

**DIPLOMA IN INFORMATION TECHNOLOGY****Programme Structure TO BE IMPLEMENTED FROM YEAR 2014 (180S)****Level I - Foundation Level Courses (All Compulsory)**

COURSE CODE	COURSE TITLE	PRE - REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME					Total Marks	Class Declaration
				L	P	T	C	PA	TH	TW	OR	PR		
HU181	English	--	Compulsory	2	2	--	4	20	80	25	--	--	125	
HU182	Communication Skill	--	Compulsory	2	2	--	4	20	80	--	25	--	125	
SC181	Applied Mathematics-I	--	Compulsory	3	--	1	4	20	80	--	--	--	100	
SC182	Applied Mathematics-II	--	Compulsory	3	--	1	4	20	80	--	--	--	100	
SC183	Engineering Physics	--	Compulsory	3	2	--	5	20	80	--	--	50	150	
5	<b>TOTAL</b>			<b>13</b>	<b>6</b>	<b>2</b>	<b>21</b>	<b>100</b>	<b>400</b>	<b>25</b>	<b>25</b>	<b>50</b>	<b>600</b>	

**Level - II Core Technology Courses (All Compulsory)**

COURSE CODE	COURSE TITLE	PRE - REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME					Total Marks	Class Declaration
				L	P	T	C	PA	TH	TW	OR	PR		
CM282	Programming in C	--	Compulsory	3	2	1	6	20	80	25	--	50	175	
CM283	Computer Workshop	--	Compulsory	--	4	--	4	--	--	50	25	--	75	
CM284	LINUX Basics	--	Compulsory	1	2	--	3	--	--	25	--	50	75	
CM285	Web Designing Using HTML	--	Compulsory	1	2	--	3	--	--	25	--	50	75	
EE283	Fundamentals of Electrical Engineering	--	Compulsory	3	2	--	5	20	80	25	25	--	150	
ET284	Fundamentals of Electronics	--	Compulsory	3	2	--	5	20	80	25	25	--	150	
IT281	Basics of Information Technology	--	Compulsory	3	2	--	5	10	40	25	--	25	100	
7	<b>TOTAL</b>			<b>14</b>	<b>16</b>	<b>--</b>	<b>31</b>	<b>70</b>	<b>280</b>	<b>200</b>	<b>75</b>	<b>175</b>	<b>800</b>	

**GROUP B (Any One)**

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IT282	Emerging Trends in Information Technology	--	Optional	3	--	0	3	20	80	--	--	--	100	
SC282	Engineering Mathematics	--	Optional	2	--	1	3	20	80	--	--	--	100	
<b>1</b>	<b>TOTAL</b>			<b>2</b>	<b>--</b>	<b>1</b>	<b>3</b>	<b>20</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>	

**Level III – Basic Technology Courses (All Compulsory)**

COURSE CODE	COURSE TITLE	PRE - REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME					Total Marks	
				L	P	T	C	PA	TH	TW	OR	PR		
IT385	Operating Systems	--	Compulsory	4	2	--	6	20	80	25	25	--	150	
CM387	Data Structures	--	Compulsory	4	2	2	8	20	80	25	--	25	150	
CM388	Object Oriented Programming : C++	--	Compulsory	3	2	1	6	20	80	25	--	25	150	YES
CM389	Java Programming-I	--	Compulsory	3	2	--	5	20	80	25	--	25	150	
IT381	Digital Techniques & Microprocessor or Programming	--	Compulsory	4	2	--	6	20	80	25	--	50	175	
IT382	Multimedia and Animation	--	Compulsory	2	2	2	6	10	40	50	--	50	150	
IT383	Data Communication & Networking	--	Compulsory	4	2	--	6	20	80	25	25	--	150	YES
IT384	Relational Database Management System	--	Compulsory	3	2	1	6	20	80	25	--	25	150	YES
<b>8</b>	<b>TOTAL</b>			<b>27</b>	<b>16</b>	<b>6</b>	<b>49</b>	<b>150</b>	<b>600</b>	<b>225</b>	<b>50</b>	<b>200</b>	<b>1225</b>	

**Level - IV Applied Technology Courses**

COURSE CODE	COURSE TITLE	PRE - REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME					Total Marks	
				L	P	T	C	PA	TH	TW	OR	PR		
<b>GROUP -A (TWO)</b>														
AU481	Environmental Science	--	Compulsory	--	2	--	2	--	--	50	--	--	50	
AU482	Community Development		Optional	2	--	--	2	20	80	--	--	--	100	

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AU483	Renewable & Sustainable Energy Management	Any One	Optional	2	--	--	2	20	80	--	--	--	100	
AU484	Engineering Economics		Optional	2	--	--	2	20	80	--	--	--	100	
AU485	Fabric Studies		Optional	--	2	--	2	--	--	50	--	50	100	
AU486	E-Commerce		Optional	2	--	--	2	20	80	--	--	--	100	
<b>2</b>	<b>TOTAL</b>			<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>20</b>	<b>80</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>150</b>	
<b>GROUP -B (ANY ONE)</b>														
MA481	Construction Management	--	Optional	3	--	--	3	20	80	--	--	--	100	
MA482	Industrial Organisation And Management	--	Optional	3	--	--	3	20	80	--	--	--	100	
MA483	Entrepreneurs hip Development	--	Optional	3	--	--	3	20	80	--	--	--	100	
MA484	Materials Management	--	Optional	3	--	--	3	20	80	--	--	--	100	
MA485	Supervisory Management	--	Optional	3	--	--	3	20	80	--	--	--	100	
MA486	Total Quality Management	--	Optional	3	--	--	3	20	80	--	--	--	100	
MA487	Management Information System	--	Optional	3	--	--	3	20	80	--	--	--	100	
<b>1</b>	<b>TOTAL</b>	--		<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>20</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>	
<b>GROUP-C (All Compulsory)</b>														
CM481	Project and Seminar (In-house/ Industry)	90 Credits	Compulsory	--	8	--	8	50	--	50	--	50	150	YES
CM482	Java Programming-II	CM389	Compulsory	3	2	--	5	20	80	25	--	25	150	YES
CM485	Computer Security	--	Compulsory	3	2	--	5	20	80	25	25	--	150	
CM486	Software Testing	--	Compulsory	2	2	2	6	10	40	50	--	50	150	

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IT481	Mobile Application Development	--	Compulsory	2	2	--	4	--	--	50	--	25	75	
IT482	Client Side Scripting Using Javascript	--	Compulsory	2	2	2	6	10	40	50	--	50	150	
IT483	Programming using .NET Technology		Compulsory	2	2	2	6	10	40	50	--	50	150	
IT484	Software Engineering	--	Compulsory	3	2	--	5	20	80	25	25	--	150	YES
<b>8</b>	<b>TOTAL</b>			<b>17</b>	<b>22</b>	<b>6</b>	<b>45</b>	<b>140</b>	<b>360</b>	<b>325</b>	<b>50</b>	<b>250</b>	<b>1125</b>	
<b>GROUP-D</b>														
NC481	Development of Soft Skills-I	--	Compulsory	--	2	--	--	--	--	25	--	--	25	Grade
NC482	Development of Soft Skills-II	--	Compulsory	--	2	--	--	--	--	25	--	--	25	Grade
<b>2</b>	<b>TOTAL</b>			<b>0</b>	<b>4</b>	<b>--</b>	<b>--</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>50</b>	
<b>Level V – Diversified Courses</b>														
COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME					Total Marks	
				L	P	T	C	PA	TH	TW	OR	PR		
<b>GROUP-A (Any Two)</b>														
CM582	Windows Programming		Optional	2	2	2	6	10	40	50	--	50	150	YES
IT581	Database Administration		Optional	2	2	2	6	10	40	50	--	50	150	YES
IT582	Server Side Scripting using PHP	--	Optional	2	2	2	6	10	40	50	--	50	150	YES
IT583	Object Oriented Modelling & Design		Optional	2	2	2	6	10	40	50	--	50	150	YES
<b>2</b>	<b>TOTAL</b>			<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>20</b>	<b>80</b>	<b>100</b>	<b>0</b>	<b>100</b>	<b>300</b>	
<b>GROUP-B (Any Two)</b>														
CM586	Network Management & Administration	--	Optional	4	2	--	6	20	80	25	25	--	150	YES

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IT584	Graphics and Gaming Technology	--	Optional	3	2	1	6	20	80	25	25	--	150	YES
IT585	Information Security	--	Optional	4	2	--	6	20	80	25	25	--	150	YES
IT586	Data mining and Warehousing	--	Optional	3	2	1	6	20	80	25	25	--	150	YES
<b>2</b>	<b>TOTAL</b>			<b>8</b>	<b>4</b>	<b>0</b>	<b>12</b>	<b>40</b>	<b>160</b>	<b>50</b>	<b>50</b>	<b>0</b>	<b>300</b>	
Total Credits				<b>90</b>	<b>70</b>	<b>20</b>	<b>180</b>	<b>580</b>	<b>2120</b>	<b>1025</b>	<b>250</b>	<b>775</b>	<b>4750</b>	

L - Lecture, P-Practical, C- Credits, PA- Progressive Assessment, PR- Practical, TW- Term Work, OR- Oral, SEMI- Seminar Presentation

C.D. - Class Declaration T.M.- Total Marks, Each Lecture / Practical period is of one clock hour

Total Credits	180
Total No. Courses	36+2
No. of Courses with Theory Examination	30
No. of Courses with Practical Examination	19
No. of Courses without Theory Examination	7+2
Total Marks	4750
Marks for Class Declaration	1525
Theory Paper Marks for Class Declaration	800
Theory : Practical Ratio	53:48
Class Declaration Courses	10