



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

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REF: VTU/BGM/BoS/AEC-SEE/698/2024-25/ 5760

DATE: 11 FEB 2025

CIRCULAR

Subject: Verification of **Draft** SEE Details of 6th Semester UG Programs Ability Enhancement Courses regarding

Reference: AEC 6th semester 2022 scheme courses

All Chairpersons and members of the Board of Studies, and relevant faculty of affiliated engineering colleges are informed to **review** the SEE details of the 6th semester UG programs' Ability Enhancement Courses (AEC) provided in the attached file. Any discrepancies or necessary corrections should be reported to the university at the earliest via email (sbhvtuso2022@gmail.com) on or before 20.02.2025. Please ensure the verification process is completed, and feedback is submitted to the undersigned by the given deadline.

No further changes will be made once the final SEE details for the 6th semester AEC courses are published after 21.02.2025.

All principals of engineering colleges under the university's jurisdiction and chairpersons/Program coordinators of university departments are informed to bring the contents of the circular to the attention of all concerned faculty.

R
11/02/25
Registrar
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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
The Chairpersons and Members of the Board of Studies VTU Belagavi

Copy to

1. The Registrar (Evaluation) VTU Belagavi for information and needful
2. The Director, ITI SMU VTU Belagavi, for information and to make arrangements to upload the circular on the VTU web portal for stakeholders' reference.
3. The Special Officer, QPDS section for information and needful
4. Office Copy.

2022 Ability Enhancement Course (6th semester) SEE details

6/1/2025

Course Code	Course Title	SEE Type	SEE Durations	Correction Required/ Suggestions	To be read as
B.E. in Civil Engineering					
BCV657A	Building Information Modelling - Advanced	Practical	2 Hours		
BCV657B	Structural Health Monitoring Using Sensors	MCQ	1 Hour		
BCV657C	Data Analytics for Civil Engineers	MCQ	1 Hour		
BCV657D	Quality Control and Quality Assurance	MCQ	1 Hour	BCV657B in Syllabus	BCV657D
B.E. in Mining Engineering					
BMN657A	Introduction to IOT	Practical	2 Hours		
BMN657B	Gender Sensitisation	MCQ	1 Hour		
BMN657C	Industry 4.0	MCQ	1 Hour		
BMN657D	Data analytics with Excel	Practical	2 Hours		
B.E. in Computer Science and Engineering					
BISL657A	Tosca – Automated Software testing	Practical	2 Hours		
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Computer Engineering					
BISL657A	Tosca – Automated Software testing	Practical	2 Hours		
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Artificial Intelligence & Data Science					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BADL657B	UI/UX	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Artificial Intelligence & Machine Learning					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BADL657B	UI/UX	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Biotechnology					
BBT657A	Bio-Innovation and Start-ups	MCQ	1 Hour		
BBTL657B	Bioinstrumentation and Servicing Lab	Practical	2 Hours		
BBTL657C	Modelling and Simulations in Biology Lab	Practical	2 Hours		
BBT657D	Good Manufacturing and Laboratory Practices	MCQ	1 Hour		
B.E. in Computer and Communication Engineering					
BISL657A	Tosca – Automated Software testing	Practical	2 Hours	BIS657A in Syllabus	BISL657A
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		

BCSL657D	Devops	Practical	2 Hours		
B.E. in Computer Science and Business System					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Computer Science and Design					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in the Computer Science and Engineering(IoT)					
BISL657A	Tosca – Automated Software testing	Practical	2 Hours	BIS657A in Syllabus	BISL657A
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Computer Science & Engineering(Artificial Intelligence & Machine Learning)					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BADL657B	UI/UX	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in CSE (Artificial Intelligence)					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BADL657B	UI/UX	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in CSE (Cyber Security)					
BCYL657A	Industrial Cyber Security	Practical	2 Hours		
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in CSE (Data Science)					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BADL657B	UI/UX	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in the Computer Science and Engineering(IoT & Cyber Security including Blockchain)					
BCYL657A	Industrial Cyber Security	Practical	2 Hours		
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		

BCSL657D	Devops	Practical	2 Hours		
B.E. in Data Science					
BCGL657A	Mobile Application Development with Flutter	Practical	2 Hours		
BADL657B	UI/UX	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Information Science and Engineering					
BISL657A	Tosca – Automated Software testing	Practical	2 Hours		
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Computer Science					
BISL657A	Tosca – Automated Software testing	Practical	2 Hours	BIS657A in Syllabus	BISL657A
BCSL657B	React	Practical	2 Hours		
BAIL657C	Generative AI	Practical	2 Hours		
BCSL657D	Devops	Practical	2 Hours		
B.E. in Electronics and Communication Engineering					
BEC657A	FPGA System Design using Verilog LAB	Practical	2 Hours	BECL657A	FPGA Based System design Lab Using Verilog
BEC657B	System Modelling using Simulink	Practical	2 Hours	BECL657B	
BEC657C	IOT Lab	Practical	2 Hours	BECL657C	
BEC657D	Python Programming for Machine Learning Applications	Practical	2 Hours	BECL657D	
B.E. in Bio Medical Engineering					
BBM657A	Medical Device Development	Theory	3 Hours		
BBM657B	Sensor and medical lot	Theory	3 Hours		Wearable Sensors and Medical IoT
BBM657C	Optical Instrumentation	Theory	3 Hours		
BBM657D	Brain Computer Interface	Theory	3 Hours		
B.E. in Electrical & Electronics Engineering					
BEE657A	Energy Management in Electric Vehicle	MCQ	1 Hour		
BEEL657B	Simulation of Control of Power Electronics Circuits	Practical	2 Hours		
BEEL657C	Energy Audit Project	Practical	2 Hours		
BEEL657D	Project on Renewable Energy Sources	Practical	2 Hours		
B.E. in Electronics and Instrumentation Engineering					
BEI657A	Integrated Systems Lab	Practical	2 Hours		
BEI657B	Java Programming	MCQ	1 Hour		
BEI657C	Network Security	MCQ	1 Hour		
BEI657D	Machine Learning using Python	MCQ	1 Hour		Machine Learning using Python
B.E. in Electronics and Telecommunication Engineering					
BEC657A	FPGA System Design using Verilog LAB	Practical	2 Hours	BECL657A	BECL657A
BEC657B	System Modelling using Simulink	Practical	2 Hours	BECL657B	BECL657B

BEC657C	IOT Lab	Practical	2 Hours	BECL657C	BECL657C
BEC657D	Python Programming for Machine Learning applications	Practical	2 Hours	BECL657D	BECL657D
B.E. in Electronics Engineering (VLSI Design and Technology)					
BVL657A	Static Timing Analysis Lab			BVLL657A	}
BEC657B	System Modelling using Simulink			BECL657B	
BEC657C	IOT Lab			BECL657C	
BEC657D	Python Programming for Machine Learning Applications			BEC657D	
B.Tech.in Electronics and Computer Engineering					
BUE657A	Latex Software	Practical	2 Hours		
BUE657B	Aptitude – Verbal, Numerical and Logical Reasoning	MCQ	1 Hour		
BUEL657C	Advanced Python Programming	Practical	2 Hours		
BUEL657D	Web Programming	Practical	2 Hours		
B.E. in Aeronautical Engineering					
BAE657A/ BAS657A	Probability and statistics for Aerospace Engineering	MCQ	1 Hour		
BAE657B/ BAS657B	Virtual Aircraft Simulation	MCQ	1 Hour		
BAE657C	Introduction to Swarm Drone	MCQ	1 Hour		
BAE657D	Multi-disciplinary Research in Aeronautical Engineering	MCQ	1 Hour		
B.E. in Aerospace Engineering					
BAS657A/ BAE657A	Probability and statistics for Aerospace Engineering	MCQ	1 Hour		
BAS657B/ BAE657B	Virtual Aircraft simulation	MCQ	1 Hour		
BAS657C	Introduction to Data Analytics	MCQ	1 Hour		
BAS657D	Air and Missile Defence Systems	MCQ	1 Hour		
B.E. in AGRICULTURAL ENGINEERING					
BAG657A	Digital Society [0-2-0]	MCQ	1 Hour		
BAG657B	Fundamental of Virtual Reality ARP Development	MCQ	1 Hour		
BAG657C	Spread sheets for Engineers	Practical	2 Hours	03 hours in Syllabus	02 Hours
BAG657D	Introduction Augmented Reality	MCQ	1 Hour		
B.E. in Automobile Engineering					
BAU657A	Automotive Heating, Ventilation and Air conditioning	MCQ	1 Hour		
BAU657B	Digital Twin	MCQ	1 Hour		
BAU657C	Programming for Automobile engineers (LAB)	Practical	3 Hours		
BAU657D	Battery management system	MCQ	1 Hour		
B.E. in Chemical Engineering					
BCH657A	Technical Report writing and Presentation skills	Theory paper	1 Hour	General Theory (Exam 2 Hours)(Ch. BoS)	
BCH657B	Introduction to start-ups	MCQ	1 Hour		
BCH657C	Problem Based learning	MCQ	1 Hour		
BCH657D	Project Management	MCQ	1 Hour		
B.E. in Industrial and Production Engineering					
BIP657A	Elements of Developing Management Skills	MCQ	1 Hour		
BIP657B	Basics of Rapid Prototyping	MCQ	1 Hour		
BIP657C	Introduction to Maintenance Engineering	MCQ	1 Hour		

BIPL657D	Basics of IIOT (Laboratory)	Practical	2 Hours		
B.E. in Marine Engineering					
BMR657A	Economics for Engineers (1-0-0-0)	MCQ	1 Hour		
BMR657B	Sensors and actuators (1-0-0-0)	MCQ	1 Hour		
BMR657C	Digital Marketing (1-0-0-0)	MCQ	1 Hour		
BMR657D					
B.E. in Mechanical and Smart Manufacturing					
BMM657A	Introduction to Cloud Computing	Theory	3 Hours		
BMM657B	Cyber Security	Theory	3 Hours		
BMM657C					
BMM657D					
B.E. in Mechanical Engineering					
BME657A	Basics of Matlab [0-0-2]	Practical	2 Hours		
BME657B	Fundamental of Virtual Reality ARP Development	MCQ	1 Hour		
BME657C	Simulation and Analysis using Ansys workbench [0-0-2]	Practical	2 Hours		
BME657D	Introduction Augmented Reality	MCQ	1 Hour		
B.E. in Mechatronics Engineering					
BMT657A	MATLAB for Mechatronics (0-0-2)	Practical	2 Hours		
BMT657B	Embedded systems (0-0-2)	Practical	2 Hours		
BMT657C	Finite Element Modelling and Analysis (0-0-2)	Practical	2 Hours		
BMT657D	AI and ML (0-0-2)	Practical	2 Hours		
B.E. in Robotics & Automation					
BRA657A	Design of Robotic Components	MCQ	1 Hour		
BRA657B	Business Analytics	MCQ	1 Hour		
BRA657C	Operations Management	MCQ	1 Hour		
BRA657D	Total Quality Management	MCQ	1 Hour		
B.E. in Robotics & Artificial Intelligence					
BRI657A	Application of Raspberry Pi Controllers	Practical	2 Hours	03 hour in Syllabus	02 hours with CIE-50, SEE -50 Marks
BRI657B	R Programming	Practical	2 Hours		
BRI657C	FEA Lab	Practical	3 Hours		
BRI657D	Ethics and Public Policy for AI	MCQ	1 Hour		
B. Tech. in Silk Technology					
BTX657A	Pattern Engineering Draping of Garments	Theory	2 Hours	SEE-THEORY (GENERAL QUESTION PAPER TYPE)	
BTXL657B	Fashion Accessories- lab	Practical	2 Hours		
BTXL657C	Computer Aided Textile Designing- lab	Practical	2 Hours		
BTXL657D	Textile Recycling and Fashion Up cycling- lab	Practical	2 Hours		
B. Tech. in Textile Technology					
BTX657A	Pattern Engineering and Draping of Garments	Theory	2 Hours	SEE-THEORY (GENERAL QUESTION PAPER TYPE)	
BTXL657B	Fashion Accessories- lab	Practical	2 Hours		

BTXL657C	Computer Aided Textile &Garment Designing -lab	Practical	2 Hours	Computer Aided Textile Designing in Syllabus	Computer Aided Textile &Garment Designing -lab
BTXL657D	Textile Recycling and Fashion Up Cycling -lab	Practical	2 Hours		
B.E. in SMART AGRITECH					
BSA657A	Digital Marketing	MCQ	1 Hour		
BSA657B	Agri-Innovations and Start-Ups	MCQ	1 Hour		
BSA657C	Fundamentals of Virtual Reality ARP Development	MCQ	1 Hour		
BSA657D	Introduction Augmented Reality	MCQ	1 Hour		