



Short Term Programs
for
Civil Engineering Students (Diploma/Degree)



Specialization: Lab Testing

S.no	Course Code	Course name	Duration	Credit Points
1.	CE/INT/LAB/01/17	How to test the Aggregate	2	2/150
2.	CE/INT/LAB/02/17	How to test the Cement.	2	2/150
3.	CE/INT/LAB/03/17	Why do we use fly ash in construction	2	2/150
4.	CE/INT/LAB/04/17	How to test the soil	2	2/150
5.	CE/INT/LAB/05/17	How to use rebound hammer to assess the strength of concrete	1	1/150
6.	CE/INT/LAB/06/17	Why & How to cut the core of concrete	2	2/150
7.	CE/INT/LAB/07/17	How to test the bricks	2	2/150
8.	CE/INT/LAB/08/17	How to test the Bitumen	2	2/150

Specialization: Surveying

S.no	Course Code	Course name	Duration	
9.	CE/INT/SUR/01/17	Basics of Plane Table Surveying,	2	2/150
10	CE/INT/SUR/02/17	Basics of Theodolite survey	2	2/150
11	CE/INT/SUR/03/17	How to use the Measuring Instruments	2	2/150
12	CE/INT/SUR/04/17	Understanding Types of Scales and Maps	2	2/150

Fees: Rs. 750/- Rupees Seven Hundred and Fifty Only (Per Day) Plus Taxes as Applicable



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13	CE/INT/SUR/05/17	Levelling Work and Contour Survey	6	6/150
14	CE/INT/SUR/06/17	How to use the Total Station	6	6/150
15	CE/INT/SUR/07/17	Control Point establishment	1	1/150
16	CE/INT/SUR/08/17	Error adjustment in surveying	2	2/150
17	CE/INT/SUR/09/17	Learn Remote height calculation	2	2/150
18	CE/INT/SUR/10/17	Area and Volume calculations	2	2/150
19	CE/INT/SUR/11/17	Data Management	4	4/150
20	CE/INT/SUR/12/17	Transferring measurements to Auto Cad	4	4/150

Specialization: Estimation, Specifications and Site Accounting

S.no	Course Code	Course name	Duration	
21	CE/INT/EST/SP/ S-ACC/01/17	Quantity takeoff from structural drawings	4	4/150
22	CE/INT/EST/SP/ S-ACC/02/17	Quantity takeoff from architectural drawings	4	4/150
23	CE/INT/EST/SP/ S-ACC/03/17	Costing of Civil works	4	4/150
24	CE/INT/EST/SP/ S-ACC/04/17	Understanding Productivity of Human Resources	4	4/150
25	CE/INT/EST/SP/ S-ACC/05/17	Understanding specifications	4	4/150
26	CE/INT/EST/SP/ S-ACC/06/17	Creating Bill of quantities	4	4/150

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<u>Specialization: Electrical</u>				
S.no	Course Code	Course name	Duration	
27	CE/INT/ELEC/01/17	Electric Safety precautions and system of wiring and color coding of wires	3	3/150
28	CE/INT/ELEC/02/17	Ohm's law and their calculation of V.I.R and Power	2	2/150
29	CE/INT/ELEC/03/17	Protective devices and their use according to load	2	2/150
30	CE/INT/ELEC/04/17	Controlling devices and their links with electric connection	2	2/150
31	CE/INT/ELEC/05/17	Connection of single/ Double tube light connection with testing procedure and rectification of fault	3	3/150
32	CE/INT/ELEC/06/17	Repair of domestic Electric appliances		
33	CE/INT/ELEC/07/17	Room coolers/Desert cooler	4	4/150
34	CE/INT/ELEC/08/17	Ceiling fan/ Table fan/ Wall fan/ Pedestal fan	4	4/150
35	CE/INT/ELEC/09/17	Electric Iron/ Sandwich toaster	4	4/150
36	CE/INT/ELEC/10/17	Mixer Grinder/ Hand drill machine	4	4/150
37	CE/INT/ELEC/11/17	Importance of earthing, types of earthing and testing procedure	2	2/150
38	CE/INT/ELEC/12/17	Star/Delta connection in 3 Ø system and calculation of power	2	2/150

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39	CE/INT/ELEC/13/17	Transformer working principals, its parts, advantages, cooling system	2	2/150
40	CE/INT/ELEC/14/17	Indian Measures and Weight	2	2/150
41	CE/INT/ELEC/15/17	Electrical convention symbols, reading of electrical drawings	2	2/150
42	CE/INT/ELEC/16/17	AC fundamentals, RLC circuits	3	3/150
43	CE/INT/ELEC/17/17	Making of series and parallel circuits	3	3/150
44	CE/INT/ELEC/18/17	Introduction to Sub-Station	2	2/150
45	CE/INT/ELEC/19/17	Sub-Station Design Development	6	6/150
46	CE/INT/ELEC/20/17	Sub-Station Design Calculations	6	6/150
47	CE/INT/ELEC/21/17	Cable Routing	3	3/150
48	CE/INT/ELEC/22/17	Earthing Protection Design	3	3/150
49	CE/INT/ELEC/23/17	DSL/ Lightning Design	3	3/150
50	CE/INT/ELEC/24/17	Illumination Design	3	3/150
51	CE/INT/ELEC/25/17	Control & Protection System Design	3	3/150
52	CE/INT/ELEC/26/17	Cable Selection & Sizing	3	3/150
53	CE/INT/ELEC/27/17	Auxiliary System Design	3	3/150
54	CE/INT/ELEC/28/17	Electrical Equipment/System Specification & Data Sheet	3	3/150

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Specialization: Barbending

S.no	Course Code	Course name	Duration	
55	CE/INT/BB /01/17	Understanding Barbending schedule	3	3/150
56	CE/INT/BB /02/17	Reinforcement of columns, footings, beams, lintel and sunshades	3	3/150
57	CE/INT/BB /03/17	One way slab and two way slab reinforcement	2	2/150
58	CE/INT/BB /04/17	Reinforcement of staircases	2	2/150
59	CE/INT/BB /05/17	Do's and don'ts in reinforcement	1	1/150

Specialization: Site Accountancy

S.no	Course Code	Course name	Duration	
60.	CE/INT/SA /01/17	Understanding Bill of quantities	4	4/150
61.	CE/INT/SA /02/17	Accountancy for civil engineers	7	7/150
62.	CE/INT/SA /03/17	Billing procedures and invoice generation	7	7/150
63.	CE/INT/SA /04/17	Site coordination and wages marking	7	7/150

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Specialization: Structural

S.no	Course Code	Course name	Duration	Credit Points
64.	CE/INT/STR /01/17	Basic Analysis & Design of Structures	3	3/150
65.	CE/INT/STR /02/17	Steel Frame Connection	2	2/150
66.	CE/INT/STR /03/17	Foundation Design.	2	2/150
67.	CE/INT/STR /04/17	Concrete Design & Analysis.	3	3/150
68.	CE/INT/STR /05/17	Pre- Engineered Buildings.	3	3/150
69.	CE/INT/STR /06/17	Construction Detailing & Drawings.	3	3/150
70.	CE/INT/STR /07/17	Storm Water & Sewage Design.	6	3/150
71.	CE/INT/STR /08/17	Bridges, Roads, & Design		
72.	CE/INT/STR /09/17	Restoration & Rehabilitation of Structures.	3	3/150
73.	CE/INT/STR /10/17	Steel Analysis & Steel Design.	3	3/150

Specialization: Site Planning

S.no	Course Code	Course name	Duration	Credit Points
74.	CE/INT/S-PLG /01/17	Prerequisites of construction of any project	2	2/150
75.	CE/INT/S-PLG/02/17	Site planning establishment and management	2	2/150

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76.	CE/INT/S-PLG/03/17	Layout and excavation	2	2/150
77.	CE/INT/S-PLG/04/17	Safety health and environment	2	2/150
78.	CE/INT/S-PLG/05/17	Procurement, and stacking of construction materials	2	2/150
79.	CE/INT/S-PLG/06/17	Maintenance and stocking of materials	2	2/150
80.	CE/INT/S-PLG/07/17	Site mobilization, layout of temporary facilities and installation	2	2/150
81.	CE/INT/S-PLG/08/17	Site visit and preparation of site visit report	2	2/150
82.	CE/INT/S-PLG/09/17	Liaisoning work at project site	2	2/150
83.	CE/INT/S-PLG/10/17	General administration and management	2	2/150
84.	CE/INT/S-PLG/11/17	Ethics in construction	2	2/150

Specialization: Miscellaneous

S.no	Course Code	Course name	Duration	Credit Points
85.	CE/INT/MISC/01/17	Soft skills	2	2/150
86.	CE/INT/MISC/02/17	Occupational hazards	2	2/150
87.	CE/INT/MISC/03/17	PPE	2	2/150
88.	CE/INT/MISC/04/17	Time management	2	2/150
89.	CE/INT/MISC/05/17	Negotiations skills	2	2/150

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90.	CE/INT/MISC/06/17	Office documentation	2	2/150
91.	CE/INT/MISC/07/17	Concrete mixture proportioning	2	2/150
92.	CE/INT/MISC/08/17	Advances in Construction materials	2	2/150
93.	CE/INT/MISC/09/17	Climate friendly buildings	2	2/150
94.	CE/INT/MISC/10/17	Special concrete	2	2/150
95.	CE/INT/MISC/11/17	Admixtures and their application	2	2/150
96.	CE/INT/MISC/12/17	Precast concrete buildings		

Specialization: HVAC

S.no	Course Code	Course name	Duration	Credit Points
97.	CE/INT/HVAC/01/17	Clean Room Environment technology.	2	2/150
98.	CE/INT/HVAC/02/17	Energy conservation study & design.	2	2/150
99.	CE/INT/HVAC/03/17	Ducting Design.	2	2/150
100	CE/INT/HVAC/04/17	Cold Storage refrigeration system design.	2	2/150
101	CE/INT/HVAC/05/17	VRV's / VRF's system for residential & commercial buildings.	2	2/150
102	CE/INT/HVAC/06/17	Design of Warehouses & Industrial Ventilation System.	2	2/150
103	CE/INT/HVAC/07/17	Chilled Ceiling Technology.	2	2/150

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104	CE/INT/HVAC/08/17	Mechanical Ventilation for Car Parking & Basement area.	2	2/150
105	CE/INT/HVAC/09/17	Thermal Storage System Design.	2	2/150
106	CE/INT/HVAC/10/17	VRV's / VRF's system for residential & commercial buildings.	2	2/150

Specialization: Plumbing

S.no	Course Code	Course name	Duration	Credit Points
107	CE/INT/PLUMB/01/17	Plumbing system-water supply and drainage	2	2/150
108	CE/INT/PLUMB/02/17	Domestic water supply and distribution system	2	2/150
109	CE/INT/PLUMB/03/17	Plumbing layout drawings	2	2/150
110	CE/INT/PLUMB/04/17	Fire extinguishing and Fire alarm systems	2	2/150
111	CE/INT/PLUMB/05/17	Sanitary fixtures	2	2/150
112	CE/INT/PLUMB/06/17	Hot and cold piping systems in bathrooms	2	2/150
113	CE/INT/PLUMB/07/17	Fire detection, alarm and evacuation systems	2	2/150
114	CE/INT/PLUMB/08/17	Wet riser system	2	2/150
115	CE/INT/PLUMB/09/17	Laying, measuring, marking, cutting, threading, bending and jointing of external water supply systems	2	2/150

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116	CE/INT/PLUMB/10/17	Water supply service connection, testing of water supply lines	2	2/150
117	CE/INT/PLUMB/11/17	Testing procedures of plumbing lines and construction of manholes, septic tanks and soakage pit	2	2/150

Specialization: Formwork

S.no	Course Code	Course name	Duration	Credit Points
118	CE/INT/F-WORK/01/17	Work procedures of all types of formwork	2	2/150
119	CE/INT/F-WORK/02/17	DE shuttering periods for forms	2	2/150
120	CE/INT/F-WORK/03/17	Shuttering at heights using soldiers and shutters	2	2/150
121	CE/INT/F-WORK/04/17	Placing and removal procedure of formwork	2	2/150

Specialization: Masonry

S.no	Course Code	Course name	Duration	Credit Points
122	CE/INT/MASON/01/17	Building layout and setting out	2	2/150
123	CE/INT/MASON/02/17	Transferring of levels and field testing of bricks, blocks, sand and cement	2	2/150
124	CE/INT/MASON/03/17	Damp proof course	2	2/150

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125	CE/INT/MASON/04/17	Solid bricks and block masonry – Hollow concrete block masonry –	2	2/150
126	CE/INT/MASON/05/17	Fixing of doors and windows frames	2	2/150
127	CE/INT/MASON/06/17	Composite materials	2	2/150

Specialization: Welding

S.no	Course Code	Course name	Duration	Credit Points
128	CE/INT/WELD/01/17	Principle of manual, metal, arc welding	2	2/150
129	CE/INT/WELD/02/17	Arc welding machines	2	2/150
130	CE/INT/WELD/03/17	Types of welding joints, position and types of welds	2	2/150
131	CE/INT/WELD/04/17	Edge preparation and its importance	2	2/150
132	CE/INT/WELD/05/17	Gas welding and gas cutting process	2	2/150
133	CE/INT/WELD/06/17	Welding process with TIG, MIG, SAW – Advantages and limitations	2	2/150

Specialization: Painting

S.no	Course Code	Course name	Duration	Credit Points
134	CE/INT/PAINT/01/17	Interior and exterior paints	2	2/150
135	CE/INT/PAINT/02/17	Mixing methods of paints – Painting methods	2	2/150

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136	CE/INT/PAINT/03/17	Application of painting	2	2/150
137	CE/INT/PAINT/04/17	spray painting, powder coating, anodizing, duco paints	2	2/150
138	CE/INT/PAINT/05/17	Application of polish – Polyurethane coat etc	2	2/150
139	CE/INT/PAINT/06/17	Drying methods	2	2/150

Specialization: Trenchless Technology

S.no	Course Code	Course name	Duration	Credit Points
140	CE/INT/TRENCH-TECH/01/17	Soil classification and characteristics	3	3/150
141	CE/INT/TRENCH-TECH/02/17	Subsurface utility Engineering	3	3/150
142	CE/INT/TRENCH-TECH/03/17	Safety health and Environment	3	3/150
143	CE/INT/TRENCH-TECH/04/17	New Installation of pipeline through trenchless methods	3	3/150
144	CE/INT/TRENCH-TECH/05/17	Classification of trenchless equipment	3	3/150
145	CE/INT/TRENCH-TECH/06/17	Rehabilitation of pre-installed pipeline by trenchless method	3	3/150
146	CE/INT/TRENCH-TECH/07/17	Renewal of preinstalled pipeline by trenchless method	3	3/150
147	CE/INT/TRENCH-TECH/08/17	Geotechnical investigation	3	3/150

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