

SHIVAJIUNIVERSITY, KOLHAPUR.
Final Programme of M.Tech.CBCS Semester-I & II
Examination to be held in Nov./Dec. 2019
NO - 489 Exam Of Nov./Dec. 2019

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.Tech.(CBSE) SEMESTER-I& II NEW SYLLABUS 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	DKTE.'s Textile & Engineering Institute, Ichalkaranji.
7	Jaysingpur.	Dr.J.J.Magadum College Of Engg., Jaysingpur.
8	Ambabai Talim Savanshta, Miraj	Walchand College Of Engg., Sangli.
9	Ashta	Annasaheb Dange College Of Engg.&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	Bharati Vidypeeth College of Engg., Morewadi, Kolhapur	Kolhapur Institute Of Technology's College Of Engg., 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 Engineering

3. The written Examination will be² conducted in the following order

SEMESTER – I
BRANCH-MECHANICAL
New-Course- From-DEC- 2019
Time: 10.00 a.m. to 12.30 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Thursday, 28/11/2019	Mechanical- Design Engineering	Mathematical Modeling And Design Optimization	72048
Friday, 29/11/2019		Solid Mechanics	72049
Saturday, 30/11/2019		Advanced Finite Element Analysis	72050
Monday, 02/12/2019	Elective-I	Material Handling Equipment Design	72053
		Reliability Engineering	72051
		Process Equipment Design	72052
		Product Design And Development	72054
Tuesday, 03/12/2019	Elective-II	Robotics	72055
		Machine Tool Design	72056
		Advanced Design Engineering	72057
		Reverse Engineering	72058

SEMESTER – I
BRANCH – MECHANICAL
New-Course- From-DEC-2019
Time: 10.00 a.m. to 12.30 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Thursday, 28/11/2019	Mechanical Heat Power Engineering	Advanced Fluid Mechanics	72061
Friday, 29/11/2019		Advanced Thermodynamics And Combustion	72062
Saturday, 30/11/2019		Advanced Heat Transfer	72063
Monday, 02/12/2019	Elective-I	Advanced I.C. Engines	72064
		Advanced Refrigeration	72065
		Advanced Power Plant Engineering	72066
Tuesday, 03/12/2019	Elective-II	Advanced Automobile Engineering -	72067
		Design of Air Conditioning Systems	72068
		Advanced Automobile Engineering	72069

SEMESTER – I
BRANCH - MECHANICAL
New-Course- From-DEC-2019
Time: 10.00 a.m. to 12.30 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Thursday, 28/11/2019	Mechanical- Machine Design	Solids Mechanics	72105
Friday, 29/11/2019		Mathematical Modeling And Design Optimization	72106
Saturday, 30/11/2019		Vibrations Engineering	72107
Monday, 02/12/2019	Elective-I	Tribology	72108
		Process Equipment Design	72109
		Finite Element Analysis	72110
		Mechatronics	72111
Tuesday, 03/12/2019	Elective-II	Vibration Control And Condition Monitoring	72112
		Product Design And Development	72113
		Material Handling Equipment Design	72114
		Robotics	72115

SEMESTER – I
BRANCH – ELECTRONICS
New-Course- From – DEC – 2019
Time: 10.00 a.m. to 12.30 p.m.

DAY & DATE	Sub – Branch	Paper	
Thursday, 28/11/2019	ELECTRONICS	Advanced Digital Signal Processing	72016
Friday, 29/11/2019		Cosmos VLSI Design	72017
Saturday, 30/11/2019		Random Signal Processing	72018
Monday, 02/12/2019	Elective I	High Performance Communication Network-	72019
		Design Of Digital Circuit & Logic Design	72020
		Advanced Communication Systems	72021
		Software Defined Radios	72022
Tuesday, 03/12/2019	Elective-II	Image Processing & Applications	72023
		Design Of VLSI Systems	72024
		Wireless Sensor Networks	72025
		Industrial Dc Drives	72026

SEMESTER-I
BRANCH
ELECTRONICS & TELECOMMUNICATION
(New Course-DEC 2019)
Time: 10.00 a.m. to 12.30 p.m.

DAY & DATE	Branch	Paper	
Thursday, 28/11/2019	Electronics & Telecommunication	Advanced Embedded System	72040
Friday, 29/11/2019		Error control Coding Techniques	72041
Saturday, 30/11/2019		Advanced Wireless Communication	72042
Monday, 02/12/2019	Elective – I	Random Process	72043
		Digital Data Compression	72044
		Advanced Biomedical Signal Processing	72045
		Optimization techniques	72046
Tuesday, 03/12/2019	Elective – II	Mobile Computing	72047
		Design of VLSI Systems	72431
		Internet Traffic Engineering	72432
		Advanced Antenna Theory	72433

SEMESTER – I
BRANCH
COMPUTER SCIENCE AND TECHNOLOGY
New-Course- From-DEC-2019
Time: 10.00 a.m. to 12.30 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Thursday, 28/11/2019	Computer Science And Technology	Mathematical Foundations Of Computer Science	72028
Friday, 29/11/2019		Design Of Database Systems	72029
Saturday, 30/11/2019		Advanced Algorithms	72030
Monday, 02/12/2019	Elective-I	Advanced Network Protocol	72031
		Ad-Hoc Wireless Network	72032
		Pervasive Computing	72033
Tuesday, 03/12/2019	Elective-II	Cloud And Virtualization	72034
		High Performance Computing Architectures	72035
		Advanced Operating Systems	72036

SEMESTER I
BRANCH- CHEMICAL

New Course From – DEC 2019
Time: 10.00 a.m. To 12.30 pm.

DAY & DATE	BRANCH	PAPER	
Thursday, 28/11/2019	CHEMICAL	Advanced Momentum And Heat Transfer	72080
Friday, 29/11/2019		Advanced Chemical Engineering Thermodynamics	72081
Saturday, 30/11/2019		Process Modeling In Chemical Engineering	72082
Monday, 02/12/2019	Elective-I	Nano Technology	72083
		Green Technology	72084
		Pharmaceutical Biotechnology	72085
Tuesday, 03/12/2019	Elective-II	Catalysis And Surface Phenomena	72086
		Bioprocess Engineering	72087
		Materials Engineering	72088
		Process And Equipment Design	72089

SEMESTER I

BRANCH- CAD-CAM-CAE

New Course From – DEC 2019
Time: 10.00 a.m. To 12.30 pm.

DAY & DATE	BRANCH	PAPER	
Thursday, 28/11/2019	CAD-CAM-CAE	Computer Aided Design	72092
Friday, 29/11/2019		Advanced Machine Design	72093
Saturday, 30/11/2019		Advanced Finite Element Analysis	72094
Monday, 02/12/2019	Elective I	Mechatronics system design	72095
		Design & Development of CAD/CAM/CAE Engineering	72096
		Theory of Plasticity and Elasticity	72097
		Design of Hydraulic and Pneumatic System	72098
Tuesday, 03/12/2019	Elective II	Design of Experiment and Research Methodology	72099
		Automatic Control	72100
		Optimization Techniques	72101
		Tribology & Surface Engineering	72102

SEMESTER – I**BRANCH****CIVIL CONSTRUCTION & MANAGEMENT****New Course From – DEC 2019****Time: 10.00 a.m. To 12.30 pm.**

DAY & DATE	BRANCH	PAPER	
Thursday, 28/11/2019	CIVIL CONSTRUCTION & MANAGEMENT	Construction Project Management	72072
Friday, 29/11/2019		Construction Equipment	72073
Saturday, 30/11/2019		Project Economics & Financing	72074
Monday, 02/12/2019		Computational Methods and Optimization Techniques	72075
Tuesday, 03/12/2019	Elective I	Entrepreneurship In Construction	72076
		Human Resource Development in Construction	72077
		Repair and Rehabilitation of Structures	72078
		Ground Improvement Techniques	72079

SEMESTER – II**BRANCH - MECHANICAL****New-Course- From-DEC- 2019****Time: 2.30 p.m. to 5.00 p.m.**

DAY & DATE	SUB-BRANCH	PAPER	
Friday, 29/11/2019	Mechanical- Design Engineering	Vibration Engineering	72697
Saturday, 30/11/2019		Smart Materials and Structure	72698
Monday, 02/12/2019		Analysis and Synthesis of Mechanisms	72699
Tuesday, 03/12/2019	Elective-III	Experimental Stress Analysis	72700
		Design for Sustainably and Life Cycle Cost	72701
		Tribology	72702
		Open Elective	72703
Wednesday, 04/12/2019	Elective-IV	Noise and Vibration Harshness	72704
		Vehicle Dynamics	72705
		Engineering Fracture Mechanics	72706
		Design for Manufacture and Assembly	72707

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SEMESTER- II

BRANCH – MECHANICAL

New-Course- From-DEC-2019

Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Friday, 29/11/2019	Mechanical Heat Power Engineering	Numerical Computation of Fluid and Heat Flow	72711
Saturday, 30/11/2019		Energy Analysis of Thermal Systems	72712
Monday, 02/12/2019		Design of Heat Transfer Equipment's	72713
Tuesday, 03/12/2019	Elective-III	Design of Renewable Energy Equipment's & Systems	72714
		Cryogenics	72715
		Open Elective	72716
Wednesday, 04/12/2019	Elective-IV	Gas Turbines and Jet Propulsion	72717
		Advanced Mathematical Methods and Optimization	72718
		Design of Pumps, Compressors and Blowers	72719

SEMESTER-II

BRANCH – MECHANICAL

New-Course- From-DEC-2019

Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Friday, 29/11/2019	Mechanical Machine Design	Mechanics of Machinery	72759
Saturday, 30/11/2019		Advanced Machine Design	72760
Monday 02/12/2019		Advanced Materials	72761
Tuesday, 03/12/2019	Elective-III	Experimental Stress Analysis	72762
		Composite Materials	72763
		Advanced Machine Tool Design	72764
Wednesday, 04/12/2019	Elective-IV	Noise and Vibration Harshness	72766
		Vehicle Dynamics	72767
		Engineering Fracture Mechanics	72768
		Reliability Engineering	72769

**SEMESTER – II
BRANCH – ELECTRONICS**

New-Course- From – DEC – 2019

Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	Sub – Branch	Paper	
Friday, 29/11/2019	ELECTRONICS	Real Time Embedded System Design	72230
Saturday, 30/11/2019		Power Electronics Systems	72231
Monday, 02/12/2019	Elective III	Design & Analysis of Algorithms	72232
		Design of Analog & Mixed Mode VLSI Circuits	72233
		RF & Microwave Circuits	72234
		Advanced Wireless Communication	72235
Tuesday, 03/12/2019	Elective-IV	Fuzzy Systems	72236
		VLSI in Digital Signal Processing	72237
		Nano Technology	72238
		Cryptography & Network Security	72239
Wednesday, 04/12/2019	Elective-V	Advanced Process Control	72240
		Renewable & Distributed Energy Systems	72241
		Internet of Things	72242
		Robotic Design & Control	72243

**SEMESTER – II
BRANCH
ELECTRONICS & TELECOMMUNICATION**

(New Course-DEC 2019)

Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	Branch	Paper	
Friday, 29/11/2019	Electronics & Telecommunication	Computer Vision	72683
Saturday, 30/11/2019		Adhoc & Wireless Sensor Networks	72684
Monday, 02/12/2019	Elective – III	Cryptography & Network Security	72685
		Multi Rate System	72686
		Advanced Light Wave Communication	72687
		DSP Architecture & Algorithm	72688
Tuesday, 03/12/2019	Elective – IV	Advanced Microwave Circuit Design	72689
		SDR & Cognitive Radio Technology	72690
		Industry Automation & Process Control	72691
		Nanotechnology	72692
Wednesday, 04/12/2019	Elective – V	Advanced Operating Systems	72693
		Artificial Intelligence	72694
		Soft Computing	72695
		Cyber Security	72696

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SEMESTER – II
BRANCH
COMPUTER SCIENCE AND TECHNOLOGY
New-Course- From-DEC-2019
Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Friday, 29/11/2019	Computer Science And Technology	Systems and Information Security	72245
Saturday, 30/11/2019		Machine Learning	72246
Monday, 02/12/2019	Elective-III	Data Analytics	72247
		Data Warehousing and Data Mining	72248
		Business Analytics	72249
Tuesday, 03/12/2019	Elective-IV	Deep Learning	72250
		Computer Vision	72251
		Pattern Recognition	72252
Wednesday, 04/12/2019	Elective-V	Parallel and Distributed Computing	72512
		Information Retrieval	72513
		Natural Language Processing	72514

SEMESTER – II
BRANCH
CHEMICAL
New-Course- From-DEC-2019
Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Friday, 29/11/2019	CHEMICAL Engineering	Advanced Mass Transfer	72732
Saturday, 30/11/2019		Modern Reaction Engineering	72733
Monday, 02/12/2019		Chemical Process Control	72734
Tuesday, 03/12/2019	Elective –III	Computational Fluid Dynamics	72735
		Energy Engineering	72736
		Research Methodology	72737
Wednesday, 04/12/2019	Elective-IV	Project Management	72739
		Advance Separation Techniques	72740
		Downstream Process Technology	72741
		Operational Research	72742

SEMESTER – II
BRANCH
CAD-CAM-CAE
New-Course- From-DEC-2019
Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Friday, 29/11/2019	CAD-CAM-CAE	Manufacturing Systems Design	72745
Saturday, 30/11/2019		Computer Aided Manufacturing	72746
Monday, 02/12/2019		Product Life Cycle Management	72747
Tuesday, 03/12/2019	Elective-III	Nanotechnology	72748
		Rapid Manufacturing	72749
		Computational Fluid Dynamics	72750
		Open Elective	72751
Wednesday, 04/12/2019	Elective-IV	Design for Manufacturing and Assembly	72752
		Ind. Automation and Robotics	72753
		CAD/CAM/CAE Practices in Metal forming	72754
		Industrial Product Design	72755

SEMESTER – II
BRANCH
CIVIL CONSTRUCTION & MANAGEMENT
New-Course- From-DEC-2019
Time: 2.30 p.m. to 5.00 p.m.

DAY & DATE	SUB-BRANCH	PAPER	
Friday, 29/11/2019	Civil Construction & Management	Construction Contracts and Legal Aspects	72723
Saturday, 30/11/2019		Statistical Analysis and Research Methodology	72724
Monday, 02/12/2019		Construction Methods and Techniques	72725
Tuesday, 03/12/2019	Elective-II	Advanced Construction	72726
		Environmental Impact Assessment	72727
		Advance Construction Materials & Building Services	72728

NOTE:

- 4) 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.

The Candidates are allowed to use the electronic calculators for numerical calculations at their own cost. University will not supply such calculators.

- 5) The cellular Phone, Scientific Calculator & Digital Diary or any means, which can be used for unfair practice, are not allowed in the Examination hall.
- 6) 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.
- 7) In case of any Query found in respective Question Paper, student shall communicate the same through Principal/Senior Supervisor within 7th days from the date of concerned Question Paper to, Deputy Registrar, Appointment Section, Room No. 205, Exam. Building No. 1, Shivaji University, Kolhapur-416004.

Vidyanagar,
Kolhapur- 416 004.
Date -23/10/2019

Sd/-
Shri. G. R. Palse
I/c. Director,
Board of Examinations and
Evaluations.

