

SMT. S.R.PATEL ENGINEERING COLLEGE, UNJHA CIVIL
ENGINEERING DEPARTMENT
TEACHING SCHEME CIVIL ENGINEERING

B.E. Civil I & II Semester

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
3110002	English	2	0	2	4	3
3110003	Programming For Problem Solving	3	0	2	5	4
3110004	Basic Civil Engineering	3	0	2	5	4
3110005	Basic Electrical Engineering	3	0	2	5	4
3110006	Basic Mechanical Engineering	3	0	2	5	5
3110007	Environmental Studies	3	0	0	3	3
3110011	Physics	3	0	2	5	4
3110012	Workshop/ Manufacturing Practices	0	0	4	4	2
3110013	Engineering Graphics & Design	2	4	0	6	6
3110014	Mathematics-1	3	0	2	5	5
3110015	Mathematics-2	3	0	2	5	5
3110017	Induction Program	-	-	-	-	-

B.E. Civil III Semester

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
3130004	Effective Technical Communication	2	0	2	4	3
3130007	Indian Constitution	2	0	0	2	0
3130008	Design Engineering 1 A	0	0	2	2	1
3130606	Geotechnical Engineering	4	0	2	6	5
3130607	Building Construction Technology	4	0	2	6	5
3130608	Mechanics of Solids	4	0	2	6	6
3130609	Building and Town Planning	2	0	4	6	4
TOTAL		18	0	14	32	24
BEYOND ACADEMICS						
3CL01	Software	0	0	2	2	-
3CL02	Seminar	0	0	1	1	-
3CL03	CDC Activities	0	0	1	1	-
3CL04	GATE Classes	4	0	0	4	-

B.E. Civil IV Semester

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
3140005	Design Engineering 1 B	0	0	2	2	1
3140601	Surveying	3	0	2	5	5
3140603	Structural Analysis-I	4	0	2	6	5
3140609	Civil Engineering - Societal & Global Impact	2	0	0	2	2
3140610	Complex Variables and Partial Differential Equations	3	2	0	5	5
3140611	Fluid Mechanics & Hydraulics	4	0	2	6	5
TOTAL		20	4	9	33	33
BEYOND ACADEMICS						
4CL01	Software	0	0	2	2	-
4CL02	Seminar	0	0	1	1	-
4CL03	CDC Activities	0	0	1	1	-
4CL04	GATE Classes	4	0	0	4	-

B.E. Civil V Semester

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
2150601	Highway Engineering	3	0	2	5	5
2150602	Hydrology & Water Resources Engineering	3	1	0	4	4
2150603	Environmental Engineering	3	0	2	5	5
2150608	Structural Analysis - II	4	2	0	6	6
2150609	Soil Mechanics	3	0	2	5	5
2150001	Design Engineering - II A	0	0	3	3	3
2150002	Institute Elective - Cyber Security	0	1	2	3	3
2150003	Institute Elective - Diaster Management	3	0	0	3	3
TOTAL		19	4	11	31	31
BEYOND ACADEMICS						
5CL01	Software	0	0	2	2	-
5CL02	Seminar	0	0	2	2	-
5CL03	GATE Classes	4	0	0	4	-
5CL04	Training and placement activities	2	0	0	2	-

B.E. Civil VI Semester

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
2160601	Advanced Construction Equipments	3	1	0	4	4
2160602	Applied Fluid Mechanics	3	0	2	5	5
2160603	Railway , Bridge & Tunnel Engineering	3	1	0	4	4
2160604	Water & Waste Water Engineering	3	0	2	5	5
2160607	Elementary Structural Design	4	1	0	5	5
2160002	Design Engineering - II B	0	0	3	3	3
2160608	Departmental Elective-I- Urban Transportation system	3	1	0	4	4
2160609	Departmental Elective-I- Computational Mechanics	3	1	0	4	4
TOTAL		19	4	7	30	30
BEYOND ACADEMICS						
6CL01	Software	0	0	2	2	-
6CL02	Seminar	0	0	2	2	-
6CL03	GATE Classes	4	0	0	4	-
6CL04	Training and placement activities	2	0	0	2	-

B.E. Civil VII Semester

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
2170003	Project - I	0	0	0	6	6
2170607	Design of Reinforced Concrete Structures	4	2	0	6	6
2170609	Irrigation Engineering	3	2	0	5	5
2170610	Professional Practice & Valuation	3	2	0	5	5
2170606	Department Elective-II- Application of Geo-informatics in Civil Engineering	3	1	0	4	4
2170611	Department Elective-II- Infrastructure Engineering And Management	3	1	0	4	4
2170612	Department Elective-II- Earthquake Engineering	3	1	0	4	4
2170613	Department Elective-II- Traffic Engineering	3	1	0	4	4
TOTAL		13	7	6	26	26

BEYOND ACADEMICS (VII Semester)

7CL01	Software	0	0	2	2	-
7CL02	Revision	0	0	2	2	-
7CL03	Training and placement activities	1	1	0	2	-

B.E. Civil VIII Semester

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
2180605	Project II	0	0	8	8	8
2180609	Foundation Engineering	3	0	2	5	5
2180610	Design of Steel Structures	3	2	0	5	5
2180611	Construction Management	3	2	0	5	5
2180601	Department Elective-II- Design of Hydraulics Structures	0	0	8	8	8
2180607	Department Elective-II- Repairs & Rehabilitation of Concrete Structures	3	1	0	4	4
2180612	Department Elective-II- Design of Prestressed Concrete Structures & Bridges	3	1	0	4	4
2180602	Department Elective-II- Harbour & Airport Engineering	3	1	0	4	4
2180613	Department Elective-II- Glass Facade Engineering	3	0	1	4	4
TOTAL		12	5	10	27	27
BEYOND ACADEMICS						
8CL01	Software	0	0	2	2	-
8CL02	Revision	0	0	2	2	-
8CL03	Training and placement activities	1	1	0	2	-