



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟಿಯಲಧಿನಿಯಮ ೧೯೯೪ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

Prof. B. E. Rangaswamy, Ph.D

Phone: (0831) 2498100

REGISTRAR

Fax: (0831) 2405467

REF: VTU/BGM/ACA/2023/ 2290

DATE: 28 JUL 2023

### CIRCULAR

**Subject:** SEE details of the courses of 01 credit of 2021 scheme regarding...

This is reference to the subject cited above, a practical evaluation with 02-03 hours duration or a 50 MCQ (Most Choice Questions) paper with a one-hour duration limit will be used for the Semester-Ending Evaluation (SEE) of the one credit course that falls under the Ability enhancement/Skill enhancement course category in the 2021 scheme. The SEE of 01 credit course is referred to as a theoretical exam equivalent to 03 credits courses in a few courses since incorrect templates were used.

All students and faculty members should adhere to the SEE information provided on the next page of this circular for 01 credit courses. All participants in these courses, including the faculty, are required to abide by the directives in the circular as of this notice.

All principals are thus instructed to share the information in the circular and the page attached with everyone concerned.

*Rs 28/1/23 KE*  
REGISTRAR  
*M.*

To,

1. All the Principals of Engineering Colleges under the ambit of the University

CC to

- The Chairpersons / Program Coordinator of the PG department of the University
- The Director ITI SMU for information and make arrangement to upload the circular on the VTU web portal
- Office file

**SEE details of the 01 Credit course of 2021 Scheme (4th semester)**

Sl No	Course	Code	Course Title	Credit	SEE
3	Common to All the Branche	21KSK37/47 HSMC	Sanskritika Kannada, / Balake kannada / Constitution of India and Professional Ethics	1	MCQ
4		21CIP37/47	Universal Human Values	1	MCQ
5		21BE45	Biology for Engineers	2	Theory
6	Aeronautical Engineering	21AE481	The Science of Well-being	1	MCQ
7		21AE482 /21AS482	Design Thinking for Innovation	1	MCQ
8		21AE483	Flight Mechanics- The basis	1	MCQ
9		21AE484 /21ASL481	Introduction to programming with MATLAB and Python	1	Practical
10	Aerospace Engineering	21AS483	High Temperature and Smart Materials	1	MCQ
11		21AS484	Introduction to Space Technology	1	MCQ
12	Architecture	21ARC46/21CIP47	Constitution of India and Professional Ethics	1	MCQ
13	B Plan	21CIP47	Constitution of India and Professional Ethics	1	Theory
14		21PLN48/21UH49	Universal Human Values	1	MCQ
15	Automobile Engineering	21AU481	Theory and Applications of Sensors and Actuators	1	MCQ
16		21AU482	Earth Moving Equipment	1	MCQ
17		21AU483	Autonomous vehicles	1	MCQ
18		21AU484	Drive Cycles of Electric Vehicles	1	MCQ
19	Biotechnology	21BT481	Hydroponics, Aquaponics and Aeroponics	1	MCQ
20		21BT482	Quality Control and Quality Assurance	1	MCQ
21		21BT483	Biopesticides and Biofertilizers	1	MCQ
22		21BT484	R Programming for Biologists	1	MCQ
23	Chemical Engineering	21CH481	Entrepreneurship Development	1	MCQ
24		21CH482	2 Data Analytics	1	MCQ
25	Civil Engineering	21CV481	Data Cleaning and Preparation with Python Pandas	1	MCQ
26		21CV482	GIS with Quantum GIS	1	MCQ
27		21CV483	Technical Writing Skills	1	MCQ
28		21CV484	Project Finance	1	MCQ
29		21CV485	Green Buildings	1	MCQ
30	Mining Engineering	21MN481	Technical Writing Skills	1	MCQ
31		21MNL482	Programming in Python	1	Practical
32		21MN483	Quantum GIS	1	Practical
33	Computer Science and Engineering	21CSL481	WEB PROGRAMMING	1	Practical
34		21CS482	UNIX SHELL PROGRAMMING	1	MCQ
35		21CSL483	R PROGRAMMING	1	Practical
36	Information Science and Engineering	21CSL481	Web Programming	1	Practical
37		21CS482	Unix Shell Programming	1	MCQ
38		21CSL483	R Programming	1	Practical
39	AIML	21CSL481	Web Programming	1	Practical
40		21CS482	Unix Shell Programming	1	MCQ
41		21CSL483	R Programming	1	Practical
42	CSE(AIML)	21CSL481	Web Programming	1	Practical
43		21CS482	Unix Shell Programming	1	MCQ
44		21CSL483	R Programming	1	Practical
45	Data Science	21CSL481	Web Programming	1	Practical
46		21CS482	Unix Shell Programming	1	MCQ
47		21CSL483	R Programming	1	Practical
48	CSE(Data Science)	21CSL481	Web Programming	1	Practical
49		21CS482	Unix Shell Programming	1	MCQ
50		21CSL483	R Programming	1	Practical
51	AIDS	21CSL481	Web Programming	1	Practical
52		21CS482	Unix Shell Programming	1	MCQ
53		21CSL483	R Programming	1	Practical
54	CSE(AI)	21CSL481	Web Programming	1	Practical
55		21CS482	Unix Shell Programming	1	MCQ

56		21CSL483	R Programming	1	Practical
57	CBCS	21CB481	INTRODUCTION TO COMPUTER GRAPHICS AND ANIMATION	1	MCQ
58		21CB482	Fundamentals of Economics	1	MCQ
59		21CB483	UNIX SHELL AND PHP PROGRAMMING	1	MCQ
60		21CB484	R Programming	1	MCQ
61	CSE(IoT CS BCT)	21CSL481	Web Programming	1	Practical
62		21CS482	Unix Shell Programming	1	MCQ
63		21CSL483	R Programming	1	Practical
64	CS & design	21CSL481	Web Programming	1	Practical
65		21CS482	Unix Shell Programming	1	MCQ
66		21CSL483	R Programming	1	Practical
67	Electronics and Communication Engineering (ECE)	21ECL481	Embedded C Basics	1	Practical
68		21ECL482	C++ Basics	1	Practical
69		21ECL483	Octave / Scilab for Signals	1	Practical
70		21ECL484	DAQ using LabVIEW	1	Practical
71	Electronics and Telecommunication	21ECL481	Embedded C Basics	1	practical
72		21ECL482	C++ Basics	1	practical
73		21ECL483	Octave / Scilab for Signals	1	practical
74		21ECL484	DAQ using LabVIEW	1	practical
75	Electronics and Instrumentation Engineering	21EIL481	Programming in MATLAB	1	practical
76		21EIL482	Virtual Instrumentation using Lab View	1	practical
77		21EIL483	Signal Conditioning Lab using Pspice / MultiSIM	1	practical
78	Biomedical	21BML481	Programming in MATLAB	1	Practical
79		21BM482	Bioinstrumentation	1	MCQ
80		21BML483	Signal Conditioning Lab using Pspice / MultiSIM	1	Practical
81		21BM484	Bioelectric Phenomena	1	MCQ
82	Electrical & Electronics Engineering	21EEP481	Microcontroller Based Projects	1	Mini Project
83		21EEL482	Scilab for Electric Motors	1	Practical
84		21EEL483	Scilab for Electrical and Electronic Measurements	1	Practical
85		21EEL484	Simulation of Op-Amp Circuits	1	Practical
86	Industrial and Production Engineering	21IP481/21IM481	Essentials of New Product Development	1	MCQ
87		21IP482 /21IM482	An overview of Quality Improvement Tools	1	MCQ
88		21IP483/21IM483	Basics of Financial Management	1	MCQ
89	Industrial Engineering and Management	21IP481/21IM481	Essentials of New Product Development	1	MCQ
90		21IP482 /21IM482	An overview of Quality Improvement Tools	1	MCQ
91		21IP483/21IM483	Basics of Financial Management	1	MCQ
92	Mechanical Engineering	21MEL481	Spread Sheets for Engineers (0-0-2-0)	1	Practical
93		21ME482	Introduction to AI and ML (0-2-0-0)	1	MCQ
94		21ME483	Introduction to Augmented Reality	1	MCQ
		21MRL481			
95	21MR482	PLC AND SCADA (AEC)	1	MCQ	
96	21MR483				MARITIME LAW (AEC)
97	21MTL481	Programming in Python	1	Practical	
98	Mechatronics Engineering	21MTL482	3-D Printing Technology	1	Practical
99		21MTL483	CNC programming and simulation	1	Practical
100		21MTL484	IoT (0-0-2)	1	Practical
101					

102	Mechanical and Smart Manufacturing	21SM481 (Code corrected)	Quality Engineering	1	MCQ
103		21SM482 (Code corrected)	Mechanical Design Concepts	1	MCQ
104	Robotics & Automation	21RA481	Introduction to AI & ML	1	MCQ
105		21RAL482	Applications of MATLAB/SILAB/OCTANE	1	Practical
106		21RAL483	Applications of Raspberry Pi Controllers	1	Practical
107	Agricultural Engineering	21AG481	Introduction to Internet of Things	1	MCQ
108		21AG482	Human Engineering & Safety	1	MCQ
109		21AGL483	Spreadsheets for engineers	1	Practical
110	Automation & Robotics	21AR481	Introduction to AI & ML	1	MCQ
111		21ARL482	Applications of MATLAB/SILAB/OCTANE	1	Practical
112		21ARL483	Applications of Raspberry Pi Controllers	1	Practical
113	Robotics & Artificial Intelligence	21RI481	Spread Sheet for Engineers(0:0:2:0)	1	Practical
114		21RI482	Introduction to AI and ML(1:0:0:0)	1	MCQ
115		21RI483	Introduction to Augmented Reality(1:0:0:0)	1	MCQ
116	Silk Technology	21TX483	Processing of Synthetic Fibres & Blends	1	MCQ
117		21TX484	Eco Friendly Processing of Textiles	1	MCQ
118	Textile Technology	21TX483	Processing of Synthetic Fibres & Blends	1	MCQ
119		21TX484	Eco Friendly Processing Of Textiles	1	MCQ

**For any suggestions /Clarification/opinion eMail to  
sbhvtuso2022@gmail.com or sbhvtuso@yahoo.com**