

## SHIVAJI UNIVERSITY, KOLHAPUR.



**FINAL Programme of M. E. I, II Semester, Examination to  
be held in May-2015**

**CIRCULER NO -191 Exam Of May- 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
		Bharati Vidyapiths College Of Enggi. Near Chitra Nagari , Kolhapur

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

**SEMESTER – I****Day & Date : - Monday 25-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub-Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Theory of Elasticity & Plasticity <b>Time: 10.00 am to 02.00 p.m.</b>	<b>34341</b>
	<b>Environmental</b>	Environmental Chemistry & Microbiology	<b>34442</b>
	<b>Construction &amp; Management</b>	Project Evaluation and Financing	<b>34319</b>
<b>ELECTRICAL</b>	<b>Power System</b>	Power System Modeling and Stability	<b>34336</b>
	<b>Control System</b>	Linear System Theory	<b>34331</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	Advanced Light wave communication	<b>43019</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIO-TECHNOLOGY</b>	-	Advanced Bio reaction Engineering	<b>42982</b>
<b>COMPUTER SCIENCE</b>	-	Mathematical Foundations of Computer Science	<b>48760</b>
<b>CAD/CAM/CAE</b>	-	Advanced Machine Design	<b>48729</b>
<b>AUTOMOBILE</b>	-	Design of Experiments & Research Methodology	<b>38712</b>

**Old Course****Day & Date : - Monday 25-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>	HPE	Advanced Fluid Mechanics and CFD	<b>34414</b>
	Product Design & Development	Applied Machine Design	<b>48783</b>

**SEMESTER – I****Day & Date : - Wednesday 27-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Mechanics of Structures Time: 10.00 am to 02.00 p.m.	<b>34342</b>
	<b>Environment</b>	Advanced Water-Supply Treatment Technology	<b>34444</b>
	<b>Construction &amp; Management</b>	Planning & Management of Projects	<b>34320</b>
<b>ELECTRICAL</b>	<b>Power System</b>	Modern Power System Protection & Related Instrumentation	<b>34337</b>
	<b>Control System</b>	Applied Linear Algebra for Control System	<b>34332</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	Linear Algebra & Error Control Techniques	<b>43020</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIO-TECHNOLOGY</b>	-	Advanced Biological Thermodynamics	<b>42983</b>
<b>COMPUTER SCIENCE</b>	-	Advanced Distributed System	<b>48761</b>
<b>CAD/CAM/CAE</b>	-	Computer Aided Manufacturing	<b>48730</b>
<b>AUTO MOBILE</b>	-	Automotive Engines & Emission	<b>38713</b>

**Semester – I****Old Course****Day & Date : - Wednesday 27-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>			
	Product Design & Development	Computer Aided Design and Simulation	<b>48784</b>

**SEMESTER – I****Day & Date : - Friday 29-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Adv. Design of Concrete Structure <b>Time: 10.00 am to 02.00 p.m.</b>	<b>34343</b>
	<b>Environment</b>	Numerical Methods in Environmental Engg.	<b>36019</b>
	<b>Construction &amp; Management</b>	Construction Methods	<b>34321</b>
<b>ELECTRICAL</b>	<b>Power System</b>	Modern Power System Analysis & Computer Methods	<b>34338</b>
	<b>Control System</b>	Process Control	<b>34333</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	Advanced Network Systems	<b>43021</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIO - TECHNOLOGY</b>	-	Advanced Microbiology & Biochemistry	<b>42984</b>
<b>COMPUTER SCIENCE</b>	-	Design & Analysis of Algorithm	<b>48762</b>
<b>CAD/CAM/CAE</b>	-	Finite Element Analysis	<b>48731</b>
<b>AUTO MOBILE</b>	-	Theory of Elasticity & Reliability	<b>38714</b>

**Old Course****Day & Date : - Friday 29-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>	HPE	Adv. Instrumentation Techniques	<b>34416</b>
	Product Design & Development	Design of Experiments and Research Methodology	<b>48785</b>
	Design	Computational Techniques in Design Engineering	<b>34427</b>

**SEMESTER - I****Day & Date : - Monday 1-6-2015 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
<b>CIVIL</b>	<b>Structure</b>	Dynamics of Structure <b>Time: 10.00 am to 02.00 p.m.</b>	<b>34344</b>
	<b>Environment</b>	Municipal and Industrial Solid Waste Management	<b>36020</b>
	<b>Construction &amp; Management</b>	Construction Equipment	<b>34322</b>
<b>ELECTRICAL</b>	<b>Power System</b>	E.H.V.A.C. Transmission	<b>34339</b>
	<b>Control System</b>	Digital Signal Processing	<b>34334</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	Random Processes	<b>43022</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIO - TECHNOLOGY</b>		Advanced Bioseparation Processes	<b>42985</b>
<b>COMPUTER SCIENCE</b>	-	<b>Elective – I</b>	
		Unix Network Programming	<b>48763</b>
		Real Time System	<b>48764</b>
		Data Mining & Warehousing	<b>48765</b>
<b>CAD/CAM/CAE</b>	-	Design of Experiments and Research Methodology	<b>48732</b>
<b>AUTOMOBILE</b>	-	Transmission System Theory & Design	<b>38715</b>

**Old Course****Day & Date : - Monday 1-6-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>	Design	Design of Experiments and Research Methodology	<b>34430</b>
	Product Design & Development	Dynamic Analysis & Testing Methodology	<b>48786</b>

**Day & Date Tuesday 2-6-2015 Time : 10.00 a.m. to 1.00 p.m.**

<b><u>MECHANICAL</u></b>	<b><u>Design</u></b>	<b><u>Industrial Instrumentation</u></b>	<b><u>(34428)</u></b>
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**SEMESTER – I****Day & Date : - Wednesday 3-6-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	<b>Elective-I</b> Design of Foundations <b>Time: 10.00am. to 02.00 p.m.</b>	<b>35983</b>
		Advances in Concrete Composites	<b>35984</b>
		Structural Optimization	<b>35985</b>
	<b>Environment</b>	<b>Elective-I</b> Hydrology & Watershed Mgt.	<b>34443</b>
		Disaster Management	<b>36021</b>
	<b>Construction &amp; Management</b>	<b>Elective-I</b> Entrepreneurship in Construction	<b>34440</b>
		Human Resources Development in Construction	<b>34323</b>
		iii) Work Study & Incentive Mgt.	<b>35993</b>
	<b>ELECTRONICS &amp; TELECOMM.</b>	-	<b>Elective-I</b> Digital Data Compression
Optimization Technique			<b>43024</b>
Real Time Embedded Systems			<b>43025</b>
<b>BIOCHEMICAL ENGINEERING BIO - TECHNOLOGY</b>	-	<b>Elective-I</b>	
		Immunotechnology	<b>42986</b>
		Biosensor Technology	<b>42987</b>
		Environmental Biotechnology	<b>42988</b>
		Animal Biotechnology	<b>42989</b>
<b>CAD/CAM/CAE</b>	-	<b>Elective –I</b>	
		Mechatronic Systems Design	<b>48733</b>
		Technology Management Engineering	<b>48734</b>
		Tribology & Surface Engineering	<b>48735</b>
		MEMS & Nanotechnology	<b>48736</b>
		Design & Development of CAD/CAM/CAE Software	<b>48737</b>
<b>AUTOMOBILE</b>	-	<b>Elective –I</b>	
		Finite Element Analysis	<b>38716</b>
		Hydraulic & Pneumatic System	<b>38717</b>
		Combustion Engineering	<b>38718</b>
		Vehical Instrumentation & testing	<b>38719</b>
		Automobile Air Conditioning	<b>38720</b>

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

<b>DAY &amp; DATE</b>	<b>SUB-BRANCH</b>	<b>PAPER</b>	
<b>Monday 25-5-2015</b>	<b>Mechanical- Production Engineering</b>	Advanced Materials and Manufacturing Processes	<b>56210</b>
<b>Wednesday 27-5-2015</b>		Design Of Experiments and Research Methodology	<b>56211</b>
<b>Friday 29-5-2015</b>		Metal Forming Technology	<b>56212</b>
<b>Monday 1-6-2015</b>	<b>Elective-I</b>	Facility Planning & Plant Layout	<b>56216</b>
		Advanced Machine Tool Design	<b>56217</b>
		Mechatronic System Design	<b>56218</b>
		Advanced Tooling & Die Design	<b>56219</b>
		Human Resource Management	<b>56220</b>
		Costing & Cost Control	<b>56221</b>
<b>Wednesday 3-6-2015</b>	<b>Elective-II</b>	Advanced Fluid Power Engg.	<b>56222</b>
		Manufacturing System Design	<b>56223</b>
		MEMS & Nanotechnology	<b>56224</b>
		Supply Chain Management & Logistics	<b>56225</b>
		Engineering Economics	<b>56226</b>
		Financial Management	<b>56227</b>
<b>Only For Student &amp; College Information</b>			
<b>Measurements &amp; Instrumentation Lab Subject Code – 56213</b> <b>Advanced CNC Technology Lab Subject Code – 56214</b> <b>Seminar-I Subject Code – 56215</b>			

## SEMESTER – I    BRANCH – MECHANICAL

**New-Course- From-DEC-2012**

**Time: 10.00 am to 01.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
<b>Monday 25-5-2015</b>	<b>Mechanical-Product Design &amp; Development</b>	Applied Machine Design	<b>56250</b>
<b>Wednesday 27-5-2015</b>		Computer Aided Design and Simulation	<b>56251</b>
<b>Friday 29-5-2015</b>		Design Of Experiments and Research Methodology	<b>56252</b>
<b>Monday 1-6-2015</b>	<b>Elective-I</b>	Advanced Material and Processing	<b>56254</b>
		Industrial Automation	<b>56255</b>
		System Design	<b>56256</b>
		Material Handling Equipment Design	<b>56257</b>
<b>Wednesday 3-6-2015</b>	<b>Elective-II</b>	Dynamic Analysis & Testing Methodology	<b>56258</b>
		Reverse Engineering	<b>56259</b>
		Computational Fluid Dynamics	<b>56260</b>
		Design Optimization	<b>56261</b>
<b>Only For Student &amp; College Information</b>			
		<b>Seminar-I    Subject Code -</b>	<b>56253</b>



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

DAY & DATE	SUB-BRANCH	PAPER	
Monday 25-5-2015	Mechanical-Machine Design	Mathematical Modeling And Design Optimization	55589
Wednesday 27-5-2015		Advanced Mechanics Of Solids	55590
Friday 29-5-2015		Advanced Theory Of Vibrations	55591
Monday 1-6-2015	Elective-I	Tribology	55592
		Process Equipment Design	55593
		Advanced Finite Element Analysis	55594
		Mechatronics	55595
Wednesday 3-6-2015	Elective-II	Vibration Control and Condition Monitoring	55596
		Product Design and Development	55597
		Material Handling Equipment Design	55598
		Robotics	55599
<b>Only For Student &amp; College Information</b>			
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 25-5-2015	Mechanical-Heat Power & Engineering	Advanced Fluid Mechanics	56033
Wednesday 27-5-2015		Advanced Heat Transfer	56036
Friday 29-5-2015		Advanced Thermodynamics and Combustion	56034
Monday 1-6-2015	Elective-I	Advanced I.C. engine	56042
		Advanced Refrigeration	56132
		Advanced Power Plant Engineering	56133
Wednesday 3-6-2015	Elective-II	Advanced Automobile Engineering	56134
		Design Of Air Conditioning Systems	56135
		Energy Analysis and Management	56136
<b>Only For Student &amp; College Information</b>			
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 25-5-2015	Mechanical-Design Engineering	Mathematical Modeling And Design Optimization	56137
Wednesday 27-5-2015		Solid Mechanics	56138
Friday 29-5-2015		Advanced Engineering Materials	56139
Monday 1-6-2015	Elective-I	Reliability Engineering	56142
		Process Equipment Design	56143
		Material Handling Equipment Design	56144
		Product Design & Development	56145
Wednesday 3-6-2015	Elective-II	Robotics	56146
		Machine Tool Design	56147
		Advanced Finite Element Analysis	56148
		Reverse Engineering	56149
<b>Only For Student &amp; College Information</b>			
		<b>Instrumentation Lab Subject Code –</b>	<b>56140</b>
		<b>Seminar-I Subject Code –</b>	<b>56141</b>

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

DAY & DATE	Sub – Branch	Paper	
Monday 25-5-2015	VLSI and Embedded System	CMOS VLSI Design – I	60742
Wednesday 27-5-2015		Advanced Digital Signal Processing	60743
Friday 29-5-2015		Advanced Embedded System	60744
Monday 1-6-2015		Digital Systems Engineering	60745
Wednesday 3-6-2015		<b>Elective – I</b>	
		DSP VLSI – I	60747
		System on Chip Architecture – I	60748
		Communication System Design	60749
		Algorithm for VLSI Design Automation	60750
<b>Only For Student &amp; College Information</b>			
		Seminar – I	60746 TW

**SEMESTER – II****Day & Date : - Tuesday 26-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Theory of Plates and Shell Time 10.00 a.m. to 02.00 p. m.	<b>34346</b>
	<b>Environment</b>	Air Pollution & Control	<b>34448</b>
	<b>Construction &amp; Management</b>	Const. Techniques	<b>34324</b>
<b>ELECTRICAL</b>	<b>Power System</b>	Power System Planning & Eco.	<b>34515</b>
	<b>Control System</b>	Non-Linear Control System	<b>34526</b>
<b>ELECTRONICS</b>	-	Advanced Computer Architecture	<b>34503</b>
<b>CHEMICAL</b>	-	Advanced Mass Transfer	<b>34468</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	RF & Microwave Circuit Design	<b>43027</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIOTECHNOLOGY</b>	-	Bioreactor Design	<b>43448</b>
<b>COMPUTER SCIENCE</b>	-	Design of Database Systems	<b>48768</b>
<b>CAD/CAM/CAE</b>	-	Manufacturing Systems Design	<b>48742</b>
<b>AUTOMOBILE</b>	-	Engine Design	<b>38722</b>

**From May 2014****Day & Date : - Tuesday 26-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>	<b>HPE-G.I</b>	I. C. Engines - I	<b>34419</b>
	<b>Product Design &amp; Development</b>	Manufacturing System Design	<b>48799</b>

**SEMESTER – II****Day & Date : - Thursday 28-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Finite Element Method Time 10.00 a.m. to 02.00 p. m.	<b>34347</b>
	<b>Environment</b>	Environmental Pollution & Impact Assessment	<b>36022</b>
	<b>Construction &amp; Management</b>	Legal Aspects in Construction Engg.	<b>34325</b>
<b>ELECTRICAL</b>	<b>Power System</b>	Real Time Control of Power System	<b>34516</b>
	<b>Control System</b>	Optimal Control System	<b>34527</b>
<b>ELECTRONICS</b>	-	Embedded System Design	<b>34502</b>
<b>CHEMICAL</b>	-	Advanced Reaction Engg.	<b>34469</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	Wireless Communication	<b>43028</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIO- TECHNOLOGY</b>	-	Advanced Enzyme Technology	<b>43449</b>
<b>COMPUTER SCIENCE</b>	-	Network Core Protocols & Management	<b>48769</b>
<b>CAD/CAM/CAE</b>	-	Product Life Cycle Management	<b>48743</b>
<b>AUTOMOBILE</b>	-	Classic & Body Engg.	<b>38723</b>

**New Course - May 2014****Day & Date : - Thursday 28-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>			
	<b>Product Design &amp; Development</b>	Rapid Prototyping	<b>48800</b>

**SEMESTER - II****Day & Date : - Saturday 30-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Earthquake Engineering Time 10.00 a.m. to 02.00 p. m.	<b>34348</b>
	<b>Environment</b>	Waste Management Techniques	<b>34451</b>
	<b>Construction &amp; Management</b>	Management Information System for Construction Management	<b>34326</b>
<b>ELECTRICAL</b>	<b>Power System</b>	H.V.D.C. Transmission	<b>34517</b>
	<b>Control System</b>	Digital Control System	<b>34528</b>
<b>ELECTRONICS</b>	-	Advanced Process Control	<b>34504</b>
<b>CHEMICAL</b>	-	Advanced Process Dynamics and Control	<b>34470</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	Adaptive Signal Processing	<b>43029</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIO - TECHNOLOGY</b>	-	Advanced Food Technology	<b>43450</b>
<b>COMPUTER SCIENCE</b>	-	Parallel Algorithms & Design	<b>48770</b>
<b>CAD/CAM/CAE</b>	-	Ind. Automation & Robotics	<b>48744</b>
<b>AUTOMOBILE</b>	-	Vehicle Dynamics	<b>38724</b>

**From May - 2014****Day & Date : - Saturday 30-5-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>			
	<b>Product Design &amp; Development</b>	Creativity Innovation & New Product Development	<b>48801</b>

**SEMESTER – II****Day & Date :- Tuesday 2-6-2015 Time: 10.00 am to 01.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Advanced Design of Steel Structure Time: 10.00 a.m. to 02.00 p.m.	<b>34349</b>
	<b>Environment</b>	Environmental Policy Laws & Economic	<b>36023</b>
	<b>Construction &amp; Management</b>	Computational Methods & Optimization Techniques	<b>34327</b>
<b>ELECTRICAL</b>	<b>Power System</b>	<b>Elective-I</b> H.V. Engg.	<b>34518</b>
		Power Controllers.	<b>34519</b>
		Power System Instrumentation	<b>36015</b>
		Fuzzy Logic & Artificial Neural Network	<b>34520</b>
	<b>Control System</b>	<b>Elective-I</b> Micro-Controllers & Applications	<b>34529</b>
		Optimization Techniques	<b>34530</b>
		Identification & Estimation	<b>34531</b>
		Adaptive Control Systems	<b>34532</b>
		Multivariable Control System	<b>36051</b>
		Robust Control	<b>36052</b>
<b>ELECTRONICS</b>	-	<b>Elective-II</b> Communication Switching System	<b>34505</b>
		Mobile Communication Engg.	<b>34506</b>
		Neural Networks	<b>34507</b>
		Distributed Database Systems	<b>34508</b>

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**SEMESTER - II****Day & Date :- Tuesday 2-6-2015 Time: 10.00 am to 01.00 p.m.**

BRANCH	Sub- Branch	Papers	
<b>CHEMICAL</b>	-	<b>Elective-III</b>	<b>34471</b>
		Environmental Engg.	
		Air Pollution & Control	<b>34472</b>
		Bio-Chemical Engg.	<b>34473</b>
<b>ELECTRONICS &amp; TELECOMM.</b>	-	<b>Elective-II</b>	
		Multi Rate Systems & Filter	<b>43030</b>
		Cryptography & Network Security	<b>43031</b>
		Speech & Audio Processing	<b>43032</b>
<b>BIOCHEMICAL ENGINEERING &amp; BIO-TECHNOLOGY</b>	-	Advanced Genetic Engineering	<b>43451</b>
<b>COMPUTER SCIENCE</b>	-	<b>Elective – II</b>	
		Artificial Neural Network & Genetic algorithms	<b>48771</b>
		Operating System Design & Evaluation	<b>48772</b>
		Multicore Architecture & Programming	<b>48773</b>
<b>CAD/CAM/CAE</b>	-	Optimization Techniques	<b>48745</b>
<b>AUTOMOBILE</b>	-	Noise & Vibration	<b>38725</b>

**From May 2014****Day & Date :- Tuesday 2-6-2015 Time: 10.00 am to 01.00 p.m.**

<b>MECHANICAL</b>			
	<b>Product Design &amp; Development</b>	Product Life Cycle Management	<b>48802</b>

**Day & Date Thursday 4-6-2015 Time 10.00 a.m. to 1-00 p.m.**

<b>MECHANICAL</b>	<b>Design</b>	<b>M/C Dynamics</b>	<b>34433</b>
	<b>Design</b>	Industrial Product Design	<b>34435</b>

**SEMESTER – II**

Day &amp; Date : - Friday 5-6-2015 Time: 10.00 am to 01.00 p.m.

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	<b>Elective-II</b> 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	<b>Elective-II</b> Environmental Quality Management	36024
		Remote Sensing & GIS Applications in Environmental Engg.	36025
	Construction & Management	<b>Elective-II</b> Advanced Construction	35995
		Appropriate Technology	35996
		Environmental Impact Assessment	35997
	ELECTRICAL	Power System	<b>Elective-II</b> Adv. Microprocessor of Techniques for Power System
Electric Power Quality & Harmonics			34522
Artificial Intelligence & Expert Systems			36016
Control System		<b>Elective-II</b> 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		<b>Elective-III</b> Broad Band Communication	34509
	Web Technology	34510	
	Software Engineering	34511	
CHEMICAL	<b>Elective-IV</b> Energy Conservation & Recovery	34474	
	Catalysts	34475	
	Energy Engineering	34476	
ELECTRONICS & TELECOMM.	<b>Elective-III</b> Mobile Computing	43033	
	Stochastic Models & Queuing Theory	43034	
	Communication System Design	43035	
	Optical Networks	43036	
BIOCHEMICAL ENGINEERING & BIO-TECHNOLOGY	<b>Elective-II</b> Planet Biotechnology	43452	
	Pharmaceutical Biotechnology	43453	
	Advanced protein Engineering	43454	
	Advanced Bioinformatics	43455	

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**SEMESTER – II****Day & Date :- Friday 5-6-2015 Time: 10.00 am to 01.00 p.m.**

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

## SEMESTER – II      BRANCH - MECHANICAL

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

<b>Monday 25-5-2015</b>	<b>HPE Gr.-I, II, III</b>	Computational Techniques in Thermal Engg.	<b>34423</b>
	<b>Production</b>	<b>Elective-II</b> Total Quality Management	<b>36042</b>
Advanced Material and Manufacturing Processes		<b>56210</b>	
Financial of Management		<b>56227</b>	
Mechatronic system Design		<b>56218</b>	
Manufacturing System Design		<b>56223</b>	
<b>Monday 1-6-2015</b>			
<b>Wednesday 27-5-2015</b>			
<b>Friday 29-5-2015</b>			
<b>Monday 25-5-2015</b>	<b>Design</b>	<b>Elective-II</b> Process Equipment Design	<b>56143</b>
		Material Handling Equipment's Design	<b>56144</b>
		Machine Tool Design	<b>56147</b>
		Robotics	<b>56146</b>
		Tribology	<b>34544</b>
	<b>Product Design &amp; Development</b>	<b>Elective-II</b> Reliability Engineering	<b>48803</b>
		Experimental Stress Analysis	<b>48804</b>
		Engineering Optimization in Design	<b>48805</b>
		Industrial Robotics & Expert Systems	<b>48806</b>
		AI & Neural Network	<b>48807</b>
		TQM and Six Sigma	<b>48808</b>
<b>Wednesday 3-6-2015</b>			

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

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 26-5-2015	Mechanical- Machine Design	Advanced Material Science	55602
Thursday 28-5-2015		Advanced Machine Design	55603
Saturday 30-5-2015		Mechanics Of Machinery	55604
Tuesday 2-6-2015	Elective-III	Experimental Stress Analysis	55605
		Composite Materials	55606
		Advanced Machine Tool Design	55607
		Open Elective	55608
Friday 5-6-2015	Elective-IV	Noise & Vibration Harshness (NVH)	55609
		Vehicle Dynamics	55610
		Engineering Fracture Mechanics	55611
		Reliability Engineering	55612
<b>Only For Student &amp; College Information</b>			
		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 26-5-2015	Mechanical- Heat Power & Engineering	Numerical Computation of Fluid & Heat Flow	56043
Thursday 28-5-2015		Energy Analysis of Thermal System	56044
Saturday 30-5-2015		Design Of Heat Transfer Equipments	56045
Tuesday 2-6-2015	Elective-III	Design Of Renewable Energy Equipments & System	56049
		Cryogenics	56050
		Open Elective	56053
Friday 5-6-2015	Elective-IV	Gas Turbines & Jet Propulsion	56051
		Advanced Mathematical Methods & Optimization	56052
		Design Of pumps, Compressors & Blowers	56054
<b>Only For Student &amp; College Information</b>			
		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.**

<b>DAY &amp; DATE</b>	<b>SUB-BRANCH</b>	<b>PAPER</b>	
<b>Tuesday 26-5-2015</b>	<b>Mechanical-Design Engineering</b>	Advanced Theory Of Vibrations	<b>56150</b>
<b>Thursday 28-5-2015</b>		Advanced Design Engineering	<b>56151</b>
<b>Saturday 30-5-2015</b>		Analysis and Synthesis of Mechanisms	<b>56152</b>
<b>Tuesday 2-6-2015</b>	<b>Elective-III</b>	Design for Sustainability & Life Cycle Cost	<b>56158</b>
		Tribology	<b>56159</b>
		Open Elective	<b>56160</b>
		Experimental Stress Analysis	<b>56157</b>
<b>Friday 5-6-2015</b>	<b>Elective-IV</b>	Noise And Vibration Harshness ( NVH)	<b>56161</b>
		Vehicle Dynamics	<b>56162</b>
		Engineering Fracture Mechanics	<b>56163</b>
		Design for Manufacture & Assembly	<b>56164</b>
<b>Only For Student &amp; College Information</b>			
		<b>Computer Aided Analysis Lab –</b>	<b>56153 T/W &amp; Ext</b>
		<b>Seminar – II</b>	<b>56154 T/W</b>
		<b>Comprehensive Viva</b>	<b>56155</b>
		<b>Industrial Training</b>	<b>56156</b>



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

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 26-5-2015	Mechanical-Product Design & Development	Manufacturing System Design	56262
Thursday 28-5-2015		Creativity, Innovation & New Product Development	56263
Saturday 30-5-2015		Product Life Cycle Management	56264
Tuesday 2-6-2015	Elective-III	Experimental Stress Analysis	56267
		Reliability Engineering	56268
		Industrial Robotics & Expert System	56269
		Open Elective	56270
Friday 5-6-2015	Elective-IV	Rapid Prototyping	56271
		Engineering Optimization In Design	56272
		AI.& Neural Network	56273
		TQM & Six Sigma	56274
<b>Only For Student &amp; College Information</b>			
		<b>Seminar-II</b>	<b>56265 T/W</b>
		<b>Comprehensive Viva</b>	<b>56266 Ext.</b>

**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 26-5-2015	VLSI AND EMBEDDED SYSTEM	CMOS VLSI DESIGN –II	60751
Thursday 28-5-2015		Analog & Mixed signal Design	60752
Saturday 30-5-2015		Embedded Software Design	60753
Tuesday 2-6-2015		Testing & Text ability	60754
Friday 5-6-2015	Elective-II	DSP VLSI – II	60756
		Automotive Embedded System	60757
		Low Power VLSI design	60758
		System on chip Architecture –II	60759

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

DAY & DATE	BRANCH	PAPER	
Monday 25-5-2015	CHEMICAL	Advanced Momentum and Heat Transfer	34458
Wednesday 27-5-2015		Advanced chemical Engineering Thermodynamics	34459
Friday 29-5-2015		Process Modeling in chemical Engineering	34460
Monday 1-6-2015		<b>Elective-I</b> Computer Aided Design	34461
		Management information system	34462
		Modern Separation Processes	34463
Wednesday 3-6-2015		<b>Elective-II</b> Process and Equipment Design	34465
		Membrane Separation Operation	34466
		Environmental Biotechnology	34464

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

DAY & DATE	BRANCH	PAPER	
Monday 25-5-2015	CHEMICAL	Advanced Momentum and Heat Transfer	64209
Wednesday 27-5-2015		Advanced Chemical Engineering Thermodynamics	64210
Friday 29-5-2015		Process Modeling in Chemical Engineering	64211
Monday 1-6-2015		<b>Elective-I</b> Nanotechnology	64212
		Green Technology	64213
		Pharmaceutical Biotechnology	64214
Wednesday 3-6-2015		<b>Elective-II</b> Catalysis and Surface Phenomena	64215
		Bioprocess Engineering	64216
		Material Engineering	64217
		Process and Equipment Design	64218

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

DAY & DATE	BRANCH	PAPER	
Monday 25-5-2015	<b>ELECTRONIC</b>	VLSI Design	<b>34498</b>
Wednesday 27-5-2015		Advanced Digital Signal Processing	<b>34500</b>
Friday 29-5-2015		Advanced Network Engineering	<b>34486</b>
Monday 1-6-2015		Random signals and Processes	<b>34496</b>
Wednesday 3-6-2015		<b>Elective-I</b> Statistical Communication Theory	<b>34499</b>
		Design and Analysis of Algorithms	<b>34497</b>

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

DAY & DATE	BRANCH	PAPER	
Monday 25-5-2015	<b>ELECTRONIC</b>	Advanced Digital Signal processing	<b>63931</b>
Wednesday 27-5-2015		CMOS VLSI Design	<b>63932</b>
Friday 29-5-2015		Random Signal Processing	<b>63933</b>
Monday 1-6-2015		<b>Elective-I</b> High Performance Communication Network	<b>63934</b>
		Design of Digital Circuit and Logic Design	<b>63935</b>
		Optimization Techniques	<b>63936</b>
		Advance Communication System	63937
Wednesday 3-6-2015		<b>Elective II</b> Software Defined Radios	<b>63938</b>
		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 25-5-2015	CAD-CAM	Design of Experiments and Research Methodology	63965
Wednesday 27-5-2015		Finite Elements Analysis	63966
Friday 29-5-2015		Micro Electro-Mechanical System	63967
Monday 1-6-2015		Computer Aided Manufacturing	63968
Wednesday 3-6-2015		<b>Elective-I</b> 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 26-5-2015	CHEMICAL	Environmental Bio-Technology	36134
Thursday 28-5-2015		Advanced Mass Transfer	34468
Saturday 30-5-2015		Advanced Reaction Engg.	34469
Monday 1-6-201		Advanced Process Dynamics & Control	34470
----- Wednesday 3-6-2015		Ele.-III Environmental Engineering Air Pollution Control Engg. Bio-Chemical Engineering	34471 34472 34473
Friday 5-6-2015		<b>ElectiveIV</b> 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 26-5-2015	CHEMICAL	Advanced Mass Transfer System	64221
Thursday 28-5-2015		Modern Reaction Engineering	64222
Saturday 30-5-2015		Chemical Process Control	64223
Monday 1-6-2015		<b>Elective-III</b> Computational Fluid Dynamics	64224
		Energy Engineering	64225
		Redearch Methodology	64226
Wednesday 3-6-2015		<b>ElectiveIV</b> 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 26-5-2015	ELECTRONIC	Advanced Computer Architecture	34503
Thursday 28-5-2015		Embedded System Design	34502
Saturday 30-5-2015		Advanced Process Control	34503
Monday 1-6-2015		Elective-II Communication Switeching System	34505
		Mobile Communiocation Engineering	34506
		Neural Network	34507
		Distributed Database System	34508
Wednesday 3-6-2015		<b>Elective-III</b> Broadband Communication	34509
		Web Technology	34510
		Software Engineering	34511

**SEMESTER II**

DAY & DATE	BRANCH	PAPER	
Tuesday 26-5-2015	ELECTRONIC	Real Time Embedded System Design	63946
Thursday 28-5-2015		Advanced Process Control	63947
Saturday 30-5-2015		Power Electronics System	63948
Tuesday 2-6-2015		<b>Elective-III</b> Design and Analysis of 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
Thursday 4-6-2015		<b>Elective-IV</b> <b>Fuzzy System</b> <b>VLSI in Digital Signal Processing</b> <b>RF &amp; Microwave Circuits</b> <b>Renewable &amp; Distributed Energy System</b> <b>Advanced Computer Architecture</b>	63954 63955 63956 63957 63958

DAY & DATE	BRANCH	PAPER	
Tuesday 26-5-2015	CAD-CAM	Product Life Cycle Management	63976
Thursday 28-5-2015		Advanced Mechanics or Materials	63977
Saturday 30-5-2015		Automation & Robotics	63978
Monday 1-6-2015		Design Optimization Techniques	63979
Wednesday 3-6-2015		<b>Elective-II</b> 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.

Vidyanagar,  
Kolhapur- 416 004.  
Date: 19-5-2015

**M.A.Kakade**  
**Controller of Examinations**