

DIPLOMA IN CIVIL ENGINEERING

Programme Structure TO BE IMPLEMENTED FROM YEAR 2019-20 (180OB-OB1)

Course Code	Course Name	Compulsary/ Optional	Pre- Requ -isite	Teaching Scheme			Total Credits	Examination Scheme								Class Declaration
								Theory			Practical/Oral				Total Marks	
				L	P	T	C	ESE		PA	ESE		PA			
								Min	Max	Max	Min	Max	Min	Max		
LEVEL-1: Foundation Level Courses(All Compulsory)																
HU1101	COMMUNICATION SKILLS I	Compulsory		2	0	1	3	16	40	10	10	25 \$	10	25	100	No
HU1102	COMMUNICATION SKILLS II	Compulsory	HU1101	2	0	1	3	16	40	10	NA	NA	20	50	100	No
SC1101	APPLIED MATHEMATICS I	Compulsory		3	0	2	5	32	80	20	NA	NA	10	25	125	No
SC1102	APPLIED MATHEMATICS II	Compulsory	SC1101	3	0	2	5	32	80	20	NA	NA	10	25	125	No
SC1103	APPLIED PHYSICS	Compulsory		3	2	0	5	32	#80	20	10	25 *	10	25	150	No
SC1106	APPLIED CHEMISTRY	Compulsory		3	2	0	5	32	#80	20	10	25 *	10	25	150	No
6	Level Total			16	4	6	26	160	400	100	30	75	70	175	750	
LEVEL-2: Core Technology Courses A(Core Technology(All Compulsory))																
AM2101	ENGINEERING MECHANICS	Compulsory		4	2	0	6	32	80	20	NA	NA	10	25	125	No
CE2101	CONSTRUCTION MATERIALS	Compulsory		3	2	0	5	32	80	20	10	25 \$	10	25	150	No
CM2102	FUNDAMENTALS OF ICT	Compulsory		1	2	0	3	NA	NA	NA	10	25 *	10	25	50	No
ME2103	ENGINEERING DRAWING	Compulsory		2	4	0	6	32	80	20	NA	NA	10	25	125	No
WS2101	WORKSHOP PRACTICE	Compulsory		0	4	0	4	NA	NA	NA	NA	NA	20	50	50	No
5	Sub Total			10	14	0	24	96	240	60	20	50	60	150	500	
LEVEL-2: Core Technology Courses B(Any One)																
CE2102	RURAL ENGINEERING	Optional		2	2	0	4	32	80	20	NA	NA	10	25	125	No
CE2103	BUILDING SERVICES	Optional		2	2	0	4	32	80	20	NA	NA	10	25	125	No
SC2101	APPLIED MATHEMATICS III	Optional	SC1102	3	0	1	4	32	80	20	NA	NA	10	25	125	No
1	Sub Total			2	2	0	4	32	80	20	0	0	10	25	125	
Level Total				12	16	0	28	128	320		20	50	70	175	625	
LEVEL-3: Basic Technology(All Compulsory)																
AM3101	MECHANICS OF MATERIALS AND STRUCTURES	Compulsory	AM2101	4	2	0	6	32	80	20	10	25 \$	10	25	150	No
AM3102	CONCRETE TECHNOLOGY	Compulsory		3	2	0	5	32	80	20	10	25 *	10	25	150	Yes
AM3103	SOIL MECHANICS	Compulsory		3	2	0	5	16	40	10	10	25 \$	10	25	100	No
CE3101	CIVIL ENGINEERING DRAWING	Compulsory	ME2103	2	4	0	6	32	80	20	20	50 *	10	25	175	No
CE3102	SURVEYING -I	Compulsory		2	4	0	6	16	40	10	10	25 *	20	50	125	No

CE3103	SURVEYING-II	Compulsory	CE3102	2	4	0	6	16	40	10	10	25 *	10	25	100	Yes
CE3104	HYDRAULICS	Compulsory		4	2	0	6	32	80	20	10	25 \$	10	25	150	No
CE3105	HIGHWAY AND BRIDGE ENGINEERING	Compulsory		4	2	0	6	32	80	20	10	25 \$	10	25	150	No
CE3106	CONSTRUCTION TECHNOLOGY	Compulsory		3	2	0	5	32	80	20	10	25 \$	10	25	150	No
9	Level Total			27	24	0	51	240	600	150	100	250	100	250	1250	
LEVEL-4: Applied Technology A(Auxiliary Courses - One Compulsory and Any One Optional)																
AU4101	ENVIRONMENTAL SCIENCE	Compulsory		0	2	0	2	NA	NA	NA	NA	NA	20	50	50	No
AU4102	RENEWABLE ENERGY TECHNOLOGIES	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
AU4103	ENGINEERING ECONOMICS	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
AU4104	ETHICAL SOURCES AND SUSTAINABILITY	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
AU4105	DIGITAL MARKETING	Optional		0	2	0	2	NA	NA	NA	10	25 \$	10	25	50	No
2	Sub Total			2	2	0	4	16	40	10	0	0	20	50	100	
LEVEL-4: Applied Technology B(Management Level Courses (One Compulsory And Any One Optional))																
MA4101	ENTREPRENEURSHIP AND STARTUPS	Compulsory		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
MA4102	INDUSTRIAL ORGANISATION AND MANAGEMENT	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
MA4103	MATERIALS MANAGEMENT	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
MA4104	DISASTER MANAGEMENT	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
MA4105	INTRODUCTION TO E-COMMERCE	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
MA4106	INFORMATION MANAGEMENT	Optional		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	No
2	Sub Total			4	0	0	4	32	80	20	0	0	0	0	100	
LEVEL-4: Applied Technology C(Programme Specific Courses (All Compulsory))																
AM4101	THEORY OF STRUCTURE	Compulsory	AM3101	4	0	1	5	32	80	20	NA	NA	10	25	125	No
AM4102	ANALYSIS AND DESIGN OF RC STRUCTURES	Compulsory	AM4101	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE4101	INDUSTRY INPLANT TRAINING	Compulsory	LEVEL 1 AND LEVEL 2 COURSES TERM GRANT	0	6	0	6	NA	NA	NA	20	50 \$	20	50	100	No
CE4102	PROJECT	Compulsory	90 CREDITS AND LEVEL 1 PASSED	0	4	0	4	NA	NA	NA	20	50 \$	20	50	100	Yes

CE4103	SEMINAR	Compulsory	90 CREDITS AND LEVEL 1 PASSED	0	2	0	2	NA	NA	NA	10	25 \$	10	25	50	Yes
CE4104	ESTIMATION AND COSTING	Compulsory	CE3101	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE4105	IRRIGATION ENGINEERING	Compulsory	CE3104	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE4106	ENVIRONMENTAL ENGINEERING	Compulsory	CE3104	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE4107	CONTRACTS AND ACCOUNT	Compulsory	CE4104	2	2	0	4	32	80	20	10	25 \$	10	25	150	No
CE4108	CIVIL ENGINEERING -CAD	Compulsory		0	2	0	2	NA	NA	NA	10	25 *	10	25	50	No
CE4109	CONSTRUCTION MANAGEMENT	Compulsory		2	0	0	2	16	#40	10	NA	NA	NA	NA	50	Yes
11	Sub Total			24	24	1	49	208	520	130	110	275	120	300	1225	
Level Total				30	26	1	57	256	640		110	275	140	350	1425	
LEVEL-5: Diversified (Any Three)																
AM5101	DESIGN OF STEEL STRUCTURES	Optional	AM4101	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE5101	MANAGEMENT AND DISPOSAL OF SOLID WASTE	Optional	CE4106	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE5102	ADVANCED CONSTRUCTION TECHNIQUES AND EQUIPMENTS	Optional	CE3106	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE5103	RAILWAY AND TUNNEL ENGINEERING	Optional	CE3105	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE5104	TOWN PLANNING	Optional	CE3101	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CE5105	INFRASTRUCTURE DEVELOPMENT	Optional	CE3106	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
3	Level Total			12	6	0	18	96	240	60	30	75	30	75	450	
Total Credits				97	76	7	180	880	2200		290	725	410	1025	4500	
Note: Prerequisite condition for registration to each class declaration course is that all level 1 courses must be passed. Legends : L- Lecture, P- Practical, T- Tutorial, C- Credits ,ESE-End Semester Examination,PA- Progressive Assessment (Test I,II/TermWork) , *- Practical Exam, \$- Oral Exam, #- Online Examination Each Lecture/Practical period is of one clock hour;																
Details About 180OB-OB1 Structure																

Note: The figures at Sr. No. 3,4,5,9,10 may slightly vary depending upon optional courses offered by the programme.

1.	Total Credits	180
2.	Total No. Courses	39+0(Non Credit Courses)
3.	No of Courses with Theory Examination	32
4.	No. of Courses with Practical/Oral Examination	26
5.	No. of Courses without Theory Examination	8+0(Non Credit Courses)
6.	Total Marks	4500
7.	Marks For Class Declaration	1500
8.	Theory Paper Marks for Class Declaration	900
9.	Theory:Practical Ratio as per Credits	54:46
10.	Theory:Practical Ratio as per Marks	61:39
11.	Class Declaration Courses	12