JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA
M.TECH I SEMESTER (R16) SUPPLEMENTARY EXAMINATIONS –FEBRUARY, 2020
(2016, 2017 & 2018 ADMITTED BATCHES)
T I M E   T A B L E

TIME: 10:00 AM TO 01:00 PM

BRANCH & SPECIALIZATION	03.02.2020 (Monday)	05.02.2020 (Wednesday)	07.02.2020 (Friday)	10.02.2020 (Monday)	12.02.2020 (Wednesday)	14.02.2020 (Friday)	17.02.2020 (Monday)	19.02.2020 (Wednesday)	22.02.2020 (Saturday)	24.02.2020 (Monday)
Civil Transportation Engineering **(22)**	Advanced Mathematics **(I2201)**	Pavement Analysis Design and Evaluation **(I2202)**	Traffic Engineering **(I2203)**	Urban Transportation Planning **(I2204)**	**Elective-I** Project Management **(I2206)**	**Elective-II** GIS for Transportation **(I2207)** **Elective-II** Pavement Management System **(I2208)**	**Elective-I** Bridge Engineering **(I2205)**	-----	-----	
Civil Structural Engineering/Structural Design **(85/87)**	Advanced Mathematics **(I2201)**	Matrix Analysis of Structures **(I8702)**	Structural Dynamics **(I8703)**	Theory of Elasticity **(I8701)**	**Elective-I** Experimental Stress Analysis **(I8704)** **Elective-I** Sub-Structure Design **(I8705)** **Elective-I** Structural Optimization **(I8706)**	**Elective-II** Repair and Rehabilitation of Structures **(I8707)** **Elective-II** Analysis and Design of Tall Buildings **(I8708)** **Elective-II** Plastic Analysis and Design **(I8709)**	**----**	----	----	

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Civil **Soil Mechanics & Foundation Engineering / Geo-Technical Engineering (19)/(20)**	Advanced Mathematics **(I2201)**	Advanced Soil Mechanics **(I1901)**	Foundation Engineering - I **(I1902)**	Ground Improvement Techniques **(I1903)**	**Elective-I** Designing with Geosynthetics **(I1904)** **Elective-I** Soil-Foundation Interaction. **(I1905)** **Elective-I** Critical State Soil Mechanics **(I1906)**	**Elective-II** Earth Dams **(I1907)** **Elective-II** Rock Mechanics **(I1908)** **Elective-II** Remote Sensing and Geographical Information Systems **(I1909)**	**----**	----	----	----
Civil **Computer Aided Structural Engineering** **(35)**	Advanced Mathematics **(I2201)**	Matrix Analysis of Structures **(I8702)**	----	Theory of Elasticity **(I8701)**	**Elective – I** Experimental Stress Analysis **(I8704)** **Elective – I** Optimization in Structural Design **(I3503)** **Elective – I** Structural Health Monitoring **(I3505)**	**Elective – II** Modeling, Simulation & Computer Applications **(I3506)** **Elective – II** Prestressed Concrete Structures **(I3507)** **Elective – II** Stability of Structures **(I3508)**	C++ and Data Structures **(I3502)**	----	----	----

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Civil **Geoinformatics** **(74)**	Geo-Informatics Tools & Techniques **(I7401)**	Principles of Remote Sensing **(I7402)**	Principles of Geographical Information Systems **(I7403)**	Earth Systems **(I7404)**	Object Oriented Programming Through JAVA **(I7405)**	**Elective-I** Data Base Management Systems **(I7406)** **Elective-I** Principles of Geo-Data Base **(I7407)** **Elective-I** Web Technologies **(I7408)**	----	----	----	----
Civil **Highway Engineering** **(23)**	Highway Infrastructure Engineering **(I2301)**	Pavement Material Characterization **(I2304)**	Traffic Engineering **(I2303)**	Urban Transportation Planning **(I2302)**	**Elective – I** Applied Statistics **(I2305)** **Elective – I** Project Management **(I2206)** **Elective – I** Bridge Engineering **(I2306)**	**Elective – II** Remote Sensing & Global Positioning System **(I2307)** **Elective – II** Engineering of Ground **(I2308)** **Elective – II** Concrete Technology **(I2309)**	----	----	----	----

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CSE Software Engineering (25)	Software Metrics and Reuse (**I2502**)	Web Technologies (**I2504**)	----	Scripting Languages (**I2506**)	Software Project and Process Management (**I2503**)	Software Requirements and Estimation (**I2501**)	----	Big Data Analytics (**I2505**)	----	----
CSE Information Technology (40)	Advanced Data Structures (**I4001**)	Web Technologies (**I2504**)	Parallel Algorithms (**I4003**)	Data Mining and Knowledge Discovery (**I4004**)	Advanced Computer Networks (**I4005**)	Advanced Graph Theory (**I4002**)	----	----	----	----
CSE Computer Science (05)	Advanced Data Structures (**I4001**)	Formal Languages and Automata Theory (**I0501**)	Computer Organization (**I0502**)	Database Internals (**I0503**)	---	Data Warehousing and Data mining (**I0505**)	Advanced Operating System (**I0504**)	----	----	----

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CSE Computer Networks & Information Security (84)	----	Web Technologies **(I2504)**	Network Management Concepts and Practices **(I8402)**	ADHOC and Sensor Networks **(I8403)**	Cyber Security **(I8401)**	Network Programming **(I8404)**	Mobile Computing **(I8405)**	----	----	---
CSE Computer Science & Technology (59)	Advanced Data Structures **(I4001)**	Web Technologies **(I2504)**	Parallel Algorithms **(I4003)**	Data Mining and Knowledge Discovery **(I4004)**	Cyber Security **(I8401)**	Distributed Systems **(I5901)**	----	----	----	---
CSE Computer Science & Engineering (58)	Advanced Data Structures and Algorithm Analysis **(I4001)**	Mathematical Foundations of Computer Science **(I5801)**	Computer Organization and Architecture **(I5802)**	Data Base Management Systems **(I5803)**	---	Data Warehousing and Data mining **(I0505)**	Advanced Operating System **(I0504)**	----	----	---
CSE Neural Networks (69)	Artificial Intelligence **(I6901)**	Web Technologies **(I2504)**	Computational Intelligence **(I6904)**	Natural Language Processing **(I6903)**	Cyber Security **(I8401)**	Data warehousing and Data Mining **(I0505)**	----	----	----	---

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Mechanical **Thermal Engineering (21)**	----	Advanced Thermodynamics **(I2102)**	Advanced Heat & Mass Transfer **(I2103)**	Advanced Fluid Mechanics **(I2104)**	**Elective-II** Advanced IC Engines **(I2109)** **Elective-II** Solar Energy Technology **(I2110)** **Elective-II** Turbo Machines **(I2111)**	**Elective-I** Refrigeration & Cryogenics **(I2106)** **Elective-I** Renewable Energy Technologies **(I2107)** **Elective-I** Theory and Technologies of Fuel Cells **(I2108)** **Elective-I** GAS Dynamics **(I2105)**	Optimization Techniques & Applications **(I2101)**	**Elective-II** Alternative Fuels Technologies **(I2112)**	----	---
Mechanical **Thermal Sciences and Energy Systems (18)**	**Elective – II** Design of Heat Transfer Equipment **(I1807)** **Elective – II** Combustion in IC Engines **(I1808)** **Elective – II** Advanced Finite Element Methods **(I1810)**	Advanced Thermodynamics **(I1802)**	Advanced Heat Transfer **(I2103)**	Advanced Fluid Mechanics **(I2104)**	Computational Methods in Engineering **(I1801)**	**Elective – I** Refrigeration & Cryogenics **(I2106)** **Elective – I** Thermal & Nuclear Power Plants **(I1805)** **Elective – I** Gas Tirmomes & Jet Propulsion **(I1806)**	**Elective – I** Computational Fluid Dynamics **(I1803)** **Elective – II** Nano Technology **(I1809)**	----	----	---

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Mechanical **Machine Design/Mechanical Engineering Design** **(15)/(14)**	**Elective-I** Design of Automobile Systems **(I1504)**	Advanced Mechanics of Solids **(I1501)**	Advanced Mechanisms **(I1502)**	**Elective-I** Geometric Modeling **(I1506)**	Computational Methods in Engineering **(I1801)**	**Elective-II** Fracture Mechanics **(I1508)** **Elective-II** Gear Engineering **(I1509)** **Elective-II** Continuum Mechanics **(I1511)**	Mechanical Vibrations **(I1503)**	**Elective-II** Design for Manufacturing & Assembly **(I1510)**	**Elective-I** Product Design **(I1505)** **Elective-I** Non Destructive Evaluation **(I1507)**	---
Mechanical **CAD/CAM** **(04)**	Industrial Robotics **(I0401)**	**Elective-II** Mechatronics **(I0405)**	Special Manufacturing Processes **(I0403)**	Geometric Modeling **(I1506)**	**Elective-I** Computational Methods In Engineering **(I1801)**	**Elective-II** Computer Aided Process Planning **(I0406)**	**Elective-I** Mechanical Vibrations **(I1503)** **Elective-I** Nano Technology **(I1809)**	**Elective-II** Design for Manufacturing and Assembly **(I1510)**	Computer Aided Manufacturing **(I0402)**	---

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Mechanical **Advanced Manufacturing Systems** **(17)**	**Elective-I** Industrial Robotics **(I0401)**	**Elective-II** Advanced CAD **(I1704)** **Elective-II** Mechatronics **(I0405)**	Special Manufacturing Processes **(I0403)**	Advanced in CNC Technologies **(I1702)**	**Elective-I** Total Quality Management **(I1703)**	**Elective-II** Precision Engineering **(I1705)**	Automation in Manufacturing **(I1701)**	Design for Manufacturing and Assembly **(I1510)**	**Elective-I** Product Design **(I1505)**	---
Computer Aided Design & Manufacturing **(09)**	Industrial Robotics **(I0401)**	**Elective-II** Mechatronics **(I0405)**	Special Manufacturing Processes **(I0403)**	Geometric Modeling **(I1506)**	**Elective-I** Computational Methods In Engineering **(I1801)** **Elective-I** Total Quality Management **(I1703)**	**Elective-II** Computer Aided Process Planning **(I0406)** **Elective-II** Precision Engineering **(I1705)**	**Elective-I** Mechanical Vibrations **(I1503)** **Elective-I** Nano Technology **(I1809)**	**Elective-II** Design for Manufacturing and Assembly **(I1510)**	Computer Aided Manufacturing **(I0402)**	---

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Mechanical **Advanced Manufacturing and Mechanical System Design (13)**	**Elective – I** Industrial Robotics **(I0401)** **Elective – I** Mechanics of Composites **(I1303)**	**Elective – II** Advanced CAD **(I1704)** Mechatronics **(I0405)** Quality Engineering in Manufacturing **(I1304)**	----	Advanced in CNC Technologies **(I1702)**	**Elective – I** Total Quality Management **(I1703)**	Interactive Computer Graphics & Design **(I1302)**	Optimization Techniques & Applications **(I2101)**	Production Automation & CIM **(I1301)**	**----**	---
Mechanical Computer Aided Analysis & Design (16)	Advanced Finite Element Analysis **(I1601)**	Advanced Mechanics of Solids **(I1501)**	Advanced Mechanisms **(I1502)**	**Elective-I** Geometric Modeling **(I1506)**	Computational Methods In Engineering **(I1801)**	**Elective-II** Material Technology **(I1603)**	**Elective-II** Nano Technology **(I1809)** **Elective-I** Mechanical Vibrations **(I1503)**	**Elective-II** Non Destructive Evaluation **(I1507)**	**Elective-I** Product Design **(I1505)**	---

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Petroleum Engineering **(08)**	Advanced Numerical Methods and Applied Statistics **(I0801)**	PE Stream: Offshore Drilling **(I0802)**	Non-PE Stream: A Fundamentals of Petroleum Geology & Reservoir Engineering **(I0803)**	PE Stream: Reservoir Stimulation **(I0804)**	Non-PE Stream: Petroleum Drilling & Production Engineering **(I0805)**	Transportation of Oil and Gas **(I0806)**	Advanced EOR Techniques **(I0807)**	Project Management **(I0808)**	---	---

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ECE VLSI&EMBEDED SYSTEMS/ EMBEDED SYSTEMS & VLSI /VLSID&ES/ES&VLSID (68,48,77,81)	VLSI Technology and Design (I6802)	CMOS Analog IC Design (I6803)	**Elective-I** Embedded - C (I6805) **Elective-I** CMOS Digital IC Design (I6806)	**Elective-II** Network Security and Cryptography (I6811)	Digital System Design (I6801)	**Elective-II** System on Chip Design (I6810)	**Elective-II** Advanced Operating Systems (I6809)	Hardware Software Co-Design (I6804)	**Elective-I** Cyber Security (I6808) **Elective-I** Soft Computing Techniques (I6807)	----
ECE VLSI/ VLSI Design/ VLSI System Design/ VLSI & Micro Electronics (57,72,61,76)	VLSI Technology and Design (I6802)	CMOS Analog IC Design (I6803)	CMOS Digital IC Design (I6806)	----	Digital System Design (I6801)	**Elective-II** CPLD and FPGA Architectures and Applications (I5702)	**Elective-I** Advanced Operating Systems (I6809) **Elective-I** Digital Design using HDL (I5701)	**Elective-II** Advanced Computer Architecture (I5703) **Elective-II** Hardware Software Co-Design (I6804)	**Elective-I** Cyber Security (I6808) **Elective-I** Soft Computing Techniques (I6807)	----

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ECE **Systems & Signal Processing/ Digital Image Processing/ Communication Engineering & Signal Processing/C&SP/IP** **(45,63,46,80,10)**	Coding Theory and Applications **(I4501)**	Digital Data Communications **(I4504)**	Advanced Digital Signal Processing **(I4503)**	**Elective-I** Network Security and Cryptography **(I6811)** **Elective-I** Statistical Signal Processing **(I4505)** **Elective-I** Pattern Recognition Principles **(I4506)**	**Elective-II** Speech Processing **(I4507)**	----	**Elective-II** Object Oriented Programming **(I4508)**	Transform Techniques **(I4502)**	**Elective-II** Cyber Security **(I6808)** **Elective-II** Soft Computing Techniques **(I6807)**	----
ECE **MICROWAVE AND COMMUNICATION ENGINEERING** **(82)**	Microwave Solid State Devices **(I8203)**	Digital Data Communications **(I4504)**	**Elective-I** Advanced Digital Signal Processing **(I4503)** **Elective-I** Microwave Integrated Circuits **(I8204)**	**Elective-II** Statistical Signal Processing **(I4505)**	Advanced Electro Magnetic Theory **(I8201)**	Microwave Components & Measurements **(I8202)**	**Elective-I** Detection and Estimation Theory **(I8205)**	----	**Elective-II** Cyber Security **(I6808)** **Elective-II** Soft Computing Techniques **(I6807)**	**Elective-II** Optical Communication Technology **(I8206)**
ECE **Embedded Systems** **(55)**	----	Embedded System Design **(I5501)**	Embedded - C **(I6805)**	**Elective-I** Sensors and Actuators **(I5503)** **Elective-I** Network Security and Cryptography **(I6811)**	Digital System Design **(I6801)**	Embedded Real Time Operating Systems **(I5502)**	**Elective-II** Advanced Operating Systems **(I6809)** **Elective-II** Embedded Computing **(I5504)**	Advanced Computer Architecture **(I5703)**	**Elective-II** Cyber Security **(I6808)** **Elective-II** Soft Computing Techniques **(I6807)**	----

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ECE **Digital Systems & Computer Electronics (DSCE)** **(06)**	VLSI Technology and Design **(I6802)**	Digital Data Communications **(I4504)**	**Elective-I** Wireless Communications and Networks **(I0602)**	**Elective-II** Network Security and Cryptography **(I6811)**	Digital System Design **(I0601)**	**Elective-II** Image and Video Processing **(I0605)** **Elective-II** Software Defined Radio **(I0604)**	**Elective-I** Internet Protocols **(I0603)** **Elective-I** Digital Design using HDL **(I5701)**	Advanced Computer Architecture **(I5703)**	----	----
ECE **Digital Electronics & Communication Engineering/Digital Electronics And Communication Systems/ Electronics & Communication Engineering** **(37,38,70)**	**Elective-I** VLSI Technology and Design **(I6802)**	Digital Data Communications **(I4504)**	Advanced Digital Signal Processing **(I4503)**	**Elective-II** Network Security and Cryptography **(I6811)** **Elective-II** Statistical Signal Processing **(I4505)**	Digital System Design **(I6801)**	----	Detection and Estimation Theory **(I8205)**	**Elective-I** Transform Techniques **(I4502)** **Elective-I** Radar Signal Processing **(I3802)**	----	**Elective-II** Optical Communication Technology **(I8206)**
ECE **Communication Systems** **(47)**	----	Digital Data Communications **(I4504)**	Advanced Digital Signal Processing **(I4503)**	**Elective-II** Network Security and Cryptography **(I6811)**	---	**Elective-II** Wireless LANs & PANS **(I4702)** **Elective-II** Mobile Computing Technologies **(I4703)**	Detection & Estimation Theory **(I8205)**	**Elective-I** Radar Signal Processing **(I3802)** **Elective-I** RF Circuit Design **(I8207)**	**Elective-I** Advanced Computer Networks **(I4701)**	Optical Communication Technology **(I8206)**

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ECE C&CE , C&C (49,39)	**Elective-I** Data Base Management Systems **(I4901)**	Digital Data Communications **(I4504)**	Wireless Communications and Networks **(I0602)**	**Elective-I** Information Theory and Coding Techniques **(I4902)**	Digital System Design **(I6801)**	**Elective-II** Image and Video Processing **(I0605)**	**Elective-II** Object Oriented Programming **(I4508)** **Elective-II** Internet Protocols **(I0603)**	Advanced Computer Architecture **(I5703)**	**Elective-I** Big Data Analytics **(I4904)**	----
ECE INSTRUMENTATION AND CONTROL SYSTEMS (27)	**Elective-II** VLSI Technology and Design **(I6802)**	Digital Control Systems **(I2702)**	**Elective-II** Advanced Digital Signal Processing **(I4503)**	**Elective-II** Fuzzy Based Control Systems **(I2704)**	Digital System Design **(I6801)**	Fiber Optic Sensors and Devices **(I2706)**	**Elective-I** Object Oriented Programming **(I4508)** **Elective-I** Adaptive Control Systems **(I2703)**	Transducers and Sensors **(I2701)**	**Elective-I** Cyber Security **(I6808)** **Elective-I** Soft Computing Techniques **(I6807)**	----

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EEE **Power Systems/ Power System Control and Automation/ Electrical Power Engineering/Electrical Power Systems/Power System Engineering/PS &C/Advanced Power System (50)** **(56,53,60,65,30,31)**	**Elective-I** Analysis of Power Electronics Converters **(I5607)**	**Elective-II** Advanced Digital Signal Processing **(I5611)** **Elective-II** Power System Security **(I5610)** **Elective-II** Programmable Logic Controllers & Applications **(I5613)**	Reactive Power Compensation & Management **(I5604)**	Power System Operation and Control **(I5603)**	**Elective-I** Electrical Distribution Systems **(I5605)** **Elective-I** EHVAC Transmission **(I5606)** **Elective-I** Renewable Energy Systems **(I5608)**	Microprocessors & Microcontrollers **(I5601)**	HVDC Transmission **(I5602)**	**Elective-II** Generation & Measurement of High Voltages **(I5612)** **Elective-II** Modern Control Theory **(I5614)**	**Elective-I** Artificial Intelligence Techniques **(I5609)**	----
EEE **Power Electronics/ Power and Industrial Drives/ Power Electronics and Electrical Drives/ Power Electronics and Drives/ Electrical Machines and Drives/Power Electronics & Systems** **(43,42,54,52,44,12)**	Analysis of Power Electronic Converters **(I4302)**	Electrical Machine Modeling & Analysis **(I4301)**	Power Electronic Control of DC Drives **(I4303)**	Flexible AC Transmission Systems **(I4304)**	**Elective-I** Power Quality **(I4305)**	**Elective-I** Optimization Techniques **(I4306)**	**Elective-II** HVDC Transmission **(I5602)** **Elective-II** Energy Auditing, Conservation and Management **(I4307)**	**Elective-I** Modern Control Theory **(I5614)**	**Elective-II** Artificial Intelligence Techniques **(I4308)**	----

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EEE **Power Electronics & Power Systems** **(99)**	Analysis of Power Electronic Converters **(I4302)**	Digital Controllers **(I9901)**	Reactive Power Compensation & Management **(I5604)**	----	**Elective-I** Renewable Energy Systems **(I5608)** **Elective-II** Power Quality **(I4305)**	**Elective-II** Optimization Techniques **(I4306)** **Elective-II** Power Semiconductor Devices & Protection **(I9902)**	HVDC Transmission **(I5602)**	**Elective-I** Modern Control Theory **(I5614)**	**Elective-I** Artificial Intelligence Techniques **(I4308)**	----
EEE **High Voltage Engineering/ Power Systems with Emphasis on High Voltage Engineering (62,29)**	Dielectric and Insulation Engineering **(I6201)**	**Elective-I** Advanced Digital Signal Processing **(I5611)**	----	Power System Operation and Control **(I5603)**	**Elective-I** Smart Grid Technologies **(I6202)** **Elective-I** Breakdown Phenomenon in Electrical Insulation **(I6203)**	**Elective-II** High Voltage Power Apparatus & Diagnostics **(I6204)** **Elective-II** Collision Phenomena in Plasma Science **(I6205)** **Elective-II** Advanced EM Fields **(I6206)**	HVDC Transmission **(I5602)**	Generation & Measurement of High Voltages **(I5612)**	**Elective-I** Artificial Intelligence Techniques **(I5609)**	----

BRANCH & SPECIALIZATION	03.02.2020 (Monday)	05.02.2020 (Wednesday)	07.02.2020 (Friday)	10.02.2020 (Monday)	12.02.2020 (Wednesday)	14.02.2020 (Friday)	17.02.2020 (Monday)	19.02.2020 (Wednesday)	22.02.2020 (Saturday)	24.02.2020 (Monday)
EEE **Control Systems/Control Engineering** **(95,28)**	Advanced Control Theory **(I9501)**	Advanced Digital Control Systems **(I9502)**	Stochastic Estimation and Control **(I9503)**	System and Parameter Identification **(I9504)**	**Elective-I** Computer Controlled Systems **(I9505)** **Elective-I** Control of Special Machines **(I9506)**	**Elective-II** Micro Controller & Applications **(I9507)** **Elective-II** Process Control and Automation **(I9508)**	----	----	----	----
EEE High Voltage Power Systems Engineering **(64)**	Dielectric and Insulation Engineering **(I6201)**	Advanced Digital Technologies **(I5611)**	----	Power System Operation and control **(I5603)**	**Elective-I** Smart Grid Technologies **(I6202)** **Elective-I** Breakdown Phenomenon in Electrical Insulation **(I6203)**	**Elective-II** High Voltage Power Apparatus & Diagnostics **(I6204)** **Elective-II** Collision Phenomena in Plasma Science **(I6205)** **Elective-II** Advanced EM Fields **(I6206)**	HVDC Transmission **(I5602)**	Generation & Measurement of High Voltages **(I5612)**	**Elective-I** Artificial Intelligence Techniques **(I5609)**	----

NOTE: (i) If Government declares holiday on any of the above dates, the examinations will be conducted as usual

(ii) Any omissions or clashes in this Time Table may please be informed to the Controller of Examinations immediately.

(iii) The Principals are requested to inform the University, if any other substitute subjects that are not included in the above time table immediately

Date: 21-01-2020

Controller of Examinations