

DIPLOMA IN COMPUTER ENGINEERING

Programme Structure TO BE IMPLEMENTED FROM YEAR 2019-20 (1800B-OB1)

Course Code	Course Name	Compulsory/ 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)																
CM1101	COMPUTING ESSENTIALS	Compulsory		3	0	0	3	16	40	10	NA	NA	NA	NA	50	No
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
SC1104	ENGINEERING PHYSICS	Compulsory		3	2	0	5	32	#80	20	10	25 *	10	25	150	No
6	Level Total			16	2	6	24	144	360	90	20	50	60	150	650	
LEVEL-2: Core Technology Courses (All Compulsory)																
CM2101	PROGRAMMING IN C	Compulsory		3	2	2	7	32	80	20	20	50 *	10	25	175	No

CM2102	FUNDAMENTALS OF ICT	Compulsory		1	2	0	3	NA	NA	NA	10	25 *	10	25	50	No
CM2103	LINUX BASICS	Compulsory		1	2	0	3	NA	NA	NA	10	25 *	10	25	50	No
CM2104	WEB DESIGNING USING HTML	Compulsory		1	2	0	3	NA	NA	NA	10	25 *	20	50	75	No
EE2107	ELECTRICAL ENGINEERING	Compulsory		3	2	0	5	32	80	20	10	25 \$	10	25	150	No
ET2107	FUNDAMENTALS OF ELECTRONICS	Compulsory		3	2	0	5	32	80	20	10	25 \$	10	25	150	No
SC2102	ENGINEERING MATHEMATICS	Compulsory	SC1102	3	0	2	5	32	80	20	NA	NA	10	25	125	No
7	Level Total			15	12	4	31	128	320	80	70	175	80	200	775	

LEVEL-3: Basic Technology Courses (All Compulsory)

CM3101	OPERATING SYSTEMS	Compulsory		4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CM3102	JAVA PROGRAMMING-I	Compulsory		3	2	0	5	32	80	20	10	25 *	10	25	150	No
CM3103	DATA STRUCTURES	Compulsory	CM2101	3	2	1	6	32	80	20	10	25 *	10	25	150	Yes
CM3104	OBJECT ORIENTED PROGRAMMING :C++	Compulsory		3	2	1	6	32	80	20	10	25 *	10	25	150	Yes
CM3105	PRINCIPLES OF DIGITAL TECHNIQUES AND MICROPROCESSOR PROGRAMMING	Compulsory		4	2	0	6	32	80	20	10	25 *	10	25	150	No

CM3106	COMPUTER GRAPHICS USING C	Compulsory		3	2	1	6	32	80	20	10	25 *	10	25	150	No
CM3107	COMPUTER PERIPHERALS AND HARDWARE MAINTENANCE	Compulsory		3	2	0	5	16	40	10	10	25 *	10	25	100	No
CM3108	COMPUTER NETWORK	Compulsory		4	2	0	6	32	80	20	10	25 \$	10	25	150	No
8	Level Total			27	16	3	46	240	600	150	80	200	80	200	1150	

LEVEL-4: Applied Technology Courses 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 Courses 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
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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 Courses C(Programme Specific Courses (All Compulsory))

CM4101	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
CM4102	PROJECT	Compulsory	90 CREDITS AND LEVEL 1 PASSED	0	4	0	4	NA	NA	NA	20	50 \$	20	50	100	Yes
CM4103	SEMINAR	Compulsory	90 CREDITS AND LEVEL 1 PASSED	0	2	0	2	NA	NA	NA	10	25 \$	10	25	50	Yes

CM4104	PROFESSIONAL PRACTICES - I	Compulsory		0	2	0	2	NA	NA	NA	NA	NA	20	50	50	No
CM4105	PROFESSIONAL PRACTICES-II	Compulsory		0	2	0	2	NA	NA	NA	NA	NA	20	50	50	No
CM4106	WEB DEVELOPMENT USING JAVASCRIPT	Compulsory		1	2	1	4	NA	NA	NA	10	25 *	20	50	75	No
CM4107	SOFTWARE ENGINEERING AND TESTING	Compulsory		4	2	0	6	32	80	20	10	25 \$	10	25	150	No
CM4108	ADVANCED COMPUTER NETWORK	Compulsory	CM3108	4	2	0	6	32	80	20	10	25 \$	10	25	150	Yes
CM4109	JAVA PROGRAMMING-II	Compulsory	CM3102	3	2	1	6	32	80	20	10	25 *	10	25	150	Yes
CM4110	COMPUTER SECURITY	Compulsory		3	2	0	5	32	80	20	10	25 \$	10	25	150	No
CM4111	RELATIONAL DATABASE MANAGEMENT SYSTEM	Compulsory		4	2	0	6	32	80	20	10	25 *	10	25	150	No
11	Sub Total			19	28	2	49	160	400	100	110	275	160	400	1175	
Level Total				25	30	2	57	208	520		110	275	180	450	1375	
LEVEL-5: Diversified Courses A(Any Two)																
CM5101	PROGRAMMING WITH PYTHON	Optional		2	4	0	6	16	#40	10	20	50 *	20	50	150	Yes

CM5102	SERVER SIDE SCRIPTING USING JSP	Optional		2	4	0	6	16	#40	10	20	50 *	20	50	150	Yes
CM5103	PROGRAMMING USING PHP	Optional		2	4	0	6	16	#40	10	20	50 *	20	50	150	Yes
CM5104	ANDROID APPLICATION PROGRAMMING	Optional		2	4	0	6	16	#40	10	20	50 *	20	50	150	Yes
CM5105	NETWORK MANAGEMENT AND ADMINISTRATION	Optional		2	4	0	6	16	#40	10	20	50 \$	20	50	150	Yes
2	Sub Total			4	8	0	12	32	80	20	40	100	40	100	300	
LEVEL-5: Diversified Courses B(Any Two)																
CM5106	DIGITAL FORENSICS AND ETHICAL HACKING	Optional		3	2	0	5	32	80	20	10	25 \$	10	25	150	Yes
CM5107	DATA MINING	Optional		3	2	0	5	32	80	20	10	25 \$	10	25	150	Yes
CM5108	CLOUD COMPUTING	Optional		3	2	0	5	32	80	20	10	25 \$	10	25	150	Yes
CM5109	WIRELESS SENSOR NETWORK	Optional		3	2	0	5	32	80	20	10	25 \$	10	25	150	Yes
2	Sub Total			6	4	0	10	64	160	40	20	50	20	50	300	
Level Total				10	12	0	22	96	240		60	150	60	150	600	
Total Credits				93	72	15	180	816	2040		340	850	460	1150	4550	

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 1800B-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	40+0(Non Credit Courses)
3.	No of Courses with Theory Examination	30
4.	No. of Courses with Practical/Oral Examination	29
5.	No. of Courses without Theory Examination	11+0(Non Credit Courses)
6.	Total Marks	4550
7.	Marks For Class Declaration	1500
8.	Theory Paper Marks for Class Declaration	800
9.	Theory:Practical Ratio as per Credits	52:48
10.	Theory:Practical Ratio as per Marks	56:44
11.	Class Declaration Courses	11