

SHIVAJI UNIVERSITY, KOLHAPUR.
Draft Programme Circular No. 747 Exam of May, 2020

Faculty : Engineering

Course : **M.Tech. Examination C.B.C.S. Pattern (Course Code 1156)**

Part – I Sem.- I & II Examination to be held in May, 2020

INSTRUCTIONS : Common instruction as per Circular No. SU/On Exam/29, dated 01.02.2020, and also available on University website www.unishivaji.ac.in

1	C.B.C.S. Pattern Sem – I syllabus Only for Fresh (Regular) students from October, 2018
2	C.B.C.S. Pattern Sem – II syllabus Only for Fresh (Regular) students from March, 2019

The Centres and Places of the Examination will be as under :

Sr. No.	Centres	Centre Code	Colleges Abbr.	College Code	Places
1	Warnanagar	10	TKT	15	Tatyasaheb Kore Institute of Technology, Warananagar
2	Jaysingpur	04	JJM	08	Dr. J. J. Magdum College of Engineering, Jaysingpur
3	Kolhapur Institute of Technology's College of Engg., Gokul Shirgaon, Kolhapur	03	KIT	09	Kolhapur Institute of Technology's College of Engg., Gokul Shirgaon, Kolhapur
			DYP	07	D.Y. Patil College of Engg. & Tech., Kasaba Bawada, Kolhapur
			BCE	281	Bharati Vidya Peeth College of Engg., Kolhapur

The written Examination will be conducted in the following order :

M.Tech. CBCS Semester-I

BRANCH – MECHANICAL

New Course From Dec - 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	Mechanical-Design Engineering	72048	Mathematical Modeling and Design Optimization
Tuesday, 05/05/2020		72049	Solid Mechanics
Wednesday, 06/05/2020		72050	Advanced Finite Element Analysis
Friday, 08/05/2020	Elective-I	72053	Material Handling Equipment Design
		72051	Reliability Engineering
		72052	Process Equipment Design
		72054	Product Design And Development
Saturday, 09/05/2020	Elective-II	72055	Robotics
		72056	Machine Tool Design
		72057	Advanced Design Engineering
		72058	Reverse Engineering

BRANCH – MECHANICAL

New Course From Dec - 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	Mechanical Heat Power Engineering	72061	Advanced Fluid Mechanics
Tuesday, 05/05/2020		72062	Advanced Thermodynamics And Combustion
Wednesday, 06/05/2020		72063	Advanced Heat Transfer
Friday, 08/05/2020	Elective-I	72064	Advanced I.C. Engines
		72065	Advanced Refrigeration
		72066	Advanced Power Plant Engineering
Saturday, 09/05/2020	Elective-II	72067	Advanced Automobile Engineering -
		72068	Design of Air Conditioning Systems
		72069	Advanced Automobile Engineering

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	Mechanical- Machine Design	72105	Solids Mechanics
Tuesday, 05/05/2020		72106	Mathematical Modeling And Design Optimization
Wednesday, 06/05/2020		72107	Vibrations Engineering
Friday, 08/05/2020	Elective-I	72108	Tribology
		72109	Process Equipment Design
		72110	Finite Element Analysis
		72111	Mechatronics
Saturday, 09/05/2020	Elective-II	72112	Vibration Control And Condition Monitoring
		72113	Product Design And Development
		72114	Material Handling Equipment Design
		72115	Robotics

BRANCH – ELECTRONICS

New Course FromDec - 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	ELECTRONICS	72016	Advanced Digital Signal Processing
Tuesday, 05/05/2020		72017	Cosmos VLSI Design
Wednesday, 06/05/2020		72018	Random Signal Processing
Friday, 08/05/2020	Elective I	72019	High Performance Communication Network
		72020	Design of Digital Circuit & Logic Design
		72021	Advanced Communication Systems
		72022	Software Defined Radios
Saturday, 09/05/2020	Elective-II	72023	Image Processing & Applications
		72024	Design Of VLSI Systems
		72025	Wireless Sensor Networks
		72026	Industrial Dc Drives

BRANCH – ELECTRONICS& TELECOMMUNICATION

New Course FromDec - 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	Electronics & Telecommunication	72040	Advanced Embedded System
Tuesday, 05/05/2020		72041	Error Control Coding Techniques
Wednesday, 06/05/2020		72042	Advanced Wireless Communication
Friday, 08/05/2020	Elective – I	72043	Random Process
		72044	Digital Data Compression
		72045	Advanced Biomedical Signal Processing
		72046	Optimization techniques
Saturday, 09/05/2020	Elective – II	72047	Mobile Computing
		72431	Design of VLSI Systems
		72432	Internet Traffic Engineering
		72433	Advanced Antenna Theory

BRANCH – COMPUTER SCIENCE AND TECHNOLOGY

New Course From Dec – 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	Computer Science And Technology	72028	Mathematical Foundations of Computer Science
Tuesday, 05/05/2020		72029	Design of Database Systems
Wednesday, 06/05/2020		72030	Advanced Algorithms
Friday, 08/05/2020	Elective-I	72031	Advanced Network Protocol
		72032	Ad-Hoc Wireless Network
		72033	Pervasive Computing
Saturday, 09/05/2020	Elective-II	72034	Cloud And Virtualization
		72035	High Performance Computing Architectures
		72036	Advanced Operating Systems

BRANCH – CHEMICAL

New Course From Dec – 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	CHEMICAL	72080	Advanced Momentum And Heat Transfer
Tuesday, 05/05/2020		72081	Advanced Chemical Engineering Thermodynamics
Wednesday, 06/05/2020		72082	Process Modeling In Chemical Engineering
Friday, 08/05/2020	Elective-I	72083	Nano Technology
		72084	Green Technology
		72085	Pharmaceutical Biotechnology
Saturday, 09/05/2020	Elective-II	72086	Catalysis And Surface Phenomena
		72087	Bioprocess Engineering
		72088	Materials Engineering
		72089	Process And Equipment Design

BRANCH – CAD-CAM-CAE

New Course From Dec – 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	CAD-CAM-CAE	72092	Computer Aided Design
Tuesday, 05/05/2020		72093	Advanced Machine Design
Wednesday, 06/05/2020		72094	Advanced Finite Element Analysis
Friday, 08/05/2020	Elective I	72095	Mechatronics system design
		72096	Design & Development of CAD/CAM/CAE Engineering
		72097	Theory of Plasticity and Elasticity
		72098	Design of Hydraulic and Pneumatic System
Saturday, 09/05/2020	Elective II	72099	Design of Experiment and Research Methodology
		72100	Automatic Control
		72101	Optimization Techniques
		72102	Tribology & Surface Engineering

BRANCH – CIVIL CONSTRUCTION & MANAGEMENT New Course From Dec – 2018

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 10.00 a.m. to 12.30 p.m.
Monday, 04/05/2020	CIVIL CONSTRUCTION & MANAGEMENT	72072	Construction Project Management
Tuesday, 05/05/2020		72073	Construction Equipment
Wednesday, 06/05/2020		72074	Project Economics & Financing
Friday, 08/05/2020		72075	Computational Methods and Optimization Techniques
Saturday, 09/05/2020	Elective I	72076	Entrepreneurship in Construction
		72077	Human Resource Development in Construction
		72078	Repair and Rehabilitation of Structures
		72079	Ground Improvement Techniques

M.Tech.CBCS Semester-II**BRANCH – MECHANICAL**

New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	Mechanical Design Engineering	72697	Vibration Engineering
Wednesday, 06/05/2020		72698	Smart Materials and Structure
Friday, 08/05/2020		72699	Analysis and Synthesis of Mechanisms
Saturday, 09/05/2020	Elective-III	72700	Experimental Stress Analysis
		72701	Design for Sustainably and Life Cycle Cost
		72702	Tribology
		72703	Open Elective
Monday, 11/05/2020	Elective-IV	72704	Noise and Vibration Harshness
		72705	Vehicle Dynamics
		72706	Engineering Fracture Mechanics
		72707	Design for Manufacture and Assembly

BRANCH – MECHANICAL

New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	Mechanical Heat Power Engineering	72711	Numerical Computation of Fluid and Heat Flow
Wednesday, 06/05/2020		72712	Energy Analysis of Thermal Systems
Friday, 08/05/2020		72713	Design of Heat Transfer Equipment's
Saturday, 09/05/2020	Elective-III	72714	Design of Renewable Energy Equipment's & Systems
		72715	Cryogenics
		72716	Open Elective
Monday, 11/05/2020	Elective-IV	72717	Gas Turbines and Jet Propulsion
		72718	Advanced Mathematical Methods and Optimization
		72719	Design of Pumps, Compressors and Blowers

BRANCH – MECHANICAL

New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	Mechanical Machine Design	72759	Mechanics of Machinery
Wednesday, 06/05/2020		72760	Advanced Machine Design
Friday, 08/05/2020		72761	Advanced Materials
Saturday, 09/05/2020	Elective-III	72762	Experimental Stress Analysis
		72763	Composite Materials
		72764	Advanced Machine Tool Design
Monday, 11/05/2020	Elective-IV	72766	Noise and Vibration Harshness
		72767	Vehicle Dynamics
		72768	Engineering Fracture Mechanics
		72769	Reliability Engineering

BRANCH – ELECTRONICS

New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	ELECTRONICS	72230	Real Time Embedded System Design
Wednesday, 06/05/2020		72231	Power Electronics Systems
Friday, 08/05/2020	Elective III	72232	Design & Analysis of Algorithms
		72233	Design of Analog & Mixed Mode VLSI Circuits
		72234	RF & Microwave Circuits
		72235	Advanced Wireless Communication
Saturday, 09/05/2020	Elective-IV	72236	Fuzzy Systems
		72237	VLSI in Digital Signal Processing
		72238	Nano Technology
		72239	Cryptography & Network Security
Monday, 11/05/2020	Elective-V	72240	Advanced Process Control
		72241	Renewable & Distributed Energy Systems
		72242	Internet of Things
		72243	Robotic Design & Control

BRANCH – ELECTRONICS & TELECOMMUNICATION New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	Electronics & Telecommunication	72683	Computer Vision
Wednesday, 06/05/2020		72684	Adhoc & Wireless Sensor Networks
Friday, 08/05/2020	Elective – III	72685	Cryptography & Network Security
		72686	Multi Rate System
		72687	Advanced Light Wave Communication
		72688	DSP Architecture & Algorithm
Saturday, 09/05/2020	Elective – IV	72689	Advanced Microwave Circuit Design
		72690	SDR & Cognitive Radio Technology
		72691	Industry Automation & Process Control
		72692	Nanotechnology
Monday, 11/05/2020	Elective – V	72693	Advanced Operating Systems
		72694	Artificial Intelligence
		72695	Soft Computing
		72696	Cyber Security

BRANCH – COMPUTER SCIENCE AND TECHNOLOGY New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	Computer Science And Technology	72245	Systems and Information Security
Wednesday, 06/05/2020		72246	Machine Learning
Friday, 08/05/2020	Elective-III	72247	Data Analytics
		72248	Data Warehousing and Data Mining
		72249	Business Analytics
Saturday, 09/05/2020	Elective-IV	72250	Deep Learning
		72251	Computer Vision
		72252	Pattern Recognition
Monday, 11/05/2020	Elective-V	72512	Parallel and Distributed Computing
		72513	Information Retrieval
		72514	Natural Language Processing

BRANCH – CHEMICAL New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	CHEMICAL Engineering	72732	Advanced Mass Transfer
Wednesday, 06/05/2020		72733	Modern Reaction Engineering
Friday, 08/05/2020		72734	Chemical Process Control
Saturday, 09/05/2020	Elective –III	72735	Computational Fluid Dynamics
		72736	Energy Engineering
		72737	Research Methodology
Monday, 11/05/2020	Elective-IV	72739	Project Management
		72740	Advance Separation Techniques
		72741	Downstream Process Technology
		72742	Operational Research

BRANCH – CAD-CAM-CAE New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	CAD-CAM-CAE	72745	Manufacturing Systems Design
Wednesday, 06/05/2020		72746	Computer Aided Manufacturing
Friday, 08/05/2020		72747	Product Life Cycle Management
Saturday, 09/05/2020	Elective-III	72748	Nanotechnology
		72749	Rapid Manufacturing
		72750	Computational Fluid Dynamics
		72751	Open Elective
Monday, 11/05/2020	Elective-IV	72752	Design for Manufacturing and Assembly
		72753	Ind. Automation and Robotics
		72754	CAD/CAM/CAE Practices in Metal forming
		72755	Industrial Product Design

BRANCH – CIVIL CONSTRUCTION & MANAGEMENT New Course From May - 2019

DAY & DATE	SUB-BRANCH	SUB CODE	Time: 2.30 p.m. to 5.00 p.m.
Tuesday, 05/05/2020	Civil Construction & Management	72723	Construction Contracts and Legal Aspects
Wednesday, 06/05/2020		72724	Statistical Analysis and Research Methodology
Friday, 08/05/2020		72725	Construction Methods and Techniques
Saturday, 09/05/2020	Elective-II	72726	Advanced Construction
		72727	Environmental Impact Assessment
		72728	Advance Construction Materials & Building Services

N.B:

The Practical Examination will be conducted in the Collages before the commencement of Theory Examination.

Engineering & Technology Exam Section
Date -

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