SHIVAJI UNIVERSITY, KOLHAPUR.

Draft Programme Circular No. 746Exam of May, 2020

Faculty : Engineering

Course : M.E.Examination (Course Code 106)

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 <u>www.unishivaji.ac.in</u>

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

Sr.	Centres	Centre	Colleges	College	Places
No.		Code	Abbr.	Code	
1	Karad	02	GCEK	06	Government College of Engineering, Karad
2	Satara	08	KBP	13	K.B.P. College of Engineering, Satara
3	Warnanagar	10	ТКТ	15	Tatyasaheb Kore Institute of Technology,
					Warananagar
4	Sakharale	07	RIT	12	Rajarambapu Institute of Technology,
					Sakharale
5	Budhagaon	06	PVPIT	11	P.V.P. Institute of Technology, Budhagaon
6	Ichalkaranji	09	DKTE	424	DKTEs Textile & Engineering, Ichalkaranji
7	Jaysingpur	04	JJM	08	Dr. J. J. Magdum College of Engineering,
					Jaysingpur
8	AmbabaiTalimSanshta's	40	WCE	418	Walchand College of Engineering, Sangli
	Sanjay Bhokare Group				
	Institutes, Miraj				
9	Ashta	01	ADCET	05	AnnasahebDange College of Engg. & Tech.,
					Ashta
10	Atigre	522	SDG	416	Sou. SushilaDanchandGhodawat,
					Charitable Trusts Group of Institutions,
					Atigre
11	Wathar	38	BMSP	420	Ashokrao Mane Group of Institutions
					Faculty of Engineering & Management
					Studies , Wathar
12	Panhala	525	SETI	417	Sanjeevan Engineering & Technology
					Institute, Panhala
13	YTC	485	LIMB	358	Gourishankar College of Engineering, Limb
	Kolhapur Institute of		KIT	09	Kolhapur Institute Of Technology"s College
	Technology"s College of				Of Engg., GokulShirgaon, Kolhapur
	Engg., Gokul				
14	Shirgaon, Kolhapur	03	DYP	07	D.Y.Patil College Of Enggi. & Tech.,
					KasabaBawada, Kolhapur
			BCE	281	BharatiVidypeeth College of Engg.,
					Kolhapur

The written Examination will be conducted in the following order :

Branch	Sub-Branch	Sub Code	Papers
CIVII	Structure	34341	Theory of Elasticity & Plasticity Time : 10.00 a.m. to 2.00 p.m.
CIVIL	Construction & Management	34319	Project Evaluation and Financing
	Power System	34336	Power System Modeling and Stability
ELECTRICAL	Control System	34331	Linear System Theory
BIOCHEMICAL ENGINEERING & BIO-TECHNOLOGY	-	42982	Advanced Bio reaction Engineering
COMPUTER SCIENCE	-	48760	Mathematical Foundations of Computer Science
CAD/CAM/CAE	-	48729	Advanced Machine Design
AUTOMOBILE	-	38712	Design of Experiments & Research Methodology

M.E. Examination C.B.C.S. SEMESTER – I Day &Date : - Monday, 04/05/2020 Time: 10.00 a.m. to 1.00 p.m.

SEMESTER – I

SEMESTER – 1 Day &Date : -Tuesday – 05/05/2020 Time: 10.00 a.m. to 1.00 p.m.						
Branch	Sub-Branch	Sub Code	Papers			
CIVIL	Structure	34342	Mechanics of Structures Time: 10.00 am to 2.00 p.m.			
	Construction & Management	34320	Planning & Management of Projects			
ELECTRICAL	Power System	34337	Modern Power System Protection & Related Instrumentation			
	Control System	34332	Applied Linear Algebra for Control System			
BIOCHEMICAL ENENGINEERING & BIO-TECHNOLOGY	-	42983	Advanced Biological Thermodynamics			
COMPUTER SCIENCE	-	48761	Advanced Distributed System			
CAD/CAM/CAE	-	48730	Computer Aided Manufacturing			
AUTO MOBILE	-	38713	Automotive Engines & Emission			

Day & Data		MESTER – I	Smar 10.00 a.m. to 1.00 a.m.
Branch	- Wednesday, 06/05/2 Sub-Branch	Sub Code	Yime: 10.00 a.m. to 1.00 p.m. Papers
CIVII	Structure	34343	Adv. Design of Concrete Structure Time:10.00 am to 2.00 p.m.
CIVIL	Construction & Management	34321	Construction Methods
ELECTRICAL	Power System	34338	Modern Power System Analysis & Computer Methods
	Control System	34333	Process Control
BIOCHEMICAL ENGINEERING & BIOTECHNOLOGY	-	42984	Advanced Microbiology & Biochemistry
COMPUTER SCIENCE	-	48762	Design & Analysis of Algorithm
CAD/CAM/CAE	-	48731	Finite Element Analysis

AUTO MOBILE	-	38714	Theory of Elasticity & Reliability
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SEMESTER	-	I

Day &D	SE ate :-Friday, 08/05/20	EMESTER - I 20 Tim	ue: 10.00 a.m. to 1.00 p.m.
Branch	Sub-Branch	Sub Code	Papers
	Structure	34344	Dynamics of Structure Time:10.00 a.m. to 2.00 p.m.
CIVIL	Construction & Management	34322	Construction Equipment
ELECTRICAL	Power System	34339	E.H.V.A.C. Transmission
	Control System	34334	Digital Signal Processing
BIOCHEMICAL ENGINEERING & BIOTECHNOLOGY		42985	Advanced Bioseperation Processes
			Elective – I
COMPUTER		48763	Unix Network Programming
SCIENCE	-	48764	Real Time System
		48765	Data Mining & Warehousing
CAD/CAM/CAE	-	48732	Design of Experiments and Research Methodology
AUTOMOBILE	-	38715	Transmission System Theory & Design
			Elective – I
ELECTRONICS	-	34499	Statistical Communication Theory (up to May, 2020)
		34486	Advanced Network Engineering (up to May, 2020)

SEMESTER-I

Day &Date	<mark>: - Saturday, 09/05</mark> /	Time: 10.00 a.m. to 1.00 p.m.	
Branch	Sub-Branch	Sub Code	Papers
	Structure Elective-I	35983	Design of Foundations Time:10.00 a.m. to 2.00 p.m.
		35984	Advances in Concrete Composites
CIVIL		35985	Structural Optimization
	Construction &	34440	Entrepreneurship in Construction
	Management Elective-I	34323	Human Resources Development in Construction
	Elective-1	35993	Work Study & Incentive Management
		42986	Immunotechnology
BIOCHEMICAL ENGINEERING	Elective-I	42987	Biosensor Technology
BIO-TECHNOLOGY		42988	Environmental Biotechnology
		42989	Animal Biotechnology
		48733	Mechatronic Systems Design
		48734	Technology Management Engineering
	Elective –I	48735	Tribology & Surface Engineering
CAD/CAM/CAE		48736	MEMS & Nanotechnology
		48737	Design & Development of CAD/CAM/CAE Software
		48738	Advanced Materials & processing Forming
	Elective –I	38716	Finite Element Analysis
		38717	Hydraulic & Pneumatic System
AUTOMOBILE		38718	Combustion Engineering
		38719	Vehicle Instrumentation & testing
		38720	Automobile Air Conditioning

SEMESTER-I							
Day &Date	Day &Date Sub-Branch Sub		Time: 10.00 a.m. to 1.00 p.m.				
Monday, 04/05/2020		56210	Advanced Materials and Manufacturing Processes				
Tuesday, 05/05/2020	Mechanical- Production	56211	Design Of Experiments and Research Methodology				
Wednesday, 06/05/2020	Engineering	56212	Metal Forming Technology				
		56216	Facility Planning & Plant Layout				
	Elective-I	56217	Advanced Machine Tool Design				
Friday, 08/05/2020		56218	Mechatronic System Design				
		56219	Advanced Tooling & Die Design				
		56220	Human Resource Management				
		56221	Costing & Cost Control				
	Elective-II	56222	Advanced Fluid Power Engineering				
		56223	Manufacturing System Design				
Saturday,		56224	MEMS & Nanotechnology				
09/05/2020		56225	Supply Chain Management & Logistics				
		56226	Engineering Economics				
		56227	Financial Management				
Only For Student & College Information – Measurements & Instrumentation Lab Subject Code – 56213,							

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

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday,04/05/2020		56250	Applied Machine Design
Tuesday, 05/05/2020	Mechanical- Product Design &	56251	Computer Aided Design and Simulation
Wednesday, 06/05/2020	Development	56252	Design Of Experiments and Research Methodology
	Elective-I	56254	Advanced Material and Processing
Friday,		56255	Industrial Automation
08/05/2020		56256	System Design
		56257	Material Handling Equipment Design
	Elective-II	56258	Dynamic Analysis & Testing Methodology
Saturday,		56259	Reverse Engineering
09/05/2020		56260	Computational Fluid Dynamics
		56261	Design Optimization

SEMESTER – I BRANCH - MECHANICAL New Course from December -2012

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday, 04/05/2020		55589	Mathematical Modeling And Design Optimization
Tuesday, 05/05/2020	Mechanical-	55590	Advanced Mechanics Of Solids
Wednesday, 06/05/2020	Machine Design	55591	Advanced Theory Of Vibrations
	Elective-I	55592	Tribology
Friday, 08/05/2020		55593	Process Equipment Design
F Huay, 00/05/2020		55594	Advanced Finite Element Analysis
		55595	Mechatronics
	Elective-II	55596	Vibration Control and Condition Monitoring
Saturday,		55597	Product Design and Development
09/05/2020		55598	Material Handling Equipment Design
		55599	Robotics

Only For Student & College Information Instrumentation Lab Subject Code - 55600, Seminar – I Subject Code - 55601

New Course from December-2012					
Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.		
Monday, 04/05/2020	Mechanical-Heat	56033	Advanced Fluid Mechanics		
Tuesday, 05/05/2020	Power &	56036	Advanced Heat Transfer		
Wednesday, 06/05/2020	Engineering	56034	Advanced Thermodynamics and Combustion		
		56042	Advanced I.C. engine		
Friday, 08/05/2020	Elective-I	56132	Advanced Refrigeration		
		56133	Advanced Power Plant Engineering		
			Advanced Automobile Engineering		
Saturday, 09/05/2020	Elective-II	56135	Design Of Air Conditioning Systems		
Subur uu,, 07/00/2020		56136	Energy Analysis and Management		

SEMESTER – I BRANCH - MECHANICAL

SEMESTER – I BRANCH – MECHANICAL New Course From DEC – 2012

Day & Data	Sub-Branch	Sub Code			
Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.		
Monday, 04/05/2020		56137	Mathematical Modeling And Design Optimization		
Tuesday, 05/05/2020	Mechanical-Design	56138	Solid Mechanics		
Wednesday, 06/05/2020	Engineering	56139	Advanced Engineering Materials		
		56142	Reliability Engineering		
Friday, 08/05/2020	Elective-I	56143	Process Equipment Design		
		56144	Material Handling Equipment Design		
		56145	Product Design & Development		
		56146	Robotics		
Saturday,	Elective-II	56147	Machine Tool Design		
09/05/2020		56148	Advanced Finite Element Analysis		
		56149	Reverse Engineering		
Only For Student & College Information					
Instrumentation Lab Subject Code – 56140, Seminar-I Subject Code – 56141					

SEMESTER – I BRANCH – ELECTRONICS New Course from December – 2012

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday, 04/05/2020		60742	CMOS VLSI Design – I
Tuesday, 05/05/2020	VLSI and Embedded	60743	Advanced Digital Signal Processing
Wednesday, 06/05/2020	System	60744	Advanced Embedded System
Friday, 08/05/2020		60745	Digital Systems Engineering
Saturday, 09/05/2020	Elective-I	60747	DSP VLSI – I
		60748	System on Chip Architecture – I
		60749	Communication System Design
		60750	Algorithm for VLSI Design Automation

SEMESTER-I New course Branch- Environmental

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday, 04/05/2020	Environmental	66362	Air and Noise Pollution
Tuesday, 05/05/2020		66363	Solid and Hazardous Waste Management
Wednesday, 06/05/2020		66364	Physics Chemical Process for Water and Wastewater
		66366	Industrial Health and Safety Auditing
Friday, 08/05/2020	Elective-I	66367	Optimization Techniques
00,0012020		66368	Project Management
Saturday,			Elective-II
		66369	Energy Management
09/05/2020		66370	Operation and Maintenance of Treatment Plants
		66371	Green Building

SEMESTER – I (New Course) BRANCH – ELECTRONICS & TELECOMMUNICATION

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday, 04/05/2020	Electronics &	66385	Advanced Embedded System
Tuesday, 05/05/2020	Telecommunication	66386	Error Control Coding Techniques
Wednesday, 06/05/2020		66387	Advance Wireless Communication
Friday, 08/05/2020		66388	Random Process
Saturday, 09/05/2020	Elective – I	66391	Mobile Computing
		66392	Digital Data Compression
		66393	Internet Traffic Engineering
		66394	Advanced Antenna Theory

SEMESTER – I Branch - Industrial Engineering (New Course from December,2016)

Day &Date	Sub-Branch	Sub Code	, , ,		
Monday, 04/05/2020		68670	Design of Experiments and Research Methodology		
Tuesday, 05/05/2020	Industrial Engineering	68671	Work Study		
Wednesday, 06/05/2020	0 0	68672	Ergonomics		
		68673	Stochastic Process and Marker Chains		
Friday, 08/05/2020		68674	Manufacturing System Design		
	Elective-I	68675	Probabilistic Rist Assessment		
		68676	Project Engineering and Network Analysis		
		68677	Technology Management		
	Elective-II	68678	Multivariate Statistical Modeling		
		68679	Supply Chain Management		
Saturday, 09/05/2020		68680	Reliability Analysis and Prediction		
Satur day, 07/02/2020		68681	Queuing Theory and Models		
		56226 / 68682	Total Quality Management		
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

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday, 04/05/2020		64209	Advanced Momentum and Heat Transfer
Tuesday, 05/05/2020	CHEMICAL	64210	Advanced Chemical Engineering Thermodynamics
Wednesday, 06/05/2020		64211	Process Modeling in Chemical Engineering
Friday, 08/05/2020		64212	Nanotechnology
	Elective-I	64213	Green Technology
		64214	Pharmaceutical Biotechnology
	Elective-II	64215	Catalysis and Surface Phenomena
Saturday,		64216	Bioprocess Engineering
09/05/2020		64217	Material Engineering
		64218	Process and Equipment Design

SEMESTER - I New Course from – December 2014

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday, 04/05/2020		63931	Advanced Digital Signal processing
Tuesday, 05/05/2020	ELECTRONIC	63932	CMOS VLSI Design
Wednesday, 06/05/2020		63933	Random Signal Processing
		63934	High Performance Communication Network
Friday, 08/05/2020	Elective I	63935	Design of Digital Circuit and Logic Design
		63936	Optimization Techniques
		63937	Advance Communication System
	Elective II	63938	Software Defined Radios
		63939	Image Processing And Application
Saturday, 09/05/2020		63940	Design of VLSI System
Saturuay, 07/05/2020		63941	Robotic and Application
		63942	Wireless Sensor network
		63943	Industrial DC Drives

SEMESTER - I New Course from – December 2014

Day &Date	Sub-Branch	Sub Code	Time: 10.00 a.m. to 1.00 p.m.
Monday, 04/05/2020		63965	Design of Experiments and Research
Wonday, 04/05/2020			Methodology
Tuesday, 05/05/2020	CAD-CAM-	63966	Finite Elements Analysis
Wednesday, 06/05/2020	CAE	63967	Micro Electro-Mechanical System
Friday, 08/05/2020		63968	Computer Aided Manufacturing
	Elective-I	63969	Advanced Design Engineering
Saturday, 09/05/2020		63970	Advanced Tool Design
Satur uay, 09/03/2020		63971	Design of Hydraulic and Phenaulic System
		63972	Mechatronic System Design

SEMESTER – II

Day &Date : - Monday, 04/05/2020 Time: 2.30 p.m. to 5.30 p.m.

Branch	Sub-Branch	Sub Code	Papers
	Structure	34346	Theory of Plates and Shell Time : 2.00 p.m. to 6.00 p.m.
CIVIL	Environment	34448	Air Pollution & Control
	Construction & Management	34324	Const. Techniques
ELECTRICAL	Power System	34515	Power System Planning & Eco.
	Control System	34526	Non-Linear Control System
ELECTRONICS & TELECOMM.	-	43027	RF & Microwave Circuit Design
BIOCHEMICAL ENGINEERING& BIO- TECHNOLOGY	-	43448	Bioreactor Design
COMPUTER SCIENCE	-	48768	Design of Database Systems
CAD/CAM/CAE	-	48742	Manufacturing Systems Design

AUTOMOBILE	-		38722	Engine Design
Day &Date : - Tu	m. to 5.30 p.m.			
Branch	Sub-Branch	Sub Cod	le	Papers
	Structure	34347		Element Method 2.00 p.m. to 6.00 p. m.
CIVIL	Environment	36022	Enviro Assess	onmental Pollution & Impact sment
	Construction & Management	34325	Legal	Aspects in Construction Engg.
ELECTRICAL	Power System	34516	Real T	Time Control of Power System
ELECIKICAL	Control System	34527	Optim	nal Control System
ELECTRONICS & TELECOMM.	-	43028	Wirel	ess Communication
BIOCHEMICAL ENGINEERING & BIO- TECHNOLOGY	-	43449	Advar	nced Enzyme Technology
COMPUTER SCIENCE	-	48769	Netwo	ork Core Protocols & Management
CAD/CAM/CAE	-	48743	Produ	ict Life Cycle Management
AUTOMOBILE	-	38723	Classi	c & Body Engg.

SEMESTER - II

Day &Date : - Wednesday,	06/05/2020	Time: 2.30	p.m. to 5.30 p.m.
Branch	Sub-Branch	Sub Code	Papers
	Structure	34348	Earthquake Engineering Time : 2.00 p.m. to 6.00 p.m.
CIVIL	Environment	34451	Waste Management Techniques
	Construction & Management	34326	Management Information System for Construction Management
ELECTRICAL	Power System	34517	H.V.D.C. Transmission
ELECTRICAL	Control System	34528	Digital Control System
ELECTRONICS & TELECOMM.	-	43029	Adaptive Signal Processing
BIOCHEMICAL ENGINEERING & BIO – TECHNOLOGY	-	43450	Advanced Food Technology
COMPUTER SCIENCE	-	48770	Parallel Algorithms & Design
CAD/CAM/CAE	-	48744	Ind. Automation & Robotics
AUTOMOBILE	-	38724	Vehicle Dynamics

SEMESTER – II

Time: 2.30 p.m. to 5.30 p.m.

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Branch	Sub-Branch	Sub Code	Papers	
	Structure	34349	Advanced Design of Steel Structure Time 2.00 p.m. to 6.00 p. m.	
CIVIL	Environment	36023	Environmental Policy Laws & Economic	
	Construction & Management	34327	Computational Methods & Optimization Techniques	
		34518	Elective-I : H.V. Engg.	
	Deserve Courterer	34519	Power Controllers.	
	Power System	36015	Power System Instrumentation	
		34520	Fuzzy Logic & Artificial Neural Network	
ELECTRICAL		34529	Elective-I : Micro-Controllers & Applications	
		34530	Optimization Techniques	
	Control System	34531	Identification & Estimation	
		34532	Adaptive Control Systems	
		36051	Multivariable Control System	

Day &Date :- Friday, 08/05/2020

05/2020

		36052	Robust Control
		43030	Multi Rate Systems & Filter
ELECTRONICS & TELECOMM.	Elective-II	43031	Cryptography & Network Security
		43032	Speech & Audio Processing
BIOCHEMICAL ENGINEERING & BIO-TECHNOLOGY	-	43451	Advanced Genetic Engineering
		48771	Artificial Neural Network & Genetic algorithms
COMPUTER SCIENCE	Elective – II	48772	Operating System Design & Evaluation
SCIENCE		48773	Multicore Architecture & Programming
CAD/CAM/CAE	-	48745	Optimization Techniques
AUTOMOBILE	-	38725	Noise & Vibration
ELECTRONICS	Elective – II	34506	Mobile Communication Engineering (up to May, 2020)
		34509	Broadband Communication (up to May, 2020)

SEMESTER-II

SEMESTER-II Day &Date : - Saturday, 09/05/2020 Time: 2.30 p.m. to 5.30 p.m.					
Branch	Sub-Branch	Sub Code	Papers		
Diancii	Sub-Di alicii	Sub Code	Elective-II : Stability of Structure		
		35986	Time : 2.00 p.m. to 6.00 p. m.		
	Structure	35987	Design of R. C. C. Bridge		
	Structure	33987	Structural Reliability		
			-		
		35988	Design of Folded Plates and Shells		
CIVIL	T • (36024	Elective-II : Environmental Quality Management		
	Environment	2(025			
		36025	Remote Sensing & GIS Applications in		
	<u> </u>	25005	Environmental Engineering		
	Construction	35995	Elective-II : Advanced Construction		
	&	35996	Appropriate Technology		
	Management	35997	Environmental Impact Assessment		
	D	34521	Elective-II : Adv. Microprocessor of Techniques		
	Power		for Power System		
	System	34522	Electric Power Quality & Harmonics		
		36016	Artificial Intelligence & Expert Systems		
		34533	Elective-II : Fuzzy & Neural Control		
ELECTRICAL		36053	Applied Optimal Control		
	Control System	36054	Stochastic Control		
		36055	Real Time Computer Control		
		36056	Software Applications to Control System		
		36057	Robotics		
		43033	Elective-III : Mobile Computing		
ELECTRONICS &	TELECOMM.	43034	Stochastic Models & Queuing Theory		
		43035	Communication System Design		
		43036	Optical Networks		
		43452	Elective-II : Planet Biotechnology		
BIOCHEMICAL E	NGINEERING	43453	Pharmaceutical Biotechnology		
& BIO-TECH	NOLOGY	43454	Advanced protein Engineering		
		43455	Advanced Bioinformatics		
		48746	Elective- II : Computational Fluid Dynamics		
		48747	Quality & Reliability Engineering		
		48748	System Dynamics & Simulation		
CAD/CAN	I/CAE	48749	Artificial Intelligence		
		48750	Automatic Control Engineering		
			CAD/CAM/CAE Practices in Metal Forming		
		48751 48752	Rapid Prototyping		
		38726	Elective – II : Computational Fluid Dynamics		
		38727	Human Resource Development		
AUTOMO	BILE	38728	Advanced Automotive Electronics		
		38729	Automotive Maintenance & Management		
		38730	Tribology		
COMPUTER	SCIENCE				
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SEMESTER – IIBRANCH – MECHANICALNew Course From May, 2013Time: 2.30 p.m. to 5.30 p.m.

Branch	Sub-Branch	Sub Code	Papers	
Monday, 04/05/2020		55602	Advanced Material Science	
Tuesday, 05/05/2020	Mechanical-Machine Design	55603	Advanced Machine Design	
Wednesday, 06/05/2020	Design	55604	Mechanics Of Machinery	
		55605	Experimental Stress Analysis	
T · 1 00/0 <i>F/</i> 2020	Elective-III	55606	Composite Materials	
Friday, 08/05/2020		55607	Advanced Machine Tool Design	
		55608	Open Elective	
		55609	Noise & Vibration Harshness (NVH)	
S-4 00/05/2020	Elective-IV	55610	Vehicle Dynamics	
Saturday, 09/05/2020		55611	Engineering Fracture Mechanics	
		55612	Reliability Engineering	
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 : 2.30 p.m. to 5.30 p.m.

Branch	Sub-Branch	Sub Code	Papers
Monday, 04/05/2020		56043	Numerical Computation of Fluid & Heat Flow
Tuesday, 05/05/2020	Mechanical-Heat Power & Engineering	56044	Energy Analysis of Thermal System
Wednesday, 06/05/2020		56045	Design Of Heat Transfer Equipment's
Friday,		56049	Design Of Renewable Energy Equipment's & System
08/05/2020	Elective-III	56050	Cryogenics
		56053	Open Elective
		56051	Gas Turbines & Jet Propulsion
Saturday, 09/05/2020	Elective-IV	56052	Advanced Mathematical Methods & Optimization
	Encury C-1 V	56054	Design of pumps, Compressors & Blowers

SEMESTER – II BRANCH – MECHANICAL

New Course from May, 2013

Time: 2.30 p.m. to 5.30 p.m.

Branch	Sub-Branch	Sub Code	Papers
Monday, 04/05/2020		56150	Advanced Theory Of Vibrations
Tuesday, 05/05/2020	Mechanical-Design Engineering	56151	Advanced Design Engineering
Wednesday, 06/05/2020		56152	Analysis and Synthesis of Mechanisms
	Elective-III	56158	Design for Sustainability & Life Cycle Cost
Friday, 08/05/2020		56159	Tribology
		56160	Open Elective
		56157	Experimental Stress Analysis
		56161	Noise And Vibration Harshness (NVH)
Saturday 00/05/2020	Elective-IV	56162	Vehicle Dynamics
Saturday, 09/05/2020		56163	Engineering Fracture Mechanics
		56164	Design for Manufacture & Assembly
Only For Student & Co	llege Information : C	omputer Ai	ded Analysis Lab – 56153 T/W & Ext.,

Seminar – II 56154 T/W, Comprehensive Viva 56155, Industrial Training 56156

Branch	Sub-Branch	Sub Code	Papers
	Sub-Dranch		-
Monday, 04/05/2020	Mechanical-	56228	Optimization Techniques
Tuesday, 05/05/2020	Production	56229	Advanced Casting Technology
Wednesday, 06/05/2020	Engineering	56230	Production & Operations Management
		56235	Fabrication Engg. Welding Technology
		56236	Entrepreneurship Development
Friday, 08/05/2020	Elective-III	56237	Precision Manufacturing
		56238	Reliability Engineering
		56239	World Class Manufacturing
		56240	Total Quality Management
		56241	Plastics Processing & Die Design
Saturday, 09/05/2020	Elective-IV	56242	Automatic Control Engineering
		56243	Enterprise Resource Planning
		56244	Industrial Automation & Robotics
		56245	Project Management
		56246	Open Elective

SEMESTER – II BRANCH – MECHANICAL

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 NewCourse from May, 2013 Time: 2.30 p.m. to 5.30 p.m.				
Branch	Sub-Branch	Sub Code	Papers	
Monday, 04/05/2020		56262	Manufacturing System Design	
Tuesday, 05/05/2020	Mechanical- Product Design	56263	Creativity, Innovation & New ProductDevelopment	
Wednesday, 06/05/2020	& Development	56264	Product Life Cycle Management	
		56267	Experimental Stress Analysis	
E		56268	Reliability Engineering	
Friday, 08/05/2020	Elective-III	56269	Industrial Robotics & Expert System	
		56270	Open Elective	
		56271	Rapid Prototyping	
Saturday,		56272	Engineering Optimization In Design	
09/05/2020	Elective-IV	56273	Al.& Neural Network	
		56274	TQM & Six Sigma	

SEMESTER II BRANCH – VLSI AND EMBEDDED SYSTEM urse from – May 2014 Time: 2.30 p.m. to 5.30

BRANCH – VLSI AND EMBEDDED SYSTEM				
New Course from – May 2014 Time: 2.30 p.m. to 5.30 p.m.				
Day & Date	Sub-Branch	Sub Code	Papers	
Monday, 04/05/2020		60751	CMOS VLSI DESIGN –II	
Tuesday, 05/05/2020	VLSI &	60752	Analog & Mixed signal Design	
Wednesday, 06/05/2020	EMBEDDED SYSTEM	60753	Embedded Software Design	
Friday, 08/05/2020		60754	Testing & Text ability	
	Elective-II	60756	DSP VLSI – II	
Saturday, 09/05/2020 Elective-II		60757	Automotive Embedded System	
		60758	Low Power VLSI design	
	60759	System on chip Architecture –II		

New Course from May- 2015		Tim	e: 2.30 p.m. to 5.30 p.m.
Day & Date	Sub-Branch	Sub Code	Papers
Monday, 04/05/2020		64221	Advanced Mass Transfer System
Tuesday, 05/05/2020		64222	Modern Reaction Engineering
Wednesday,06/05/2020	CHEMICAL	64223	Chemical Process Control
		64224	Computational Fluid Dynamics
Friday, 08/05/2020	20 Elective-III	64225	Energy Engineering
Fillay, 00/05/2020		64226	Research Methodology
		64227	Project Management
Saturday, 09/05/2020	Elective IV	64228	Modern Separation Process
• •		64229	Down Stream Processing
		64230	Operation Research

SEMESTER II

SEMESTER II May 2015Time: 2.30 n.m. to 5.30 p.m New Course from

New Course from – May 2015Time: 2.30 p.m. to 5.30 p.m.				
Day & Date	Sub-Branch	Sub Code	Papers	
Monday, 04/05/2020		63946	Real Time Embedded System Design	
Tuesday, 05/05/2020	ELECTRONIC	63947	Advanced Process Control	
Wednesday,		63948	Power Electronics System	
06/05/2020				
		63949	Design and Analysis or Algorithms	
		63950	Design of Analog and Mixed Mode VLSI	
			Circuits	
Friday, 08/05/2020	Elective-III	63951	Artificial Neural Networks	
		63952	Cryptography and Network Security	
		64059	Cognitive Radio Communication and	
			Network	
		63954	Fuzzy System	
Saturday, 09/05/2020	Elective-IV	63955	VLSI in Digital Signal Processing	
		63956	RF & Microwave Circuits	
		63957	Renewable & Distributed Energy System	
		63958	Advanced Computer Architecture	

SEMESTER II

New Course from – December 2014 Time: 2.30 p.m. to 5.30 p.m.				
Day & Date	Sub-Branch	Sub Code	Papers	
Monday, 04/05/2020		63976	Product Life Cycle Management	
Tuesday, 05/05/2020		63977	Advanced Mechanics or Materials	
Wednesday,06/05/2020	CAD-CAM	63978	Automation & Robotics	
Friday, 08/05/2020		63979	Design Optimization Techniques	
		63980	Nano Technology	
S-4 1 00/05/2020		63981	Industrial Product Design	
Saturday, 09/05/2020 Elective-II	63982	Computational Fluid Dynamics		
		63983	Reliability Engineering	

Semester-II New Course

Br. Environmental

Time : 2.30 p.m. to 5.30 p.m.

Day & Date	Sub-Branch	Sub Code	Papers
Monday, 04/05/2020		66372	Industrial Waste Treatment
Tuesday, 05/05/2020	Environmental	66373	Biological Waste Water Treatment
Wednesday,		66374	Environmental Impact Assessment and
06/05/2020			Legislation
Friday, 08/05/2020	Elective-III	66376	Remote Sensing and GIS
		66377	Watershed Management
		66378	Environmental Modeling and Simulation
Saturday, 09/05/2020	Elective IV	66379	Environmental Management System
		66380	Disaster Planning and Risk Analysis
		66381	Environmental Geo technology

SEMESTER-II Branch - Electronics & Telecommunication Time : 2.30 p.m. to 5.30 p.m.

Day & Date	Sub-Branch	Sub Code	Papers
Monday, 04/05/2020	Electronics	66395	Advance Microwave Circuit Design
Tuesday, 05/05/2020	And Tele-	66396	Adhoc and Wireless Sensor Network
Wednesday,06/05/2020	communication	66397	Computer Vision
	Elective-II	66400	1-Cryolography and Network Security
Friday, 08/05/2020		66401	2.Multi Rate System
		66402	3.SDRand cognitive Radio Technology
		66403	4.DSP architecture and Algorithm
Saturday, 09/05/2020	Elective-III	66404	Advanced Operating Systems
		66405	Optimization Techniques
		66406	Industry Automation and Process Control
		66407	Nanotechnology

SEMESTER-II

Branch - Industrial Engineering		Time : 2.30 p.m. to 5.30 p.m.	
Day & Date	Sub-Branch	Sub Code	Papers
Monday, 04/05/2020	Industrial	68686	Optimization Techniques
Tuesday, 05/05/2020	Engineering	68687	Human Factors Engineering
Wednesday, 06/05/2020		68688	Production Planning and Inventory Control
Friday, 08/05/2020	Elective-III	68689	1-Quality Engineering
		68690	2.Facility Layout and Design
		68691	3. Maintenance Engineering
		68692	4. Scheduling Algorithms
		68693	5. Productivity Management
Saturday, 09/05/2020	Elective-IV	68694	Multivariate Statistical Modeling
		68695	Logistics Management
		68696	Industrial Safety Engineering
		68697	Industrial Product Design
		68698	World Class Manufacturing

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.