

B.E. in Civil Engineering

I Semester - Physics Cycle										
Sl. No.	Course Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Examination			Credits
				L	T	P	CIE Marks	SEE Marks	Final Marks	
1	22MATCE101	Mathematics -I for Civil Engineering Stream	Maths	2	2	2	100	100	100	4
2	22PHYCE102	Physics for Civil Engineering Stream	Physics	2	2	2	100	100	100	4
3	22ESCCE101	Engineering Mechanics	Dept. of Civil Engg.	2	2	0	100	100	100	3
4	22ESC1XX	Engineering Science Course-I	Respective Engg.Dept	2	0	2	100	100	100	3
5	22ETC1XX	Emerging Technology Course	Any Dept.	3	0	0	100	100	100	3
6	22ENG101	Communicative English	Humanities	1	0	0	50	-	50	1
7	22KSK101/ 22KBK102	Sanskritika Kannada/Balake Kannada	Humanities	1	0	0	50	-	50	1
8	22IDTCE101	Innovation and Design Thinking	Dept. of Civil Engg.	1	0	0	50	-	50	1
TOTAL										20

II Semester - Chemistry Cycle										
Sl. No.	Course Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Examination			Credits
				L	T	P	CIE Marks	SEE Marks	Final Marks	
1	22MATCE201	Mathematics -II for Civil Engineering Stream	Maths	2	2	2	100	100	100	4
2	22CHECE202	Chemistry for Civil Engineering Stream	Chemistry	2	2	2	100	100	100	4
3	22CED201	Computer-Aided Engineering Drawing	Mec.	2	0	2	100	100	100	3
4	22ESC2XX	Engineering Science Course-II	Respective Engg.Dept	3	0	0	100	100	100	3
5	22PLC2XX	Programming Language Course	Any Dept.	2	0	2	100	100	100	3
6	22PWS26	Professional Writing Skills in English	Humanities	0	2	0	50	-	50	1
7	22ICO27	Indian Constitution	Humanities	0	2	0	50	-	50	1
8	22SFH28	Scientific Foundations of Health	Any Dept.	0	2	0	50	-	50	1

III Semester												
Sl. No	Course Code	Course Title	Category	Teaching Department	Teaching Hours / Week				Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	Self-study Component				
					L	T	P	S	CIE Marks	SEE Marks	Total Marks	
1	21MA3C01	Mathematics 3	BSC	MAT	3	0	0	0	50	50	100	3
2	21CV3C01	Building Materials and Construction	PC	CIV	3	0	0	0	50	50	100	3
3	21CV3C02	Mechanics of Fluids			3	2	0	0	50	50	100	4
4	21CV3C03	Surveying			3	0	2	0	50	50	100	4
5	21CV3C04	Mechanics of Deformable Bodies			3	2	0	0	50	50	100	4
6	21CV3L01	Metal and Timber Testing Lab	PI		0	0	2	0	50	50	100	1
7	21BG3C02	Biology for Engineers			Completed during II Sem Vacation				50	50	100	2
8	21KA3H01 / 21CI3H01	Kannada/CIPE	HSC	HSC	2	--	--	--	50	0	--	0
9	21CV3A01	AEC 3 -Drawing of Building Components	AEC	CIV	0	0	2	0	50	50	100	1
10	21CV3U01	Social Connect & Responsibility	UHV	CIV	--	--	--	--	--	--	--	0
TOTAL												22

Lateral Entry Students

11	21MA3N01	Additional Maths 1	BSC	MAT	2	2	0	0	100	0	100	0
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IV Semester												
Sl. No	Course Code	Course Title	Category	Teaching Department	Teaching Hours / Week				Examination			Credits
					Theory Lecture	Tutorial	Practical / Drawing	Self-study Component				
					L	T	P	S	CIE Marks	SEE Marks	Total Marks	
1	21MA4C01	Mathematics 4	BSC	MAT	3	0	0	0	50	50	100	3
2	21CV4C01	Applied Hydraulic Engineering	PC	CIV	3	0	0	0	50	50	100	3
3	21CV4C02	Concrete Technology			3	0	0	0	50	50	100	3
4	21CV4C03	Structural Analysis			3	2	0	0	50	50	100	4
5	21CV4C04	Water Supply and Treatment			3	0	2	0	50	50	100	4
6	21CV4L01	Fluid Mechanics Laboratory			0	0	2	0	50	50	100	1
7	21KA4H01/ 21CI4H01	Kannada/CIPE			HSC	HSC	2	--	--	--	50	0
8	21CV4A01	AEC 4 - Computer Aided Drawing	AEC	CIV	0	0	2	0	50	50	100	1
9	21CV4I01	Universal Human Values & Prof. Ethics	UHV	CIV	1	0	0	--	50	0	--	1
10	21CV4I01	Summer Internship 1	PI	CIV	Completed during II/III Sem Vacation				100	0	100	2
TOTAL												22

Lateral Entry Students

11	21MA4N01	Additional Maths 2	BSC	MAT	2	2	0	0	100	0	100	0
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V SEMESTER

DEPARTMENT OF CIVIL ENGINEERING SCHEME OF TEACHING AND EXAMINATION V SEMESTER B.E (AUTONOMOUS SCHEME)						
Sl.No.	Subject Code	Subject	L	T	P	Cr.
1	CV5C01	Analysis of Indeterminate Structures	3	2	0	4
2	CV5C02	Fundamentals of RC Design	3	0	0	3
3	CV5C03	Hydrology and Irrigation Engineering	3	2	0	4
4	CV5C04	Fundamentals of Geotechnical Engineering	3	0	0	3
5	CV5MXX	MOOC elective	3	0	0	3
6	CV5C05	Engineering Management & Entrepreneurship	3	0	0	3
7	CV5L01	Geotechnical Engineering Laboratory	0	0	2	1
8	CV5L02	Computer Aided Drawing	0	0	2	1
9	CV5D01	Design & Drawing of Irrigation Structures	1	0	2	2
Total Credits						24
Total Contact Hrs						29

VI SEMESTER

DEPARTMENT OF CIVIL ENGINEERING SCHEME OF TEACHING AND EXAMINATION VI SEMESTER B.E (AUTONOMOUS SCHEME)						
Sl.No.	Subject Code	Subject	L	T	P	Cr.
1	CV6C01	Design of RC Structural Elements	3	0	0	3
2	CV6C02	Applied Geotechnical Engineering	3	0	0	3
3	CV6C03	Design of Steel Structures	3	0	0	3
4	CV6C04	Highway Engineering	3	0	0	3
5	CV6C05	Engineering Economics	3	0	0	3
6	CV6E1XX	Dept. Elective - 1	3	0	0	3
7	CV6L01	Highway Material Testing Lab	0	0	2	1
8	CV6L02	Computer Application Laboratory	0	0	2	1
9	CV6C06	Minor Project	0	0	..	2
10	CV6D01	Detailing of RC and Steel Structures	1	0	2	2
Total Credits						24
Total Contact Hrs						25

Sl.No.	Subject Code	MOOC Elective
1	CV5M05	Optimization methods for Civil Engineering
2	CV5M06	Solar Energy Engineering and Technology
3	CV5M10	Introduction to Engineering Seismology
4	CV5M11	Rock Mechanics and Tunneling

Sl.No.	Subject Code	Elective –I
1	CV6E101	Alternative Building Materials & Masonry Structures
2	CV6E102	Matrix Methods of Structural Analysis
3	CV6E103	Sustainable Technologies and Green Building concepts
4	CV6E104	Hydraulic Structures
5	CV6E105	Remote Sensing and GIS

VII SEMESTER

DEPARTMENT OF CIVIL ENGINEERING SCHEME OF TEACHING AND EXAMINATION VII SEMESTER B.E (AUTONOMOUS SCHEME)						
Sl.No.	Subject Code	Subject	L	T	P	Cr.
1	CV7C01	Quantity Surveying & Estimation	3	0	0	3
2	CV7C02	Transportation Engineering	3	0	0	3
3	CV7E2XX	Dept. Elective - 2	3	0	0	3
4	CV7E3XX	Dept. Elective - 3	3	0	0	3
5	CV7IXX	Industry driven elective	2	0	0	2
6	CV7OXX	Open elective	2	0	0	2
7	CV7L01	Environmental Engineering Laboratory	0	0	2	1
8	CV7L02	Concrete and NDT Laboratory	0	0	2	1
9	CV7C03	Seminar/ Paper Presentation	0	0	2	1
10	CV7C04	Project Phase - 1	0	0	0	1
11	CV7C06	Competency Training	-	-	-	0
12	CV7D01	Design & Drawing of Bridges	1	0	2	2
Total Credits						22
Total Contact Hrs						25

Sl.No.	Subject Code	Elective - 2
1	CV7E201	Pavement Evaluation and Management
2	CV7E202	Architecture and Town Planning
3	CV7E203	Repair & Rehabilitation of Structures
4	CV7E204	Disaster Management
5	CV7E205	Building Information Modeling

Sl.No.	Subject Code	Elective - 3
1	CV7E301	Foundation Engineering
2	CV7E302	Applied Hydrology
3	CV7E303	Computer Applications in Civil Engineering
4	CV7E304	Solid Waste Management
5	CV7E305	Fire Resistance of Structures

Sl.No.	Subject Code	Open Elective
1	CV7O01	Geospatial Technology
2	CV7O02	Fire Safety Management
3	CV7O03	Occupational Safety and Health
4	CV7O04	Intellectual Property and Rights
5	CV7O05	Air pollution and Control

VIII SEMESTER

DEPARTMENT OF CIVIL ENGINEERING SCHEME OF TEACHING AND EXAMINATION VIII SEMESTER B.E (AUTONOMOUS SCHEME)						
Sl.No.	Subject Code	Subject	L	T	P	Cr.
1	CV8E4XX	Dept. Elective - 4	3	0	0	3
2	CV8E5XX	Dept. Elective - 5	3	0	0	3
3	CV8E6XX	Dept. Elective - 6	3	0	0	3
4	CV8C01	Internship	0	0	0	3
5	CV8C02	Major Project	0	0	8	4
Total Credits						16
Total Contact Hrs						17

Sl.No.	Subject Code	Elective - 4
1	CV8E401	Earth Retaining Structures
2	CV8E402	Highway Construction
3	CV8E403	Special Concretes & Construction Chemicals
4	CV8E404	Advanced RCC Structures
5	CV8E405	Pipe Network Analysis and Design

Sl.No.	Subject Code	Elective –5
1	CV8E501	Construction and Project Management
2	CV8E502	Environmental Protection
3	CV8E503	Structural Dynamics and Earthquake Engineering
4	CV8E504	Pre-stressed Concrete Structures

Sl.No.	Subject Code	Elective –6
1	CV8E601	Construction Surveying
2	CV8E602	Occupational Safety and Health for Civil Engineers
3	CV8E603	Wastewater Engineering
4	CV8E604	Water Resources Engineering and Management