

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟಿಯು ಅಧಿನಿಯಮ ೧೯೯೪ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯವಿಶ್ವವಿದ್ಯಾಲಯ

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994"InanaSangama" Belagavi-590018, Karnataka, India

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DATE: 8 JUI 2025

Prof. B. E. Rangaswamy, Ph.D REGISTRAR

REF: VTU/BGM/PG-AEC-SEE related /782/2024-25/ 1 5 1 2

CIRCULAR

Subject: Clarification Regarding 1-Credit AEC/SEC Courses – Semester End Examination (SEE) Reference:

- 1. Syllabus PG programmes of scheme 2024
- 2. VTU/BGM/PG Online Courses/764/2024-25/806, dated:

This is with reference to the subject cited above. It has come to our notice that errors have been identified in the Semester End Examination (SEE) section of the syllabus, particularly concerning 1credit Ability Enhancement Courses (AEC) / Skill Enhancement Courses (SEC).

In light of the upcoming examinations, the following clarifications are issued for the benefit of:

- Question paper setters
- · Faculty members handling AEC/SEC courses
- Students registered for these courses and appearing for the SEE

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together

1. The SEE for 01 credit AEC/SEC courses is written as theory with MCQ type question papers

Semester End Examinations (SEE)

SEE paper shall be set for 50 questions, each of the 01 marks. The pattern of the question paper is MCQ (multiple choice questions). The time allotted for SEE is 01 hour. The student has to secure a minimum of 40% of the maximum marks meant for SEE.

Examination duration is 01 hour

2. The SEE for 01 credit AEC/SEC courses is written as theory question papers Semester End Examinations (SEE)

- a. The question paper shall consist of ten questions, with each question carrying 10 marks.
- **b.** There shall be two questions from each module. Each question may or may not include sub-questions (with a maximum of two sub-questions). The mark distribution for sub-questions may follow any of the following formats: 5+5, 4+6, or 3+7.
- c. Students are required to answer any five full questions, selecting one full question from each module.
- **d.** In order to pass the SEE, students must obtain a minimum of 40% of the maximum marks allotted for the examination.
- e. The maximum duration of the examination is 02 hours
- 3. Each respective Board of Studies (BoS) has announced a list of approved online courses carrying 01 credit and more under Ability Enhancement Courses (AEC) and Skill Enhancement Courses (SEC). These online courses are made available to facilitate students who wish to opt for alternative subjects in lieu of the listed AEC/SEC courses in their program.
 In cases where the AEC syllabus specific to a program is not listed in the current scheme, students are permitted to choose and complete the approved online courses from the announced list.

These clarifications are intended to ensure uniformity and proper conduct of the SEE for 1-credit AEC/SEC courses.

All the Principals of constituent and affiliated engineering colleges are hereby informed to bring this to the notice of the concerned faculty and students, and to ensure strict adherence to the same.

Sd/-

REGISTRAR

To,

The principals of all Engineering Colleges under the ambit of the university, Belagavi The Chairpersons /Program Coordinators of the university Departments at Kalburgi, Mysuru, Bengaluru, and Belagavi

Copy to

- 1. The Hon'ble Vice-Chancellor, through the Secretary to VC for information
- 2. The Registrar (Evaluation) VTU Belagavi for information and needful
- 3. The Chairpersons and members of BoS and BOE of the VTU Belagavi
- 4. The Director, ITI SMU VTU Belagavi, for information and to make arrangements to upload the circular on the VTU web portal for stakeholders' reference.
- 5. The Special Officer, QPDS section, for information and needful
- 6. Office Copy.

O8/07/2 REGISTRAR

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Master of Technology (2024 Scheme PG)

	Bio	otechnology and Biochemical Engineering SCHEME	ng	NAME OF STREET
S.N	Code	Title	Credit	AEC Type
1	MBBC258A	BIOPROCESS CONTROL ANDAUTOMATION LAB	1	Practical
2	MBBCL258B	BIOPROCESSING LAB	1	Practical
3	MBBCL258C	R PROGRAMMING FOR BIOLOGISTS LAB	1	Practical
4	MBBCL258D	BIOSTATISTICS AND TOOL LAB	1	Practical
5	MBBCL258E	BIOHAZARDS AND BIOSAFETY LAB	1	Practical

	Food Technolo	gy		,
1	MFDT258A	Food Biotechnology Laboratory	1	Practical
2	MFDT258B	Food Microbiology Lab	1	Practical
2	MFDT258C	Food Analysis Lab	1	Practical
3	MFDT258D	Biostatstic and tool Lab	1	Practical
4	MFDT258E	BioHazards and Bio safety Lab	1	Practical
5	MFDT258F	Nutraceutical Analysis Lab	1	Practical

	CIVIL ENGINEERING SCIENCES	
1	Computer Aided Design of Structures	
2	Computer Aided Structural Engineering	
3	Construction Technology	
4	Environmental Engineering	

5 Geotechnical Engineering

1	MCGT258A	Forensic Geotechnical Engineering	1	MCQ
2	MCGT258B	Environmental Geotechnical Engineering	1	MCQ
3	MCGT258C	Occupational safety and health Management in construction projects	1	MCQ
4	MCGT258D	IoT and Smart Cities	1	MCQ

Infrastructure Construction and Management

1 MCEM258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	MCQ
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	Biotechnology and Biochemica SYLLABUS	il Engine	ering		To be Read as
Code	Title	Credit	AEC Type	Duration	
MBBC258A	BIOPROCESS CONTROL ANDAUTOMATION LAB	1	Practical	2 Hours	MBBCL258A
MBBCL258B	BIOPROCESSING LAB	1	Practical	2 Hours	MBBCL258B
MBBCL258C	R PROGRAMMING FOR BIOLOGISTS LAB	1	Practical	2 Hours	MBBCL258C
MBBCL258D	BIOSTATISTICS AND TOOL LAB	1	Practical	2 Hours	MBBCL258D
MBBCL258E	BIOHAZARDS AND BIOSAFETY LAB	1	Practical	2 Hours	MBBCL258E

Food Technology

MFDT27A	Food Biotechnology Laboratory	1	Practical	2 Hours	MFDTL258A
MFDTL258B	Food Microbiology Lab	1	Practical	2 Hours	MFDTL258B
MFDTL258C	Food Analysis Lab	1	Practical	2 Hours	MFDTL258C
MFDTL258D	Biostatstic and tool Lab	1	Practical	2 Hours	MFDTL258D
MFDTL258E	BioHazards and Bio safety Lab	1	Practical	2 Hours	MFDTL258E
MFDT258F	Nutraceutical Analysis Lab	1	Practical	2 Hours	MFDTL258F

CIVIL ENGINEERING SCIENCES	
Computer Aided Design of Structures	AEC is Online
Computer Aided Structural Engineering	AEC is Online
Construction Technology	AEC is Online
Environmental Engineering	AEC is Online

Geotechnical Engineering

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MCGT258A	FORENSIC GEOTECHNICAL ENGINEERING	1	мcQ	1 Hour
MCGT258B	Environmental Geotechnical Engineering	1	MCQ	1 Hour
MCGT258C	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	MCQ	1 Hour
MCGT258D	IOT AND SMART CITIES	1	MCQ	1 Hour

Infrastructure Construction and Management

MCEM258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	мсо	1 Hour
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1	MCEM258D	URBAN PUBLIC TRANSPORT	1	MCQ	MCEM258D	URBAN PUBLIC TRANSPORT	1	MCQ	1 Hour	
7	Structural Engir	neering			Structural Engin	eering				AEC is Online
8	Transportatio	n Engineering and Management			Transportation	n Engineering and Management				2nd Sem Scheme & Syllabus Missing
9	Transportatio	n Engineering			Transportation	n Engineering				2nd Sem Scheme & Syllabus Missing
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5 Digital Electronics

Digital Electronics

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MLDE258A	Modeling and Simulation of Antenna	1	Practical	MLDE258A	Modeling and Simulation of Antenna Using Simulation Tool	1	Practical	2 Hours	MLDEL258A
MLDE258B	Using Simulation Tool MATLAB and Simulink	1	Practical	MLDE258B	MATLAB and Simulation 1001	1	Practical	2 Hours	MLDEL258B
MLDE258B MLDE258C		1	Practical	MLDE258C	Python Programming	1	Practical		MLDEL258C
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MLDC258A	Modeling and Simulation of Antenna Using Simulation Tool	1	Practical	MLDC258A	Modeling and Simulation of Antenna Using Simulation Tool	1	Practical	2 Hours	MLDCL258A
MLDC258B	MATLAB and Simulink	1	Practical	MLDC258B	MATLAB and Simulink	1	Practical	2 Hours	MLDCL258B
MLDC258C	Programming in JAVA	1	Practical	MLDC258C	Programming in JAVA	1	Practical	2 Hours	MLDCL258C
MLDC258D	Python Programming	1	Practical	MLDC258D	Python Programming	1	Practical	2 Hours	MLDCL258D
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MECE258A	Advanced Digital Signal Processing Laboratory	1	Practical	MECE258A	Advanced Digital Signal Processing Laboratory	1	Practical	2 Hours	MECEL258A
MECE258B	Internet of Things Laboratory	1	Practical	MECE258B	Internet of Things Laboratory	1	Practical	2 Hours	MECEL258B
MECE258C	Biomedical Signal Processing	1	MCQ	MECE258C	Biomedical Signal Processing	1	MCQ	1 Hours	
MECE258D	Array Signal Processing	1	MCQ	MECE258D	Array Signal Processing	1	MCQ	1 Hours	
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Automotive Engineering MMAU258A Automotive Heating, Ventilation and Air Conditioning MMAU258B Battery management system 1 MCQ MMAU258C Autonomous Vehicles 1 MCQ MMAU258C Autonomous Vehicles 1 MCQ MMAU258D Drive Cycles of Electric Vehicles 1 MMCQ MMAU258D Drive Cycles of Electric Vehicles 1 MMCQ MMEM258D Elegal aspects in Business 1 Theory MMEM258B Legal aspects in Business 1 Theory MMEM258B DBusiness Etiquettes 1 Theory MMEM258B DBusiness Etiquettes 1 Theory MMPD258B NODUCT ANALYSIS AND COST 1 Theory MMPD258B NODUCT ANALYSIS AND COST 0 Theory MMPD258B NODUCT ANALYSIS AND CO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MCQ MCQ MCQ MCQ Theory Theory Theory Theory	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours			
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MMEM258A Executive Communication 1 Theory MMEM258B Legal aspects in Business MMEM258C International Business MMEM258D Business Etiquettes 1 Theory MMEM258D Business Etiquettes MMEM258D MMEM258D MMEM258D MMEM258D MMEM258D MMEM258D MMEM258D MMPD258D M	1 1 1 1 1	Theory Theory	2 Hour 2 Hour			
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MMEM258B Legal aspects in Business 1 Theory MMEM258C International Business 1 Theory MMEM258C International Business MMEM258A Manufacturing MMEM258A Manufacturing MMEM258A Nanufacturing MMEM258A Nanufacturing MMPD258A PRODUCT ANALYSIS AND COST OPTIMIZATION MMPD258B MINDUSTRIAL ROBOTICS AND AUTOMATION MMPD258B MINDUSTRIAL ROBOTICS AND AUTOMATION MMPD258B MMPD258B MINDUSTRIAL ROBOTICS AND AUTOMATION MMPD258B MAPID Expected MMPD258B MAPID Expected MMPD258B MAPID Expected MMPD258B MAPID E	1 1 1 1	Theory	2 Hour			
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MMPD258C PROJECT MANAGEMENT 1 Theory MMPD258D RAPID PROTOTYPING 1 Theory Production Engineering MMPE258A Nano Technology 1 MCQ MMPE258B Smart Materials 1 MCQ MMPE258C Precision Engineering 1 MCQ MMPE258C Precision Engineering 1 MCQ MMPE258B Smart Materials 1 MCQ MMPE258C Precision Engineering 1 MCQ MMPE258C Precision Engineering 1 MCQ MMPE258C Precision Engineering MMPE258C Precision Engineering MMPE258C Precision Engineering MMPE258C Precision Engineering MMPE258D Advanced Processing of Materials Production Management MMPM258A Nano Technology 1 Theory MMPM258B Smart Materials 1 Theory MMPM258C Precision Engineering MMPM258C Precision Engineerin		Theory	2 Hour			
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MMPE258A Nano Technology 1 MCQ MMPE258B Smart Materials 1 MCQ MMPE258C Precision Engineering MMPE258D Advanced Processing of Materials 1 MCQ MMPE258D Advanced Processing of Materials Production Management MMPM258A Nano Technology MMPM258B Smart Materials 1 Theory MMPM258B Smart Materials 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258D Advanced Processing of Materials 1 Theory MMPM258D Advanced Processing of Materials Production Technology MMPM258D Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping Introduction to Maintenance 1 MCQ MMPT/MMPY258B Introduction to Maintenance	1	Theory	2 Hour			
MMPE258A Nano Technology 1 MCQ MMPE258B Smart Materials 1 MCQ MMPE258C Precision Engineering MMPE258D Advanced Processing of Materials 1 MCQ MMPE258D Advanced Processing of Materials Production Management MMPM258A Nano Technology MMPM258B Smart Materials 1 Theory MMPM258B Smart Materials 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258D Advanced Processing of Materials 1 Theory MMPM258D Advanced Processing of Materials Production Technology MMPM258D Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping Introduction to Maintenance 1 MCQ MMPT/MMPY258B Introduction to Maintenance						
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MMPE258D Advanced Processing of Materials 1 MCQ MMPE258D Advanced Processing of Materials Production Management MMPM258A Nano Technology 1 Theory MMPM258A Nano Technology MMPM258B Smart Materials 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258D Advanced Processing of Materials 1 Theory MMPM258D Advanced Processing of Materials 1 Theory MMPM258D Advanced Processing of Materials Production Technology MMPT/MMPY258A Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping Introduction to Maintenance 1 MCO MMPT/MMPY258B Introduction to Maintenance	1	MCQ	1 Hou			
MMPM258A Nano Technology 1 Theory MMPM258B Smart Materials 1 Theory MMPM258C Precision Engineering 1 Theory MMPM258D Advanced Processing of Materials Production Technology MMPT/MMPY258A Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping MMPT/MMPY258B Introduction to Maintenance 1 MCO MMPT/MMPY258B Introduction to Maintenance	1	MCQ	1 Hou			
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MMPM258C Precision Engineering 1 Theory MMPM258D Advanced Processing of Materials 1 Theory MMPM258D Advanced Processing of Materials 1 Theory Production Technology MMPT/MMPY258A Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping MMPT/MMPY258B Introduction to Maintenance 1 MCO MMPT/MMPY258B Introduction to Maintenance	1	Theory	2 Hour			
MMPM258D Advanced Processing of Materials 1 Theory MMPM258D Advanced Processing of Materials Production Technology Production Technology MMPT/MMPY258A Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping Introduction to Maintenance 1 MCO MMPT/MMPY258B Introduction to Maintenance	1	Theory	2 Hour			
MMPT/MMPY258A Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping MMPT/MMPY258B Introduction to Maintenance 1 MCO MMPT/MMPY258B Introduction to Maintenance	1	Theory	2 Hour			
MMPT/MMPY258A Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping MMPT/MMPY258B Introduction to Maintenance 1 MCO MMPT/MMPY258B Introduction to Maintenance						
MMPT/MMPY258B Introduction to Maintenance 1 MCO MMPT/MMPY258B Introduction to Maintenance	1	MCQ	1 Hour			
Engineering	1	MCQ	1 Hour			
MMPT/MMPY258C An Outline of Emerging Technologies 1 MCQ MMPT/MMPY258C An Outline of Emerging Technologies Technologies	1	MCQ	1 Hou			
MMPT/MMPY258D An over view of Quality Tools 1 MCQ MMPT/MMPY258D An over view of Quality Tools	1	MCQ	1 Hour			
Production Engineering & System Technology Production Engineering & System Technology						
MMPT/MMPY258A Basics of Rapid Prototyping 1 MCQ MMPT/MMPY258A Basics of Rapid Prototyping	1	MCQ	1 Hou			
MMPT/MMPY258B Introduction to Maintenance 1 MCQ MMPT/MMPY258B Introduction to Maintenance Engineering	T	MCQ	1 Hou			
MMPT/MMPY258C An Outline of Emerging Technologies 1 MCQ MMPT/MMPY258C An Outline of Emerging Technologies	1	MCQ	1 Hou			
MMPT/MMPY258D An over view of Quality Tools 1 MCQ MMPT/MMPY258D An over view of Quality Tools						

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MMSE258A	IOT IN MANUFACTURING	1	Theory
MMSE258B	MICRO MACHINING PROCESSES	1	Theory
MMSE258C	ARTIFICIAL INTELLIGENCE IN MANUFACTURING	1	Theory
MMSE258D	MACHINE LEARNING	1	Theory

10 Computer Aided Engineering

-	CONTRACTOR CONTRACTOR	B		
	Meccara	SKILL ENHANCEMENT FOR		
	MSCS258	RESEARCH EXCELLENCE-1	1	

11 Industrial Automation Engineering

MMIA/MMAR258A	MATLAB for Mechatronics	1	Practical
MMIA/MMAR258B	Basics of Rapid Prototyping	1	MCQ
MMIA/MMAR258C	Environmental Studies and E-Waste Management	1	MCQ
MMIA/MMAR258D	FINITE ELEMENT MODELLING AND ANALYSIS	1	Practical

12 Industrial Automation and Robotics

MMAR/MMIA258A	MAT lab for Mechatronics	1	
MMAR/MMIA258B	Basics of Rapid prototyping	1	
MMAR/MMIA258C	Environmental Studies and E-Waste Management	1	
MMAR/MMIA258D	Finite element Modelling and Analysis	1	

13 Computer Integrated Manufacturing

MMCM258A	An Outline of Emerging Technologies	1	
ммсм258В	Basics of Industrial Safety	1	
MMCM258C	Introduction to Risk Management	1	
MMCM258D	Drive Cyclesof Electric Vehicles	1	

14 Design Engineering

Design Engineering			
MMMD/MMDE258 A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ
MMMD/MMDE258 B	Python Programming for Beginners	1	MCQ
IMMMD/MMDF25RC	Multi-Body Simulation using VTU's CoE Software	1	MCQ
MMMD/MMDE258 D	3D Printing and Robotic Simulation Programming	1	MCQ

15 Engineering Analysis & Design

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MMEA258A	Basics of Matlab	1	Practical
MMEA258B	Fundamentals On Spreadsheet	1	Practical
MMEA258C	Fundamental of Virtual Reality ARP Development	1	MCQ

Manufacturing Science & Engineering

MMSE258A	IOT IN MANUFACTURING	1	Theory	2 Hours
MMSE258B	MICRO MACHINING PROCESSES	1	Theory	2 Hours
MMSE258C	ARTIFICIAL INTELLIGENCE IN MANUFACTURING	1	Theory	2 Hours
MMSE258D	MACHINE LEARNING	1	Theory	2 Hours

Computer Aided Engineering

compacer ma	cu mignicering	
MSCS258	SKILL ENHANCEMENT FOR RESEARCH EXCELLENCE-1 1	Research Excellence

Industrial Automation Engineering

MMIA/MMAR258A	MATLAB for Mechatronics	1	Practical	2 Hours
MMIA/MMAR258B	Basics of Rapid Prototyping	1	мсо	1 Hour
MMIA/MMAR258C	Environmental Studies and E- Waste Management	1	MCQ	1 Hour
MMIA/MMAR258D	FINITE ELEMENT MODELLING AND ANALYSIS	1	Practical	2 Hours

Industrial Automation and Robotics

MMAR/MMIA258A	MAT lab for Mechatronics	1	Practical	2 Hours
MMAR/MMIA258B	Basics of Rapid prototyping	1	MCQ	1 Hour
MMAR/MMIA258C	Environmental Studies and E- Waste Management	1	MCQ	1 Hour
MMAR/MMIA258D	Finite element Modelling and Analysis	1	Practical	2 Hours

Computer Integrated Manufacturing

MMAR/MMIA258A	MATLAB for Mechatronics	1	Practical	2 Hours
MMAR/MMIA258B	Basics of Rapid Prototyping	1	MCQ	1 Hour
MMAR/MMIA258C	Environmental Studies and E- Waste Management	1	MCQ	1 Hour
MMAR/MMIA258D	FINITE ELEMENT MODELLING AND ANALYSIS	1	Practical	2 Hours

Design Engineering

Design Engineering				
MMMD/MMDE258 A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	мсо	1 Hour
MMMD/MMDE258 B	Python Programming for Beginners	1	MCQ	1 Hour
	Multi-Body Simulation using VTU's CoE Software	1	MCQ	1 Hour
MMMD/MMDE258 D	3D Printing and Robotic Simulation Programming	1	MCQ	1 Hour

Engineering Analysis & Design

Engineering An	arysis & Design			
MMEA258A	Basics of Matlab	1	Practical	2 Hours
MMEA258B	Fundamentals On Spreadsheet	1	Practical	2 Hours
MMEA258C	Fundamental of Virtual Reality ARP Development	1	MCQ	1 Hour

MMEAL258A MMEAL258B

MMIAL/MMARL258A

MMIAL/MMARL258D

MMARL/MMIAL258A

MMARL/MMIAL258D

MMCM258B MMCM258C MMCM258D

MMEA258D	Introduction Augmented Reality	1	MCQ	MMEA258D	Introduction Augmented Reality	1	MCQ	1 Hour	
Machine Design				Machine Design					
MMMD/MMDE258 A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ	MMMD/MMDE258 A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ	1 Hour	
MMMD/MMDE258 B	Python Programming for Beginners	1	MCQ	MMMD/MMDE258 B	Python Programming for Beginners	1	MCQ	1 Hour	
MMMD/MMDE2580	Multi-Body Simulation using VTU's CoE Software	1	MCQ	MMMD/MMDE258C	Multi-Body Simulation using VTU's CoE Software	1	MCQ	1 Hour	
MMMD/MMDE258 D	3D Printing and Robotic Simulation Programming	1	MCQ	MMMD/MMDE258 D	3D Printing and Robotic Simulation Programming	1	MCQ	1 Hour	
Material Science &	Technology			Material Science &	Technology				
MMST258A	loT in manufacturing	1	Theory	MMST258A	IoT in manufacturing	1	Theory	2 Hours	
MMST258B	MICRO MACHINING PROCESSES	1	Theory	MMST258B	MICRO MACHINING PROCESSES	1	Theory	2 Hours	
MMST258C	ARTIFICIAL INTELLIGENCE IN MANUFACTURING	1	Theory	MMST258C	ARTIFICIAL INTELLIGENCE IN MANUFACTURING	1	Theory	2 Hours	
MMST258D	MACHINE LEARNING	1	Theory	MMST258D	MACHINE LEARNING	1	Theory	2 Hours	
Tool Engineering MMTE258A	Interview Preparation	1		MMTE258A	Interview Preparation	1			
MMTE258B	Cyber Security	1		MMTE258B	Cyber Security	1			
MMTE258C	Ethical hacking	1		MMTE258C	Ethical hacking	1			AEC Syllabus is Missin
MMTE258D	Innovation and Design Thinking	1		MMTE258D	Innovation and Design Thinking	1			
Thermal Power Er	ngineering/Thermal Engineering			Thermal Power En	gineering/Thermal Engineering				
Thermal Power En	ngineering/Thermal Engineering Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ	Thermal Power En	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	мсо	1 Hour	
	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners	1	мсо		Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners	1	мсq мсq	1 Hour	
MMTP258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)			ммтр258А	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming				
MMTP258A MMTP258B	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation	1	мсо	MMTP258A MMTP258B	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic	1	MCQ	1 Hour	MMTPL258D
MMTP258A MMTP258B MMTP258C	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using	1	MCQ MCQ	MMTP258A MMTP258B MMTP258C	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using	1	мсq мсq	1 Hour	MMTPL258D
MMTP258A MMTP258B MMTP258C MMTP258D	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using	1	MCQ MCQ	MMTP258A MMTP258B MMTP258C	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using	1	мсq мсq	1 Hour	MMTPL258D
MMTP258A MMTP258B MMTP258C MMTP258D Mechatronics	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using Spreadsheets	1 1 1	MCQ MCQ Practical	MMTP258A MMTP258B MMTP258C MMTP258D	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using Spreadsheets	1 1 1	MCQ MCQ Practical	1 Hour 1 Hour 2 Hours	MMTPL258D
MMTP258A MMTP258B MMTP258C MMTP258D Mechatronics MMTR258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using Spreadsheets Fuzzy logic for Robotics Introduction to Smart Factory and	1 1 1	MCQ MCQ Practical	MMTP258A MMTP258B MMTP258C MMTP258D	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy) Python Programming for Beginners 3D Printing and Robotic Simulation Programming Numerical Heat Transfer using Spreadsheets Fuzzy logic for Robotics Introduction to Smart Factory	1 1 1	MCQ MCQ Practical	1 Hour 1 Hour 2 Hours	MMTPL258D

21 Defense Technology MMDT258A A

AI/ML using Python

MATLAB
Enhancing Self Competence and
Developing Professional Skills 1 MMDT258B 1 MMDT258C

Defense Technology NO SYLLABUS

MMDT258D	Ethics, technology and Engineering	1	

22 Robotics and Mechatronics

MMRM258A	Robotics Ecosystem	1	MCQ
MMRM258B	Robot Programming & Simulation Lab	1	Practical
MMRM258C	Fuzzy logic for Robotics	1	MCQ
MMRM258D	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ

23 Robotics and Artificial Intelligence

MRAI258A	Nano Technology	1	Theory
MRAI258B	Smart Materials	1	Theory
MRAI258C	Precision Engineering	1	Theory
MRAI258D	Advanced Processing of Materials	1	Theory

English Co.	NANOTECHNOLOGY	193	PER SE
MNST257A / MINT257A	Technical Writing and Presentation	1	Theory
MNST257B / MINT257B	Problem solving techniques in Science and Engineering	1	Theory

2 Nano Science & Technology (Uni Dept)

MNST257A / MINT257A	Technical Writing and Presentation	1	Theory
MNST257B /	Problem solving techniques in Science		
MINT257B	and Engineering	1	Theory

1 TEXTILE TECHNOLOGY

MJTT258A	Developments in Fabric Formation	1	Theory
MJTT258B	Biotechnology Applications in Textile Industry	1	Theory
MJTT258C	Medical Textiles	1	Theory
MJTT258D	Human Resource Management	1	Theory

1 Master of Computer Application (MCA)

Ability Enhancement Courses with Seminar-I

Mandatory Course (NCMC), Students have to select the Topic like ERP, R

2 M.Sc. in Chemistry

MSC257 (AEC /		
AUD)	Research Methodology and IPR	PP

Robotics and Mechatronics

MMRM258A	Robotics Ecosystem	1	MCQ	1 Hour
MMRM258B	Robot Programming & Simulation Lab	1	Practical	2 Hours
MMRM258C	Fuzzy logic for Robotics	1	MCQ	1 Hour
MMRM258D	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ	1 Hour

Robotics and Artificial Intelligence

MRAI258A	Nano Technology	1	Theory	2 Hours
MRAI258B	Smart Materials	1	Theory	2 Hours
MRAI258C	Precision Engineering	1	Theory	2 Hours
MRAI258D	Advanced Processing of Materials	1	Theory	2 Hours

	NANOTE	CHNOL	OGY	
MNST257A / MINT257A	Technical Writing and Presentation	1	Theory	2 Hours
MNST257B / MINT257B	Problem solving techniques in Science and Engineering	1	Theory	2 Hours

Nano Science & Technology (Uni Dept)

MNST257A / MINT257A	Technical Writing and Presentation	1	Theory	2 Hours
MNST257B / MINT257B	Problem solving techniques in Science and Engineering	1	Theory	2 Hours

TEXTILE TECHNOLOGY

MJTT258A	Developments in Fabric Formation	1	Theory	2 Hours
мјтт258В	Biotechnology Applications in Textile Industry	1	Theory	2 Hours
MJTT258C	Medical Textiles	1	Theory	2 Hours
MJTT258D	Human Resource Management	1	Theory	2 Hours

Master of Computer Application (MCA)

NO SYLLABUS OF

Ability Enhancement Courses with Seminar-I

M.Sc. in Chemistry

MSC257 (AEC /			
AUD)	Research Methodology and IPR	PP	NO SYLLABUS

MMRML258B