





ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟೆಯು 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, Ka rnataka, India

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

REF: VTU/BGM/BOS/AEC-SEE details/2023-24/4-982

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DATE:

CIRCULAR

Subject:SEE details of the courses of AEC of 3rd semester 2022 scheme regarding...Reference:Approved by the Chairpersons BoS VTU Belagavi.

The 2022 scheme contains one credit course under the Ability enhancement/Skill enhancement category, out of which employ the semester-end evaluation (SEE) pattern, either **MCQ / Practical /Theory**. This circular includes a list of AEC courses of the 3rd semester 2022 scheme UG programs, as well as SEE information.

All the principals of affiliated and constituent engineering colleges are hereby informed to bring the content of the circular to the notice of all students and teachers concerned. If any clarification is needed email to **sbhalbhavi@vtu.ac.in**.

Thanking you

Kanalin REGISTRAR

To,

- 1. All the Principals of all affiliated, constituent Engineering Colleges under the ambit of the university.
- 2. The Chairpersons /Program Coordinator of the University departments at Kalaburagi, Mysuru Belagavi, and Muddenhalli Bengaluru

CC to

- The Hon'ble Vice-Chancellor through the secretary to VC for information
- The Registrar (Evaluation) for information
- The Dean Faculty of Engineering, VTU Belagavi

• The Director ITI, SMU VTU Belagavi for information and request to upload the circular on VTU web portal.

The Office copy

Ability Enhancement Course / Skill Enhancement Course CIVIL ENGINEERING

		CIVIL ENGINEERING		-	
S.NO.	Subject Code	Subject Tittle	SEE Options	SEE Duration	REMARKS
1	BCV358A	Data analytics with Excel - IBM	Practicle	2 Hours	
2	BCV358B	Smart Urban Infrastructure	MCQ	1 Hour	Departicular way Def. Ch.
3 4	BCV358C	Problem Solving with PYTHON	Practical	1 Hour	Practical as per BoS Ch.
4	BCV358D	Personality Development for Civil Engineers Mining Engineering	MCQ	1 Hour	
1	BMNL358A	Mastering Office	Practicle	2 Hours	-
2	BMN358B	Personality Development and Soft Skills	MCQ	1 Hour	
3	BMNL358C	Programming in C++	MCQ	1 Hour	
		Computer Science & Engineering			
1	BCS358A	Data analytics with Excel	Practicle	2 Hours	
2	BCS358B	R Programming	Practicle	2 Hours	
3	BCS358C BCS358D	Project Management with Git Data Visualization with Python	Practicle Practicle	2 Hours 2 Hours	
4	0033360	Computer Engineering	riacticle	2110013	
1	BCE358A /BCS358A	Data analytics with Excel	Practicle	2 Hours	
2	BCE358B /BCS358B	R Programming	Practicle	2 Hours	
3	BCE358C/BCS358C	Project Management with Git	Practicle	2 Hours	
4	BCE358D /BCS358D	Data Visualization with Python	Practicle	2 Hours	
		Artificial Intelligence & Data Science		-	
1	BAD358A	Data Analytics with Excel	Practical	3 Hours	
2 3	BAD358B BAD358C	Ethics and Public Policy for AI Project Management with Git	Theory Practicle	2 Hours 2 Hours	
4	BAD358D	PHP Programming	Practicle	2 Hours	
	5/100000	Artificial Intelligence and Machine Learning	Tracticie	2110015	
1	BAI358A	Data Analytics with Excel	Practical	3 Hours	
2	BAI358B	Ethics and Public Policy for Al	Theory	2 Hours	
3	BAI358C	Project Management with Git	Practicle	2 Hours	
4	BAI358D	PHP Programming	Practicle	2 Hours	
		Biotechnology			
1	BBT358A BBT358B	Bio-Lab Management and Risk Assessment Data presentation, Error Analysis and Inferences	MCQ MCQ	1 Hour 1 Hour	
3	BBTL358C	Analysis Of Dairy Products Lab	Practicle	2 Hours	
4	BBT358D	Biodiversity and Conservation Law	MCQ	1 Hour	
		Computer & Communication Engineering			
1	BCM358A	Data analytics with Excel	Practicle	2 Hours	
2	BCM358B	R-Programming	Practicle	2 Hours	
3	BCM358C	Project management with Git	Practicle	2 Hours	
4	BCM358D	Data Visualization with Python	Practicle	2 Hours	
1	BCB358A	Computer Science & Business System	Practicle	2 Hours	
2	BCB358A BCB358B	Data analytics with Excel R-Programming	Practicle	2 Hours 2 Hours	
3	BCB358C	Project management with Git	Practicle	2 Hours	
4	BCB358D	Data Visualization with Python	Practicle	2 Hours	
		Computer Science & Design			
1	BCG358A	Web Application Design with HTML and PHP	Practicle	2 Hours	
2	BCG358B	R-Programming	Practicle	2 Hours	
3	BCG358C	Project Management with Git	Practicle	2 Hours	
4	BCG358D	Data Visualization with Phyton Computer Science & Engineering (IoT)	Practicle	2 Hours	
1	BCO358A	Embedded C	Practicle	2 Hours	
2	BCO358B	R-Programming	Practical	2 Hours	
3	BCO358C	Project Management with Git	Practical	2 Hours	
4	BCO358D	Data Visualization with Phyton	Practical	2 Hours	
		CSE (Artificial Intelligence & Machine Learning)			
1	BCI358A	Data Analytics with Excel	Practicle	2 Hours	
2	BCI358B BCI358C	Ethics and Public Policy for Al	Theory	3 Hours	
3	BCI358D	Project Management with Git PHP Programming	Practicle Practicle	2 Hours 2 Hours	
	5015500	CSE (Artificial Intelligence)		2110013	
1	BCA358A	Data Analytics with Excel	Practicle	2 Hours	
2	BCA358B	Ethics and Public Policy for AI	Theory	3 Hours	
3	BCA358C	Project Management with Git	Practicle	2 Hours	
		CSE (Cyber Security)			
1	BCY358A	Cyber Crime & Cyber Laws	Theory	2 Hours	
2	BCY358B	Incident Management in Cyber Security Project Management with Git	Theory	2 Hours	
3	BCY 358C /BS358C BCY 358D /BCS358D	Project Management with Git Data Visualization with Phyton	Practical Practical	2 Hours 2 Hours	
		CSE (Data Science)			
1	BCD358A /BCS358A	Data Analytics with Excel	Practicle	3 hours	
2	BCD358B /BCS358B	Ethics and Public Policy for Al	Theory	2 Hours	
3	BCD358C /BCS358C	Project Management with Git	Practical	2 Hours	
4	BCD358D /BCS358D	PHP Programming	Practicle	2 Hours	
	B100563 (55.5.5	CSE (IoT & Cyber Security including Block Chain Technology)			
1	BIC358A /BCY358A	Cyber Crime & Cyber Laws	Theory	2 Hours	
2	BIC358B/BCY358B BIC358C/BCY358C	Incident Management in Cyber Security Project Management with Git	Theory Practical	2 Hours 3 hours	
3 4	BIC358C/BCY358C BIC358D/BCY358D	Data Visualization with Python	Practical	3 hours 3 hours	
	5.00000 0010000	Data Science	uctical	5 110013	
1	BDS358A	Data Analytics with Excel	Practicle	2 Hours	
2	BDS358B	Ethics and Public Policy for AI	Theory	3 Hours	
3	BDS358C	Project Management with Git	Practical	2 Hours	
4	BDS358D	Data Visualization with Phyton	Practical	2 Hours	
		Information Science & Engineering			
1	BIS358A/BCS358A	Data analytics with Excel	Practicle	2 Hours	
2	BIS358B /BCS358B BIS358C/BCS358C	R programming	Practicle	2 Hours	
3	5133366/5653586	Project Management with Git	Practical		1

4	DICOLOD (DCCCCCOD				
1	BIS358D/BCS358D	Data Visualization with Phyton	Practicle	2 Hours	
1		Computer Science			
	BCS358A	Data analytics with Excel	Practicle	2 Hours	
2	BCS358B	R programming	Practical	2 Hours	
3	BCS358C	Project Management with Git	Practical	2 Hours	
4	BCS358D	Data Visualization with Python	Practicle	2 Hours	
		Electronics & Communication Engg			
1	BEC358A	LABVIEW programming	Practical	2 Hours	
2	BEC358B	MATLAB Programming	MCQ	1 Hours	
3	BEC358C	C++ Basics	Practical	2 Hours	
4	BEC358D	IOT for Smart Infrastructure	MCQ	1 Hours	
		Biomedical Engineering			
1	BBM358A	Human Anatomy and Physiology	MCQ	1 Hours	
2	BBM358B	Network Analysis	MCQ	1 Hours	
3	BBML358C	Digital Design Lab using Pspice / MultiSIM	Practicle	2 Hours	
4	BBML358D	AEC Lab using Pspice / MultiSIM	Practicle	2 Hours	
		Electrical & Electronics Engineering			
1	BEEL358A	SCI LAB/MATLAB for Transformers and Generators	Practicle	3 Hours	
2	BEEL358B	555 IC Laboratory	Practicle	3 Hours	
3	BEEL358C	Circuit Laboratory using P Spice	Practicle	3 Hours	
4	BEEL358D	Electrical Hardware Laboratory	Practicle	3 Hours	
		Electronics & Instrumentation Engineering			
1	BEI358A	Static & Dynamic Characteristics and Error Analysis in Instrumentation Systems	MCQ	1 Hour	
2	BEI358B	Network Analysis	MCQ	1 Hour	
3	BEI358C	Digital Design Lab using Pspice / MultiSIM	Practicle	2 Hours	
4	BEI358D	AEC LAB USING PSPICE /MULTISIM / COMSOL	Practicle	2 Hours	
		Electronics & Telecommunication Engg			
1	BEC358A	LABVIEW programming	Practical	2 Hours	
2	BEC358B	MATLAB Programming	MCQ	1 Hours	
3	BEC358C	C++ Basics	Practical	2 Hours	
4	BEC358D	IOT for Smart Infrastructure	MCQ	1 Hour	
		Industrial IoT			
1	BIO358A	Robotics and Industrial Automation Lab-Design Robots-Level1	1		
2	BIO358B	Lab VIEW -Graphical Programming -Level1	İ	No Syllabus	
3	BIO358C	IOT-Connecting the World - Level1	1		
		Electronics Engg (VLSI Design and Technology)			
1	BEC358A	UNIX Programming	Practical	2 Hours	
2	BEC358B	Circuit Laboratory using P-spice	Practical	2 Hours	
3	BEC358C	Digital Engineering Course (NASSCOM)	Tractical	2110013	
4	BEC358D	IoT (Internet of Things) Lab	Practical	2 Hours	
	5205505	Electronics and Computer Engineering	ridettedi	2110415	
1	BUEL358A	Applications of 8051 Microntroller	Practical	2 Hours	
2	BUEL358B	Risk Management in IoT Implementation	MCQ	1 Hours	
3	BUEL358C	PCB Design using EDA Tool	MCQ	1 Hours	
	DOLLSSOC	Aeronautical Engineering	wicq	1110013	
1	BAE358A/ BAS358A	Development of Soft Skills for Engineers	MCQ	1 Hour	
2	BAE358B/ BAS358A BAE358B/ BAS358B	Ethics, Technology and Engineering	MCQ	1 Hour	
3	BAE358B/ BAS358B	Digitalization in Aeronautics	MCQ	1 Hour	
4	BAE358D/ BAS358D	Coding literacy	MCQ	1 Hour	
4	BAE3360/ BA33360	Aerospace Engineering	IVICQ	THOU	
1	BAS358A/ BAE358A	Development of Soft Skills for Engineers	MCQ	1 Hour	
1	BASSSON BALSSON	Development of soft skills for Engineers		1 Hour	
		Ethics, Technology and Engineering			
2	BAS358B/ BAE358B	Ethics, Technology and Engineering	MCQ		
2 3	BAS358C	Digitalization in Aerospace Engineering	MCQ MCQ	1 Hour	
2		Digitalization in Aerospace Engineering Coding Literacy	MCQ		
2 3 4	BAS358C BAS358D/ BAE358D	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering	MCQ MCQ MCQ	1 Hour 1 Hour	
2 3 4 1	BAS358C BAS358D/ BAE358D BAGL358A	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2]	MCQ MCQ MCQ MCQ	1 Hour 1 Hour 1 Hour	
2 3 4 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAG358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0]	MCQ MCQ MCQ MCQ MCQ	1 Hour 1 Hour 1 Hour 1 Hour	
2 3 4 1 2 3	BAS358C BAS358D/ BAE358D BAGL358A BAG358B BAGL358C	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2]	MCQ MCQ MCQ MCQ MCQ Practicle	1 Hour 1 Hour 1 Hour 1 Hour 2 Hours	
2 3 4 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAG358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2]	MCQ MCQ MCQ MCQ MCQ	1 Hour 1 Hour 1 Hour 1 Hour	
2 3 4 1 2 3 4	BAS358C BAS358D/ BAE358D BAGL358A BAG358B BAGL358C BAGL358D	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics	MCQ MCQ MCQ MCQ Practicle Practicle	1 Hour 1 Hour 1 Hour 1 Hour 2 Hours 2 Hours	
2 3 4 1 2 3 4 1	BAS358C BAS358D/ BAE358D BAGL358A BAGL358B BAGL358C BAGL358D BAGL358D BRA358A	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python	MCQ MCQ MCQ MCQ Practicle Practicle Practicle	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours	
2 3 4 1 2 3 4 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAGL358B BAGL358C BAGL358D BRA358A BRA358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours	
2 3 4 1 2 3 4 1 2 3 3	BAS358C BAS358D/ BAE358D BAGL358A BAG1358B BAGL358C BAGL358D BRA358A BRA358B BRA358B BRA358C	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practicle MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours 1 Hours	
2 3 4 1 2 3 4 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAGL358B BAGL358C BAGL358D BRA358A BRA358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours	
2 3 4 1 2 3 4 1 2 3 4	BAS358C BAS358D/ BAE358D BAG1358A BAG358B BAG1358C BAG1358D BRA358A BRA358A BRA358B BRA358B BRA358C BRA358D	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practical MCQ MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours 1 Hours 1 Hours	
2 3 4 1 2 3 4 1 2 3 4 4 1 1	BAS358C BAS358D/ BAE358D BAG1358A BAG358B BAG1358C BAG1358D BRA358A BRA358A BRA358B BRA358C BRA358D BRA358D BRA358D	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C++ Automobile Engineering Rural Development	MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practicle MCQ MCQ MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours 1 Hours 1 Hours 1 Hour	
2 3 4 1 2 3 4 1 2 3 4 1 2 3 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAGL358B BAGL358C BAGL358D BRA358A BRA358B BRA358B BRA358B BRA358C BRA358C BRA358D BRA358A BAU358A BAU358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practical MCQ MCQ MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours 1 Hours 1 Hours 1 Hour 1 Hours	
2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 2 3	BAS358C BAS358D/ BAE358D BAGL358A BAG1358B BAGL358C BAGL358D BRA358A BRA358B BRA358B BRA358C BRA358D BAU358A BAU358B BAU358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practicle MCQ MCQ MCQ Practical	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours 1 Hours 1 Hours 1 Hours 2 Hours 2 Hours	
2 3 4 1 2 3 4 1 2 3 4 1 2 3 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAGL358B BAGL358C BAGL358D BRA358A BRA358B BRA358B BRA358B BRA358C BRA358C BRA358D BRA358A BAU358A BAU358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS Clay modelling	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practical MCQ MCQ MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours 1 Hours 1 Hours 1 Hour 1 Hours	
2 3 4 1 2 3 4 1 2 3 4 1 2 3 4	BAS358C BAS358D/ BAE358D BAGL358A BAG358B BAGL358C BAGL358C BRA358B BRA358B BRA358B BRA358C BRA358D BAU358A BAU358A BAU358B BAU358B BAU358C BAU358D	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS Clay modelling Chemical Engineering	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practicle MCQ MCQ MCQ MCQ Practical MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hour	
2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4	BAS358C BAS358D/ BAE358D BAG1358A BAG358B BAG1358C BAG1358C BRA358A BRA358B BRA358B BRA358B BRA358C BRA358D BAU358A BAU358B BAU358C BAU358C BAU358A	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C +++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS Clay modelling Chemical Engineering Advanced MS Excel for Chemical Engineers	MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practical MCQ MCQ MCQ Practical MCQ Practical Practical	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hours 3 hours 3 hours 1 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hours 3 hours 1 Hour	
2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAGL358C BAGL358C BAGL358C BAGL358D BRA358A BRA358B BRA358C BRA358D BAU358A BAU358B BAU358B BAU358B BAU358D BAU358A BAU358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS Clay modelling Chemical Engineering Advanced MS Excel for Chemical Engineers Personality Development Skills	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practical MCQ MCQ MCQ Practical MCQ Practical MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hour	
2 3 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 1 2 3 3 4 2 3 3	BAS358C BAS358D/ BAE358D BAGL358A BAG1358C BAGL358C BAGL358D BRA358A BRA358B BRA358C BRA358D BAU358A BAU358B BAU358B BAU358C BAU358A BAU358A BAU358B BAU358A BAU358B BAU358A BAU358A BAU358A BAU358A BAU358A BCH1358A BCH358A	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS Clay modelling Advanced MS Excel for Chemical Engineers Personality Development Skills Understanding equipment Data Sheet	MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practicle Practical MCQ MCQ MCQ Practical MCQ Practical MCQ Practical MCQ Practical MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hours 2 Hours 2 Hours 1 Hours 2 Hours 2 Hours 1 Hours 2 Hours 1 Hours 2 Hours 1 Hours 2 Hours 1 Hours 2 Hours 1 Hours 2 Hours 1 Hours 1 Hours 2 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hour	
2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2	BAS358C BAS358D/ BAE358D BAGL358A BAGL358C BAGL358C BAGL358C BAGL358D BRA358A BRA358B BRA358C BRA358D BAU358A BAU358B BAU358B BAU358B BAU358D BAU358A BAU358B	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS Clay modelling Chemical Engineering Advanced MS Excel for Chemical Engineers Personality Development Skills Understanding equipment Data Sheet Career Options after Engineering	MCQ MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practical MCQ MCQ MCQ Practical MCQ Practical MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hour	
2 3 4 1 2 3 3 4 1 2 3 3 4 1 2 3 3 4	BAS358C BAS358D/ BAE358D BAGL358A BAG358B BAGL358C BAGL358C BRA358D BRA358B BRA358C BRA358D BAU358C BAU358B BAU358C BAU358D BAU358D BAU358D BAU358D BAU358D BCHL358A BCH358B BCH358C BCH358C	Digitalization in Aerospace Engineering Coding Literacy Agricultural Engineering Advanced Python Programming [0-0-2] Fundamentals of Virtual Reality [0-2-0] Spreadsheet for Engineers [0-0-2] Tools in Scientific Computing [0-0-2] Automation and Robotics Introduction to Python Applications of MATLAB Fundamentals of Virtual Reality APP Development Introduction to C ++ Automobile Engineering Rural Development BHARAT STAGES (BS) OF EMISSION STANDARDS EXCEL SHEET FOR ENGINEERS Clay modelling Advanced MS Excel for Chemical Engineers Personality Development Skills Understanding equipment Data Sheet Career Options after Engineering Industrial & Production Engineering	MCQ MCQ MCQ Practicle Practicle Practicle Practicle Practical MCQ MCQ MCQ Practical MCQ Practical MCQ Practical MCQ Practical MCQ Practical MCQ	1 Hour 1 Hour 1 Hour 2 Hours 2 Hours 3 Hours 3 Hours 1 Hours 1 Hours 1 Hours 2 Hours 1 Hours 1 Hours 2 Hours 1 Hours 2 Hours 2 Hours 1 Hours 2 Hours 1 Hours 2 Hours	
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]		Mechanical & Smart Manufacturing			
1	BMM358A	Introduction to Virtual Reality	MCQ	1 Hours	
2	BMM358B	Data Base Management Systems	MCQ	1 Hour	
3	BMM358C	Introduction to Block Chain	MCQ	1 Hour	
		Mechanical Engineering			
1	BMEL358A	Advanced Python Programming [0-0-2]	Practicle	2 Hours	
2	BME358B	INTRODUCTION TO VIRTUAL REALITY	MCQ	1 Hour	
3	BMEL358C	Spreadsheet for Engineers [0-0-2]	Practicle	3 Hours	
4	BMEL358D	Tools in Scientific Computing [0-0-2]	Practicle	3 Hours	
		Mechatronics			
1	BMTL358A	Programming in Python (002)	Practicle	3 Hours	
2	BMT358B	Trends in Digital Manufacturing	MCQ	1 Hour	
3	BMTL358C	PCB Design Technology (002)	Practicle	3 Hours	
4	BMT358D	Robotics Ecosystem	MCQ	1 Hour	
		Robotics & Automation			
1	BRA358A	Introduction to Python	Practicle	3 Hours	
2	BRA358B	Applications of MATLAB	Practical	2 Hours	
3	BRA358C	Fundamentals of Virtual Reality APP Development	MCQ	1 Hours	
4	BRA358D	Introduction to C ++	MCQ	1 Hours	
		Robotics and Artificial Intelligence			
1	BRI358A	Data Structures and Algorithms Lab	Practical	2 Hours	
2	BRI35L8B	Applications of MAT LAB	Practical	2 Hours	
3	BRIL358C	Fundamentals of Virtual Reality and App Development	MCQ	1 Hours	
4	BRIL358D	Introduction to C++ Programming	MCQ	1 Hours	
		Silk Technology			
1	BTX358A	Introduction to Polymers	MCQ	1 Hours	
2	BTXL358B	Identification of Fibres-lab	Practical	3 hours	
3	BTXL358C	Engineering with Microsoft Office-lab	Practical	3 hours	
4	BTX358D	Medical Textiles	Theory	2 Hours	
		Textile Technology			
1	BTX358A	Introduction to Polymers	MCQ	1 Hours	
2	BTXL358B	Identification of Fibres-lab	Practical	3 hours	
3	BTXL358C	Engineering with Microsoft Office-lab	Practical	3 hours	
4	BTX358D	Medical Textiles	Theory	2 Hours	
		Electronics Communication Engg (Advance Communication Technology)			
1	BEA358A	LICs Lab using PSPICE	No Syllabus		
2	BEA358B	Simulink Programming Basics	No Syllabus		
3	BEA358C	Digital Engineering Course (NASSCOM)	No Syllabus		
4	BEA358D	IOT for Smart Infrastructure	No Syllabus		
		Smart Agritech			
1	BSAL358A	Advanced Python Programming	Practicle	3 Hours	
2	BSA358E	Personality Development & Soft Skills	MCQ	1 Hour	
3	BSAL358C	Spreadsheet for Engineers	Practicle	3 Hours	
4	BSA358D	Importance of Solar Energy in Agriculture	MCQ	1 Hour	