



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 "JnanaSangama" Belagavi-590018, Karnataka, India



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REGISTRAR

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REF: VTU/BGM/PG-AEC-SEE related /782/2024-25/ 1512

DATE: 8 JUL 2025

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 1-credit 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

01C

152

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.

R 08/07/20
REGISTRAR
G. J.

- RCE) — ~~10/07/2025~~
- P. Manjunath. — ~~10/07/2025~~
- QPDS Section — ~~10/07/2025~~
- ITL.SMU. — ~~10/07/2025~~
- CSE ch. — ~~10/07/2025~~
- CR ch. — ~~10/07/2025~~
- EEE ch. — ~~10/07/2025~~
- ME. ch. — ~~10/07/2025~~
- MBA = mba — ~~10/07/2025~~
- R/o Bqm — ~~10/07/2025~~



Myself

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Gulbarga.

Master of Technology (2024 Scheme PG)

Biotechnology and Biochemical Engineering SCHEME				
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 Technology				
1	MFDTL258A	Food Biotechnology Laboratory	1	Practical
2	MFDTL258B	Food Microbiology Lab	1	Practical
2	MFDTL258C	Food Analysis Lab	1	Practical
3	MFDTL258D	Biostatistic and tool Lab	1	Practical
4	MFDTL258E	BioHazards and Bio safety Lab	1	Practical
5	MFDTL258F	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	MCMT258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1 MCQ

Biotechnology and Biochemical Engineering SYLLABUS				
Code	Title	Credit	AEC Type	Duration
MBBC258A	BIOPROCESS CONTROL ANDAUTOMATION LAB	1	Practical	2 Hours
MBBCL258B	BIOPROCESSING LAB	1	Practical	2 Hours
MBBCL258C	R PROGRAMMING FOR BIOLOGISTS LAB	1	Practical	2 Hours
MBBCL258D	BIOSTATISTICS AND TOOL LAB	1	Practical	2 Hours
MBBCL258E	BIOHAZARDS AND BIOSAFETY LAB	1	Practical	2 Hours

Food Technology				
MFDTL27A	Food Biotechnology Laboratory	1	Practical	2 Hours
MFDTL258B	Food Microbiology Lab	1	Practical	2 Hours
MFDTL258C	Food Analysis Lab	1	Practical	2 Hours
MFDTL258D	Biostatistic and tool Lab	1	Practical	2 Hours
MFDTL258E	BioHazards and Bio safety Lab	1	Practical	2 Hours
MFDTL258F	Nutraceutical Analysis Lab	1	Practical	2 Hours

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				
MCGT258A	FORENSIC GEOTECHNICAL ENGINEERING	1	MCQ	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			
MCMT258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	MCQ 1 Hour

2	MCCEM258B/ MCHT258B	SMART CITY INFRASTRUCTURE	1	MCQ
3	MCCEM258C/ MCHT258C	ROAD SAFETY ENGINEERING AND MANAGEMENT	1	MCQ
4	MCCEM258D	URBAN PUBLIC TRANSPORT	1	MCQ

7	Structural Engineering			
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8	Transportation Engineering and Management			
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9	Transportation Engineering			
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10 Highway Technology				
1	MCCEM258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	MCQ
2	MCCEM258B/ MCHT258B	SMART CITY INFRASTRUCTURE	1	MCQ
3	MCCEM258C/ MCHT258C	ROAD SAFETY ENGINEERING AND MANAGEMENT	1	MCQ
4	MCCEM258D	IoT AND SMART CITIES	1	MCQ

11	Waste Water Management, Health and Safety Engineering			
1	Ability Enhancement Scheme & Syllabus is Missing			

12	Geo-informatics			
1	Skill Enhancement For Research Excellence			

13 Infrastructure Engineering and Management				
1	MCCEM258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	MCQ
2	MCCEM258B/ MCHT258B	SMART CITY INFRASTRUCTURE	1	MCQ
3	MCCEM258C/ MCHT258C	ROAD SAFETY ENGINEERING AND MANAGEMENT	1	MCQ
4	MCCEM258D	URBAN PUBLIC TRANSPORT	1	MCQ

14	Water Resources and Environmental Engineering			
1	Skill Enhancement For Research Excellence			

Computer Engineering & Sciences				
Computer Engineering				
1	Skill Enhancement for Research Excellence			

Computer Network Engineering				
2	Skill Enhancement for Research Excellence			

Computer Science and Engineering				
3	Skill Enhancement for Research Excellence - I			

MCCEM258B/ MCHT258B	SMART CITY INFRASTRUCTURE	1	MCQ	1 Hour
MCCEM258C/ MCHT258C	ROAD SAFETY ENGINEERING AND MANAGEMENT	1	MCQ	1 Hour
MCCEM258D	URBAN PUBLIC TRANSPORT	1	MCQ	1 Hour

Structural Engineering				
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Transportation Engineering and Management				
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Transportation Engineering				
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Highway Technology				
MCCEM258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	MCQ	1 Hour
MCCEM258B/ MCHT258B	SMART CITY INFRASTRUCTURE	1	MCQ	1 Hour
MCCEM258C/ MCHT258C	ROAD SAFETY ENGINEERING AND MANAGEMENT	1	MCQ	1 Hour
MCCEM258D	IoT AND SMART CITIES	1	MCQ	1 Hour

Waste Water Management, Health and Safety Engineering				
Ability Enhancement Scheme & Syllabus is Missing				

Geo-informatics				
Skill Enhancement For Research Excellence				

Infrastructure Engineering and Management				
MCCEM258A/ MCHT258A	OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN CONSTRUCTION PROJECTS	1	MCQ	1 Hour
MCCEM258B/ MCHT258B	SMART CITY INFRASTRUCTURE	1	MCQ	1 Hour
MCCEM258C/ MCHT258C	ROAD SAFETY ENGINEERING AND MANAGEMENT	1	MCQ	1 Hour
MCCEM258D	URBAN PUBLIC TRANSPORT	1	MCQ	1 Hour

Water Resources and Environmental Engineering				
Skill Enhancement For Research Excellence				

Computer Engineering & Sciences				
Computer Engineering				
Skill Enhancement for Research Excellence				

Computer Network Engineering				
Skill Enhancement for Research Excellence				

Computer Science and Engineering				
Skill Enhancement for Research Excellence - I				

AEC is Online

2nd Sem Scheme &
Syllabus Missing

2nd Sem Scheme &
Syllabus Missing

AEC is Online

Research Excellence

Research Excellence

Research Excellence

Research Excellence

Research Excellence

Information Technology

4	Skill Enhancement for Research Excellence - I				
5	Software Engineering				
	Skill Enhancement for Research Excellence - I				
6	Cyber Forensic and Information Security				
	Skill Enhancement for Research Excellence - I				
7	Networking and Internet Engineering				
	Skill Enhancement for Research Excellence - I				
8	Artificial Intelligence And Machine Learning				
	Skill Enhancement for Research Excellence - I				
9	Data Science				
	Skill Enhancement for Research Excellence - I				
10	Artificial Intelligence and Data Science				
	Skill Enhancement for Research Excellence - I				
11	Cyber Security				
	Skill Enhancement for Research Excellence - I				
12	Web Technology				
	ONLY 1ST SEM SCHEME SYLLABUS AVAILABLE				

ELECTRONICS & COMMUNICATION ENGINEERING

1	Communication Systems				
	MLCSL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	
	MLCSL258B	MATLAB and Simulink	1	Practical	
	MLCSL258C	Python Programming	1	Practical	
2	Digital Communication & Networking				
	MLDNL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	
	MLDNL258B	MATLAB and Simulink	1	Practical	
	MLDNL258C	Programming in JAVA	1	Practical	
	MLDNL258D	Python Programming	1	Practical	
3	Digital Electronics & Communication				
	MLECL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	
	MLECL258B	MATLAB and Simulink	1	Practical	
	MLECL258C	Python Programming	1	Practical	
4	Digital Electronics & Communication Systems				
	MLDSL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	
	MLDSL258B	MATLAB and Simulink	1	Practical	
	MLDSL258C	Python Programming	1	Practical	

Digital Electronics

Information Technology

	Skill Enhancement for Research Excellence - I				
	Software Engineering				
	Skill Enhancement for Research Excellence - I				
	Cyber Forensic and Information Security				
	Skill Enhancement for Research Excellence - I				
	Networking and Internet Engineering				
	Skill Enhancement for Research Excellence - I				
	Artificial Intelligence And Machine Learning				
	Skill Enhancement for Research Excellence - I				
	Data Science				
	Skill Enhancement for Research Excellence - I				
	Artificial Intelligence and Data Science				
	Skill Enhancement for Research Excellence - I				
	Cyber Security				
	Skill Enhancement for Research Excellence - I				
	Web Technology				
	ONLY 1ST SEM SCHEME SYLLABUS AVAILABLE				

2nd Sem Scheme & Syllabus Missing

ELECTRONICS & COMMUNICATION ENGINEERING

Communication Systems					
MLCSL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	2 Hours	
MLCSL258B	MATLAB and Simulink	1	Practical	2 Hours	
MLCSL258C	Python Programming	1	Practical	2 Hours	
Digital Communication & Networking					
MLDNL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	2 Hours	
MLDNL258B	MATLAB and Simulink	1	Practical	2 Hours	
MLDNL258C	Programming in JAVA	1	Practical	2 Hours	
MLDNL258D	Python Programming	1	Practical	2 Hours	
Digital Electronics & Communication					
MLECL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	2 Hours	
MLECL258B	MATLAB and Simulink	1	Practical	2 Hours	
MLECL258C	Python Programming	1	Practical	2 Hours	
Digital Electronics & Communication Systems					
MLDSL258A	Modelling and Simulation of Antenna Using Simulation Tool	1	Practical	2 Hours	
MLDSL258B	MATLAB and Simulink	1	Practical	2 Hours	
MLDSL258C	Python Programming	1	Practical	2 Hours	

Digital Electronics

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MLDE258A	Modeling and Simulation of Antenna Using Simulation Tool	1	Practical
MLDE258B	MATLAB and Simulink	1	Practical
MLDE258C	Python Programming	1	Practical

MLDE1258A
MLDE1258B
MLDE1258C

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Electronics			
MLEL258A	Refer www.online.vtu.ac.in	1	
MLEL258B	Refer www.online.vtu.ac.in	1	
MLEL258C	Refer www.online.vtu.ac.in	1	
MLEL258D	Refer www.online.vtu.ac.in	1	

AEC is Online

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Industrial Electronics			
MLIE258A	Referwwwwww.online.vtu.ac.in	1	
MLIE258B	Referwwwwww.online.vtu.ac.in	1	
MLIE258C	Referwwwwww.online.vtu.ac.in	1	
MLIE258D	Referwwwwww.online.vtu.ac.in	1	

AEC is Online

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Signal Processing			
MLSP288A	Referwwwwww.online.vtu.ac.in	1	
MLSP288B	Referwwwwww.online.vtu.ac.in	1	
MLSP288C	Referwwwwww.online.vtu.ac.in	1	
MLSP288D	Referwwwwww.online.vtu.ac.in	1	

AEC is Online

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VLSI Design and Embedded System (Affiliated)			
MLEL258A	Referwwwwww.online.vtu.ac.in	1	
MLEL258A	Referwwwwww.online.vtu.ac.in	1	
MLEL258A	Referwwwwww.online.vtu.ac.in	1	
MLEL258A	Referwwwwww.online.vtu.ac.in	1	

AEC is Online

10

Digital Communication Engineering			
MLDC258A	Modeling and Simulation of Antenna Using Simulation Tool	1	Practical
MLDC258B	MATLAB and Simulink	1	Practical
MLDC258C	Programming in JAVA	1	Practical
MLDC258D	Python Programming	1	Practical

MLDC1258A
MLDC1258B
MLDC1258C
MLDC1258D

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Electronics & Communication(VLSI Design)			
MLEL258A	Referonline.vtu.ac.in/courses	1	
MLEL258B	Referonline.vtu.ac.in/courses	1	
MLEL258C	Referonline.vtu.ac.in/courses	1	
MLEL258D	Referonline.vtu.ac.in/courses	1	

AEC is Online

Only 1st Sem Scheme & Syllabus Available.

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Electronics & Communication(Advanced Communication Technology)			
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Electronics & Communication(Advanced Communication Technology)

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Biomedical Signal Processing and Instrumentation			
MLBI288A	Referonline.vtu.ac.in/courses	1	
MLBI288B	Referonline.vtu.ac.in/courses	1	
MLBI288C	Referonline.vtu.ac.in/courses	1	
MLBI288D	Referonline.vtu.ac.in/courses	1	

Biomedical Signal Processing and Instrumentation

AEC is Online

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IoT and Sensor System			
MISS258A	Machine Learning	1	MCQ
MISS258B	Automotive Sensor and In-Vehicle Networking	1	MCQ
MISS258C	Biomedical Sensors	1	MCQ

IoT and Sensor System

MISS258A	Machine Learning	1	MCQ	1 Hour
MISS258B	Automotive Sensor and In-Vehicle Networking	1	MCQ	1 Hour
MISS258C	Biomedical Sensors	1	MCQ	1 Hour

MLMS258D	Nano sensors	1	MCQ
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15 Biomedical Electronics and Industrial Instrumentation (Autonomous) - PG

MLMS258A	Refer www.online.vtu.ac.in	1	
MLMS258B	Refer www.online.vtu.ac.in	1	
MLMS258C	Refer www.online.vtu.ac.in	1	
MLMS258D	Refer www.online.vtu.ac.in	1	

MECE258A	Advanced Digital Signal Processing Laboratory	1	Practical
MECE258B	Internet of Things Laboratory	1	Practical
MECE258C	Biomedical Signal Processing	1	MCQ
MECE258D	Array Signal Processing	1	MCQ

16 Electrical and Electronics Engineering

MEPS258A	Refer www.online.vtu.ac.in	1	
MEPS258B	Refer www.online.vtu.ac.in	1	
MEPS258C	Refer www.online.vtu.ac.in	1	
MEPS258D	Refer www.online.vtu.ac.in	1	

17 Computer Application In Industrial Drives(Only in Autonomous College)

MESE258A	Refer www.online.vtu.ac.in	1	
MESE258B	Refer www.online.vtu.ac.in	1	
MESE258C	Refer www.online.vtu.ac.in	1	
MESE258D	Refer www.online.vtu.ac.in	1	

MEVT257A	Refer www.online.vtu.ac.in	1	
MEVT257B	Refer www.online.vtu.ac.in	1	
MEVT257C	Refer www.online.vtu.ac.in	1	
MEVT257D	Refer www.online.vtu.ac.in	1	

MEPE258A	Refer www.online.vtu.ac.in	1	
MEPE258B	Refer www.online.vtu.ac.in	1	
MEPE258C	Refer www.online.vtu.ac.in	1	
MEPE258D	Refer www.online.vtu.ac.in	1	

18 Aerospace Propulsion Technology

MMAP258A	Aircraft Systems and Instrumentation	1	MCQ
MMAP258B	Aircraft Stability And Control	1	
MMAP258C	Android App Development with Kotlin Essentials - (App development Skills)	1	
MMAP258D	Employability skill course - (Corporate Skills)	1	

MISS258D	Nano sensors	1	MCQ	1 Hour
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19 Biomedical Electronics and Industrial Instrumentation (Autonomous) - PG

MLMS258A	Refer www.online.vtu.ac.in	1		
MLMS258B	Refer www.online.vtu.ac.in	1		
MLMS258C	Refer www.online.vtu.ac.in	1		
MLMS258D	Refer www.online.vtu.ac.in	1		

MECE258A	Advanced Digital Signal Processing Laboratory	1	Practical	2 Hours
MECE258B	Internet of Things Laboratory	1	Practical	2 Hours
MECE258C	Biomedical Signal Processing	1	MCQ	1 Hours
MECE258D	Array Signal Processing	1	MCQ	1 Hours

20 Power System Engineering

MEPS258A	Refer www.online.vtu.ac.in	1		
MEPS258B	Refer www.online.vtu.ac.in	1		
MEPS258C	Refer www.online.vtu.ac.in	1		
MEPS258D	Refer www.online.vtu.ac.in	1		

21 Computer Application In Industrial Drives(Only in Autonomous College)

MESE258A	Refer www.online.vtu.ac.in	1		
MESE258B	Refer www.online.vtu.ac.in	1		
MESE258C	Refer www.online.vtu.ac.in	1		
MESE258D	Refer www.online.vtu.ac.in	1		

MEVT257A	Refer www.online.vtu.ac.in	1		
MEVT257B	Refer www.online.vtu.ac.in	1		
MEVT257C	Refer www.online.vtu.ac.in	1		
MEVT257D	Refer www.online.vtu.ac.in	1		

MEPE258A	Refer www.online.vtu.ac.in	1		
MEPE258B	Refer www.online.vtu.ac.in	1		
MEPE258C	Refer www.online.vtu.ac.in	1		
MEPE258D	Refer www.online.vtu.ac.in	1		

22 Aerospace Propulsion Technology

MMAP258A	Aircraft Systems and Instrumentation	1	MCQ	1 Hour
MMAP258B	Aircraft Stability And Control	1		
MMAP258C	Android App Development with Kotlin Essentials - (App development Skills)	1		
MMAP258D	Employability skill course - (Corporate Skills)	1		

Only 1st Sem Scheme & Syllabus Available.

AEC is Online

MECE258A
MECE258B

AEC is Online

Only 1st sem Scheme & Syllabus Available

AEC is Online

AEC is Online

AEC is Online

Syllabus Missing

MECHANICAL ENGINEERING SCIENCES

2 Automotive Engineering

MMAU258A	Automotive Heating, Ventilation and Air Conditioning	1	MCQ
MMAU258B	Battery management system	1	MCQ
MMAU258C	Autonomous Vehicles	1	MCQ
MMAU258D	Drive Cycles of Electric Vehicles	1	MCQ

3 Master of Engineering Management

MMEM258A	Executive Communication	1	Theory
MMEM258B	Legal aspects in Business	1	Theory
MMEM258C	International Business	1	Theory
MMEM258D	Business Etiquettes	1	Theory

4 Product Design & Manufacturing

MMPD258A	PRODUCT ANALYSIS AND COST OPTIMIZATION	1	Theory
MMPD258B	INDUSTRIAL ROBOTICS AND AUTOMATION	1	Theory
MMPD258C	PROJECT MANAGEMENT	1	Theory
MMPD258D	RAPID PROTOTYPING	1	Theory

5 Production Engineering

MMPE258A	Nano Technology	1	MCQ
MMPE258B	Smart Materials	1	MCQ
MMPE258C	Precision Engineering	1	MCQ
MMPE258D	Advanced Processing of Materials	1	MCQ

6 Production Management

MMPM258A	Nano Technology	1	Theory
MMPM258B	Smart Materials	1	Theory
MMPM258C	Precision Engineering	1	Theory
MMPM258D	Advanced Processing of Materials	1	Theory

7 Production Technology

MMPT/MMPY258A	Basics of Rapid Prototyping	1	MCQ
MMPT/MMPY258B	Introduction to Maintenance Engineering	1	MCQ
MMPT/MMPY258C	An Outline of Emerging Technologies	1	MCQ
MMPT/MMPY258D	An over view of Quality Tools	1	MCQ

8 Production Engineering & System Technology

MMPT/MMPY258A	Basics of Rapid Prototyping	1	MCQ
MMPT/MMPY258B	Introduction to Maintenance Engineering	1	MCQ
MMPT/MMPY258C	An Outline of Emerging Technologies	1	MCQ
MMPT/MMPY258D	An over view of Quality Tools	1	MCQ

MECHANICAL ENGINEERING SCIENCES

Automotive Engineering

MMAU258A	Automotive Heating, Ventilation and Air Conditioning	1	MCQ	1 Hour
MMAU258B	Battery management system	1	MCQ	1 Hour
MMAU258C	Autonomous Vehicles	1	MCQ	1 Hour
MMAU258D	Drive Cycles of Electric Vehicles	1	MCQ	1 Hour

Master of Engineering Management

MMEM258A	Executive Communication	1	Theory	2 Hours
MMEM258B	Legal aspects in Business	1	Theory	2 Hours
MMEM258C	International Business	1	Theory	2 Hours
MMEM258D	Business Etiquettes	1	Theory	2 Hours

Product Design & Manufacturing

MMPD258A	PRODUCT ANALYSIS AND COST OPTIMIZATION	1	Theory	2 Hours
MMPD258B	INDUSTRIAL ROBOTICS AND AUTOMATION	1	Theory	2 Hours
MMPD258C	PROJECT MANAGEMENT	1	Theory	2 Hours
MMPD258D	RAPID PROTOTYPING	1	Theory	2 Hours

Production Engineering

MMPE258A	Nano Technology	1	MCQ	1 Hour
MMPE258B	Smart Materials	1	MCQ	1 Hour
MMPE258C	Precision Engineering	1	MCQ	1 Hour
MMPE258D	Advanced Processing of Materials	1	MCQ	1 Hour

Production Management

MMPM258A	Nano Technology	1	Theory	2 Hours
MMPM258B	Smart Materials	1	Theory	2 Hours
MMPM258C	Precision Engineering	1	Theory	2 Hours
MMPM258D	Advanced Processing of Materials	1	Theory	2 Hours

Production Technology

MMPT/MMPY258A	Basics of Rapid Prototyping	1	MCQ	1 Hour
MMPT/MMPY258B	Introduction to Maintenance Engineering	1	MCQ	1 Hour
MMPT/MMPY258C	An Outline of Emerging Technologies	1	MCQ	1 Hour
MMPT/MMPY258D	An over view of Quality Tools	1	MCQ	1 Hour

Production Engineering & System Technology

MMPT/MMPY258A	Basics of Rapid Prototyping	1	MCQ	1 Hour
MMPT/MMPY258B	Introduction to Maintenance Engineering	1	MCQ	1 Hour
MMPT/MMPY258C	An Outline of Emerging Technologies	1	MCQ	1 Hour
MMPT/MMPY258D	An over view of Quality Tools	1	MCQ	1 Hour

9 Manufacturing Science & Engineering

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

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

10 Computer Aided Engineering

MSCS258	SKILL ENHANCEMENT FOR RESEARCH EXCELLENCE-1	1	
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Computer Aided Engineering

MSCS258	SKILL ENHANCEMENT FOR RESEARCH EXCELLENCE-1	1		
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Research Excellence

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

Industrial Automation Engineering

MMIA/MMAR258A	MATLAB for Mechatronics	1	Practical	2 Hours
MMIA/MMAR258B	Basics of Rapid Prototyping	1	MCQ	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

MMIAL/MMARL258A

MMIAL/MMARL258D

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	

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

MMARL/MMIAL258A

MMARL/MMIAL258D

13 Computer Integrated Manufacturing

MMCM258A	An Outline of Emerging Technologies	1	
MMCM258B	Basics of Industrial Safety	1	
MMCM258C	Introduction to Risk Management	1	
MMCM258D	Drive Cycles of Electric Vehicles	1	

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

MMCM258A

MMCM258B

MMCM258C

MMCM258D

14 Design Engineering

MMMD/MMDE258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ
MMMD/MMDE258B	Python Programming for Beginners	1	MCQ
MMMD/MMDE258C	Multi-Body Simulation using VTU's CoE Software	1	MCQ
MMMD/MMDE258D	3D Printing and Robotic Simulation Programming	1	MCQ

Design Engineering

MMMD/MMDE258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ	1 Hour
MMMD/MMDE258B	Python Programming for Beginners	1	MCQ	1 Hour
MMMD/MMDE258C	Multi-Body Simulation using VTU's CoE Software	1	MCQ	1 Hour
MMMD/MMDE258D	3D Printing and Robotic Simulation Programming	1	MCQ	1 Hour

15 Engineering Analysis & Design

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

Engineering Analysis & 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

MMEA258A

MMEA258B

MME258D	Introduction Augmented Reality	1	MCQ
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16 Machine Design

MMMD/MMDE258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ
MMMD/MMDE258B	Python Programming for Beginners	1	MCQ
MMMD/MMDE258C	Multi-Body Simulation using VTU's CoE Software	1	MCQ
MMMD/MMDE258D	3D Printing and Robotic Simulation	1	MCQ

17 Material Science & Technology

MMST258A	IoT in manufacturing	1	Theory
MMST258B	MICRO MACHINING PROCESSES	1	Theory
MMST258C	ARTIFICIAL INTELLIGENCE IN MANUFACTURING	1	Theory
MMST258D	MACHINE LEARNING	1	Theory

18 Tool Engineering

MMTE258A	Interview Preparation	1	
MMTE258B	Cyber Security	1	
MMTE258C	Ethical hacking	1	
MMTE258D	Innovation and Design Thinking	1	

19 Thermal Power Engineering/Thermal Engineering

MMTP258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ
MMTP258B	Python Programming for Beginners	1	MCQ
MMTP258C	3D Printing and Robotic Simulation	1	MCQ
MMTP258D	Numerical Heat Transfer using Spreadsheets	1	Practical

20 Mechatronics

MMTR258A	Fuzzy logic for Robotics	1	MCQ
MMTR258B	Introduction to Smart Factory and Industry 4.0	1	MCQ
MMTR258C	PLC AND SCADA TECHNOLOGY	1	MCQ
MMTR258D	BUSINESS ANALYTICS	1	MCQ

21 Defense Technology

MMDT258A	AI/ML using Python	1	
MMDT258B	MATLAB	1	
MMDT258C	Enhancing Self Competence and Developing Professional Skills	1	

MME258D	Introduction Augmented Reality	1	MCQ	1 Hour
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Machine Design

MMMD/MMDE258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ	1 Hour
MMMD/MMDE258B	Python Programming for Beginners	1	MCQ	1 Hour
MMMD/MMDE258C	Multi-Body Simulation using VTU's CoE Software	1	MCQ	1 Hour
MMMD/MMDE258D	3D Printing and Robotic Simulation Programming	1	MCQ	1 Hour

Material Science & Technology

MMST258A	IoT in manufacturing	1	Theory	2 Hours
MMST258B	MICRO MACHINING PROCESSES	1	Theory	2 Hours
MMST258C	ARTIFICIAL INTELLIGENCE IN MANUFACTURING	1	Theory	2 Hours
MMST258D	MACHINE LEARNING	1	Theory	2 Hours

Tool Engineering

MMTE258A	Interview Preparation	1		
MMTE258B	Cyber Security	1		
MMTE258C	Ethical hacking	1		
MMTE258D	Innovation and Design Thinking	1		

AEC Syllabus Is Missing

Thermal Power Engineering/Thermal Engineering

MMTP258A	Numerical Programming for Mechanical Engineers (Using MATLAB/NumPy)	1	MCQ	1 Hour
MMTP258B	Python Programming for Beginners	1	MCQ	1 Hour
MMTP258C	3D Printing and Robotic Simulation Programming	1	MCQ	1 Hour
MMTP258D	Numerical Heat Transfer using Spreadsheets	1	Practical	2 Hours

MMTP1258D

Defense Technology

MMTR258A	Fuzzy logic for Robotics	1	MCQ	1 Hour
MMTR258B	Introduction to Smart Factory and Industry 4.0	1	MCQ	1 Hour
MMTR258C	PLC AND SCADA TECHNOLOGY	1	MCQ	1 Hour
MMTR258D	BUSINESS ANALYTICS	1	MCQ	1 Hour

NO SYLLABUS

MMDT258D	Ethics, technology and Engineering	1	
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2.2 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

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

MMRM258B

2.3 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

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

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NANOTECHNOLOGY

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

NANOTECHNOLOGY

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

2 Nano Science & Technology (Uni Dept)

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

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

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

TEXTILE TECHNOLOGY

MJTT258A	Developments in Fabric Formation	1	Theory	2 Hours
MJTT258B	Biotechnology Applications in Textile Industry	1	Theory	2 Hours
MJTT258C	Medical Textiles	1	Theory	2 Hours
MJTT258D	Human Resource Management	1	Theory	2 Hours

1 Master of Computer Application (MCA)

Ability Enhancement Courses with Seminar-I	
Mandatory Course (NCMC), Students have to select the Topic like ERP, R	

Master of Computer Application (MCA)

NO SYLLABUS OF	
Ability Enhancement Courses with Seminar-I	

2 M.Sc. in Chemistry

MSC257 (AEC / AUD)	Research Methodology and IPR	PP
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M.Sc. in Chemistry

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