VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI B.E. in Civil Engineering Scheme of Teaching and Examinations2022 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2023-24)

				<u> </u>	Те	aching Hou	rs /Week			Exan	nination		_
SI. No	Course	Course Code		Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credite
				ă [®] –	L	Т	Р	S		Ū		F	
1	РСС	BCV301	Engineering Geology and Building materials	TD- Maths PSB-Maths	3	0	0		03	50	50	100	3
2	IPCC	BCV302	Engineering Survey	TD: CV PSB: CV	3	0	2		03	50	50	100	4
3	IPCC	BCV303	Strength of Materials	TD: CV PSB: CV	3	0	2		03	50	50	100	4
1	PCC	BCV304	Water Supply and Treatment Engineering	TD: CV PSB: CV	3	0	0		03	50	50	100	3
5	PCCL	BCVL305	Computer-Aided Building Planning and Drawing	TD: CV PSB: CV	0	0	2		03	50	50	100	1
6	ESC	BCV306x	ESC/ETC/PLC	PSB: CV	3	0	0		03	50	50	100	3
,	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100		100	1
					lf th	the course is a Theory			01				
3	AEC/	BCV358x	Ability Enhancement Course/Skill Enhancement		1	0	ů ů		01	50	50	100	1
5	SEC	Deresen	Course - III			course is a laboratory			02	50	50	100	-
		BNSK359	National Service Scheme (NSS)	NSS coordinator	0	0	2						
)	MC	BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0
		BYOK359	Yoga	Yoga Teacher									
									Total	550	350	900	20

Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE Semester End Evaluation. K: This letter in the course code indicates common to all the streams of Engineering. ESC: Engineering Science Course, ETC: Emerging Technology Course, PLC: Programming Language Course

•											
	Engineering Science Course (ESC/ETC/PLC)										
BCV306A	Rural, Urban Planning and Architecture	BCV306C	Sustainable Design Concept for Building Services								
BCV306B	Geospatial Techniques in Practice	BCV306D	Environmental Protection and Management								
	Ability Enhanc	ement Course – III									
BCVL358A	Microsoft Excel and Visual Basic Applications (Lab)	BCVL358C	Digital Drafting for Civil Engineers (Lab)								
BCV358B	Smart Urban Infrastructure	BCV358D	Personality Development for Civil Engineers								

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./ B. Tech.) 2022-23 may please be referred.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first Week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the Degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of Degree.

				E. in Civil Engineer	•	-2022							
				eaching and Exam									
			Outcome Based Education				system (CBCS)					
	NESTER		(Effective fro	om the academic y	ear 202	3-24)							
VJLN				Teaching Department (TD) and Question Paper Setting Board (PSB)		Teaching	Hours /Wee	ek		Exam	ination		
SI. No			Course Title		Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Cundite
1	DCC		Analysis of Structures	TD: CV PSB: CV	ц 3	Т	P	S	03	50	50	100	-
1	PCC	BCV401	Analysis of Structures	TD: CV PSB: CV	-	0	0				50		3
2	IPCC	BCV402	Fluid Mechanics and Hydraulics		3	0	2		03	50	50	100	4
3	IPCC	BCV403	Transportation Engineering	TD: CV PSB: CV	3	0	2		03	50	50	100	4
4	PCCL	BCVL404	Engineering Geology and Building Materials Lab	TD: CV PSB: CV	0	0	2		03	50	50	100	1
5	ESC	BCV405x	ESC/ETC/PLC		3	0	0		03	50	50	100	(1)
		BCV456x		TD and PSB:	If the course is Theory				01				
c	AEC/		Ability Enhancement Course/Skill	Concerned	1	0	0	01		50	50	100	
6	SEC		Enhancement Course- IV	department	If the course is a lab				02	50	50	100	1
					0	0	2		02				
7	BSC	BBOK407	Biology For Engineers	TD / PSB: BT, CHE,	3	0	0		03	50	50	100	
8	UHV	BUHK408	Universal human values course	Any Department	1	0	0		01	50	50	100	1
		BNSK459	National Service Scheme (NSS)	NSS coordinator									
9	МС	BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	(
		BYOK459	Yoga	Yoga Teacher	1								
		·	•		•	•	·	•	Total	500	400	900	2
nha	ncement	nal Core Cou Course, SEC :	Yoga Irse, PCCL : Professional Core Course laborate Skill Enhancement Course, L: Lecture, T: Tuto : This letter in the course code indicates com	ory, UHV : Universal orial, P : Practical S= \$	SDA : Ski	ll Deve	lopment		ndatory (Course (N	Ion-credit	t), AEC	C: A

	Ability Enhancement Course / Skill Enhancement Course - IV										
BCV456A	Finance for Professionals	BCV456C	Electronic Waste Management - Issues and								
			Challenges								
BCV456B	Total station application in Civil Engineering (Lab)	BCV456D	Components of a Smart City								
	Engineering Science Course (ESC/ETC/PLC)										
BCV405A	Building Information Modelling in Architecture, Engineering and	BCV405C	Concreting Techniques & Practices								
	Construction (BIM)										
BCV405B	Construction Equipment, Plants and Machinery	BCV405D	Hydrology and Water Resources Engineering								
Professional C	ore Course (IPCC): Refers to Professional Core Course Theory Integrat	ed with practica	al of the same course. Credit for IPCC can be 04 and its Teaching-								
Learning hours	s (L : T : P) can be considered as $(3:0:2)$ or $(2:2:2)$. The theory particular terms of the theory particular terms of the terms of terms	rt of the IPCC s	hall be evaluated both by CIE and SEE. The practical part shall be								
evaluated by o	nly CIE (no SEE). However, questions from the practical part of IPCC sha	ll be included in	the SEE question paper. For more details, the regulation governing								
the Degree of	Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23										
National Servi	ce Scheme /Physical Education/Yoga: All students have to register for	any one of the	courses namely National Service Scheme (NSS), Physical Education								
(PE)(Sports an	d Athletics), and Yoga(YOG) with the concerned coordinator of the cou	irse during the f	irst Week of III semesters. Activities shall be carried out between								
III semester to	the VI semester (for 4 semesters). Successful completion of the register	ered course and	requisite CIE score is mandatory for the award of the Degree. The								
events shall be	appropriately scheduled by the colleges and the same shall be reflecte	d in the calenda	r prepared for the NSS, PE, and Yoga activities. These courses shall								
not be conside	red for vertical progression as well as for the calculation of SGPA and C	GPA, but compl	etion of the courses is mandatory for the award of Degree.								

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Civil Engineering

Scheme of Teaching and Examinations2022

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2023-24)

V SEMESTER Teaching Hours /Week Examination Department (TD) and Question Paper Setting Board (PSB) Practical/ Drawing Self -Study Teaching Duration in hours Theory Lecture Tutorial Marks **Fotal Marks** Credits SEE Marks SI. Course and **Course Title Course Code** No 픵 S L т Ρ **Construction Management and** TD: CV PSB: CV BCV501 HSMS 3 0 0 03 50 50 100 3 1 Entrepreneurship Geotechnical Engineering 2 IPCC BCV502 TD: CV PSB: CV 3 2 03 50 50 100 4 **Concrete Technology** TD: CV PSB: CV 3 2 50 50 3 IPCC BCV503 0 03 100 4 2 50 4 PCCL BCVL504 Environmental Engineering Lab TD: CV PSB: CV 0 0 03 50 100 1 5 PEC BCV515x **Professional Elective Course** TD: CV PSB: CV 3 0 0 03 50 50 100 3 6 PROJ BCV586 Mini Project/Extensive Survey Project TD: CV PSB: CV 0 0 4 03 100 100 2 7 AEC **Research Methodology and IPR** 2 2 0 02 50 50 100 3 BRMK557 8 50 MC BESK508 **Environmental Studies** TD: CV PSB: CV 2 0 0 02 50 100 2 NSS coordinator BNSK559 National Service Scheme (NSS) **Physical Education** 0 2 9 MC BPEK559 Physical Education (PE) (Sports and Athletics) 0 100 100 0 Director Yoga Teacher **BYOK559** Yoga Total 500 300 800 22 **Professional Elective Course** BCV515A Numerical Methods in Civil Engineering BCV515C Solid Waste Management BCV515B Occupational Safety and Health Monitoring BCV515D **Remote Sensing and GIS** PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. K: The letter in the course code indicates common to al the stream of Engineering. PROJ: Project / Mini Project. PEC: Professional Elective Course

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first Week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the Degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of Degree.

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

No SEE component for Mini-Project.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of Engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Civil Engineering

Scheme of Teaching and Examinations2022

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2023-24)

VI SEN	IESTER		Ŷ				,							
				•		Т	eaching	Hours /Wee	k		Exam	ination		
SI. No		urse and Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits		
				ă	_	L	т	Р	S	_	-		-	
1	IPCC	BCV601	Design of RCC Structures			3	0	2		03	50	50	100	4
2	PCC	BCV602	Irrigation Engineering and Hydraulic Structures			3	2	0		03	50	50	100	4
3	PEC	BCV613x	Professional Elective Course			3	0	0		03	50	50	100	3
4	OEC	BCV654x	Open Elective Course			3	0	0		03	50	50	100	3
5	PROJ	BCV685	Major Project Phase I			0	0	4		03	100		100	2
6	PCCL	BCVL606	Software Application Lab			0	0	2		03	50	50	100	1
7						If the co	ourse is offered as a Theory							
	AEC/SDC	SDC BCV657x	Ability Enhancement Course/Skill Development			1	0 0			01	50	50	100	1
		BCV057X	Course V				se is offered as a practical				50	50	100	L L
						0	0	2						
		BNSK658	National Service Scheme (NSS)	NSS coordir										
8	MC	BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Edu Directo		0	0 2	2			100		100	0
		BYOK658	Yoga	Yoga Teac	cher									
										Total	500	300	800	18
			Pro	fessional Elect	tive Cou	rse								
BCV6	BCV613A Design of Bridges			BCV61	3C	3C Applied Geotechnical Engineering								
BCV6	13B	Design of f	form work and scaffolding		BCV61	3D	Desig	n and Co	nstructio	on of High	iway Pav	ements		
				Open Elective		<u> </u>								
BCV65			rvation and Rainwater Harvesting			654C	Integrated Waste Management for a Smart City							
BCA92	BCV654B Geographic Information Systems				RCA	654D	Sustainable Development Goals							

	Ability Enhancement Course / Sk	kill Enhancement Co	ourse-V
BCV657A	Structural Health Monitoring using Sensors	BCV657C	Applications of DRONE
BCV657B	Smart City Command Centre	BCV657D	AI and Analytics for Structural Health Monitoring

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. K : The letter in the course code indicates common to al the stream of Engineering. PROJ: Project /Mini Project. PEC: Professional Elective Course. PROJ: Project Phase -I, OEC: Open Elective Course

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first Week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the Degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of Degree.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of Engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

Project Phase-I: Students have to discuss with the mentor /guide and with their help he/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.

			VISVESVARAYA TE	CHNOLOGIC		VERSITY	. BELA	GAVI						
				E. in Civil Er			,							
			Scheme of T		•	•	2022							
			Outcome Based Education	•				vstem (CBCS)					
			(Effective fr	. ,				, ,	,					
VII SEI	MESTER (S	vappable VII and			,									_
				Teaching Department (TD) and Question Paper 5 etting		1	Feaching	Hours /Wee	ek 👘		Exam	ination		-
SI. No		urse and Irse Code	Course Title		Board (PSB)	Theory Lecture	I Tutorial	Practical/ Drawing	o Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
		DC)/701	Design of Stard Structures			L 2	Т	P	S	02	50	50	100	
1	IPCC	BCV701	Design of Steel Structures			3	0	2		03	50	50	100	4
2	IPCC	BCV702	Estimation and Contract Management			3	2	0		03	50	50	100	4
3	PCC	BCV703	Prestressed Concrete			3	2	0		03	50	50	100	4
4	PEC	BCV714x	Professional Elective Course			3	0	0		03	50	50	100	3
5	OEC	BCV755x	Open Elective Course			3	0	0		01	50	50	100	3
6	PROJ	BCV786	Major Project Phase-II			0	0	12		03	100	100	200	6
											400	300	700	24
			Pr	ofessional Ele	ctive Cou	rse								
BCV71	4A	Intelligen	t Transport Systems		BCV714	-	Ground Improvement and Reinforced Earth							
BCV71	4B	Precast M	embers - Systems & Construction		BCV714	D	Indu	ustrial W	aste Co	ntrol an	d Manag	gement		
B () (75				Open Elective	1		-	T 00					D 11 11	
BCV75 BCV75	-		ty Engineering		BCV755 BCV755	-						lighting Ir	i Building	5
	-		saster Management					0	0	Service				T
			rse, PCCL : Professional Core Course laborator				-	•				•	-	
			: Skill Development Activity, CIE : Continuous I				ster Er	id Evalua	tion. ID -	leachin	g Departr	nent, PSB	: Paper Se	etting
	•	•	ctive Course, PEC : Professional Elective Cours	se. PROJ : Pro	oject wor	ΓK								
			s of IV years of the program											
(1) In	stitution	s can swap tl	he VII and VIII Semester Schemes of Teachin	ig and Exami	nations	to accor	mmoda	ate resea	irch inte	rnships/	industry	internshi	os after t	he VI
seme	ster.													

(2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIII semesters is completed during the beginning of the IV year or the later part of IV years of the program.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of Engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

PROJECT WORK (21CVP75): The objective of the Project work is

(i) To encourage independent learning and the innovative attitude of the students.

(ii) To develop interactive attitude, communication skills, organization, time management, and presentation skills.

(iii) To impart flexibility and adaptability.

(iv) To inspire team working.

(v) To expand intellectual capacity, credibility, judgment and intuition.

(vi) To adhere to punctuality, setting and meeting deadlines.

(vii) To install responsibilities to oneself and others.

(viii)To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

CIE procedure for Project Work:

(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work: SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25.

			VISVESVARAYA TEC	HNOLOGIC			Y, BELA	GAVI						
			Scheme of Te		•	•	\$2022							
			Outcome Based Education	•				vstem (CBCS)					
			(Effective fro	, ,				yoceni (0200)					
VIIISE	MESTER (Sv	vappable VII and \				201 202	<u> </u>							
				â		-	Teaching	Hours /Wee	ek		Exam	ination		_
SI. No		urse and urse Code	Course Title		Teaching Department (TD) and Question Paper Setting Board (PSB)		Tutorial	Tutorial Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
				<u> </u>		L	т	Р	S					
1	PEC	BCV801x	Professional Elective (Online Courses)			3	0	0		03	50	50	100	3
2	OEC	BCV802x	Open Elective (Online Courses)			0	2	0		01	50	50	100	3
3	INT	BCV803	Internship (Industry/Research) (14 - 20 Weeks)			0	0	12		03	100	100	200	10
											200	200	400	16
				Elective Cou	rse (Onli	ne cours	ses)							
BCV80	1A	Deep Exc	avation and Tunnels		BCV801	С	Project Management							
BCV80	1B	Pre-engin	eered Buildings		BCV801	Metro and Seaports Engineering								
5 01 /0 0				ective Courses										
BCV80 BCV80		IT for Smart Ci	vation in Buildings		BCV802 BCV802	-		Buildings fety and M	laintenanc	e of Buildir	20			
			actical S= SDA : Skill Development Activity, CIE : (Continuous I							-	ching Der	partment	PSB
		-	OEC: Open Elective Course, PEC: Professional									• •		•
Interi	-	acpartment,					Jeet W	Jin, 111 .	maasti	ymeenis	mp / nes		/ //////	nurui
	•	////												
			s of IV years of the program											
-	ping Faci	-												
		s can swap V /I semester.	(II and VIII Semester Scheme of Teaching and	Examinatior	ns to acc	commoc	date re s	search ir	nternshi	os/ indus	stry inter	nships/Rı	ural Inter	nship

• Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program.

Elucidation:

At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester **Research Internship / Industrial Internship / Rural Internship** shall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of the class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship or Rural Internship.

Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation center, Incubation center, Start-up, center of Excellence (CoE), Study Centre established in the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internship is for 14 to 20 Weeks. The internship shall be considered as a head of passing and shall be considered for the award of a Degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent University examination after satisfying the internship requirements.

Research internship: A research internship is intended to offer the flavor of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship: Is an extended period of work experience undertaken by students to supplement their Degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship.

The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of the internship.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (within or outside the state or abroad), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. University shall not bear any cost involved in carrying out the internship by students. However, students can receive any financial assistance extended by the organization.

Professional Elective /Open Elective Course: These are ONLINE courses suggested by the respective Board of Studies. Details of these courses shall be made available for students on the VTU web portal.