M.Tech. Part-I Sem - I & II Regular Course May, 2020 SHIVAJI UNIVERSITY, KOLHAPUR.

Draft Programme Circular No.745 Exam of May,2020

Faculty: Engineering

Course :M.Tech.Examination Regular Course (Course Code 121)

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

M.Tech-SEMESTER-I

(Regular Course)
(Time: - 10.00 a.m. to 01.00 p.m.)

Day & Date	BRANCHES	PAPER
	1) Electronics Technology	CMOS VLSI Design (39906)
04.05.2020	Computer Science and Technology	Theory of Computer science (39925)
Monday	3) Energy Technology	Energy Scenario (39841)
	4) Environmental Science & Technology	Introduction to Environmental (39951) science and Ecology
	1) Electronics Technology	Digital Systems Testing and (39907) Simulation with VHDL
06.05.2020	Computer Science and Technology	Advance Operating System (39926)
Wednesday	3) Energy Technology	Biomass and its Conversion (39842) Technologies
	4) Environmental Science & Technology	Environmental Chemistry and (39952) Microbiology
	1) Electronics Technology	High Speed Analog Design Techniques (39908)
09.05.2020 Saturday	Computer Science and Technology	Design and analysis of Algorithms (39927)
Saturday	3) Energy Technology	Solar Photovoltaic Energy Conversion (39843)
	4) Environmental Science & Technology	Energy and Environment (39953)
	1) Electronics Technology	1) Mixed Signal ASIC Design (39909) 2) PIC ARM and AVR
		(39910)
	2) Computer Science and Technology	1) Computer Vision and Image Processing (39928)
		2) Artificial Neural Networks (39929)
		3) Real time O.S. (39930)
		4) Human & Computer Interaction(40312)
12.05.2020	3) Energy Technology	1) Waste to Energy conversion (39844)
Tuesday		Wind Energy and Small (39845) hydropower systems
		3) Energy efficient lighting (39846)
	4) Environmental Science & Technology	1) Environmental Sanitation (39954)
		2) Optimization Techniques (39955)
		3) Environmental Biotechnology (39956)

	1) Electronics Technology	1) Analog and Low Power (39911) Digital VLSI Design 2) Embedded C and RTOs (39912)
	Computer Science and Technology	1) Multimedia Communications (39931)
		2) Embedded Systems (39932)
		3) Data Mining (39933)
14.05.2020 Thursday		4) Geographical Information Systems (39934)
	3) Energy Technology	1) Fuel and Combustion Tech. (39847)
		2) Solar Passive Architecture (39848)
		3) Energy Storage systems (39849)
	4)Environmental Science & Technology	1) Industrial Waste Management (39957)
		2) Environmental Economics (39958) And Regulation.

M.Tech. SEMESTER-II
(Regular Course)
(Time: - 10.00 a.m. to 01.00 p.m.)

Day & Date	BRANCHES	PAPER
	1) Electronics Technology	DSP Processor Fundamentals (39914)
05.05.2020	2) Computer Science and Technology	Computer Network Administration (39936)
Tuesday	3) Energy Technology	Solar Thermal Energy Conversion (39851)
	4) Environmental Science & Technology	Physic-Chemical & Biological (39960) Treatment Processes
	1) Electronics Technology	High Speed Digital Design (39915) Techniques
08.05.2020	Computer Science and Technology	Advanced Computer Architecture (39937)
Friday	3) Energy Technology	Energy Management & Audit (39852)
	4) Environmental Science & Technology	Air Pollution and Control (39961)
	1) Electronics Technology	Advanced Computer Networks (39916)
11.05.2020 Monday	Computer Science and Technology	Advanced in Database Design (39938)
	3) Energy Technology	Energy Efficiency in thermal &(39853) electrical utility
	4) Environmental Science & Technology	Environment Management Systems (39962)

	1) Electronics	1) Micro Electromechanical systems
	Technology	(39917)
		2) Design Using FPAG and VHDL
		(39918)
	2) Computer Science and	1) Web Technology
	Technology	(39939)
		2) Component Technology
		(39940)
		3) Quantum Computing
		(39941)
		4) Bio Informatics
		(39942)
13.05.2020		5) Digital Security
	2) Francis Tacknologis	(40313)
Wednesday	3) Energy Technology	1) Hydrogen technology and (39854)
		fuel cell technology
		Alternative fuels for transportation
		(39855)
		3) Power Plant Engineering
		(39856)
	4) Environmental	1) Advanced Water & Waste Water (39963)
	,	Treatment Technique
	Science & Technology	2) Environmental Toxicology
		(39964)
		3) Environmental Statistics and
		(39965)
		Experimental Design

M.Tech. SEMESTER-II (Cont.) (Regular Course) (Time: -10.00 a.m. to 01.00 p.m.)

Day & Date	BRANCHES	PAPER
•	1) Electronics Technology	1) Mixed signal ASIC Design (39919)
		2) DSP Algorithms & Applications (39920)
	2) Computer Science and Technology	1) Advance Software Technology (39943)
15.05.2020 Friday		2) Computer Modeling & Simulation (39944)
		3) Neutral Language Processing (39945)
		4) Grid Computing (39946)
		5) Network Protocols (40314)
		6) Mobile Computing (40315)
	3) Energy Technology	1) Power Co-generation

		(39857)
45.05.0000		2) Energy modeling & project
15.05.2020 Friday		(39858) Management
Filday		3) The New Energy Technologies
		(39859)
	4) Environmental Science	1) Remote Sensing and GIS
	& Technology	(39966)
		2) Solid Waste Management
		(39967)

M. Tech. Part - I Sem- I& II Credit System May, 2020

SHIVAJI UNIVERSITY, KOLHAPUR.

Draft Programme Circular No. 745 Exam of May, 2020

Faculty: Engineering

Course :M. Tech. Examination Credit System (Course Code 150)

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	Credit System Sem – I syllabus Only for Fresh (Regular) students from 2016-17
2	Credit System Sem – II syllabus Only for Fresh (Regular) students from 2016-17

M.Tech Semester-I Credit System (Old Course) (Time: - 10.00a.m. to 01.00 p.m.)

Day & Date		BRANCHES	PAPER	CODE
	1	Electronics Technology	High Speed Analog Design	56439
	2	Computer Science and Technology	Mathematical Foundation of Computer Science	56348
04.05.2020 Monday	3	Energy Technology	Energy Scenario	56409
Worlday	4	Environmental Science and Technology	Physico -Chemical and Biological Treatment processes	56378
	5	Food Technology	Advances in Food Engg. & Tech	61172
	1	Electronics Technology	Reconfigurable Platforms & HDL	56440
	2	Computer Science and Technology	Design and Analysis of algorithms	56349
06.05.2020 Wednesday	3	Energy Technology	Biomass and its Conversion Technologies	56410
	4	Environmental Science and Technology	Environmental Chemistry and Microbiology	56379
	5	Food Technology	Advances in Food Science and Nutrition	61173
	1	Electronics Technology	Communication Networks	56441
	2	Computer Science and Technology	Artificial Neural Network	56350
09.05.2020 Saturday	3	Energy Technology	Solar Photovoltaic energy Conversion	56411
	4	Environmental Science and Technology	Solid Waste management	56380
	5	Food Technology	Novel Techniques in Food Packaging	61174
			Memory Technologies	56446
			CMOS VLSI Design	56447
	1	Electronics Technology	Asynchronous Circuits Design	56448
			Advanced Computer Architecture	56449
12.05.2020		Commutan Soion oo and	Advance Database Systems	56355
Tuesday	2	Computer Science and Technology	Bio-Informatics	56356
		3,	Advanced Compilers	56357
			Waste to Energy Conversion	56416
	3	Energy Technology	Wind Energy and Small Hydropower System	56417
			Energy Efficient Lighting	56418

			Energy and Environmental	
	4	Environmental Caianas and		56385
		Environmental Science and Technology	Environmental Toxicology	56386
		Technology	Disaster Management and Risk Analysis	56387
			Advances in Meat Fish & Poultry Processing	61179
	5	Food Technology	EL-1 Modern Techniques in Fruits and Vegetable Processing	61180
			Waste Utilization of Food Processing Industries	61181
			Digital System and Testing	56450
			Mixed Signal ASIC Design	56451
	1	Electronics Technology	RISC Microcontrollers	56452
			Automotive Embedded Systems	56453
			VLSI Design	56454
	2	2 Computer Science and Technology Real Ti	Advanced Operating Systems	56358
			Real Time Systems	56359
			Web Engineering.	56360
14.05.2020	3	Energy Technology	Fuel and combustion Technology	56419
Thursday			Solar Passive Architecture	56420
			Energy Storage Systems	56421
		Environmental Science and	Optimization Techniques	56388
	4		Environmental Economics	56389
		Technology	Environmental Statistics and Experimental Design	56390
	5		Advances in Processing of Dairy Technology	61182
		Food Technology	Food Rheology and Texture	61183
			Advances in Cereals and Pulses Processing Technology	61184

M.Tech Semester-I Credit System (New Course A.Y. from 2016-17)

(Time: - 10.00a.m. to 01.00 p.m.)

Day & Date		BRANCHES	PAPER	CODE
	1	Electronics Technology	High Speed Analog Design	68068
	2	Computer Science and Technology	Mathematical Foundation of Computer Science	68054
04.05.2020 Monday	3	Energy Technology	Energy Resources and Their Utilization	68111
	4	Environmental Science and Technology	Physico -Chemical and Biological Treatment processes	68083
	5	Food Technology	Advances in Food Engg. &Tech	68097
	1	Electronics Technology	Reconfigurable Platforms & HDL	68069
	2	Computer Science and Technology	Design and Analysis of algorithms	68055
06.05.2020 Wednesday	3	Energy Technology	Biomass and its Conversion Technologies	68112
,	4	Environmental Science and Technology	Remote Sensing and GIS Applications in Environmental Engineering.	68084
	5	Food Technology	Advances in Food Science and Nutrition	68098
	1	Electronics Technology	Communication Networks	68070
	2	Computer Science and Technology	Artificial Neural Network	68056
09.05.2020 Saturday	3	Energy Technology	Solar Photovoltaic energy Conversion	68113
Cataraay	4	Environmental Science and Technology	Solid and Hazardous Waste Management	68085
	5	Food Technology	Novel Techniques in Food Packaging	68099
			Memory Technologies	68071
			CMOS VLSI Design	68072
	1	Electronics Technology	Management Novel Techniques in Food Packaging Memory Technologies CMOS VLSI Design Asynchronous Circuits Design Advanced Computer	68073
			Advanced Computer Architecture	68074
		Computer Science and	Advance Database Systems	68057
	2	Technology	Bio-Informatics	68058
12.05.2020		3	Advanced Compilers	68059
Tuesday			Waste to Energy Conversion	68114
	3	Energy Technology	Wind Energy and Small Hydropower System	68115
			Energy Efficient Lighting	68116
	4		Energy and Environmental	68086
		Environmental Science and	Environmental Toxicology	68087
		Technology	Environmental Chemistry & Microbiology	68088
	5	Food Technology	Advances in Meat Fish	68100

Т			1
		&Poultry Processing	
		EL-1 Modern Techniques in	68101
		Fruits and Vegetable Processing	08101
		Waste Utilization of Food	69102
		Processing Industries	68102
		Optimization Techniques	68089
	1. Electronics	Design of Energy Efficient	68090
	Technology	Operational Health and Safety	68091
		Management	00091
	2. Computer Sci.	Fuel and Combustion	68118
	Technology	Technology	00110
		Solar passive Architecture	68119
	3. Energy Technology	Energy storage Systems	68120
14.05.2020	4. Environmental Sci.	Advanced Operating Systems	68060
Thursday	Technology	Real Time Systems	68061
	reciniology	Web-Engineering	68062
		Digital System and Testing	68075
	5. Food Technology	Mixed Signal ASIC Design	68076
		Automotive Embedded Systems	68077
		Advances in Processing of	69102
	(Open Elective for	Dairy Technology	68103
	all Branches)	Food rheology and Texture	68104
		Advances in Cereals and Pulses	68105
		Processing Technology	00103

M.Tech Semester-II Credit System (Old Course) (Time: -10.00a.m. to 01.00 p.m.) BRANCHES PAPER

Day & Date		BRANCHES	PAPER	CODE
	1	Electronics Technology	DSP Processor	56455
	2	Computer Science and Technology	Parallel Computer Architecture	56361
05.05.2020 Tuesday	3	Energy Technology	Solar Thermal Energy Conversion	56422
laccaay	4	Environmental Science and Technology	Air pollution and Control	56391
	5	Food Technology	Advances in Food Biotechnology	61185
	1	Electronics Technology	Real Time Operating System	56456
	2	Computer Science and Technology	Computer Vision and Image Processing	56362
08.05.2020	3	Energy Technology	Energy management and Audit	56423
Friday	4	Environmental Science and Technology	Industrial Waste Treatment	56392
	5	Food Technology	Chemical and Instrumental analysis of food Components	61186
	1	Electronics Technology	High Speed Digital Design	56457
	2	Computer Science and Technology	Computer Security	56363
11.05.2020 Monday	3	Energy Technology	Energy Efficiency in Thermal and Electrical Utility	56424
monady	4	Environmental Science and Technology	Advanced Water and Waste Water Treatment	56393
	5	Food Technology	Food Quality Safety and Toxicology	61187
			System on Chip	56462
	1	Electronics Technology	Wavelet Transform and Applications	56463
		Electronics Technology	Micro Electromechanical System	56464
			Robotics and Machine Vision	56465
		Computer Science and	Data-Mining and Warehousing	56368
	2	Technology	Business Intelligence	56369
			Web Services and SOA	56370
13.05.2020 Wednesday			Hydrogen Technology And Fuel cell Technology	56429
		Energy Technology	Alternative Fuels for Transportation	56430
			Power Plant Engineering	56431
	4	Environmental Science and	Environmental Management Systems	56398

		Technology	Numerical Methods and Statistics	56399
			Remote Sensing and GIS Application. In Envi. Engg.	56400
			Environmental Sanitation	56401
	5	Food Technology	Newer developments in bakery and confectionery	61192
			Nutraceutical and Functional Foods	61193
			Food Color and Flavor Technology	61194
	1	Electronics Technology	RF Integrated Circuit Design	56466
			VLSI in Signal Processing	56467
			High Performance Networks	56468
			Mobile Computing	56469
			VLSI Design E Embedded System	56470
	2	Computer Science and Technology	Geographical Information	56371
			Systems	
			Artificial Intelligence and Natural Language Processing	56372
			System Modeling and	56373
			Simulation	
15.05.2020	3	Energy Technology	Power co-generation	56432
Friday			Energy Modeling and Project	56433
			Management	
			The New Energy Technologies	56434
	4	Environmental Science and Technology	Operation and Maintenance of	56402
			Environmental Facilities	
			Project Management	56403
			Environmental Biotechnology	56404
	5	Food Technology	Recent developments in processing of plantation crops	61195
			Simulation and Modeling in Food Processing	61196
			Project Management for Food Processing Industries	61197

M.Tech Semester-II Credit System (New Course A.Y. from 2016-17)

(Time: -10.00a.m. to 01.00 p.m.)

Day & Date		BRANCHES	PAPER	CODE
	1	Electronics Technology	DSP Processor	68144
05.05.2020 Tuesday	2	Computer Science and Technology	Parallel Computer Architecture	68235
	3	Energy Technology	Solar Thermal Energy Conversion	68190
	4	Environmental Science and Technology	Air pollution and Control	68158
	5	Food Technology	Advances in Food Biotechnology	68248
08.05.2020 Friday	1	Electronics Technology	Real Time Operating System	68145
	2	Computer Science and Technology	Computer Vision and Image Processing	68236
	3	Energy Technology	Energy management and Audit	68191
	4	Environmental Science and Technology	Environment Management Systems	68159
	5	Food Technology	Chemical and Instrumental analysis of food Components	68249
11.05.2020 Monday	1	Electronics Technology	Mobile Computing	68146
	2	Computer Science and Technology	Computer Security	68237
	3	Energy Technology	Energy Efficiency in Thermal and Electrical Utility	68192
	4	Environmental Science and Technology	Advanced Water and Waste Water Treatment	68160
	5	Food Technology	Food Quality Safety and Toxicology	68250
	1	Electronics Technology	System on Chip	68147
			Wavelet Transform and Applications	68148
			Micro Electro Mechanical System	68149
			Robotics and Machine Vision	68150
13.05.2020 Wednesday	2	Computer Science and Technology	Data-Mining and Warehousing	68238
			Business Intelligence	68239
			Web Services and SOA	68240
	3	Energy Technology	Hydrogen Technology And Fuel cell Technology	68193
			Alternative Fuels for Transportation	68194

			Power Plant Engineering	68195
	4	Environmental Science and Technology	Industrial Waste Treatment	68161
			Environmental Policies and Legislation	68162
			Environmental Sanitation	68163
	5	Food Technology	Newer developments in bakery and confectionery	68251
			Nutraceutical and Functional Foods	68252
			Food Color and Flavor Technology	68253
	1	Electronics Technology	High Performance Networks	68152
			High Speed Digital Design	68153
	2	Computer Science and Technology	Geographical Information Systems	68241
			Artificial Intelligence and Natural Language Processing	68242
			System Modeling and Simulation	68243
	3	Energy Technology	Power co-generation	68197
15.05.2020 Friday			Energy Modeling and Project Management	68198
			The New Energy Technologies	68199
	4	Environmental Science and Technology	Operation and Maintenance of Environmental Facilities	68165
			Rural Water Supply And Sanitation	68164
			Environmental Biotechnology	68166
	5	Food Technology	Recent Developments in Processing of Plantation crops	68254
			Simulation and Modeling in Food Processing	68255
			Project Management for Food Processing Industries	68256

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.