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		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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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. B. Serievel 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
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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	1 "	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

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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 lifle	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	ad 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
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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

Sl. No	Course and Course code		Course Title	Teaching	Teaching Hours /Week			Examination				
					Theory	Tutorial	Practical/ Drawing	uration in hours	IE Marks	EE Marks	otal Marks	Credits
	1000	1			L	T	P	a	0	S	Ĕ	
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				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

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