



Silver Oak University

College Of Technology(01)

Department Of Civil Engineering (003)

Under Graduate(03)

Effective From: 2020-21

Sr No	Subject Code	Subject Name	Category	Teaching Scheme					Evaluation Scheme				Total Marks	
				L.	T.	P.	Hours	Credit	CIE(TH)	CIE(PR)	ESE(TH)	ESE(PR)		
Semester 1														
1	101003196	Induction Program (Prambh+Connect)	Mandatory	0	0	0	30	0	---	---	---	---	---	
2	1010273101	Mathematics-I	Basic Science	3	2	0	5	5	40	0	60	0	100	
3	1010153181	English	Humanities and Social Sciences	1	0	2	3	2	40	20	60	30	150	
4	1010083111	Basic Electrical Engineering	Engineering Science	3	0	2	5	4	40	20	60	30	150	
5	1010123112	Engineering Graphics & Design	Engineering Science	2	0	4	6	4	40	20	60	30	150	
6	1010253103	Physics	Basic Science	3	0	2	5	4	40	20	60	30	150	
7	1010123113	Engineering Workshop Practice	Engineering Science	0	0	4	4	2	0	40	0	60	100	
Total				12	2	14	58	21					Total Marks	800
Semester 2														
1	1010273102	Mathematics-II	Basic Science	3	2	0	5	5	40	0	60	0	100	
2	1010153182	Communication Skills	Humanities and Social Sciences	1	0	2	3	2	40	20	60	30	150	
3	1010123111	Basic Mechanical Engineering	Engineering Science	3	0	2	5	4	40	20	60	30	150	
4	1010043111	Programming for Problem solving	Engineering Science	3	0	2	5	4	40	20	60	30	150	
5	1010033111	Basic Civil Engineering	Engineering Science	3	0	2	5	4	40	20	60	30	150	
6	1010033196	Environmental Science	Mandatory	3	0	0	3	0	40	0	60	0	100	
Total				16	2	8	26	19					Total Marks	800
Semester 3														
1	1010273204	Probability & Statistics	Basic Science	3	2	0	5	5	40	0	60	0	100	
2	1010033201	Mechanics of Solids	Basic Science	3	0	2	5	4	40	20	60	30	150	
3	1010033216	Geotechnical Engineering & Applied Geology	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010033217	Building Construction Techniques	Professional Core Course	3	1	0	4	4	40	20	60	30	150	
5	1010343281	Engineering Economics & Management	Humanities and Social Sciences	2	0	0	2	2	40	0	60	0	100	
6	1010003296	Indian Constitution	Mandatory	1	0	0	1	0	40	0	60	0	100	
Total				15	3	4	22	19					Total Marks	750
Semester 4														
1	1010273209	Numerical Methods	Basic Science	3	2	0	5	5	40	0	60	0	100	
2	1010033218	Fluid Mechanics	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
3	1010033219	Surveying	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010033220	Structural Analysis-I	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
5	1010033221	Concrete Technology	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
6	1010033222	Building Drawing & Town Planning	Professional Core Course	1	0	2	3	2	40	20	60	30	150	
7	1010343282	Aptitude Building and Professional Skills - I	Humanities and Social Sciences	0	1	0	1	1	0	40*	0	60*	100	
Total				16	3	10	29	24					Total Marks	950

Semester 5														
1	1010033316	Transportation Engineering	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
2	1010033317	Environment Engineering	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
3	1010033318	Elementary Structural Design	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010033319	Soil Mechanics	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
5	1010033336	Structural Analysis-II	Professional Elective-I	3	0	2	5	4	40	20	60	30	150	
6	1010033337	Advanced Fluid Mechanics	Professional Elective-I	3	0	2	5	4	40	20	60	30	150	
7	1010033338	Repair & Rehabilitation of Concrete Structures	Professional Elective-I	3	0	2	5	4	40	20	60	30	150	
8	1010033361	Remote Sensing & GIS	Open Elective - I	2	0	0	2	2	40	0	60	0	100	
9	1010033362	Sustainability Concepts in Civil Engineering	Open Elective - I	2	0	0	2	2	40	0	60	0	100	
10	1010343381	Aptitude Building and Professional Skills - II	Humanities and Social Sciences	0	1	0	1	1	0	40*	0	60*	100	
11	1010033391	Summer Internship	Project Work	0	0	0	0	1	0	40	0	60	100	
12	1010003391	Problem Based Learning-I	Project Work	0	0	2	2	1	0	40	0	60	100	
Total				17	1	12	30	25					Total Marks	1150
Semester 6														
1	1010033320	Reinforced Concrete Structure Design	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
2	1010033321	Hydrology & Water Resources Engineering	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
3	1010033322	Engineering Economics, Estimation & Costing	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010033339	Urban Transportation System	Professional Elective-II	3	0	2	5	4	40	20	60	30	150	
5	1010033340	Railway Bridge & Tunnel Engineering	Professional Elective-II	3	0	2	5	4	40	20	60	30	150	
6	1010033341	Earthquake Engineering	Professional Elective-II	3	0	2	5	4	40	20	60	30	150	
7	1010033363	Infrastructure for Smart Cities	Open Elective - II	2	0	0	2	2	40	0	60	0	100	
8	1010033364	Tender & Contract Management	Open Elective - II	2	0	0	2	2	40	0	60	0	100	
9	1010343382	Aptitude Building and Professional Skills-III	Humanities and Social Sciences	0	1	0	1	1	0	40*	0	60*	100	
10	1010033393	Winter Internship	Project Work	0	0	0	0	1	0	40	0	60	100	
11	1010003392	Problem Based Learning-II	Project Work	0	0	2	2	1	0	40	0	60	100	
Total				14	1	10	25	21					Total Marks	1000
Semester 7														
1	1010033416	Irrigation Engineering	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
2	1010033417	Steel Structure Design	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
3	1010033418	Construction Project Mangement Techniques	Professional Core Course	3	0	2	5	4	40	20	60	30	150	
4	1010033439	Foundation Engineering	Professional Elective-III	3	0	2	5	4	40	20	60	30	150	
5	1010033437	Design of Hydraulic Structures	Professional Elective-III	3	0	2	5	4	40	20	60	30	150	
6	1010033438	Design of Prestressed Concrete Structures	Professional Elective-III	3	0	2	5	4	40	20	60	30	150	
7	1010033436	Docks Harbour & Airport Engineering	Professional Elective-IV	2	0	2	4	3	40	20	60	30	150	
8	1010033440	Precast Construction	Professional Elective-IV	2	0	2	4	3	40	20	60	30	150	
9	1010033441	Traffic Engineering and Management	Professional Elective-IV	2	0	2	4	3	40	20	60	30	150	
10	1010033461	Construction Safety & Material Management	Open Elective - III	2	0	0	2	2	40	0	60	0	100	
11	1010033462	Environment Impact Assessment	Open Elective - III	2	0	0	2	2	40	0	60	0	100	
12	1010033492	Project-I (*Internship work Included)	Project Work	0	0	6	6	3	0	40	0	60	100	
13	1010343481	Employability Enhancement and Job skills	Humanities and Social Sciences	0	1	0	1	1	0	40*	0	60*	100	
Total				16	1	16	33	25					Total Marks	1050
Semester 8														
1	1010033493	Project-II (*Internship work Included)	Project Work	0	0	20	20	10	0	40	0	60	100	
Total				0	0	20	20	10					Total Marks	100