





Approved by AICTE, New Delhi. Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi

Recognized by UGC, New Delhi with 2(f) & 12 (B), Accredited by NAAC with 'A+'grade, Certified by ISO 9001 - 2015

Autonomous Scheme of Teaching & Examinations (ST&E) (Tentative) UG - BE 3rd Year (CV)

SCHEME: 2023 Revision date: 7/4/2025 SEM: V

									Revision date:								
		و			pt.	ept		Те	aching	g Hrs/	Week	Examinations					
	C	typ S			De	g de	its	L	T	P	О	ks	SEI	E (Dur	. & M	arks)	
S. #	Course Type	Course type Series	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Lecture	Tutorial	Practical	PBL/ABL / SL/etc.	CIE Marks	Dur.	Th.	Lab	Tot.	
1	PCC	3	23CVT501	Design of RC Structural Elements	CV	CV	3	3	0	0		50	03	50	1	100	
2	IPCC	5	23CVI502	Highway Engineering	CV	CV	4	3	0	2		50	03	50	1	100	
3	IPCC	6	23CVI503	Water & Wastewater Engineering	CV	CV	4	3	0	2		50	03	50	1	100	
4	PCCL	3	23CVL504	Software Application Lab	CV	CV	1	0	0	2		50	03	1	50	100	
5	PEC	1	23CVP51y	Professional Elective Course - 1	CV	CV	3	3	0	0		50	03	50	-	100	
6	ETC	3	23CVE53y	Emerging Technology Course - 3	CV	CV	3	3	0	0	@	50	03	50	-	100	
7	HSMC	6	23SFHH06/ 23UHVH07	Bioscience or UHV-Universal Human Values	any dept	any dept	1	0	2	0	@	50	02	50	-	100	
								1	0	0		50	02	50	-	100	
8	AEC	5	23CVAE5y	Ability Enhancement Course - 5	CV	CV	1		((or)							
								0	0	2		50	02	-	50	100	
			23PASN01	Physical Education - Sports and Athletics	PED	PED											
			23YOGN02	Yoga	PED	PED											
9	NCMC	4	23NSSN03	NSS - National Service Scheme	NSS	NSS	PP/NP	-	-	-	2	50	-	-	-	50	
			23NCCN04	NCC - National Cadet Corps	NCC	NCC											
			23IKSN05	Indian Knowledge System	HSS	HSS											
	Total						20	16	2	8	2	450		350	100	850	

PCC: Professional Course; IPCC: Integrated Professional Core Course; PCCL: Professional Core Course Laboratory; AEC: Ability Enhancement Course; HSMC: Humanities, Social Sciences & Management Course; NCMC: Non Credit Mandatory Course;

{ @ - Compulsory one activity during the semester };

{I.E.-Industry Experts}.

PBL: project Based learning; ABL: Activity Based Learning; SL: Self-Learning

ETC (Emerging Technology Course):

For ETC (L:T:P:O) can be plaanned by the depts considering practicality & possibility of conduction, same shall be indicated along with course title in the list, if altered than above. If planned altering the prescription, the same shall be approved at the department BOS & authorities. Atleast one activity is mandatory during the delivery of the course. The guidelines is applicable to all the semesters III to VI semesters (ETC-1 to ETC-4).

Bioscience & UHV-Universal Human Values:

- 1) Any one of the course will be offered by the departments in each semester of IV & V based on the institutional planning.
- 2) Both the courses shall be studied and completed by the students registering each in the two semesters. For example, if Bioscience is offered in the IV semester, UHV-Universal Human Values is offered in the V semester.

Ability Enhancement Course-5: 23xxAE5y - 1 Credit course

- 1) The courses and the syllabus shall be defined by the respective dept. BOS.
- 2) SEE will be MCQ if offered as theory course. If offered as LAB course, SEE will be practical, with two internal examiners. Handled by Controller of Examinations.

NCMC (Non Credit Mandatory Course) for course type series-4: Refer to guidelines in III SEM.

]	Professional Elective Course - 1	Eı	merging Technology Course - 3	Ability Enhancement Course - 5				
Course Code	Course Title	Course Code	Course Title	Course Code	Course Title			
23CVP511	Matrix Methods of Structural Analysis	23CVE531	Pre engineered Buildings	23CVAE51	Interior Designing			
23CVP512	Alternate Building Materials	23CVE532	Repair & Rehabilitation of Structures	23CVAE52	Problem Solving with Python			
23CVP513	Environmental Impact Assessment	23CVE533	Rural, Urban Planning & Architecture	23CVAE53	Microsoft Office Tools			
23CVP514	Ground Water Hydraulics	23CVE534	Building Information Modelling in Civil Engi	23CVAE54	Extensive Survey Practice			







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Autonomous Scheme of Teaching & Examinations (ST&E) (Tentative) UG - BE 3rd Year (CV)

SCHEME: 2023 SEM: VI Revision date: 7/4/2025

b. p.						ept		Te	eaching	g Hrs/	Week	Examinations					
	Course	typ es			De	g q	its	L	Т	P	0	rks	SE	E (Dur	. & M	arks)	
S. #	Type	Course type Series	Course Code	Course Title	Teaching Dept	QP setting dept	Credits	Lecture	Tutorial	Practical	PBL/ABL / SL/etc.	CIE Marks	Dur.	Th.	Lab	Tot.	
1	PCC	4	23CVT601	Design of Steel Structural Elements	CV	CV	3	3	0	0		50	03	50	1	100	
2	IPCC	7	23CVI602	Geotechnical Engineering	CV	CV	4	3	0	2		50	03	50	-	100	
3	PCCL	4	23CVL603	Detailing of RC & Steel Structural Elements	CV	CV	1	0	0	2		50	03	1	50	100	
4	PEC	2	23CVP62y	Professional Elective Course - 2	CV	CV	3	3	0	0		50	03	50	-	100	
5	OEC	1	23CVO61y	Open Elective Course - 1	Any dept.	Any dept.	3	3	0	0		50	03	50	1	100	
6	ETC	4	23CVE64y	Emerging Technology Course - 4	CV	CV	3	3	0	0	@	50	03	50	1	100	
7	AEC	6	23RMAE61	Research Methodology & IPR	CV	CV	3	3	0	0	@	50	02	50	1	100	
8	PRJ	1	23CVPRJ1	Project Phase I	CV	CV	2	0	0	4	@	50	03	1	50	100	
9	HSMC	7	23SCRH08	Social Connect & Responsibility	Any dept	Any dept	1	1	0	0	@	50	-	-	1	50	
			23PASN01	Physical Education - Sports and Athletics	PED	PED											
			23YOGN02	Yoga	PED	PED											
10	NCMC	4	23NSSN03	NSS - National Service Scheme	NSS	NSS	PP/NP	-	-	-	2	50	-	-	-	50	
			23NCCN04	NCC - National Cadet Corps	NCC	NCC											
			23IKSN05	Indian Knowledge System	HSS	HSS											
				Total	-		23	19	0	8	2	500		300	100	900	

PCC: Professional Course; IPCC: Integrated Professional Core Course; PCCL: Professional Core Course Laboratory; PEC: Professional Elective Course; OEC: Open Elective Course;

HSMC: Humanities, Social Sciences & Management Course; AEC: Ability Enhancement Course; NCMC: Non Credit Mandatory Course; PRJ: Project work.

{ @ - Compulsory one activity during the semester};

{I.E.-Industry Experts};

PBL: project Based learning; ABL: Activity Based Learning; SL: Self-Learning

Open Elective Courses (OEC):

- 1) Open Electives listed here are to offer for other department students.
- 2) Students shall select open elective courses offered from other departments, separate consolidated list of courses offered from various departments will be published time to time.

ETC (Emerging Technology Course):

For ETC (L:T:P:O) can be plaanned by the depts considering practicality & possibility of conduction, same shall be indicated along with course title in the list, if altered than above. If planned altering the prescription, the same shall be approved at the department BOS & authorities. Atleast one activity is mandatory during the delivery of the course. The guidelines is applicable to all the semesters III to VI semesters (ETC-1 to ETC-4).

NCMC (Non Credit Mandatory Course) for course type series-4: Refer to guidelines in III SEM.

Profes	sional Elective Course - 2 (23xxP62y)	Ope	on Elective Course - 1 (23xxO61y)	Emerging Technology Course - 4 (23xxE64y)				
Course Code	Course Title	Course Code	Course Title	Course Code	Course Title			
23CVP621	Earthquake Engineering	23CVO611	Integrated Building Services	23CVE641	Urban Transport Planning			
23CVP622	Prestressed Concrete Structures	23CVO612	Road Safety & Traffic Engineering	23CVE642	Quality control and safety			
23CVP623	Railways, Harbours, Tunnelling and Airports	23CVO613	Green Buildings	23CVE643	IOT in Civil Engineering			
23CVP624	Solid and Hazardous Waste Management	23CVO614	Climate Change & Sustainability	23CVE644	Fire Safety in Buildings			

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Autonomous Scheme of Teaching & Examinations (ST&E) (Tentative) UG - BE 4th Year (CV)

SCHEME: 2023 SEM: VII Revision date: 7/4/2025

)e			ept.	dept		Τe	aching	g Hrs/	Week		Examinations			
	Course	Typ es	I bo		p gı	its	L	T	P	0	·ks	SEI	E (Dur	. & Ma	arks)	
S. #	Type	Course Seri	Course Code	Course Title	Teaching	QP setting	Credits	Lecture	Tutorial	Practical	PBL/ABL / SL/etc.	CIE Marks	Dur.	.uL	Lab	Tot.
1	PCC	5	23CVT701	Hydrology & Irrigation Engineering	CV	CV	3	3	0	0		50	03	50	-	100
2	IPCC	8	23CVI702	Estimation, Costing & Valuation	CV	CV	4	3	0	2		50	03	50	-	100
3	PEC	3	23CVP73y	Professional Elective Course - 3	CV	CV	3	3	0	0		50	03	50	-	100
4	OEC	2	23CVO72y	Open Elective Course - 2	Any dept.	Any dept.	3	3	0	0		50	03	50	-	100
5	HSMC	7	23CVT704	Construction Management & Enterpreneurship	CV	CV	2	2	0	0		50	03	50	-	100
6	PRJ	2	23CVPRJ2	Project - Phase II			6	0	0	12	@	100	03	-	100	100
	Total					21	14	0	14		350		250	100	700	

PCC: Professional Core Course; IPCC: Integrated Professional Core Course; PEC: Professional Elective Course; OEC: Open Elective Course; PRJ: Project Work.

PBL: project Based learning; ABL: Activity Based Learning; SL: Self-Learning

Open Elective Courses (OEC):

1) Open Electives listed here are to offer for other department students.

2) Students shall select open elective courses offered from other departments, separate consolidated list of courses offered from various departments will be published time to time.

	Professional Elective Course - 3 (23xxP73y)	Open Elective Course - 2 (23xxO72y)						
Course Code	Course Title	Course Code	Course Title					
23CVP731	Bridge Engineering	23CVO721	Earthquake Safety Tips					
23CVP732	Applied Geotechnical Engineering	23CVO722	Energy Efficiency, Acoustics and Daylighting in Buildings					
23CVP733	Pavement Materials and Design	23CVO723	Remote Sensing & GIS					
23CVP734	Industrial Waste water treatment	23CVO724	Water Conservation and Rainwater Harvesting					

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Autonomous Scheme of Teaching & Examinations (ST&E) (Tentative) UG - BE 4th Year (CV)

SCHEME: 2023 SEM: VIII Revision date: 7/4/2029

Ī		e E						Teaching Hrs/Week				Examinations					
			ype				dept	S	L	T	P	0	·ks	SEI	E (Dur	. & Ma	arks)
9	S. #	Course Type	Course T Series	Course Code	Course Title		QP setting		Lecture	Tutorial	Practical	PBL/ABL / SL/etc.	CIE Mark	Dur.	Th.	Lab	Tot.
	1	SLC	1	23CVS1yy	Self-Learning Course - 1 (NPTEL)			3	0	0	0	@	50	-	50	-	100
	2	SLC	2	23CVS2yy	Self-Learning Course - 2 (NPTEL)			3	0	0	0	@	50	-	50	-	100
I	3	INT	1	23CVINT1	Industrial Internship			10				@	100	03	-	100	200
		Total					Total	16	0	0	0	0	200		100	100	400

SLC: Self Learning Course; PRJ: Project Work; INT: Internship; After 7th SEM exams, full time for Internship & Project equally divided; SLC courses to be started from 3rd SEM and to be completed by 7th SEM and evaluated and credited in 8th SEM.

PBL: project Based learning; ABL: Activity Based Learning; SL: Self-Learning

Self-Learning Courses (SLC):

- 1) Offering and Registration of Self-learning Courses will commence from 3rd Semester itself and continues till the end of the duration of study.
- 2) Both regular & lateral entry students shall start registering for the self learning courses and complete as per the guidelines published separately. (Refer to the Self Learning Courses guidelines published).
- 3) Calculation of SGPA & CGPA is considered for VIII Semester, irrespective of period or time of completion of the course.

	Self-Learning course - 1 (NPTEL) (23CVS	S1yy)		Self-Learning course - 2 (NPTEL) (23CVS2yy)						
Course Code	Course Title	NPTEL Code	Course Code	Course Title	NPTEL Code					
NOTE:										
	published separately starting from 3rd SEM itse									
2) The students	s shall register for NPTEL courses when the lists	are announced by the de	partmen	its & complete as per the guidelines.						