design of Hydraulic and Phenaulic System	63971
		Mechatronic System Design	63972

Semester-II**OLD - Course UP TO -Dec 2015 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	BRANCH	PAPER	
Tuesday 29-12-2015	CHEMICAL	Environmental Bio-Technology	36134
Thursday 31-12-2015		Advanced Mass Transfer	34468
Saturday 2-1-2016		Advanced Reaction Engg.	34469
Tuesday 5-1-2016		Advanced Process Dynamics & Control	34470
----- Thursday 8-1-2016		Ele.-III Environmental Engineering Air Pollution Control Engg. Bio-Chemical Engineering	34471 34472 34473
Saturday 10-1-2016		ElectiveIV Energy Conservation & Recovery	34474
		Catalysis	34475
		Energy Engineering	34476

SEMESTER II**New Course From May- 2015 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	BRANCH	PAPER	
Tuesday 29-12-2015	CHEMICAL	Advanced Mass Transfer System	64221
Thursday 31-12-2015		Modern Reaction Engineering	64222
Saturday 2-1-2016		Chemical Process Control	64223
Tuesday 5-1-2016		Elective-III Computational Fluid Dynamics	64224
		Energy Engineering	64225
		Redearch Methodology	64226
Friday 8-1-2016		ElectiveIV Project Management	64227
		Modern Separation Process	64228
		Down Stream Processing	64229
		Operation Research	64230

SEMESTER I I**OLD-Course UP TO – Dec 2015 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	BRANCH	PAPER	
Tuesday 29-12-2015	ELECTRONIC	Advanced Computer Architecture	34503
Thursday 31-12-2015		Embedded System Design	34502
Saturday 2-1-2016		Advanced Process Control	34503
Tuesday 5-1-2016		Elective-II Communication Switeching System	34505
		Mobile Communiocation Engineering	34506
		Neural Network	34507
		Distributed Database System	34508
Friday 8-1-2016		Elective-III Broadband Communication	34509
	Web Technology	34510	
	Software Engineering	34511	

SEMESTER II**New Course From – May 2015 Time: 10.00 am. To 01.00 pm.**

DAY & DATE	BRANCH	PAPER	
Tuesday 29-12-2015	ELECTRONIC	Real Time Embedded System Design	63946
Thursday 31-12-2015		Advanced Process Control	63947
Saturday 2-1-2016		Power Electronics System	63948
Tuesday 5-1-2016		Elective-III Design and Analysis or Algorithms	63949
		Design of Analog and Mixed Mode VLSI Circuits	63950
		Artificial Neural Networks	63951
		Cryptography and Network Security Cognitive Radio Communication and Network	63952 64059
Friday 8-1-2016		Elective-IV Fuzzy System VLSI in Digital Signal Processing RF & Microwave Circuits Renewable & Distributed Energy System Advanced Computer Architecture	63954 63955 63956 63957 63958

New Course From – DEC 2014 Time: 10.00 am. To 01.00 pm.

DAY & DATE	BRANCH	PAPER	
Tuesday 29-12-2015	CAD-CAM	Product Life Cycle Management	63976
Thursday 31-12-2015		Advanced Mechanics or Materials	63977
Saturday 2-1-2016		Automation & Robotics	63978
Tuesday 5-1-2016		Design Optimization Techniques	63979
Friday 8-1-2016		Elective-II Nano Technology	63980
		Industrial Product Design	63981
		Computational Fluid Dynamics	63982
		Reliability Engineering	63983

NOTE:

- 1) The examination programme is subject to change. If there is any change in examination programme, it will be communicated in time however the University is not responsible for the loss or inconvenience caused to the candidate.
- 2) The Candidates are allowed to use the electronic calculators for numerical calculations at their own cost. University will not supply such calculators.
- 3) The cellular Phone, Scientific Calculator, Pager & Digital Diary or any means, which can be used for unfair practice, are not allowed in the Examination hall.
- 4) The students should verify the customized time table given on their Hall Ticket with the final Programme sent to their college at least two days prior to the date of examination.

Sd/-

Vidyanagar,
Kolhapur- 416 004.
Date 20-10-2015

M.A.Kakade
Controller of Examinations