Scheme of Teaching and Examination 2018-19

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

(Effective from the academic year 2018 - 19)

Programme: CIVIL ENGINEERING

					Teaching	Hours /Wee	k		Exami	nation		
SI NO		Course and ourse Code	Course Title	Teaching	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	1	L	Т	P					
2				Mathematics	2	2		03	40	60	100	3
3	PCC PCC	18CV32 18CV33	Strength of Materials	Civil Engg.	3	2		03	40	60	100	4
4	PCC	18CV34	Fluid Mechanics	Civil Engg.	3	0		03	40	60	100	3
5	PCC	18CV35	Building Materials and Construction	Civil Engg.	3	0		03	40	60	100	3
6	PCC	18CV36	Basic Surveying	Civil Engg.	3	0		03	40	60	100	3
7	PCC	18CVL37	Engineering Geology	Geology	3	0		03	40	60	100	3
8	PCC .	18CVL38	Computer Aided Building Planning & Drawing	Civil Engg.		2	2	03	40	60	100	2
	1	18KVK39	Building Materials Testing Laboratory Vyavaharika Kannada (Kannada for communication)/	Civil Engg.		. 2	. 2	03	40	60	100	2
			OR	+		2			100			
9	HSMC	18KAK39	Aadalitha Kannada (Kannada for Administration)			2	-	-	100	-		
			OR	HSMC							100	1
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	-	-	02	40	60		
					I	Examination	n is by obje	ective type	questions	The second of the second		
				mom	17	08		24	420	480		
				TOTAL	OR	OR	04	OR	OR	OR	900	2
					18	10		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who

(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for

SEE.

(b)These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B. Tech/B. Plan day college programme (For more details refer to Chapter 6,AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

The activities can be can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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Dept. of Civil Engineering

Alva's Institute of Engg. & Technology

Mijar, Moodbidri - 574 225

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018-19 Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

IV SEMESTED

					Teachi	ng Hours /\	Veek		Exami	nation		
SI. No					Theory	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	P		0	· ·	T	
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2	_	03	40	60	100	3
2	PCC	18CV42	Analysis of Determinate Structures	Civil Engg.	3	2	-	03	40	60	100	4
3	PCC	18CV43	Applied Hydraulics	Civil Engg.	3	0	-	03	40	60	100	3
4	PCC	18CV44	Concrete Technology	Civil Engg.	3	0		03	40	60	100	3
5	PCC	18CV45	Advanced Surveying	Civil Engg.	3	0	-	03	40	60	100	3
6	PCC	18CV46	Water Supply & Treatment Engineering	Civil Engg.	3	0	-	03	40	60	100	3
7	PCC	18CVL47	Engineering Geology Laboratory	Geology		2	2	03	40	60	100	2
8	PCC	18CVL48	Fluid Mechanics and Hydraulic Machines Laboratory	Civil Engg.		2	2	03	40	60	100	2
9		18KVK39/49	Vyavaharika Kannada (Kannada for Communication)/ OR		_	2	_	_	100	_		
	HSMC	18KAK39/49	Aadalitha Kannada (Kannada for Administration)	HSMC							100	1
	HSMC		OR								100	
		1007000/40	G. C. C. S. J. P. C. Singal Ethics and Cuben Law		1	-	-	02	40	60		
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		E		n is by obje	ective type questions				
				TOTAL	17	08		24	420	480		
					OR	OR	04	OR	OR	OR	900	24
				The second of the second of	18	10		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39/49Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39/49Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs Mathematics

Additional Mathematics - II NCMC 18MATDIP41 (a) The mandatory non - credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent

semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Dept. of Civil Engineering
Alva's Institute of Engg. & Technology
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Scheme of Teaching and Examination 2018-19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 - 19)

Programme: CIVIL ENGINEERING

V SEMESTER

					Teachir	g Hours	/Week		Exam	ination		
SI. No	.	ourse and ourse code	Course Title	Teaching	Theory	Tutorial	Practical/ Drawing	uration in hours	IE Marks	SEE Marks	tal Marks	Credits
1	HSMC	18CV51	Country 11		L	T	P	Q	Ö	S	To	
_			Construction Management & Entrepreneurship	Civil Engg.	2	2		03	40	60	100	
2	PCC	18CV52	Analysis of Indeterminate Structures	Civil Engg.	_		-	03	40	00	100	3
3	PCC	18CV53	Design of RC Structural Elements		3	2	-	03	40	60	100	4
4	PCC	18CV54	Basic Geotechnical Engineering	Civil Engg.	3	2	-	03	40	60	100	4
5	PCC	18CV55	Municipal Wastewater Engineering	Civil Engg.	3		-	03	40	60	100	3
6	PCC	18CV56	Highway Engineering	Civil Engg.	3		-	03	40	60	100	3
7	PCC	18CVL57		Civil Engg.	3 .			03	40	60	100	3
8	PCC		Surveying Practice	Civil Engg.	-	2	2	03	40	60	100	2
0	rec	18CVL58	Concrete and Highway Materials Laboratory	Civil Engg.		2	2	03	40	60	100	2
9	TICLEC	1000000		Civil/Environmental				- 00	10	- 00	100	1 -
7	HSMC	18CIV59	Environmental Studies	[Paper setting Board: Civil Engineering]	1		-	02	40	60	100	1
				TOTAL	18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Dept. of Civil Engineering Alva's Institute of Engg. & Technology Mijar, Moedbidri - 574 225

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Scheme of Teaching and Examination 2018-19

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

Programme: CIVIL ENGINEERING (Effective from the academic year 2018 – 19)

VI SEMESTER	VI	S	EM	ES	TER
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					Teac	hing Hours	/Week					
51. No 1		urse and urse code	Course Title	Teaching	Theory Lecture	Tutorial	Practical/ Drawing	buration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P] "	0	S	T	
1	PCC	18CV61	Design of Steel Structural Elements	Civil Engg.	3	2		03	40	60	100	4
2	PCC	18CV62	Applied Geotechnical Engineering	Civil Engg.	3	2		03	40	60	100	4
3	PCC	18CV63	Hydrology and Irrigation Engineering	Civil Engg.	3	2		03	40	60	100	4
4	PEC	18CV64X	Professional Elective -1	Civil Engg.	3		-	03	40	60	100	3
5	OEC	18CV65X	Open Elective -A	Civil Engg.	3			03	40	60	100	3
6	PCC	18CVL66	Software Application Laboratory	Civil Engg.		2	2	03	40	60	100	2
7	PCC	18CVL67	Environmental Engineering Laboratory	Civil Engg.		2	2	03	40	60	100	2
8	EP	18CVEP68	Extensive Survey project	Civil Engg.		2	2	03	40	60	100	2
9	Internship	-	Internship	To be carried of	out during t	the vacation	n/s of VI and	VII seme	sters an	d /or VI	and VI	II semesters.
				TOTAL	15	12	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

Pı	roi	fessi	0	nal	Elective	-1

Course code under18CV64X	
18CV641	Matrix Method of Structural Analysis
18CV642	Solid Waste Management
18CV643	Alternate Building Materials
18CV644	Ground Improvement Techniques
18CV645	Railway, Harbours, Tunnelling & Airports

Open Elective -A

Course code under18CV65X		
18CV651	Remote Sensing & GIS	
18CV652	Traffic Engineering	
18CV653	Occupational Health & Safety	

18CV654

Sustainability Concepts in Civil Engineering

Students can select any one of the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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Dept. of Civil Engineering

Alva's Institute of Engg. & Technology

Mijar, Moodbidri - 574 225

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Scheme of Teaching and Examination 2018-19

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

(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VII SEMESTER

					Teachi	ng Hours /	Week		Exa	nination		
SL No	. No Course and Course code		Course lifte	Teaching Department	Theory	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	PCC	18CV71	Quality Surveying and Contract Management	Civil Engg.	3	1	-	03	40	60	100	3
2	PCC	18CV72	Design of RCC and Steel Structures	Civil Engg.	3	-	-	03	40	60	100	3
3	PEC	18CV73X	Professional Elective - 2	Civil Engg.	3		-	03	40	60	100	3
	PEC	18CV74X	Professional Elective - 3	Civil Engg.	3		_	03	40	60	100	3
4		18CV75X	Open Elective -B	Civil Engg.	3		-	03	40	60	100	3
5	OEC		Computer Aided Detailing of Structures	Civil Engg.		2	2	03	40	60	100	2
6	PCC	18CVL76	Geotechnical Engineering Laboratory	Civil Engg.		2	2	03	40	60	100	2
7	PCC .	18CVL77					2		100	-	100	1
8	Project	18CVP78	Project Work Phase - 1	(If not complet	ed during t	he vacatio	on of VI	and VII ser	mesters, i	shall be	carried out d	luring the
	Lumbin		Internship	vacation of VII	and Will co	mactare)	OII OI VI	und vir se				
9	Internship	_	mensup	TOTAL	15	04	06	21	380	420	00	20

Note: PCC: Professional core, PEC: Professional Elective.

Professional Elective - 2

Course code under 18CV73X	Course Title	
18CV731	Theory of Elasticity	and the second
18CV732	Air Pollution and Control	
18CV733	Pavement Materials & Construction	
18CV734	Ground Water Hydraulics	
18CV735	Masonry Structures Professional Electives - 3	

Course code under 18CV74X	Course Title
18CV741	Earthquake Engineering
18CV742	Design Concepts of Building Services
	Reinforced Earth Structures
18CV743	

18CV744	Design of Hydraulic Structures
18CV745	Urban Transport Planning
	Open Elective -B
Course code under 18CV75X	Course Title
18CV751	Finite Element Method
18CV752	Numerical Methods and Applications
18CV753	Environmental Protection and Management

Students can select any one of the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).

Selection of an open elective shall not be allowed if,

- · The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- · A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6. CIE procedure for Project Work Phase - 1:

(i) 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 phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), 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. (ii) 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 phase -1, shall be based on the evaluation of project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), 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. Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Dept. of Civil Engineering
Alva's Institute of Engg. & Tech sology . Mijar, Moodbidri - 574 225

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Scheme of Teaching and Examination 2018 - 19

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

(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VIII SEMESTER

				_	Teachi	ng Hours	s /Week	Examination					
Sl. No		ourse and ourse code	Course Title	Teaching	Theory Lecture	Tutorial	Practical/ Drawing	Ouration in hours	IE Marks	EE Marks	otal Marks	Credits	
	1000	1			L	T	P	A	0	S	ř		
1	PCC	18CV81	Design of Pre-stressed Concrete	Civil Engg.	3			03	40	60	100	-	
2	PEC	18CV82X	Professional Elective - 4	Civil Engg.	3			03			100	3	
3	Project	18CVP83	Project Work Phase - 2	Civil Engg.			16		40	60	100	3	
4	Seminar	18CVS84	Technical Seminar				16	03	40	60	100	8	
•	Jennia	100 7 304	Technical Seminar	Civil Engg.			2	03	100	-	100	1	
5	Internship	18CVI85	Internship	Completed during semesters and /or v				03	40	60	100	3	
				TOTAL	06		18	15	260	240	500	18	

Note: PCC: Professional Core, PEC: Professional Elective.

Professional	Electives - 4	

Course code under 18CV82X	Course Title
18CV821	Bridge Engineering
18CV822	Prefabricated Structures
18CV823	Advanced Foundation Engineering
18CV824	Rehabilitation & Retrofitting
18CV825	Pavement Design

Project Work

CIE procedure for Project Work Phase - 2:

(i) 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 phase -2, shall be based on the evaluation of project work phase -2 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.

(ii) 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 phase -2, shall be based on the evaluation of project work phase -2 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 for Project Work Phase - 2:

(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department. (ii) Interdisciplinary: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).

Dept. of Civil Engineering Alva's Institute of Engg. & Technology

Mijar, Moedbidri - 574 225

Alva's Institute of Engg. & Technology, Mijar, MOODBIDRI - 574 225, D.K.

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

III SEMESTER

SI			Teaching	Teaching	Hours /Week		Exami	nation		Credits
No	I ATTECO COMA	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics –III*	Maths	04		03	60	40	100	4
2	17CV32	Strength of Materials	Civil Engg.	04		03	60	40	100	4
3	17CV33	Fluid Mechanics	Civil Engg.	04		03	60	40	100	4
4	17CV34	Basic Surveying	Civil Engg.	04		03	60	40	100	4
5	17CV35	Engineering Geology	Civil Engg.	04		03	60	40	100	3
6	17CV36	Building Materials and Construction	Civil Engg.	03		03	60	40	100	4
7	17CVL37	Building Materials Testing Laboratory	Civil Engg.	01-Hour In 02-Hour Pr		03	60	. 40	100	2
8	17CVL38	Basic Surveying Practice	Civil Engg.	01-Hour In 02-Hour Pr		03	60	40	100	2
1	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
		TOTAL	l .	Theory Practic	: 24hours al: 06 hours	25	510	340	850	28

^{1.} Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics - I, which is 03 contact hours per week.

1	1	17MATDIP31	Additional Mathematics –I	Maths	03	03	60	-	60	
- 1		111111111111111						Contract of the Contract of th	The second secon	

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

Dept. of Civil Engineering Alva's Institute of Engg. & Technology Mijar, Moodsidri - 574 225 4

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Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS)

SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

			Teaching	Teaching Hours /Week				Credits		
SI. No.	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics –IV*	Maths	04		03	60	40	100	4
2	17CV42	Analysis of Determinate Structures	Civil Engg.	04		03	60	40	100	3
3	17CV43	Applied Hydraulics	Civil Engg.	04		03	60	40	100	4
4	17CV44	Concrete Technology	Civil Engg.	04		03	60	40	100	4
	17CV45	Basic Geotechnical Engineering	Civil Engg.	04		03	60	40	100	4
5		Advanced Surveying	Civil Engg.	03		03	60	40	100	4
6	17CV46	Fluid Mechanics Laboratory	Civil Engg.	01-Hour Inst	-	03	60	40	100	2
7	17CVL47		Civil Engg.	01-Hour Insti	ruction	03	60	40	100	2
:	17CVL48	Engineering Geology Laboratory			licai	01	30	20	50	01
	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities TOTAL	Theory: 24 Practical: 06	hours	25	510	340	850	28

1. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – II, which is 03 contact hours per week.

2. Audit Course:	(arrespt B Sc candidates) have to register to	Additional Island		T (0
(i) *All lateral entry students	(except B.Sc candidates) have to register to		03 60 -	60
		Maths 03	03	
	Additional Mathematics –II		0/	
1 17MATDIP41		D Co condidates)	~ 60 /	이 시간이다고 있는 그 그리고 있었습니다. 이 교육은 이 없었다는

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

Alva's Institute of Engg. & Technology

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Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

VSE	SEMESTER	e Title	Teaching Department	Teaching Hours /Week				Credits		
SI. No.	Course Code			Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CV51	Design of RC Structural Elements	Civil Engg.	04		03	60	40	100	4
2	17CV52	Analysis of Indeterminate Structures	Civil Engg.	04		03	60	40	100	4
3	17CV53	Applied Geotechnical Engineering	Civil Engg.	04		03	60	40	100	4
4	17CV54	Computer Aided Building Planning and	Civil Engg.	04		03	60	40	100	4
5	17CV55X	Professional Elective-1	Civil Engg.	03		03	60	40	100	3
		Open Elective-1	Civil Engg.	03		03 ·	60	40	100	3
7	17CV56X 17CVL57	Geotechnical Engineering Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CVL58	Concrete and Highway Materials Laboratory	Civil Engg.	01-Hour In 02-Hour P	nstruction	03	60	40	100	2
			TOTAL	Theory: Practical:	22hours 06 hours	24	480	320	800	26

	ive - 1*** (List offered by Civil Engg Board only)
17CV561	Traffic Engineering
	Sustainability Concepts in Engineering
	Remote Sensing and GIS
	Occupational Health and Safety
17CV563	NCC
	17CV562 17CV563 17CV563 17CV563

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives).

Selection of an open elective is not allowed, if:

The candidate has no pre - requisite knowledge.

· The candidate has studied similar content course during previous semesters.

The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).

Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

Dept. of Civil Engineering Alva's Institute of Engg. & Technology

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

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Sl.	Course	Title	Teaching Department /Wee		ng Hours Veek	Examination				
No.			Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks		
1	17CV61	Construction Management and Entrepreneurship	Civil Engg.	04		03	60	40	100	4
2	17CV62	Design of Steel Structural Elements	Civil Engg.	04		03	60	40	100	4
3	17CV63	Highway Engineering	Civil Engg.	04		03	60	40	100	4
4	17CV64	Water Supply and Treatment Engineering	Civil Engg.	04		03	60	40	100	4
5	17CV65X	Professional Elective-2	Civil Engg.	03		03	60	40	100	3
6	17CV66X	Open Elective-2	Civil Engg.	03		03	60	40	100	3
7	17CVL67	Software Application Laboratory	Civil Engg.	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17CVL68	Extensive Survey Project /Camp	Civil Engg.	01-Hour 1 02-Hour	Instruction Practical	03	60	40	100	2
	L		TOTAL	Theory:2	22hours 1: 06 hours	24	480	320	800	26

D. Cariana	Professional Elective-2 17CV651 Solid Waste Management		e – 2*** (List offered by Civil Engg Board only)
			Water Resource Management
17CV651	Matrix Method of Structural Analysis	17CV662	Environmental Protection and Management
17CV652	Alternative Building Materials	17CV663	Numerical Methods and Applications
		17CV664	Finite Element Analysis
17CV654	Ground Improvement Techniques	170,00	

***Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed, if:

· The candidate has no pre - requisite knowledge.

· The candidate has studied similar content course during previous semesters.

The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s).

Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

Dept. of Civil Engineering Alva's Institute of Engg. & Technology Mijar, Mondhidri . 574 225

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Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

VII SEMESTER

SI			Teaching	Teaching	Hours /Week		Examin	ation		Credits
No		Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CV71	Municipal and Industrial Waste Water Engineering	Civil Engg.	04		03	60	40	100	4
2	17CV72	Design of RCC and Steel Structures	Civil Engg.	04		03	60	40	100	4
3	17CV73	Hydrology and Irrigation Engineering	Civil Engg.	04		03	60	40	100	4
4	17CV74X	Professional Elective-3	Civil Engg.	03		03	60	40	100	3
5	17CV75X	Professional Elective-4	Civil Engg.	03		03	60	40	100	3
6	17CVL76	Environmental Engineering Laboratory	Civil Engg.	01-Hour II 02-Hour P		03	60	40	100	.2
7	17CVL77	Computer Aided Detailing of Structures	Civil Engg.	01-Hour II 02-Hour P		03	60	40	100	2
8	17CVP78	Project Work Phase-I + Project work Seminar	Civil Engg.		03	-	-	100	100	2
		TOTAL		Theory:18 Practical: 09 hours	3 hours and Project:	21	420	380	800	24

Drofossional	Professional Elective-3		l Elective-4
17CV741	Design of Bridges	17CV751	Urban Transportation and Planning
17CV741	Ground Water & Hydraulics	17CV752	Prefabricated Structures
	Design Concept of Building Services	17CV753	Rehabilitation and Retrofitting of Structures
17CV743		17CV754	Reinforced Earth Structures
17CV744	Structural Dynamics		

1. Project Phase - I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skills

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Dept. of Civil Engineering Institute of Engg. & Technology PRINCIPAL

Alva's Institute of Engg. & Technology

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Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2017-2018

B.E: CIVIL ENGINEERING

VIII SEMESTER

SI.	Course		Teaching	Teaching	Hours /Week		Examina	tion		Credits
No.	Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CV81	Quantity Surveying and Contracts Management	Civil Engg.	4	-	3	60	40	100	4
2	17CV82	Design of Pre Stressed Concrete Elements	Civil Engg.	4	-	3	60	40	100	4
3	17CV83X	Professional Elective-5	Civil Engg.	3	-	3	60	40	100	3
4	17CV84	Internship/ Professional Practice	Civil Engg.	Indus	stry Oriented	3	50	50	100	2
5	17CVP85	Project Work-II	Civil Engg.		6	3	100	100	200	6
6	17CVS86	Seminar on current trends in Engineering and Technology	Civil Engg.	-	4	-	-	100	100	1
		TOTAL			: 11 hours and Seminar: rs	15	330	370	700	2

Professiona	al Elective -5	
17CV831	Earthquake Engineering	
17CV832	Hydraulic Structures	
17CV833	Pavement Design	
17CV834	Advanced Foundation Design	

1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period

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B.E. CIVIL ENGINEERING

III SEMESTER	(Common to
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SI.	Subtreat Co. I.			ng Hours / Veek		Exam	ination		Credits
No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CV31	Engineering Mathematics – III	04		03	80	20	100	4
2	15CV32	Strength of Materials	04		03	80	20	100	4
3	15CV33	Fluid Mechanics	04		03	80	20	100	4
4	15CV34	Basic Surveying	04		03	80	20	100	4
5	15CV35	Engineering Geology	04		03	80	20	100	4
6	15CV36	Building Materials and Construction	04		03	80	-20	100	4
7	15CVL37	Building Materials Testing Laboratory		1I+2P	03	80	20	100	2
	15CVL38	Basic Surveying Practice		1I+2P	03	80	20	100	2
_		TOTAL	24	6	24	640	160	800	28

Note:

Core Subjects: 15CV31, 15CV32, 15CV33, 15CV34, 15CV35, 15CV36

Laboratory & Practice: 15CVL37, 15CVL38

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B.E. CIVIL ENGINEERING

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IV SEMESTER

CI N	211		Teaching We						
Sl. No	Subject Code	Title	Theory	Practical / Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	Credits
1	15CV 41	Engineering Mathematics – IV	04		03	80	20	100	4
2	15CV42	Analysis of Determinate Structures	04		03	80	20	100	4
3	15CV43	Applied Hydraulics	04		03	80	20	100	4
4	15CV 44	Concrete Technology	04		03	80	20	100	4
5	15CV45	Basic Geotechnical Engineering	04		03	80	20	100	4
6	15CV46	Advanced Surveying	04		03	80	20	100	4
7	15CVL47	Fluid Mechanics and Hydraulic Machines Laboratory		1I+2P	03	80	20	100	2
8	15CVL48	Engineering Geology Laboratory		1I+2P	03	80	20	100	2
		TOTAL	24	06	24	640	160	800	2

Note:

Core Subjects: 15CV 41, 15CV42, 15CV43, 15CV 44, 15CV45, 15CV46

Laboratory & Practice: 15CVL47, 15CVL48

Dept. of Civil Engineering
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B.E. CIVIL ENGINEERING

V SEMESTER

C1 11	Subject			ching s/Week	Examination				Credits
Sl. No.	Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15CV51	Design of RC Structural Elements	04		03	80	20	100	4
2	15CV52	Analysis of Indeterminate Structures	04		03	80	20	100	4
3	15CV53	Applied Geotechnical Engineering	04		03	80	20	100	4
4	15CV54	Computer Aided Building Planning and Drawing	01	3D	03	80	20	100	4
5	15CV55X	Professional Elective-1	03		03	80	20	100	3
6	15CV56X	Open Elective-1	03		03	80	20	100	3
7	15CVL57	Geotechnical Engineering Laboratory		1I+2P	03	80	20	100	2
8	15CVL58	Concrete and Highway Materials Laboratory		1I+2P	03	80	20	100	2
		TOTAL	19	09	24	640	160	800	26

Professional Elective 1		Open Elective	e 1
15CV551	Air pollution and Control	15CV561	Traffic Engineering
15CV552	Railways, Harbours, tunneling and Airports	15CV562	Sustainability Concepts in Engineering
15CV553	Masonry Structures	15CV563	Remote Sensing and GIS
15CV554	Theory of Elasticity	15CV564	Occupational Health and Safety
150.55.	12001) 02 22200001)	15NC565	NCC

1. Professional Elective: Elective relevant to chosen specialization/ branch

2. Open Elective: Electives from other technical and/or emerging subject areas

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B.E. CIVIL ENGINEERING

	I SEMESTE			ching s /Week		Credits			
Sl. No.	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
,	1500001	Construction Management and Entrepreneurship	04		03	80	20	100	4
1	15CV61		04		03	80	20	100	4
2	15CV62	Design of Steel Structural Elements	7 7 7 7 7 7 7 7 7 7 7 7		03	80	20	100	4
3	15CV63	Highway Engineering	04			80	20	100	4
4	15CV64	Water Supply and Treatment Engineering	04		03		20	100	3
		Professional Elective 2	03		03	80			3
5	15CV65X	· · · · · · · · · · · · · · · · · · ·	03		03	80	20	100	
6	15CV66X	Open Elective 2	02	1I+2P	03	80	20	100	2
7	15CVL67	Software Application Lab		1I+2P	03	80	20	100	2
8	15CVP68	Extensive Survey Project /Camp	22	6	24	640	160	800	26
	7 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	TOTAL							

Solid Waste Management Solid Waste Managem			Open Electiv	ve-2
SCV651 Solid Waste Management 15CV662 Environmental Protection and Management 15CV652 Matrix Method of Structural Analysis 15CV663 Numerical Methods and applications 15CV663 Numerical Methods and applications	ofessional E	lective-2	15CV661	Water Resource Management
CV652 Matrix Method of Structural Analysis 15CV663 Numerical Methods and applications		Solid Waste Management	15CV662	Environmental Protection and Management
Duilding Materials		Matrix Method of Structural Analysis		
CV654 Ground Improvement Techniques 13CV604	CV653	Alternative Building Materials	15CV664	Finite Element Analysis

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B.E. CIVIL ENGINEERING

VII SEMESTER

	Cubina	Subject Title	Teaching Hours /Week				Credits		
Sl. No.			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15CV71	Municipal and Industrial Waste Water Engineering	04		03	20	80	100	4
2	15CV72	Design of RCC and Steel Structures	04		03	20	80	100	4
3	15CV73	Hydrology and Irrigation Engineering	04		03	20	80	100	4
4	15CV74X	Professional Elective 3	03		03	20	80	100	3
5	15CV75X	Professional Elective 4	03		03	20	80	100	3
6	15CVL76	Environmental Engineering Laboratory		1I+2P	03	20	80	100	2
7.	15CVL77	Computer Aided Detailing of Structures		1I+2D	03	20-	80	100	2
8	15CVP78	Project Phase I +Project Seminar		3		100		100	2
		TOTAL	18	9	21	240	560	800	24

Professiona	al Elective 3	Professional Ele	ctive 4
15CV741	Design of Bridges	15CV751	Urban Transportation and Planning
15CV742	Ground Water & Hydraulics	15CV752	Prefabricated Structures
15CV743	Design Concept of Building Services	15CV753	Rehabilitation and Retrofitting of Structures
15CV744	Structural Dynamics	15CV754	Reinforced Earth Structures

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1. Project Phase-I + Seminar: Literature Survey, Problem Identification, objectives and Methodology, Submission of synopsis and seminar

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VIII SEMESTER B.E. CIVIL ENGINEERING

Sl. No.	Subject Code	Title	Teaching Hours /Week		Examination				
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical	Total Marks	
1	15CV81	Quantity Surveying and Contracts Management	4	-	3	20	Marks 80	100	4
2	15CV82	Design of Pre Stressed Concrete Elements	4	-	3	20	80	100	4
3	15CV83X	Professional Elective 5	3	-	3	20	80	100	3
4	15CV84	Internship/Professional Practice	Industry	Oriented	3	50	50	100	2
5	15CVP85	Project Work	-	6	3	100	100	200	6
6	15CVS86	Seminar on current trends in Engineering and Technology	-	4	-	100		100	1
		TOTAL	11	10	15	310	390	700	20

Profession	al Elective 5	
15CV831	Earthquake Engineering	
15CV832	Hydraulic Structures	
15CV833	Pavement Design	
15CV834	Advanced Foundation Design	

Dept. of Civil Engineering Alva's Institute of Engg. & Technology Mijar, Moodbidri - 574 225

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SCHEME OF TEACHING & EXAMINATION BE CIVIL ENGINEERING III SEMESTER

					ng hours reek		Ex	amination	
SI. No	Subject Code	Title	Teaching Dept.	Th.	Pr.	Dur- ation	I.A. Max. Marks	Theory/ Pract. Max. Marks	Total Marks Max. Marks
1	10 MAT 31	Engineering Mathematics –III	Maths	4		3	25	100	125
2	10 CV 32	Building Materials and Construction Technology	Civil	4		3	25	100	125
3	10 CV 33	Strength of Materials	Civil	4		3	25	100	125
4	10 CV 34	Surveying – I	Civil	4		3	25	100	125
5	10 CV 35	Fluid Mechanics	Civil	4		3	25	100	125
6	10 CV 36	Applied Engineering Geology	Civil/Geo.	4		3	25	100	125
7	10 CVL 37	Civil Engg. Material Testing Laboratory	Civil		3	3	25	50	75
	10 CVL 38	Surveying Practice – I	Civil		3	3	25	50	75
-1			Total	22	08	24	200	700	900

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SCHEME OF TEACHING & EXAMINATION BE CIVIL ENGINEERING IV SEMESTER

S.	Subject Code	Title	Teaching Dept.	Teaching hours /week		Examination				
No				Th.	Pr.	Dur- ation	I.A. Max. Marks	Theory/ Pract. Max. Marks	Total Marks Max. Marks	
1	10 MAT 41	Engineering Mathematics –IV	Maths	4		3	25	100	125	
2	10 CV 42	Concrete Technology	Civil	4		3	25	100	125	
3	10 CV 43	Structural Analysis – I	Civil	4		3	25	100	125	
4	10 CV 44	Surveying – II	Civil	4		3	25	100	125	
5	10 CV 45	Hydraulics and Hydraulic Machines	Civil	4		3	25	100	125	
6	10 CV 46	Building Planning & Drawing	Civil	1	6	4	25	100	125	
7	10 CVL 47	Surveying Practice-II Laboratory	Civil		3	3	25	50	75	
8	10 CVL 48	Applied Engineering Geology Laboratory	Civil/Geo.		3	3	25	50	75	
			Total	21	12	25	200	700	900	

Dept. of Civil Engg. & Technology

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SCHEME OF TEACHING AND EXAMINATION **B.E. CIVIL EINGINEERING**

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	Subject Code				ng Hrs / eek		Exam	ination	
SI.		mu 43 611	Teaching	W	eek			Marks	
No.		Title of the Subject	Dept.	Theory	Practical	Duration (Hrs)	IA	Theory / Practical	Total
,	10 AL 51	Management & Entrepreneurship	Any Dept.	04	-	03	25	100	125
2	10 CV 52	Design of RCC Structural Elements	Civil	04		03	25	100	125
_	10 CV 53	Structural Analysis – II	Civil	04		03	25	100	125
3	10 CV 54	Geotechnical Engineering. – I	Civil	04		03	25	100	125
5	10 CV 54	Hydrology and Irrigation Engineering	Civil	04	-	03	25	100	125
6	10 CV 56	Transportation Engineering – I	Civil	04		03	25	100	125
7	10 CVL 57	Hydraulics and Hydraulic Machinery Lab.	Civil	-	03	03	25	50	75
8	10 CVL 58	Computer Aided Design Lab.	Civil		03	03	25	50	75
0	10 CVL 36	TOTAL	2111	24	06	24	200	700	900

SCHEME OF TEACHING AND EXAMINATION **B.E. CIVIL EINGINEERING** VI SEMESTER

		ibject Code Title of the Subject		Teaching Hrs / Week		Examination				
SI.	Cubinat Code		Teaching Dept.			Duration	Marks			
No.	Subject Code			Theory	Practical	Duration (Hrs)	IA	Theory / Practical	Total	
1	10 CV 61	Environmental Engineering - I	Civil	04		03	25	100	125	
2	10 CV 62	Design & Drawing of RC structures	Civil	02	03	04	25	100	125	
3	10 CV 63	Transportation Engineering – II	Civil	04	-	03	25	100	125	
4	10 CV 64	Geotechnical Engineering. – II	Civil	04		03	25	100	125	
5	10 CV 65	Hydraulic Structures and Irrigation Design-Drawing	Civil	02	03	04	25	100	125	
6	10 CV 66x	Elective-I (Group A)	Civil	04	-	03	25	100	125	
7	10 CVL 67	Geotechnical Engineering. Lab.	Civil		03	03	25	50	75	
8	10 CVL 68	Extensive Survey Viva Voce	Civil		03	03	25	50	75	
		TOTAL	+	20	12	25	200	700	90	

Elective-I (Group A)

	Theory of Elasticity Alternative Building Materials and Technologies	10 CV 665 10 CV 666	Ground Water Hydrology Rural Water Supply and Sanitation Traffic Engineering
10 CV 663	Ground Improvement Techniques	10 CV 667	Traffic Engineering

Advanced Surveying 10 CV 664

Dept. of Civil Engineering
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SCHEME OF TEACHING AND EXAMINATION B.E. CIVIL EINGINEERING VII SEMESTER

	Subject Code			Teaching	Hrs / Week	Examination			
SI.		Title of the Subject	Teaching					Marks	
No.		Title of the Subject	Dept.	Theory	Practical	Duration (Hrs)	IA	Theory / Practical	Total
1	10 CV 71	Environmental EngineeringII	Civil	04		03	25	100	125
2	10 CV 72	Design of Steel Structures	Civil	04		03	25	100	125
3	10 CV 73	Estimation and Valuation	Civil	04		03	25	100	125
4	10 CV 74	Design of Pre Stressed Concrete Structures	Civil	04		03	25	100	125
5	10 CV 75x	Elective-II (Group B)	Civil	04		03	25	100	125
6	10 CV 76x	Elective-III (Group C)	Civil	04		03	25	100	125
7	10 CVL 77	Environmental Engineering. Lab	Civil		03	03	25	50	75
8	10 CVL 78	Concrete and Highway Materials lab.	Civil		03	03	25	50	75
		TOTAL		24	06	24	200	700	900

		-	
Flective-	ш	Group	B)

Elective-III (Group C)

10 CV	751	Matrix Method of Structural Analysis	10 CV 761	Numerical methods in Civil Engineering
10 CV	752	Advanced Design of RC Structures	10 CV 762	Rock Mechanics
10 CV		Design of Masonry Structures	10 CV 763	Pavement Materials and Construction
10 CV		Earth and Earth Retaining Structures	10 CV 764	Photogrammetry and Remote Sensing
10 CV		Highway Geometric Design	10 CV 765	Air Pollution and Control
10 CV		Open Channel Hydraulics	10 CV 766	Design and Drawing of Bridges.: * (2 Hrs of Theory + 3 Hrs of Drawing) * (Exam Duration : 4 Hrs)
10 CV	V 757	Solid Waste Management	10 CV 767	Structural Dynamics

SCHEME OF TEACHING AND EXAMINATION B.E. CIVIL EINGINEERING VIII SEMESTER

SL. No.			Teaching Dept.	Teaching Hrs / Week		Examination			
		Title of the Subject				Duration (Hrs)	Marks		
	Subject Code			Theory	Practical		IA	Theory / Practical	Total
1	10 CV 81	Advanced Concrete Technology	Civil	04		03	25	100	125
2	10 CV 82	Design and Drawing of Steel Structures	Civil	02	03	04	25	100	125
2	10 CV 83x	Elective-IV (Group D)	Civil	04		03	25	100	125
4	10 CV 84x	Elective-V (Group E)	Civil	04		03	25	100	125
-5	10 CV 85	Project Work	Civil		06	03	100	100	200
6	10 CV 86	Seminar	Civil		03	03	50	-	50
TOTAL					12	19	250	500	750

Elective-IV (Group D)

10 CV 831	Advanced Pre-stressed Concrete Structures
10 CV 832	Advanced Foundation Design
10 CV 833	Pavement Design
10 CV 834	Earthquake Resistant Design of Structures
10 CV 835	Industrial Waste Water Treatment
	Quality Management System
10 CV 836	In Civil Engineering

Elective-V (Group E)

10 CV 841 Finite Element Analysis
10 CV 842 Reinforced Earth Structures
10 CV 843 Urban Transport Planning
10 CV 844 Geographic Information System
10 CV 845 Advanced Design of Steel Structures
10 CV 846 Water Resources Engineering

10 CV 847 Environmental Impact Assessment

H.O.D.

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