

## SHIVAJIUNIVERSITY,KOLHAPUR.

**Final Programme of M. E. I, II Semester, Examination to be held in Nov/Dec.2017**

**CIRCULER NO 880 Exam Of Nov./Dec.2017**

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.Magadam 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 Vidypeeth College of Engg- Kolhapur
13	Panhala	Sanjeevan Engineering and Technology Institute, Panhala
14	LIMB	Gouri Shankar College of Enineering

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

### SEMESTER – I

**Day & Date : -Tuesday 28-11-2017 Time: 10.00 am to 1.00 p.m.**

BRANCH	Sub-Branch	Papers	
<b>CIVIL</b>	<b>Structure</b>	Theory of Elasticity & Plasticity <b>Time 10.00 a.m. to 2.00 p.m.</b>	<b>34341</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>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>

**SEMESTER – I****Day & Date : -Thursday 30/11/2017 Time: 10.00 a.m. to 1.00p.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 2.00 p.m.	<b>34342</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>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****Day & Date : -Saturday 2/12/2017 Time: 10.00 am to 1.00 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 2.00 p.m.</b>	<b>34343</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>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>

**SEMESTER - I****Day & Date : - Monday 4/12/2017 Time: 10.00 am to 1.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Dynamics of Structure <b>Time:10.00 am to 2.00 p.m.</b>	<b>34344</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>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>

**SEMESTER – I****Day & Date : - Wednesday 6/12/2017 Time: 10.00 am to 1.00 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:10.00 a.m. to 2.00 p.m.</b>	<b>35983</b>	
		Advances in Concrete Composites	<b>35984</b>	
		Structural Optimization	<b>35985</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>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>-</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>	
		Advanced Materials & processing Forming	<b>48738</b>	
<b>AUTOMOBILE</b>	<b>-</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>	

New-Course- From-DEC-2012

Time: 10.00 am to 1.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
<b>Tuesday 28-11-2012</b>	<b>Mechanical- Production Engineering</b>	Advanced Materials and Manufacturing Processes	<b>56210</b>
<b>Thursday 30-11-2017</b>		Design Of Experiments and Research Methodology	<b>56211</b>
<b>Saturday 2/12/2017</b>		Metal Forming Technology	<b>56212</b>
<b>Monday 4-12-2017</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 6-12-2017</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 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
<b>Tuesday 28-11-2017</b>	<b>Mechanical-Product Design &amp; Development</b>	Applied Machine Design	<b>56250</b>
<b>Thursday 30-11-2017</b>		Computer Aided Design and Simulation	<b>56251</b>
<b>Saturday 2-12-2017</b>		Design Of Experiments and Research Methodology	<b>56252</b>
<b>Monday 4-12-2017</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 6-12-2017</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 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
<b>Tuesday 28-11-2017</b>	<b>Mechanical-Machine Design</b>	Mathematical Modeling And Design Optimization	<b>55589</b>
<b>Thursday 30-11-2017</b>		Advanced Mechanics Of Solids	<b>55590</b>
<b>Saturday 2-12-2017</b>		Advanced Theory Of Vibrations	<b>55591</b>
<b>Monday 4-12-2017</b>	<b>Elective-I</b>	Tribology	<b>55592</b>
		Process Equipment Design	<b>55593</b>
		Advanced Finite Element Analysis	<b>55594</b>
		Mechatronics	<b>55595</b>
<b>Wednesday 6-12-2017</b>	<b>Elective-II</b>	Vibration Control and Condition Monitoring	<b>55596</b>
		Product Design and Development	<b>55597</b>
		Material Handling Equipment Design	<b>55598</b>
		Robotics	<b>55599</b>
<b>Only For Student &amp; College Information</b>			
<b>Instrumentation Lab Subject Code -</b>			<b>55600</b>
<b>Seminar – I Subject Code -</b>			<b>55601</b>

**SEMESTER – I BRANCH - MECHANICAL****New-Course- From-DEC-2012****Time: 10.00 am to 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
<b>Tuesday 28-12-2017</b>	<b>Mechanical-Heat Power &amp; Engineering</b>	Advanced Fluid Mechanics	<b>56033</b>
<b>Thursday 30-11-2017</b>		Advanced Heat Transfer	<b>56036</b>
<b>Saturday 2-12-2017</b>		Advanced Thermodynamics and Combustion	<b>56034</b>
<b>Monday 4-12-2017</b>	<b>Elective-I</b>	Advanced I.C. engine	<b>56042</b>
		Advanced Refrigeration	<b>56132</b>
		Advanced Power Plant Engineering	<b>56133</b>
<b>Wednesday 6-12-2017</b>	<b>Elective-II</b>	Advanced Automobile Engineering	<b>56134</b>
		Design Of Air Conditioning Systems	<b>56135</b>
		Energy Analysis and Management	<b>56136</b>
<b>Only For Student &amp; College Information</b>			
<b>Industrial Instrumentation Lab Subject Code -</b>			<b>56035</b>
<b>Seminar – I Subject Code -</b>			<b>56037</b>

**SEMESTER – I    BRANCH – MECHANICAL****New-Course- From – DEC – 2012 Time: 10.00 am to 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
<b>Tuesday 28-11-2017</b>	<b>Mechanical-Design Engineering</b>	Mathematical Modeling And Design Optimization	<b>56137</b>
<b>Thursday 30-11-2017</b>		Solid Mechanics	<b>56138</b>
<b>Saturday 2-12-2017</b>		Advanced Engineering Materials	<b>56139</b>
<b>Monday 4-12-2017</b>	<b>Elective-I</b>	Reliability Engineering	<b>56142</b>
		Process Equipment Design	<b>56143</b>
		Material Handling Equipment Design	<b>56144</b>
		Product Design & Development	<b>56145</b>
<b>Wednesday 6-12-2017</b>	<b>Elective-II</b>	Robotics	<b>56146</b>
		Machine Tool Design	<b>56147</b>
		Advanced Finite Element Analysis	<b>56148</b>
		Reverse Engineering	<b>56149</b>
<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 1-00 p.m.**

DAY & DATE	Sub – Branch	Paper	
<b>Tuesday 28-11-2017</b>	<b>VLSI and Embedded System</b>	CMOS VLSI Design – I	60742
<b>Thursday 30-11-2017</b>		Advanced Digital Signal Processing	60743
<b>Saturday 2-12-2017</b>		Advanced Embedded System	60744
<b>Monday 4-12-2017</b>		Digital Systems Engineering	60745
<b>Wednesday 6-12-2017</b>		<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-I New course**  
**Branch- Environmental**  
**Time : 10-00 am to 1-00 p.m.**

DAY & DATE	BRANCH	PAPER	
Tuesday 28-11-2017	Environmental	Air and Noise Pollution	66362
Thursday 30-11-2017		Solid and Hazardous Waste Management	66363
Saturday 2-12-2017		Physics Chemical Processes for Water and Wastewater	66364
Monday 4-12-2017		Elective-I	
		Industrial Health and Safety Auditing	66366
		Optimization Techniques	66367
		Project Management	66368
Wednesday 6-12-2017		Elective-II	
		Energy Management	66369
		Operation and Maintenance of treatment Plants	66370
		Green Building	66371
<b>Only For Student &amp; College Information</b>			

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

DAY & DATE	Branch	Paper	
Tuesday 28-11-2017	Electronics & Telecommunication	Advanced Embedded System	66385
Thursday 30-11-2017		Error Control Coding Techniques	66386
Saturday 2-12-2017		Advanced Wireless Communication	66387
Monday 4-12-2017		Random Process	66388
Wednesday 6-12-2017		<b>Elective – I</b>	
		Mobile Computing	66391
		Digital Data Compression	66392
		Internet Traffic Engineering	66393
		Advanced Antenna Theory	66394
<b>Only For Student &amp; College Information</b>			

<b>ME (Electronics ) Semester -I (Old Course) (Upto May-2018)</b> Time: 10.00 a.m. to 1.00 p.m.			
Tuesday 12-12-2017	Electronics	1- Advance Network Engineering	34486
Wednesday 13-12-2017	Electronics	2- Statistical Communication Theory(Elective-I)	34499

**SEMESTER – I BRANCH- Industrial Engineering**  
**New-Course- From-DEC-2016**

Time: 10.00 am to 01.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
<b>Tuesday</b> <b>28-11-2017</b>	<b>Industrial Engineering</b>	Design of Experiments and Research Methology	<b>68670</b>
<b>Thursday</b> <b>30-11-2017</b>		Work Study	<b>68671</b>
<b>Saturday</b> <b>2-12-2017</b>		Ergonomics	<b>68672</b>
<b>Monday</b> <b>4-12-2017</b>	<b>Elective-I</b>	Srochstic Process and Markar Chains	<b>68673</b>
		Manufacturing System Design	<b>68674</b>
		Probabilistic Rist Assessment	<b>68675</b>
		Project Engineering and Network Analysis	<b>68679</b>
		Technology Management	<b>68677</b>
<b>Wednesday</b> <b>6-12-2017</b>	<b>Elective-II</b>	Multivariate Stastical Modeling	<b>68678</b>
		Supply Chain Management	<b>68679</b>
		Reliability Analysis and Prediction	<b>68680</b>
		Queuing Theory and Models	<b>68681</b>
		Total Quality Management	<b>56226</b>
<b>Only For Student &amp; College Information</b>			
<p align="center"><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></p>			

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

DAY & DATE	BRANCH	PAPER	
<b>Tuesday</b> 28-11-2017	<b>CHEMICAL</b>	Advanced Momentum and Heat Transfer	<b>64209</b>
<b>Thursday</b> 30-11-2017		Advanced Chemical Engineering Thermodynamics	<b>64210</b>
<b>Saturday</b> 2-12-2017		Process Modeling in Chemical Engineering	<b>64211</b>
<b>Monday</b> 4-12-2017		<b>Elective-I</b> Nanotechnology	<b>64212</b>
		Green Technology	<b>64213</b>
		Pharmaceutical Biotechnology	<b>64214</b>
<b>Wednesday</b> 6-12-2017		<b>Elective-II</b> Catalysis and Surface Phenomena	<b>64215</b>
		Bioprocess Engineering	<b>64216</b>
		Material Engineering	<b>64217</b>
		Process and Equipment Design	<b>64218</b>

**SEMESTER I****New Course From – DEC 2014 Time: 10-00 am. To 1-00 pm.**

DAY & DATE	BRANCH	PAPER	
<b>Tuesday</b> 28-11-2017	<b>ELECTRONIC</b>	Advanced Digital Signal processing	<b>63931</b>
<b>Thursday</b> 30-11-2017		CMOS VLSI Design	<b>63932</b>
<b>Saturday</b> 2-12-2017		Random Signal Processing	<b>63933</b>
<b>Monday</b> 4-12-2017		<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
<b>Wednesday</b> 6-12-2017		<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 1-00 pm.**

<b>DAY &amp; DATE</b>	<b>BRANCH</b>	<b>PAPER</b>	
<b>Tuesday 28-11-2017</b>	<b>CAD-CAM</b>	Design of Experiments and Research Methodology	<b>63965</b>
<b>Thursday 30-11-2017</b>		Finite Elements Analysis	<b>63966</b>
<b>Saturday 2-12-2017</b>		Micro Electro-Mechanical System	<b>63967</b>
<b>Monday 4-12-2017</b>		Computer Aided Manufacturing	<b>63968</b>
<b>Wednesday 6-12-2017</b>		<b>Elective-I</b> Advanced Design Engineering	<b>63969</b>
		Advanced Tool Design	<b>63970</b>
		Design of Hydraulic and Pneumatic System	<b>63971</b>
		Mechatronic System Design	<b>63972</b>

**SEMESTER – II****Day & Date : - Wednesday 29-11-2017 Time: 10.00 am to 1-00 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 2.00 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 &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>

**SEMESTER – II****Day & Date : - Tuesday 5-12-2017 Time: 10.00a.m. to 1.00 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 2.00 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 &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>



**SEMESTER - II****Day & Date : - Thursday 7-12-2017 Time: 10.00 am to 1.00 p.m.**

<b>BRANCH</b>	<b>Sub- Branch</b>	<b>Papers</b>	
<b>CIVIL</b>	<b>Structure</b>	Earthquake Engineering Time 10.000 a.m. to 2.00 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 &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>

**SEMESTER – II****Day & Date :- Saturday 9-12-2017 Time: 10.00 am to 1.00 p.m.**

BRANCH	Sub- Branch	Papers	
<b>CIVIL</b>	<b>Structure</b>	Advanced Design of Steel Structure Time: 10.00 a.m. to 2.00 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 &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>

**Day & Date : - Monday 11/12/2017 Time: 10.00 am to 1.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	<b>Elective-II</b> Stability of Structure Time: 10.00 a.m. to 2.00 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 & 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	

**Contd. Next Page**

**SEMESTER – II****Day & Date :- Monday 11-12-2017 Time:10.00 am to 1.00 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>	-	-

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**SEMESTER – II      BRANCH –      MECHANICAL**

New-Course – From - May – 2013 Time: 10.00 am. To 1.00 pm.

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 29-11-2017	Mechanical- Machine Design	Advanced Material Science	55602
Tuesday 5-12-2017		Advanced Machine Design	55603
Thursday 7-12-2017		Mechanics Of Machinery	55604
Saturday 9-12-2017	Elective-III	Experimental Stress Analysis	55605
		Composite Materials	55606
		Advanced Machine Tool Design	55607
		Open Elective	55608
Monday 11-12-2017	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 1.00 pm.

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 29-11-2017	Mechanical- Heat Power & Engineering	Numerical Computation of Fluid & Heat Flow	56043
Tuesday 5-12-2017		Energy Analysis of Thermal System	56044
Thursday 7-12-2017		Design Of Heat Transfer Equipments	56045
Saturday 9-12-2017	Elective-III	Design Of Renewable Energy Equipments & System	56049
		Cryogenics	56050
		Open Elective	56053
Monday 11-12-2017	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	

New-Course - From – May – 2013 Time: 10.00 am. To 1.00 pm.

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 29-11-2017	Mechanical-Design Engineering	Advanced Theory Of Vibrations	56150
Tuesday 5-12-2017		Advanced Design Engineering	56151
Thursday 7-12-2017		Analysis and Synthesis of Mechanisms	56152
Saturday 9-12-2017	Elective-III	Design for Sustainability & Life Cycle Cost	56158
		Tribology	56159
		Open Elective	56160
		Experimental Stress Analysis	56157
Monday 11-12-2017	Elective-IV	Noise And Vibration Harshness ( NVH)	56161
		Vehicle Dynamics	56162
		Engineering Fracture Mechanics	56163
		Design for Manufacture & Assembly	56164
<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 1.00 pm.**

<b>DAY &amp; DATE</b>	<b>SUB-BRANCH</b>	<b>PAPER</b>		
<b>Wednesday 29-11-2017</b>	<b>Mechanical-Production Engineering</b>	Optimization Techniques	<b>56228</b>	
<b>Tuesday 5-12-2017</b>		Advanced Casting Technology	<b>56229</b>	
<b>Thursday 7-12-2017</b>		Production & Operations Management	<b>56230</b>	
<b>Saturday 9-12-2017</b>	<b>Elective-III</b>	Fabrication Engg. Welding Technology	<b>56235</b>	
		Entrepreneurship Development	<b>56236</b>	
		Precision Manufacturing	<b>56237</b>	
		Reliability Engineering	<b>56238</b>	
		World Class Manufacturing	<b>56239</b>	
		Total Quality Management	<b>56240</b>	
<b>Monday 11-12-2017</b>	<b>Elective-IV</b>	Plastics Processing & Die Design	<b>56241</b>	
		Automatic Control Engineering	<b>56242</b>	
		Enterprise Resource Planning	<b>56243</b>	
		Industrial Automation & Robotics	<b>56244</b>	
		Project Management	<b>56245</b>	
		Open Elective	<b>56246</b>	
<b>Only For Student &amp; College Information</b>				
		<b>Adv. Manufacturing Engg. Lab. – 56231</b>	<b>T/W</b>	<b>Ext.</b>
		<b>Automation &amp; Simulation Lab. - 56232</b>	<b>T/W</b>	<b>Ext.</b>
		<b>Seminar- II</b>	<b>56233</b>	<b>T/W</b>
		<b>Comprehensive Viva Voce</b>	<b>56234</b>	<b>Ext.</b>

**SEMESTER – II BRANCH - MECHANICAL****New-Course – From – May – 2013 Time: 10.00 am. To 1.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 29-11-2017	Mechanical-Product Design & Development	Manufacturing System Design	56262
Tuesday 5-12-2017		Creativity, Innovation & New Product Development	56263
Thursday 7-12-2017		Product Life Cycle Management	56264
Saturday 9-12-2017	Elective-III	Experimental Stress Analysis	56267
		Reliability Engineering	56268
		Industrial Robotics & Expert System	56269
		Open Elective	56270
Monday 11-12-2017	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 1.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 29-11-2017	VLSI AND EMBEDDED SYSTEM	CMOS VLSI DESIGN –II	60751
Tuesday 5-12-2017		Analog & Mixed signal Design	60752
Thursday 7-12-2017		Embedded Software Design	60753
Saturday 9-12-2017		Testing & Text ability	60754
Monday 11-12-2017	Elective-II	DSP VLSI – II	60756
		Automotive Embedded System	60757
		Low Power VLSI design	60758
		System on chip Architecture –II	60759



**SEMESTER II****New Course From May- 2015 Time: 10.00 am. To 1.00 pm.**

DAY & DATE	BRANCH	PAPER	
Wednesday 29-11-2017	CHEMICAL	Advanced Mass Transfer System	64221
Tuesday 5-12-2017		Modern Reaction Engineering	64222
Thursday 7-12-2017		Chemical Process Control	64223
Saturday 9-12-2017		<b>Elective-III</b> Computational Fluid Dynamics	64224
		Energy Engineering	64225
		Research Methodology	64226
Monday 11-12-2017		<b>ElectiveIV</b> Project Management	64227
		Modern Separation Process	64228
		Down Stream Processing	64229
		Operation Research	64230

**SEMESTER I I****OLD-Course UP TO – May-2018 Time: 10.00 am. To 1-00 pm.**

DAY & DATE	BRANCH	PAPER	
Thursday 14-12-2017	Electronic	Elective-II Communication Switching System Mobile Communication Engineering Neural Network Distributed Database System	34505 34506 34507 34508
Friday 15-12-2017		<b>Elective-III</b> Broadband Communication Web Technology Software Engineering	34509 34510 34511

**SEMESTER II**  
**New Course From – May 2015 Time: 10.00 am. To 1.00 pm.**

DAY & DATE	BRANCH	PAPER	
Wednesday 29-11-2017	<b>ELECTRONIC</b>	Real Time Embedded System Design	<b>63946</b>
Tuesday 5-12-2017		Advanced Process Control	<b>63947</b>
Thursday 7-12-2017		Power Electronics System	<b>63948</b>
Saturday 9-12-2017		<b>Elective-III</b> Design and Analysis or Algorithms	<b>63949</b>
		Design of Analog and Mixed Mode VLSI Circuits	<b>63950</b>
		Artificial Neural Networks	<b>63951</b>
		Cryptography and Network Security Cognitive Rodio Cmmunication and Network	63952 64059
Monday 11-12-2017			<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>

**New Course From – DEC 2014 Time: 10-00 am. To 1-00 pm.**

DAY & DATE	BRANCH	PAPER	
Wednesday 29-11-2017	CAD-CAM	Product Life Cycle Management	63976
Tuesday 5-12-2017		Advanced Mechanics or Materials	63977
Thursday 7-12-2017		Automation & Robotics	63978
Saturday 9-12-2017		Design Optimization Techniques	63979
Monday 11-12-2017		<b>Elective-II</b> Nano Technology	63980
		Industrial Product Design	63981
		Computational Fluid Dynamics	63982
		Reliability Engineering	63983

**Semester-II New Course  
Br. Environmental  
Time : 10.00 a.m. to 1-00 p.m.**

DAY & DATE	BRANCH	PAPER	
Wednesday 29-11-2017	Environmental	Industrial Waste Treatment	66372
Tuesday 5-12-2017		Biological Waste Water Treatment	66373
Thursday 7-12-2017		Environmental Impact Assessment and Legislation	66374
Saturday 9-12-2017		<b>Elective-III</b> Remote Sensing and GIS	66376
		Watershed Management	66377
		Environmental Modeling and Simulation	66378
Monday 11-12-2017		<b>ElectiveIV</b> Environmental Management System	66379
		Disaster Planning and Risk Analysis	66380
		Environmental Geotechnology	66381

## SEMESTER-II Br- ELECTRONICS &amp; TELECOMMUNICATION

Time : 10-00 a.m.to 1.00 p.m.

DAY & DATE	BRANCH	PAPER	
<b>Wednesday 29-11-2017</b>	<b>Electronics And Telecommunication</b>	Advance Microwave Circuit Design	<b>66395</b>
<b>Tuesday 5-12-2017</b>		Adhoc and Wireless Sensor Network	<b>66396</b>
<b>Thursday 7-12-2017</b>		Computer Vision	<b>66397</b>
<b>Saturday 9-12-2017</b>		<b>Elective-II</b> 1.Cryology and Network Security 2.Multi Rate System 3.SDR and cognitive Radio Technology 4.DSP architecture and Algorithm	<b>66400</b> <b>66401</b> <b>66402</b> <b>66403</b>
<b>Monday 11-12-2017</b>		<b>Elective-III</b> Advanced Operating Systems	<b>66404</b>
		Optimization Techniques	<b>66405</b>
		Industry Automation and Process Control	<b>66406</b>
		Nanotechnology	<b>66407</b>

SEMESTER-II Br- Industrial Engineering  
Time : 10-00 a.m.to 1.00 p.m.

DAY & DATE	BRANCH	PAPER		
Wednesday 29-11-2017	<b>Industrial Engineering</b>	Optimization Techniques	<b>68686</b>	
Tuesday 5-12-2017		Human Factors Engineering	<b>68687</b>	
Thursday 7-12-2017		Production Planning and Inventory Control	<b>68688</b>	
Saturday 9-12-2017		Elective-III 1-Quality Engineering 2.Facility Layout and Design 3. Maintenance Engineering 4. Scheduling Algorithms 5. Productivity Management		<b>68689</b>
				<b>68690</b>
				<b>68691</b>
				<b>68692</b>
				<b>68693</b>
Monday 11-12-2017		Elective-IV Multivariate Statical Modeling		<b>68694</b>
			Logistics Management	<b>68695</b>
	Industrial Safety Engineering		<b>68696</b>	
	Industrial Product Design		<b>68697</b>	
		World Class Manufacturing	<b>68698</b>	

**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.

**9 In Respect of Correction in Hallticket Please Contact Exam Section Immediately**

Vidyanagar,  
Kolhapur- 416 004.  
Date 16-10-2017

**M.A.Kakade**  
**Director**  
**Booard of Examination and**  
**Evaluation**

