

GOVERNMENT COLLEGE OF ENGINEERING

SALEM – 636 011.

B.E. CIVIL (PART TIME) ENGINEERING

Regulations 2016 - Autonomous Courses

(For Students Admitted from 2016 – 2017)

Course code	Name of the Course	Hours/Week					Maximum Marks		
		Contact periods	Lecture	Tutorial/ Demo*	Practical	Credit	CA	FE	Total
SEMESTER I									
THEORY									
16PTMA101	Mathematics – II	3	3	0	0	3	25	75	100
16PTCS101	C - Programming	3	3	0	0	3	25	75	100
16PTCE101	Mechanics of Solids	3	3	0	0	3	25	75	100
16PTCE102	Mechanics of Fluids	3	3	0	0	3	25	75	100
16PTCE103	Concrete Technology	3	3	0	0	3	25	75	100
TOTAL		15	15	0	0	15	-	-	500
SEMESTER II									
THEORY									
16PTMA201	Mathematics - III	3	3	0	0	3	25	75	100
16PTCY201	Environmental Science & Engineering	3	3	0	0	3	25	75	100
16PTCE201	Basic Structural Steel Design	3	3	0	0	3	25	75	100
16PTCE202	Strength of Materials	3	3	0	0	3	25	75	100
16PTCE203	Highway and Railway Engineering	3	3	0	0	3	25	75	100
TOTAL		15	15	0	0	15	-	-	500
SEMESTER III									
THEORY									
16PTMA301	Numerical Methods	3	3	0	0	3	25	75	100
16PTCE301	Construction Technology and Equipments	3	3	0	0	3	25	75	100
16PTCE302	Surveying	3	3	0	0	3	25	75	100
16PTCE303	Design of Reinforced Concrete Elements	3	3	0	0	3	25	75	100
16PTCE304	Structural Analysis - I	3	3	0	0	3	25	75	100
TOTAL		15	15	0	0	15	-	-	500

SEMESTER IV									
THEORY									
16PTCE401	Environmental Engineering - I	3	3	0	0	3	25	75	100
16PTCE402	Mechanics of Soils	3	3	0	0	3	25	75	100
16PTCE403	Structural Analysis-II	3	3	0	0	3	25	75	100
16PTCE404	Design of Steel Structures	3	3	0	0	3	25	75	100
	Professional Elective - I	3	3	0	0	3	25	75	100
TOTAL		15	15	0	0	15	-	-	500
SEMESTER V									
THEORY									
16PTCE501	Applied Hydraulic Engineering	3	3	0	0	3	25	75	100
16PTCE502	Foundation Engineering	3	3	0	0	3	25	75	100
16PTCE503	Design of Reinforced Concrete and Masonry Structures	3	3	0	0	3	25	75	100
16PTCE504	Estimation, Quantity Surveying and Valuation	3	3	0	0	3	25	75	100
	Professional Elective - II	3	3	0	0	3	25	75	100
TOTAL		15	15	0	0	15	-	-	500
SEMESTER VI									
THEORY									
16PTCE601	Environmental Engineering-II	3	3	0	0	3	25	75	100
16PTCE602	Water Resources Engineering	3	3	0	0	3	25	75	100
	Professional Elective - III	3	3	0	0	3	25	75	100
	Professional Elective - IV	3	3	0	0	3	25	75	100
PRACTICAL									
16PTCE603	Design and Drawing (Concrete and Steel)	3	0	0	3	2	25	75	100
TOTAL		15	12	0	3	14	-	-	500
SEMESTER VII									
THEORY									
16PTCE801	Economics and Management	3	3	0	0	3	25	75	100
	Professional Elective - V	3	3	0	0	3	25	75	100
	Professional Elective - VI	3	3	0	0	3	25	75	100
PRACTICAL									
16PTCE802	Project Work	9	0	0	9	6	50	150	200
TOTAL		18	9	0	9	15	-	-	500

Total number of credits to be earned for the award of degree = 104

Professional Electives (PE)

S. No.	Course Code	Course Title	L	T	P	C	Preferred Semester
1	16PTCEE01	Irrigation Engineering	3	0	0	3	V/ VI
2	16PTCEE02	Water Shed Management	3	0	0	3	V/ VI
3	16PTCEE03	Ground Water Engineering	3	0	0	3	VI/VII
4	16PTCEE04	Hydrology	3	0	0	3	VI/VII
5	16PTCEE05	Coastal Engineering	3	0	0	3	VI/VII
6	16PTCEE06	Ground Improvement Techniques	3	0	0	3	V/VI
7	16PTCEE07	Introduction to Soil Dynamics and Machine Foundation	3	0	0	3	V/VI
8	16PTCEE08	Soil Structure Interaction	3	0	0	3	VI/VII
9	16PTCEE09	Reinforced Soil Structures	3	0	0	3	V/V
10	16PTCEE010	Subsurface Investigation and Instrumentation	3	0	0	3	VI/VII
11	16PTCEE11	Advanced Surveying Techniques	3	0	0	3	V/V
12	16PTCEE12	Traffic Engineering	3	0	0	3	V/VI
13	16PTCEE13	Airports, Docks and Harbours Engineering	3	0	0	3	VI/VII
14	16PTCEE14	Design of Bridges	3	0	0	3	VI/VII
15	16PTCEE15	Integrated Traffic Planning and Management	3	0	0	3	VI/VII
16	16PTCEE16	Construction Techniques and Equipments	3	0	0	3	V/VI
17	16PTCEE17	Fundamentals of Remote Sensing and GIS	3	0	0	3	V/VI
18	16PTCEE18	Construction and Project Management	3	0	0	3	V/VI
19	16PTCEE19	Project Safety Management	3	0	0	3	VI/VII
20	16PTCEE20	Repair and Rehabilitation of Structures	3	0	0	3	VI/VII
21	16PTCEE21	Constructional Personnel Management	3	0	0	3	VI/VII
22	16PTCEE22	Industrial Waste Management	3	0	0	3	V/VI

23	16PTCEE23	Hazardous Waste Management	3	0	0	3	V/VI
24	16PTCEE24	Air Pollution Monitoring and Control	3	0	0	3	V/VI
25	16PTCEE25	Municipal Solid Waste Management	3	0	0	3	VI/VII
26	16PTCEE26	Marine Pollution Monitoring and Control	3	0	0	3	VI/VII
27	16PTCEE27	Environmental Impact Assessment	3	0	0	3	VI/VII
28	16PTCEE28	Coastal Zone Management	3	0	0	3	VI/VII
29	16PTCEE29	Advanced Structural Analysis	3	0	0	3	VI/VII
30	16PTCEE30	Storage Structures	3	0	0	3	VI/VII
31	16PTCEE31	Pre stressed Concrete Structures	3	0	0	3	VI/VII
32	16PTCEE32	Advanced Steel Structures	3	0	0	3	VI/VII
33	16PTCEE33	Computer Aided Design of Structures	3	0	0	3	VI/VII
34	16PTCEE34	Tall Buildings	3	0	0	3	VI/VII
35	16PTCEE35	Smart Materials and Smart Structures	3	0	0	3	VI/VII
36	16PTCEE36	Prefabricated Structures	3	0	0	3	VI/VII
37	16PTCEE37	Wind Engineering	3	0	0	3	VI/VII
38	16PTCEE38	Design of Composite Structures	3	0	0	3	VI/VII
39	16PTCEE39	Coastal Structures	3	0	0	3	VI/VII
40	16PTCEE40	Dynamics and Earthquake Resistant Design of Structures	3	0	0	3	VI/VII
41	16PTCEE41	Industrial Structures	3	0	0	3	VI/VII
42	16PTCEE42	Ferro cement Technology	3	0	0	3	VI/VII
43	16PTCEE43	Finite Elements Analysis	3	0	0	3	VI/VII
44	16PTCEE44	Experimental Techniques and Instrumentation	3	0	0	3	VI/VII