

SHIVAJI UNIVERSITY, KOLHAPUR

FINAL Programme of M. E. I & II Semester,

Examination to be held in **May, 2018**

CIRCULER NO - **218** Exam Of May-2018

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	Government 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 Engineering, Jaysingpur.
8	Ambabai Talim Sanshta's Sanjay Bhokare Group Institutes, Miraj	Walchand College Of Engineering, 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 Engineering , Gokul Shirgaon, D. Y. Patil College Of Engineering. & Technology Kasaba Bawada, Kolhapur Bharati Vidypeeth's College of Engineering, Kolhapur
13	Panhala	Sanjeevan Engineering and Technology Institute, Panhala
14	LIMB	Gourishankar College of Engineering, Limb

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

SEMESTER – I

Day & Date : - Tuesday, 15-5-2018 Time: 10.00 am to 1.00 p.m.

BRANCH	Sub-Branch	Papers	
CIVIL	Structure	Theory of Elasticity & Plasticity Time 10.00 a.m. to 2.00 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

SEMESTER – I

Day & Date : - Thursday 17-5-2018 Time: 10.00 a.m. to 1.00p.m.

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Mechanics of Structures Time: 10.00 am to 2.00 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**Day & Date : -Saturday 19-5-2018****Time: 10.00 a.m. to 1.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Adv. Design of Concrete Structure Time:10.00 am to 2.00 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

SEMESTER - I**Day & Date : - Monday 21.5.2018****Time: 10.00 a.m. to 1.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Dynamics of Structure Time:10.00 am to 2.00 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

SEMESTER-I

Day & Date : - Wednesday 23-5-2018

Time: 10.00 a.m. to 1.00 p.m.

BRANCH	Sub- Branch	Papers	
CIVIL	Structure Elective-I	Design of Foundations Time:10.00 a.m. to 2.00 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
		Work Study & Incentive Management	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
		Vehicle Instrumentation & testing	38719
		Automobile Air Conditioning	38720

Sem. I Time: 10.00 am to 1.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday, 15-5-2018	Mechanical- Production Engineering	Advanced Materials and Manufacturing Processes	56210
Thursday, 17-5-2018		Design Of Experiments and Research Methodology	56211
Saturday, 19-5-2018		Metal Forming Technology	56212
Monday 21-05-2018	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 23-05-2018	Elective-II	Advanced Fluid Power Engineering	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**Time: 10.00 a.m. to 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 15-5-2018	Mechanical-Product Design & Development	Applied Machine Design	56250
Thursday 17-5-2018		Computer Aided Design and Simulation	56251
Saturday 19-5-2018		Design Of Experiments and Research Methodology	56252
Monday 21-05-2018	Elective-I	Advanced Material and Processing	56254
		Industrial Automation	56255
		System Design	56256
		Material Handling Equipment Design	56257
Wednesday 23-05-2018	Elective-II	Dynamic Analysis & Testing Methodology	56258
		Reverse Engineering	56259
		Computational Fluid Dynamics	56260
		Design Optimization	56261
Only For Students & College Information – Seminar – I Subject Code 56253			

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

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday, 15-5-2018	Mechanical-Machine Design	Mathematical Modeling And Design Optimization	55589
Thursday, 17-5-2018		Advanced Mechanics Of Solids	55590
Saturday, 19-5-2018		Advanced Theory Of Vibrations	55591
Monday 21-05-2018	Elective-I	Tribology	55592
		Process Equipment Design	55593
		Advanced Finite Element Analysis	55594
		Mechatronics	55595
Wednesday 23-05-2018	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-December-2012****Time: 10.00 a. m. to 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 15-5-2018	Mechanical-Heat Power & Engineering	Advanced Fluid Mechanics	56033
Thursday 17-5-2018		Advanced Heat Transfer	56036
Saturday 19-5-2018		Advanced Thermodynamics and Combustion	56034
Monday 21-05-2018	Elective-I	Advanced I.C. engine	56042
		Advanced Refrigeration	56132
		Advanced Power Plant Engineering	56133
Wednesday 23-05-2018	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 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 15-5-2018	Mechanical-Design Engineering	Mathematical Modeling And Design Optimization	56137
Thursday 17-5-2018		Solid Mechanics	56138
Saturday 19-5-2018		Advanced Engineering Materials	56139
Monday 21-05-2018	Elective-I	Reliability Engineering	56142
		Process Equipment Design	56143
		Material Handling Equipment Design	56144
		Product Design & Development	56145
Wednesday 23-05-2018	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 – December – 2012

Time: 10.00 a.m. to 1.00 p.m.

DAY & DATE	Sub – Branch	Paper	
Tuesday 15-5-2018	VLSI and Embedded System	CMOS VLSI Design – I	60742
Thursday 17-5-2018		Advanced Digital Signal Processing	60743
Saturday 19-5-2018		Advanced Embedded System	60744
Monday 21-05-2018		Digital Systems Engineering	60745
Wednesday 23-05-2018		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 New course

Branch- Environmental

Time : 10.00 am to 1.00 p.m.

DAY & DATE	BRANCH	PAPER		
Tuesday 15-5-2018	Environmental	Air and Noise Pollution	66362	
Thursday 17-5-2018		Solid and Hazardous Waste Management	66363	
Saturday 19-5-2018		Physics Chemical Processes for Water and Wastewater	66364	
Monday 21-05-2018		Elective-I		
		Industrial Health and Safety Auditing	66366	
		Optimization Techniques	66367	
		Project Management	66368	
Wednesday 23-05-2018		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 a.m. to 01.00 p.m.

DAY & DATE	Branch	Paper	
Tuesday 15-5-2018	Electronics & Telecommunication	Advanced Embedded System	66385
Thursday 17-5-2018		Error Control Coding Techniques	66386
Saturday 19-5-2018		Advance Wireless Communication	66387
Monday 21-05-2018		Random Process	66388
Wednesday 23-05-2018	Elective – I	Mobile Computing	66391
		Digital Data Compression	66392
		Internet Traffic Engineering	66393
		Advanced Antenna Theory	66394
Only For Student & College Information			
ME (Electronics) Semester -I (Old Course) (Upto May-2018) Time: 10.00 a.m. to 1.00 p.m.			
Tuesday 15-5-2018	Electronics	1- Advance Network Engineering	34486
Thursday 17-5-2018	Electronics	2- Statistical Communication Theory(Elective-I)	34499

SEMESTER – I
Branch - Industrial Engineering (New Course from December,2016)
Time: 10.00 am to 01.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Tuesday 15-5-2018	Industrial Engineering	Design of Experiments and Research Methodology	68670
Thursday 17-5-2018		Work Study	68671
Saturday 19-5-2018		Ergonomics	68672
Monday 21-05-2018	Elective-I	Stochastic Process and Markov Chains	68673
		Manufacturing System Design	68674
		Probabilistic Risk Assessment	68675
		Project Engineering and Network Analysis	68679
		Technology Management	68677
Wednesday 23-05-2018	Elective-II	Multivariate Statistical Modeling	68678
		Supply Chain Management	68679
		Reliability Analysis and Prediction	68680
		Queuing Theory and Models	68681
		Total Quality Management	56226 /68682
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**New Course from – December 2014****Time: 10.00 a.m. to 01.00 p. m.**

DAY & DATE	BRANCH	PAPER	
Tuesday 15-5-2018	CHEMICAL	Advanced Momentum and Heat Transfer	64209
Thursday 17-5-2018		Advanced Chemical Engineering Thermodynamics	64210
Saturday 19-5-2018		Process Modeling in Chemical Engineering	64211
Monday 21-05-2018		Elective-I Nanotechnology	64212
		Green Technology	64213
		Pharmaceutical Biotechnology	64214
Wednesday 23-05-2018		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 a.m. to 1.00 p.m.**

DAY & DATE	BRANCH	PAPER	
Tuesday 15-5-2018	ELECTRONIC	Advanced Digital Signal processing	63931
Thursday 17-5-2018		CMOS VLSI Design	63932
Saturday 19-5-2018		Random Signal Processing	63933
Monday 21-05-2018		Elective-I High Performance Communication Network	63934
		Design of Digital Circuit and Logic Design	63935
		Optimization Techniques	63936
		Advance Communication System	63937
Wednesday 23-05-2018		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 – December 2014

Time: 10.00 a.m. to 1.00 p.m.

DAY & DATE	BRANCH	PAPER	
Tuesday 15-5-2018	CAD-CAM	Design of Experiments and Research Methodology	63965
Thursday 17-5-2018		Finite Elements Analysis	63966
Saturday 19-5-2018		Micro Electro-Mechanical System	63967
Monday 21-05-2018		Computer Aided Manufacturing	63968
Wednesday 23-05-2018		Elective-I Advanced Design Engineering	63969
		Advanced Tool Design	63970
		Design of Hydraulic and Phenaulic System	63971
		Mechatronic System Design	63972

SEMESTER – II

Day & Date : - Wednesday 16-5-2018

Time: 10.00 a.m. to 1.00 p.m.

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Theory of Plates and Shell Time 10-00 a.m. to 2.00 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 & BIO-TECHNOLOGY	-	Bioreactor Design	43448
COMPUTER SCIENCE	-	Design of Database Systems	48768
CAD/CAM/CAE	-	Manufacturing Systems Design	48742
AUTOMOBILE	-	Engine Design	38722

SEMESTER – II**Day & Date : - Friday 18-5-2018****Time: 10.00 a.m. to 1.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Finite Element Method Time 10-00 a.m. to 2.00 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

SEMESTER - II**Day & Date : - Tuesday 22-5-2018****Time: 10.00 a.m. to 1.00 p.m.**

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Earthquake Engineering Time 10.000 a.m. to 2.00 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

SEMESTER – II

Day & Date :- Thursday 24-5-2018

Time: 10.00 a.m. to 1.00 p.m.

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Advanced Design of Steel Structure Time: 10.00 a.m. to 2.00 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

SEMESTER-II

Day & Date : - Saturday 26-5-2018 Time: 10.00 a. m to 1.00 p.m.

BRANCH	Sub- Branch	Papers	
CIVIL	Structure	Elective-II 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	Elective-II Environmental Quality Management	36024
		Remote Sensing & GIS Applications in Environmental Engineering	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
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	

SEMESTER – II**Day &Date :-Saturday 26-5-2018Time:10.00 a.m. to 1.00 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**New Course – From – May, 2013****Time: 10.00 a.m. to 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 16-5-2018	Mechanical- Machine Design	Advanced Material Science	55602
Friday 18-5-2018		Advanced Machine Design	55603
Tuesday 22-5-2018		Mechanics Of Machinery	55604
Thursday 24-05-2018	Elective-III	Experimental Stress Analysis	55605
		Composite Materials	55606
		Advanced Machine Tool Design	55607
		Open Elective	55608
Saturday 26-5-2018	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 a.m. to 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 16-5-2018	Mechanical-Heat Power & Engineering	Numerical Computation of Fluid & Heat Flow	56043
Friday 18-5-2018		Energy Analysis of Thermal System	56044
Tuesday 22-5-2018		Design Of Heat Transfer Equipment's	56045
Thursday 24-05-2018	Elective-III	Design Of Renewable Energy Equipment's & System	56049
		Cryogenics	56050
		Open Elective	56053
Saturday 26-5-2018	Elective-IV	Gas Turbines & Jet Propulsion	56051
		Advanced Mathematical Methods & Optimization	56052
		Design Of pumps, Compressors & Blowers	56054

SEMESTER – II BRANCH - MECHANICAL**New-Course - from – May, 2013****Time: 10.00 a.m. to 1.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 16-5-2018	Mechanical-Design Engineering	Advanced Theory Of Vibrations	56150
Friday 18-5-2018		Advanced Design Engineering	56151
Tuesday 22-5-2018		Analysis and Synthesis of Mechanisms	56152
Thursday 24-05-2018	Elective-III	Design for Sustainability & Life Cycle Cost	56158
		Tribology	56159
		Open Elective	56160
		Experimental Stress Analysis	56157
Saturday 26-5-2018	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 5615, Industrial Training 56156**

SEMESTER – II BRANCH - MECHANICAL**New – Course – from – May, 2013****Time: 10.00 a.m. to 1.00 pm.**

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 16-5-2018	Mechanical- Production Engineering	Optimization Techniques	56228
Friday 18-5-2018		Advanced Casting Technology	56229
Tuesday 22-5-2018		Production & Operations Management	56230
Thursday 24-05-2018	Elective-III	Fabrication Engg. Welding Technology	56235
		Entrepreneurship Development	56236
		Precision Manufacturing	56237
		Reliability Engineering	56238
		World Class Manufacturing	56239
		Total Quality Management	56240
Saturday 26-5-2018	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 a.m. to 1.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 16-5-2018	Mechanical-Product Design & Development	Manufacturing System Design	56262
Friday 18-5-2018		Creativity, Innovation & New Product Development	56263
Tuesday 22-5-2018		Product Life Cycle Management	56264
Thursday 24-05-2018	Elective-III	Experimental Stress Analysis	56267
		Reliability Engineering	56268
		Industrial Robotics & Expert System	56269
		Open Elective	56270
Saturday 26-5-2018	Elective-IV	Rapid Prototyping	56271
		Engineering Optimization In Design	56272
		AI.& Neural Network	56273
		TQM & Six Sigma	56274
Only For Student & College Information			
Seminar-II56265 T/W , Comprehensive Viva 56266 Ext.			

SEMESTER II
BRANCH – VLSI AND EMBEDDED SYSTEM
New Course from – May 2014 Time: 10.00 a.m. to 1.00 pm.

DAY & DATE	SUB-BRANCH	PAPER	
Wednesday 16-5-2018	VLSI AND EMBEDDED SYSTEM	CMOS VLSI DESIGN –II	60751
Friday 18-5-2018		Analog & Mixed signal Design	60752
Tuesday 22-5-2018		Embedded Software Design	60753
Thursday 24-05-2018		Testing & Text ability	60754
Saturday 26-5-2018	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 a.m. to 1.00 p. m.

DAY & DATE	BRANCH	PAPER	
Wednesday 16-5-2018	CHEMICAL	Advanced Mass Transfer System	64221
Friday 18-5-2018		Modern Reaction Engineering	64222
Tuesday 22-5-2018		Chemical Process Control	64223
Thursday 24-05-2018		Elective-III Computational Fluid Dynamics	64224
		Energy Engineering	64225
		Research Methodology	64226
Saturday 26-5-2018		Elective IV Project Management	64227
		Modern Separation Process	64228
		Down Stream Processing	64229
		Operation Research	64230

SEMESTER II (Last chance)**OLD-Course upto – May, 2018 Time: 10.00 a.m. to 1.00 p.m.**

DAY & DATE	BRANCH	PAPER	
Wednesday 16-5-2018	Electronic	Elective-II Communication Switching System	34505
		Mobile Communication Engineering	34506
Friday 18-05-2018		Neural Network	34507
		Distributed Database System	34508
Friday 18-05-2018		Elective-III Broadband Communication	34509
		Web Technology	34510
		Software Engineering	34511

SEMESTER II**New Course from – May 2015 Time: 10.00 am. to 1.00 pm.**

DAY & DATE	BRANCH	PAPER		
Wednesday 16-5-2018	ELECTRONIC	Real Time Embedded System Design	63946	
Friday 18-5-2018		Advanced Process Control	63947	
Tuesday 22-05-2018		Power Electronics System	63948	
Thursday 24-5-2018		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	
Saturday 26-5-2018		Elective-IV	Fuzzy System	63954
			VLSI in Digital Signal Processing	63955
			RF & Microwave Circuits	63956
	Renewable & Distributed Energy System		63957	
	Advanced Computer Architecture		63958	

New Course from – December 2014

Time: 10.00 a.m. to 1.00 p.m.

DAY & DATE	BRANCH	PAPER	
Wednesday 16-05-2018	CAD-CAM	Product Life Cycle Management	63976
Friday 18-05-2018		Advanced Mechanics or Materials	63977
Tuesday 22-05-2018		Automation & Robotics	63978
Thursday 24-05-2018		Design Optimization Techniques	63979
Saturday 26-5-2018		Elective-II 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 16-05-2018	Environmental	Industrial Waste Treatment	66372
Friday 18-05-2018		Biological Waste Water Treatment	66373
Tuesday 22-05-2018		Environmental Impact Assessment and Legislation	66374
Thursday 24-05-2018		Elective-III Remote Sensing and GIS	66376
		Watershed Management	66377
		Environmental Modeling and Simulation	66378
Saturday 26-5-2018	Elective IV Environmental Management System	66379	
	Disaster Planning and Risk Analysis	66380	
	Environmental Geotechnology	66381	

SEMESTER-II Branch ELECTRONICS & TELECOMMUNICATION**Time : 10.00 a.m. to 1.00 p.m.**

DAY & DATE	BRANCH	PAPER		
Wednesday 16-05-2018	Electronics And Telecommunication	Advance Microwave Circuit Design	66395	
Friday 18-05-2018		Adhoc and Wireless Sensor Network	66396	
Tuesday 22-05-2018		Computer Vision	66397	
Thursday 24-05-2018		Elective-II		
		1.Cryology and Network Security	66400	
		2.Multi Rate System	66401	
		3.SDR and cognitive Radio Technology	66402	
Saturday 26-5-2018		4.DSP architecture and Algorithm	66403	
	Elective-III			
	Advanced Operating Systems	66404		
	Optimization Techniques	66405		
		Industry Automation and Process Control	66406	
		Nanotechnology	66407	

SEMESTER-II Branch Industrial Engineering**Time : 10.00 a.m. to 1.00 p.m.**

DAY & DATE	BRANCH	PAPER		
Wednesday 16-05-2018	Industrial Engineering	Optimization Techniques	68686	
Friday 18-05-2018		Human Factors Engineering	68687	
Tuesday 22-05-2018		Production Planning and Inventory Control	68688	
Thursday 24-05-2018		Elective-III		
		1-Quality Engineering	68689	
		2.Facility Layout and Design	68690	
		3. Maintenance Engineering	68691	
		4. Scheduling Algorithms	68692	
Saturday 26-5-2018	5. Productivity Management	68693		
	Elective-IV			
	Multivariate Statistical Modeling	68694		
	Logistics Management	68695		
	Industrial Safety Engineering	68696		
		Industrial Product Design	68697	
		World Class Manufacturing	68698	

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 & 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.

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Kolhapur
Date:05.03.2018

Shri M. A. Kakade
Director, Board of Examination and Evaluation