

R.V. College of Engineering, Bangalore – 59*(Autonomous Institution affiliated to VTU, Belgaum)***Department of Civil Engineering****SCHEME OF SYLLABUS**

THIRD SEMESTER								
Sl. No.	Course Code	Course	BoS	Credit Allocation				Total Credits
				Theory	Practical	Tutorial	Self Study	
1	12MA31	Applied Mathematics-III	Sc	3	0	1	0	4
2	12EM32	Engineering Materials	ME	3	0	0	0	3
3	12CV33/ ME33/IM33	Mechanics of Materials	CV	3	1	0	1	5
4	12CV34	Surveying	CV	3	1	0	1	5
5	12CV35	Fluid mechanics	CV	3	1	0	1	5
6	12CV36	Building Construction	CV	3	0	0	1	4
7	12DMA37	Bridge Course Mathematics – I	Sc					
		Total No of credits						26
		No. of Hrs.		18	06	02	16	42

FOURTH SEMESTER								
Sl. No.	Course Code	Course	BoS	Credit Allocation				Total Credits
				Theory	Practical	Tutorial	Self Study	
1	12MA41	Applied Mathematics IV	Sc	3	0	1	0	4
2	12EB42	Environmental Science and Biology for Engineers	Sc	3	0	0	1	4
3	12CV43	Concrete Technology	CV	3	1	0	1	5
4	12CV44	Environmental Engineering	CV	3	1	0	1	5
5	12CV45	Structural Analysis-I	CV	3	0	1	1	5
6	12CVL46	Civil Engineering Graphics	CV	1	1	0	0	2
7	12HSS47	Innovation and Social skills	HSS	0	1	0	0	1
8	12DMA47	Bridge Course Mathematics - II	Sc					
								26
		No. of Hrs		16	08	04	16	44

FIFTH SEMESTER								
Sl. No.	Course Code	Course	BoS	Credit Allocation				Total Credits
				L	P	T	S	
1	12HSI51	Intellectual Property Rights & Entrepreneurship	HSS	3	0	0	0	3
2	12CV52	Structural Analysis - II	CV	3	0	1	1	5
3	12CV53	Design & Drawing of RCC Elements	CV	3	1	0	1	5
4	12CV54	Highway Engineering	CV	3	1	0	1	5
5	12CV5AX	Elective A	CV	3	0	0	1	4
6	12CV5BX	Elective B	CV	3	0	1	0	4
								26
		No. of Hrs./Week		18	04	04	04	30

SIXTH SEMESTER								
Sl. No.	Course Code	Course	BoS	Credit Allocation				Total Credits
				L	P	T	S	
1	12HSM61	Management & Organizational Behavior	HSS	3	0	0	0	3
2	12CV62	Hydrology & Irrigation	CV	3	0	0	1	4
3	12CV63	Geotechnical Engineering	CV	3	1	0	1	5
4	12CV64	Design & Drawing of Steel Structures	CV	3	1	1	0	5
5	12CV65	Emerging Technologies	CV	2	0	0	0	2
6	12CV6CX	Elective C	CV	3	0	0	1	4
7	12CV6DX	Elective D	CV	3	0	0	0	3
								26
		No. of Hrs./Week		20	04	0 2	03	29

List of Elective subjects V Semester

Course Code	Group –A	Course Code	Group –B
12CV5A1	Solid Waste Management	12CV5B1	Industrial Waste Water Treatment
12CV5A2	Alternative Building Materials And Technologies	12CV5B2	Environmental Impact Assessment
12CV5A3	Remote Sensing and Geographic Information System	12CV5B3	Principles of Bridge Engineering
12CV5A4	Numerical Methods in Civil Engineering	12CV5B4	Restoration and Rehabilitation of Structures

List of Elective subjects VI Semester

Course Code	Group –C VI Sem	Course Code	Group –D VI Sem
12CV6C1	Structural Masonry	12CV6D1	Pre Stressed Concrete
12CV6C2	Construction Management	12CV6D2	Green Building and Services
12CV6C3	Urban Transport Planning	12CV6D3	Traffic Engineering
12CV6C4	Air Pollution and Control	12CV6D4	Advanced Concrete Technology

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SEVENTH SEMESTER								
Sl. No	Course Code	Course	BoS	Credit Allocation				Total Credits
				Lecture	Tutorial	Practical	Self-Study	
1	12CV71	Geotechnical Engineering II	CV	4	1	0	0	5
2	12CV72	Estimation & Costing	CV	4	0	1	0	5
3	12HSC73*	Legal Studies and Professional Ethics for Engineers	HSS	2	0	0	0	2
4	12CV74**	Extensive Survey Project	CV	0	0	5	0	5
5	12CV7EX	Elective E (PC)	CV	4	0	0	0	4
6	12GF7XX	Elective F	Respective BoS	4	0	0	0	4
7	12GG7XX	Elective G	Respective BoS	3	0	0	0	3
Credit Total				21	01	06	0	28
No. of Hrs.				21	02	12	00	35

12HSC73* is a mandatory Audit Course for lateral entry Diploma student.

12CV74** Extensive Survey Project shall be conducted in the vacation period between VI and VII Semester

Subject code	Professional Elective 12CV7EX	Professional Elective 12GF7XX	Professional Elective 12GG7XX
12CV7E1	Advanced design of RCC structures	To be opted from electives offered by other Departments, please see the list in following pages	To be opted from electives offered by other Departments, please see the list in following pages
12CV7E2	Hazardous Waste Management		
12CV7E3	Transportation Engineering		
12 CV7E4	Valuation Engineering		
12 CV7E5	Matrix Methods Of Structural Analysis		
12 CV7E6	Ground Water Hydrology		

EIGHTH SEMESTER								
Sl. No	Course Code	Course	BoS	Credit Allocation				Total Credits
				Lecture	Tutorial	Practical	Self Study	
1	12CV81	Project Work	CV	0	0	18	0	18

2	12CV82	Technical Seminar	CV	0	0	1	0	01
3	12HSS83	Innovation and Social Skills	HS S	0	0	1	0	01
		Credit Total		0	0	20	0	20
		No. of Hrs.		-	-	40	-	40

Sl. No.		BoS	Group F	Group G			
		Course Code	Course Title	Credits	Course Code	Course Title	Credits
1	BT	12GF701	Nanomaterials: Process and Applications	4	12GG701	Bioinformatics	3
2	CH	12GF702	Green Technology	4	12GG702	Industrial safety & risk management	3
3	CS	12GF703	Mobile Application Development	4	12GG703	Intelligent Systems	3
4	CV	12GF704	Disaster Management	4	12GG704	Solid Waste Management	3
5	EC	12GF705	Artificial Neural Networks	4	12GG705	Automotive Electronics	3
6	EE	12GF706	Design of Renewable Energy Systems	4	12GG706	Industrial electronics	3
7	IM	12GF707	Optimization Techniques	4	12GG707	Systems Engineering	3
8	IM	12GF708	Project Management	4			
9	IS	12GF709	Java & J2EE	4	12GG708	Cloud Computing	3
10	IT	12GF710	Virtual instrumentation	4	12GG709	MEMS	3
11	ME	12GF711	Automotive Engineering	4	12GG710	Mechatronics	3
12	TE	12GF712	Telecommunication Systems	4	12GG711	Space Technology and Applications	3
13				4	12GG712	Linear Algebra	3
14		12GF713	Thin films and surface engineering	4			
15	Science	12GF714	Engineering materials for advanced technology	4			
16	HSS	12GF715	Applied Psychology for Engineers	4			