			(Ellectiv	e from the academic	, year 2025	-24)							
SEIV	IESTER				Te	eaching Hou	rs /Week			Exam	nination		Т
SI. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	Т	Р	S				•	
1	PCC	BCV301	Strength of Materials	TD: CVPSB: CV	3	0	0		03	50	50	100	
2	IPCC	BCV302	Engineering Survey	TD: CVPSB: CV	3	0	2		03	50	50	100	T
3	IPCC	BCV303	Engineering Geology	TD- Geology/CV PSB-Geology/CV	3	0	2		03	50	50	100	
4	PCC	BCV304	Water Supply and Waste water Engineering	TD: CV PSB: CV	3	0	0		03	50	50	100	
5	PCCL	BCV305	Computer Aided Building Planning and Drawing	TD: CV PSB: CV	0	0	2		03	50	50	100	
6	ESC	BCV306x	ESC/ETC/PLC	PSB: CV	3	0	0		03	50	50	100	Τ
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100		100	
	AEC/				lf th	ne course is	a Theory		01				
8	SEC	BCV358x	Ability Enhancement Course/Skill Enhancement Course - III			course is a	U			50	50	100	
					0	0	2		02				
		BNSK359	National Service Scheme (NSS)	NSS coordinator									
9	MC	BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	
		BYOK359	Yoga	Yoga Teacher									

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

1

Technology Course, PLC: Programming Language Course

2

•												
	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	Fire Safety in Buildings									
	Ability Enhanceme	nt Course – III										
BCVL358A	Data analytics with Excel (0:0:1)	BCVL358C	Problem Solving with PYTHON									
BCV358B	Smart Urban Infrastructure	BCV358D	Personality Development for Civil Engineers									

**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 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	•								
				Feaching and Exami				>					
			Outcome Based Education	<b>、</b>			ystem (0	CBCS)					
			(Effective fr	om the academic y	ear 2023	3-24)							
V SEIV	IESTER					Teaching	Hours /Wee	k		Exam	ination		Т
SI. No			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	Fotal Marks	
				ă –	L	т	Р	S	-	-		F	
1	PCC	BCV401	Analysis of Structures	TD: CV PSB: CV	3	0	0		03	50	50	100	111
2	IPCC	BCV402	Fluid Mechanics and Hydraulics	TD: CV PSB: CV	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	Building Materials Testing Lab	TD: CV PSB: CV	0	0	2		03	50	50	100	
5	ESC	BCV405x	ESC/ETC/PLC		3	0	0		03	50	50	100	
				TD and PSB:	lf th	ne cou	rse is Th	eory	01				
c	AEC/		Ability Enhancement Course/Skill	Concerned	1	0	0		01	50	50	100	
6	SEC	BCV456x	Enhancement Course- IV	department	If the course is a lab			02	50	50	100		
					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									1
9	MC	BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	(
		BYOK459	Yoga	Yoga Teacher	-								
									Total	500	400	900	2

Ability Enhancement Course / Skill Enhancement Course - IV													
BCVL456A	Building Information Modelling in Civil Engineering – Basics (0:0:2)	BCV456C	Electronic Waste Management - Issues and Challenges										
BCV456B	GIS with Quantum GIS	BCV456D	Technical Writing Skills										
	Engineering Science Course (ESC/ETC/PLC)												
BCV405A     Finance for Professionals     BCV405C     Concreting Techniques & Practices													
BCV405B Construction Equipment, Plants and Machinery BCV405D Watershed Management													
Professional C	ore Course (IPCC): Refers to Professional Core Course Theory Integrate	ed with practica	l 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 pa	rt of the IPCC s	hall be evaluated both by CIE and SEE. The practical part shall be										
evaluated by c	only CIE (no SEE). However, questions from the practical part of IPC	C shall be inclu	ded in the SEE question paper. For more details, the regulation										
governing the I	Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23												
National Servio	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 and	d Athletics), and Yoga(YOG) with the concerned coordinator of the course	se during the fir	st Week of III semesters. Activities shall be carried out between III										
semester to th	e VI semester (for 4 semesters). Successful completion of the registere	ed course and re	equisite 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 courses is mandatory for the award of Degree.													

			VISVESVARAYA TE	CHNOLOGICAL	UNIVERSI	ГҮ <i>,</i> В	BELAC	GAVI						
			В	.E. in Civil Engin	neering									
			Scheme of	Teaching and Ex	kaminatio	ns20	)22							
			Outcome Based Education	• •				vstem (C	BCS)					
			(Effective fr	rom the academ	nic year 20	23-2	24)							
V SEM	IESTER		1			Too	oching	Hours /Wee		1	Evor	ination		-
SI. No		ourse and urse Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory		Tutorial	Practical/ Drawing	self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L		т	Р	S					
1	HSMS	BCV501	Construction Management and Entrepreneurship	TD: CV PSB: CV	3		0	0		03	50	50	100	3
2	IPCC	BCV502	Geotechnical Engineering	TD: CV PSB: CV	/ 3			2		03	50	50	100	4
3	IPCC	BCV503	Concrete Technology	TD: CV PSB: CV	/ 3		0	2		03	50	50	100	4
4	PCCL	BCV504	Environmental Engineering Lab	TD: CV PSB: CV	/ 0		0	2		03	50	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	BRMK557	Research Methodology and IPR		2		2	0		02	50	50	100	3
8	MC	BESK508	Environmental Studies	TD: CV PSB: 0	CV 2		0	0		02	50	50	100	2
		BNSK559	National Service Scheme (NSS)	NSS coordinate	or									
9	МС	BPEK559	Physical Education (PE) (Sports and Athletics)	Physical Educati Director	ion 0		0	2			100		100	0
		BYOK559	Yoga	Yoga Teacher	r									
										Total	500	300	800	22
<b>D</b> () (5	454			rofessional Elective			<u> </u>							
BCV5			Methods in Civil Engineering		CV515C			Waste N	<u> </u>					
BCV5			al Safety and Health Monitoring		CV515D			ote Sens			Non are		Ability	
Enha	ncement ester End	Course, <b>SEC</b> : S	se, <b>PCCL</b> : Professional Core Course laboratory Skill Enhancement Course, <b>L:</b> Lecture, <b>T</b> : Tutor : The letter in the course code indicates comn	rial, <b>P</b> : Practical <b>S</b>	<b>= SDA</b> : Skill	Dev	elopr	ment Act	ivity <i>,</i> CIE	: Continu	ous Inte	rnal Evalu	ation, SE	

**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 SEMESTER Teaching Hours /Week** Examination Teaching Department (TD) and Question Paper Setting Board (PSB) Practical/ Drawing Self -Study Tutorial Duration in hours Theory Lecture Total Marks Marks Credits SEE Marks SI. Course and Course Title **Course Code** No 빙 Ρ S L т **Design of RCC Structures** BCV601 3 0 2 03 50 50 4 IPCC 100 1 Irrigation Engineering and Hydraulic 100 4 PCC BCV602 3 2 0 03 50 50 2 Structures **Professional Elective Course** 3 3 3 PEC BCV613x 0 0 03 50 50 100 4 3 03 50 100 3 OEC BCV654x **Open Elective Course** 0 0 50 5 PROJ BCV685 **Major Project Phase I** 0 0 4 03 100 100 2 --6 Software ApplicationLab PCCL BCVL606 0 0 2 03 50 50 100 1 If the course is offered as a Theory 7 0 1 0 Ability Enhancement Course/Skill Development 50 50 AEC/SDC BCV657x 01 100 1 If course is offered as a practical Course V 0 0 2 NSS coordinator BNSK658 National Service Scheme (NSS) **Physical Education** 8 MC BPEK658 Physical Education (PE) (Sports and Athletics) 0 0 2 100 100 0 ---Director Yoga Teacher BYOK658 Yoga 9 BIKS609 Indian Knowledge System 0 0 01 100 0 100 0 IKS 1 300 Total 500 800 18 **Professional Elective Course** BCV613A **Design of Bridges** BCV613C **Applied Geotechnical Engineering** Design and Construction of Highway Pavements BCV613B Design of formwork and scaffolding BCV613D **Open Elective Course** Water conservation and Rainwater Harvesting Integrated Waste Management for a Smart City BCV654A BCV654C

BCV654B	Geographic Information Systems	BCV654D	Sustainable Development Goals
	Ability Enhancement Course		
BCV657A	Building Information Modelling - Advanced	BCV657C	Data Analytics for Civil Engineers
BCV657B	Structural Health Monitoring Using Sensors	BCV657D	Quality Control and Quality Assurance
PCC: Profess	ional Core Course, PCCL: Professional Core Course laboratory, UHV:	Universal Human	Value Course, MC: Mandatory Course (Non-credit), AEC: Ability
Enhancemer	t Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: P	ractical <b>S= SDA</b> : Sk	ill Development Activity, <b>CIE</b> : Continuous Internal Evaluation, <b>SEE</b> :
Semester En	d Evaluation. $\mathbf{K}$ : The letter in the course code indicates common to a	I the stream of E	ngineering. <b>PROJ</b> : Project /Mini Project. <b>PEC</b> : Professional Elective
Course. PRO	J: Project Phase -I, OEC: Open Elective Course		
Professional	Core Course (IPCC): Refers to Professional Core Course Theory Integr	ated with practica	Is of the same course. Credit for IPCC can be 04 and its Teaching-
Learning hou	urs (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 inclu	uded in the SEE question paper. For more details, the regulation
governing th	e Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23	3	
National Ser	vice Scheme /Physical Education/Yoga: All students have to register	for any one of the	courses namely National Service Scheme (NSS), Physical Education
(PE)(Sports a	nd Athletics), and Yoga(YOG) with the concerned coordinator of the co	ourse during the fi	rst Week of III semesters. Activities shall be carried out between III
semester to	the VI semester (for 4 semesters). Successful completion of the regist	tered course and i	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 refle	cted in the calenda	ar prepared for the NSS, PE, and Yoga activities. These courses shall
not be consi	dered for vertical progression as well as for the calculation of SGPA and	CGPA, but comple	tion of the course is mandatory for the award of Degree.
Professional	Elective Courses (PEC): A professional elective (PEC) course is intended	d to enhance the d	epth and breadth of educational experience in the Engineering and
Technology	curriculum. Multidisciplinary courses that are added supplement the	latest trend and a	dvanced technology in the selected stream of Engineering. Each
group will pi	ovide an option to select one course. The minimum number of studer	nts' strengths for a	offering professional electives is 10. However, this conditional shall
not be applie	able to cases where the admission to the program is less than 10.		
Open Electiv	e Courses:		
Students bel	onging to a particular stream of Engineering and Technology are not e	ntitled to the oper	n electives offered by their parent Department. However, they can
opt for an el	ective offered by other Departments, provided they satisfy the prereq	uisite condition if	any. Registration to open electives shall be documented under the
•	the Program Coordinator/ Advisor/Mentor. The minimum numbers of		
-	applicable to class where the admission to the program is less than 10.	0	
	e-I: Students have to discuss with the mentor /guide and with their he	Iphe/she has to co	mplete the literature survey and prepare the report and finally
•		• •	

define the problem statement for the project work.

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#### 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)

				â			Teaching	Hours /Wee	k		Exam	ination	1	_
SI. No		urse and urse Code	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				F	
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
				Professional Elect	tive Cours	e								
BCV71	4A	Intelligen	t Transportation Systems		BCV714C		Des	ign and I	Execution	on of Pil	e Founda	ations		
BCV71	4B	Earthquak	ke Resistant Structures		BCV714D		Build	ding servio	ces-hvac,a	acoustics	and fire s	afety		
				Open Elective	Course									
BCV75	5A	Road Safet	y Engineering		BCV755C		Ener	rgy Effici	iency, Ac	coustics A	And Dayli	ighting In	Building	
BCV75	5B	Conservati	on Of Natural Resources		BCV755D		Prec	ast Mem	bers – Sy	stems &	Construc	tion		
PCC:	Professio	nal Core Cou	rse, PCCL: Professional Core Course laboration	tory, <b>PEC</b> : Profess	sional Ele	ective C	òurse,	OEC: Op	en Electi	ve Cours	e PR: Pro	ject Worl	<, <b>L:</b> Lectu	ıre, <b>T</b> :
Tutor	ial, <b>P</b> : Pra	ictical <b>S= SDA</b>	: Skill Development Activity, <b>CIE</b> : Continuou	us Internal Evalua	tion, SEE	: Seme	ster Er	nd Evalua	tion. <b>TD</b> -	Teachin	g Departr	ment, <b>PSB</b>	: Paper S	etting
depa	rtment, <b>C</b>	<b>EC</b> : Open Ele	ctive Course, PEC: Professional Elective Cou	urse. <b>PROJ</b> : Proje	ct work									
Note	VII and	/III semester	s of IV years of the program											
			he VII and VIII Semester Schemes of Tead	ching and Examin	antions to	0 2000	mmod	ato rocoa	urch into	rnchinc/	inductor	intornchi	ac aftar t	tha 1/1

(1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/ industry internships after the VI semester.

(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	CHNOLOGIC		/ERSITY	, BELA	GAVI						
			B.E	E. in Civil Er	ngineeri	ng								
			Scheme of Te	eaching and	d Exami	nations	s2022							
			Outcome Based Education	(OBE) and (	Choice B	ased C	redit S	ystem (O	CBCS)					
			(Effective fro	om the acad	demic ye	ear 202	3-24)							
Schem	e A- VIIISE	MESTER (Swappa	ble VII and VIII SEMESTER)	1				6		1				1
SI.	Co	ourse and	Course Title	Teaching Department (TD) and Question Paper Setting	(PSB)	Theory Lecture	Tutorial	Practical/ SunoH Drawing Drawing	Self -Study	n in S	Sarks	ination Stree E	arks	Credits
No	Co	urse Code	Course fille	Teac epartm and Qu Paper S	Board	The	Tut	Prac	Self -	Duration in hours	CIE Ma	SEE Ma	Total Marks	Cre
		1		<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)			3	0	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
				l Elective Cou	-		1							
BCV80			ation and Tunnels		BCV8010			0		nd financ				
BCV80	1B	Advanced D	esign of RCC Structures		BCV8010		Metro	o and Sea	ports En	gineering	3			
BCV80	20	Energy Cons	Servation in Buildings	lective Courses	BCV8020		Groor	n Building	10					
BCV80			al Health and Safety		BCV8020			rated Bui		vices				
			actical <b>S= SDA</b> : Skill Development Activity, <b>CIE</b> :	Continuous							TD- Tea	ching De	nartment	PSB.
			<b>OEC</b> : Open Elective Course, <b>PEC</b> : Professional											-
Interr	-							,		,			oop /	
		VIII semester	s of IV years of the program											
	ping Faci													
-	• •	-	II and VIII Semester Scheme of Teaching and Exa	aminations t	to accom	modate	resear	ch interr	nshins/i	ndustrv i	nternshir	s/Rural I	nternshin	after
	ne VI sem					mouule	icscal	ennicen	1911/192/11	nausti y n				arter
			courses of VII and VIII Semester Scheme of Tea	ching and E	vaminati	ons sha	ll be co	unted a	ainst th	e correct	onding c	amostarc	whather	
			ted during the beginning of IV year or later part	-				anceu de	Sanist th	c conesp	onung s	LINESLEIS	whether	VII UI
v	in series	iter is complet	ted during the beginning of iv year of later part	or iv year o	i the pro	grann.								

#### **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.

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 flavour 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.

	VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI B.E. in the title of the program													
	Scheme of Teaching and Examinations2022													
	Outcome Based Education (OBE) and Choice Based Credit System (CBCS)													
				om the academic y	ear 2023	3-24)								
Schem	Scheme B-VI SEMESTER for the candidates who seek a two-semester internship with project work /Start-up     Teaching Hours /Week     Examination													
SI. No		irse and rse Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits	
				ă –	L	т	Р	S		_		F		
1	IPCC	BXX601			3	0	2		03	50	50	100	4	
2	PCC	BXX602			4	0	0		03	50	50	100	4	
3	PEC	BXX613x	Professional Elective Course		3	0	0		03	50	50	100	3	
4	OEC	BXX654x	Open Elective Course		3	0	0		03	50	50	100	3	
5	PCCL	BXXL606	Lab component		0	0	2		03	50	50	100	1	
6						1	fered as a	Theory						
	AEC/SDC	BXX657x	Ability Enhancement Course/Skill Development		1	0	0		01	50	50	100	1	
	/ 120/020	BAROSTA	Course V			1	red as a p	ractical	01	50	50	100	-	
					0	0	2							
		BNSK658	National Service Scheme (NSS)	NSS coordinator	4									
7	MC	BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0	
		BYOK658	Yoga	Yoga Teacher										
8	IKS	BIKS609	Indian Knowledge System		1	0	0		01	100	0	100	0	
									Total	500	300	800	16	

Schem	VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI B.E. in the title of the program Scheme of Teaching and Examinations2022 Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2023-24) Scheme BVII and VIII semesters for the candidateswho seek an internship with project work														
	Teaching Hours / Meak Examination														
SI. No		urse and ırse 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	Credits			
				Ω	L	т	Р	S	_			L			
1	IPCC	BXX701	To be completed in 5 <sup>th</sup> /6 <sup>th</sup> semester		3	0	2		03	50	50	100	4		
2	IPCC	BXX702	To be completed in 5 <sup>th</sup> /6 <sup>th</sup> semester		3	0	2		03	50	50	100	4		
3	PCC	BXX703	To be completed in the 6 <sup>th</sup> semester		4	0	0		03	50	50	100	3		
4	PEC	BXX714x	Professional Elective Course (MOOC Courses)		3	0	0		03	50	50	100	3		
5	OEC	BXX755x	Open Elective Courses (MOOC courses)		3	0	0		01	50	50	100	3		
	850	D 001								50	50	100	2		
1	PEC	Bxx801x	Professional Elective (MOOC Courses)		3	0	0		03	50	50	100	3		
2	OEC	Bxx802x	Open Elective (MOOC Courses)		3	0	0		01	50	50	100	3		
3	PROJ	BXX883	Project - outcome of training		0	0	12		03	100	100	200	9		
4	INT	Bxx804	Internship (Industry/Research) (02 semesters)		0	0	12		03	100	100	200	10		
										200	200	400	42		