

DIPLOMA IN INFORMATION TECHNOLOGY

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

Course Code	Course Name	Compulsory/ Optional	Pre-Req -isite	Teaching Scheme			Total Credits	Examination Scheme								Class Declaration
				L	P	T		Theory		Practical/Oral				Total Marks		
								ESE	PA	ESE	PA	Min	Max		Min	
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
IT1101	BASICS OF INFORMATION TECHNOLOGY	Compulsory		3	0	0	3	16	40	10	NA	NA	NA	NA	50	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 A(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
6	Sub Total			12	12	2	26	96	240	60	70	175	70	175	650	
LEVEL-2: Core Technology Courses B(Any One)																
IT2101	COMPUTER PERIPHERALS AND HARDWARE MAINTENANCE	Optional		3	2	0	5	32	80	20	NA	NA	10	25	125	No
SC2102	ENGINEERING MATHEMATICS	Optional	SC1102	3	0	2	5	32	80	20	NA	NA	10	25	125	No
1	Sub Total			3	2	0	5	32	80	20	0	0	10	25	125	
Level Total			15	14	2	31	128	320	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
IT3101	MULTIMEDIA AND ANIMATION	Compulsory		2	2	0	4	16	40	10	10	25 *	10	25	100	No
IT3102	DIGITAL TECHNIQUES AND MICROPROCESSOR PROGRAMMING	Compulsory		4	2	0	6	32	80	20	10	25 *	10	25	150	No
IT3103	DATA COMMUNICATION AND NETWORKING	Compulsory		3	2	0	5	32	80	20	10	25 \$	10	25	150	Yes
IT3104	DATABASE MANAGEMENT SYSTEM	Compulsory		3	2	0	5	32	80	20	10	25 *	10	25	150	No
8	Level Total			25	16	2	43	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
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
IT4101	SOFTWARE ENGINEERING	Compulsory		3	2	0	5	32	80	20	NA	NA	10	25	125	No
IT4102	SOFTWARE TESTING	Compulsory		2	2	0	4	16	40	10	10	25 *	10	25	100	No
IT4103	JAVA PROGRAMMING-II	Compulsory	CM3102	3	2	0	5	32	80	20	10	25 *	10	25	150	No
IT4104	INTERNET OF THINGS	Compulsory		0	2	2	4	NA	NA	NA	10	25 *	20	50	75	No
IT4105	MOBILE APPLICATION DEVELOPEMENT	Compulsory		2	2	0	4	NA	NA	NA	20	50 *	20	50	100	No
IT4106	NETWORK MANAGEMENT AND ADMINISTRATION	Compulsory		2	2	0	4	16	40	10	10	25 \$	10	25	100	No
12	Sub Total			13	30	3	46	96	240	60	120	300	190	475	1075	
	Level Total			19	32	3	54	144	360		120	300	210	525	1275	
LEVEL-5: Diversified Courses A(Any Three)																
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
IT5101	DATABASE ADMINISTRATION	Optional	IT3104	2	4	0	6	16	#40	10	20	50 \$	20	50	150	Yes
IT5102	CLOUD TECHNOLOGIES	Optional		2	4	0	6	16	#40	10	20	50 \$	20	50	150	Yes
3	Sub Total			6	12	0	18	48	120	30	60	150	60	150	450	
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

IT5103	GRAPHICS AND GAMING TECHNOLOGY	Optional		3	2	0	5	32	80	20	10	25 \$	10	25	150	Yes
IT5104	INFORMATION SECURITY	Optional		3	2	0	5	32	80	20	10	25 \$	10	25	150	Yes
IT5105	BUSINESS INTELLIGENCE	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				12	16	0	28	112	280		80	200	80	200	750	
Total Credits				87	80	13	180	768	1920		370	925	510	1275	4600	

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	42+0(Non Credit Courses)
3.	No of Courses with Theory Examination	30
4.	No. of Courses with Practical/Oral Examination	30
5.	No. of Courses without Theory Examination	13+0(Non Credit Courses)
6.	Total Marks	4600
7.	Marks For Class Declaration	1500
8.	Theory Paper Marks for Class Declaration	750
9.	Theory:Practical Ratio as per Credits	48:52
10.	Theory:Practical Ratio as per Marks	52:48
11.	Class Declaration Courses	11