

# PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY

## PROGRAMME STRUCTURE

### SCHEME AT A GLANCE

Level	Name of Level	Total Number of Courses offered	Number of Courses to be completed	TH	TU	PR	Total Credits	Marks
Level-1	Foundation Courses	08	08 Compulsory	14	01	16	23	800
Level-2	Basic Technology Courses	09	09 Compulsory	26	--	24	38	1450
Level-3	Allied courses	05	03 (02 Compulsory +01 Electives)	05	--	04	07	200
Level-4	Applied Technology Courses	06	06 Compulsory	10	-	10	29	700
Level-5	Diversified Courses	14	06(02compulsary+04Electives)	16	-	14	23	850
<b>TOTAL</b>		<b>42</b>	<b><u>27</u> Compulsory +05Electives 32</b>	<b>71</b>	<b>01</b>	<b>68</b>	<b>120</b>	<b>4000</b>
<b>Audit courses</b>		<b>04</b>	<b>04</b>	<b>06</b>	<b>--</b>	<b>02</b>	<b>--</b>	<b>--</b>
<b>Grand Total</b>		<b>46</b>	<b>36</b>	<b>77</b>	<b>01</b>	<b>70</b>	<b>120</b>	<b>4000</b>

#### Abbreviations :

TH : Theory, TU : Tutorial, PR: Practical.

**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY**  
**PROGRAMME STRUCTURE**  
**LEVEL – 1**  
**FOUNDATION COURSES**

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21101	Communication Skills	CMS	02	--	02	04	03	03	80	20	--	--	50	150
02	21102	Engineering Mathematics	EMT	02	01	--	03	03	03	80	20	--	--	--	100
03	21103	Applied Mathematics	AMT	03	--	--	03	03	03	80	20	--	--	--	100
04	21104	Applied Physics	PHY	03	--	02	05	04	02	80#	20#	--	--	50	150
05	21105	Applied Chemistry	CHY	03	--	02	05	04	02	80#	20#	--	--	50	150
06	21107	Engineering Graphics	EGR	--	--	04	04	02	--	--	--	--	--	50	50
07	21111	Computer Workshop Practice	CWP	--	--	04	04	02	--	--	--	--	--	50	50
08	21112	Computer Fundamentals and Organization	CFO	01	--	02	03	02	--	--	--	--	--	50	50
<b>TOTAL</b>			--	<b>14</b>	<b>01</b>	<b>16</b>	<b>31</b>	<b>23</b>	--	<b>400</b>	<b>100</b>	--	--	<b>300</b>	<b>800</b>

**Level : 1**

Total Courses : 08  
Total Credits : 23  
Total Marks : 800

**Abbreviations:**

Abbreviation, TH : Theory, TU : Tutorial, PR: Practical, OR : Oral, TW : Term Work

**Course code Indication:**

First two digit : Indicates last two digits of Year of Implementation of Curriculum  
Third digit : Indicates Level.  
Fourth & fifth digit : Indicates Course Number.

**Assessment of PR / OR / TW :**

- 1) All orals & practicals are to be assessed by external & internal examiners.
- 2) All TW are to be assessed by internal examiners only.
- 3) # indicates Online theory Examination

**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY**  
**PROGRAMME STRUCTURES**  
**LEVEL – 2**  
**BASIC TECHNOLOGY COURSES**

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21232	Digital Techniques and Microprocessor	DTM	04	--	02	06	05	03	80	20	--	50	50	200
02	21233	Data Structures using 'c'	DST	03	--	04	07	05	03	80	20	25	--	25	150
03	21234	Database Management Systems	DBM	03	--	02	05	04	03	80	20		25	25	150
04	21235	Programming in C	PIC	03	--	04	07	05	03	80	20	50	--	50	200
05	21236	Object Oriented Programming	OOP	03	--	04	07	05	03	80	20	50	--	50	200
06	21237	PC Architecture and Maintenance	PCM	03	--	02	05	04	03	80	20	--	--	50	150
07	21238	Web Page Designing	WPD	01	--	02	03	02	--	--	--		--	50	50
08	21239	Operating System	OPS	03	--	02	05	04	03	80	20	--	50	50	200
09	21240	Data communication and Networking	DCN	03	--	02	05	04	03	80	20	--	25	25	150
<b>TOTAL</b>			--	<b>26</b>	--	<b>24</b>	<b>50</b>	<b>38</b>	--	<b>640</b>	<b>160</b>	<b>125</b>	<b>150</b>	<b>375</b>	<b>1450</b>

**Level: 2**

Total Courses : 09  
Total Credits : 38  
Total Marks : 1450

**Assessment of PR / OR / TW :**

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**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY**  
**PROGRAMME STRUCTURE**  
**LEVEL – 3**  
**ALLIED COURSES**

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21301	Entrepreneurship and startups	EDS	01	--	02	03	02	--	--	--	--	--	50	50
02	21308	Industrial organization and management	IOM	03	--	--	03	03	03	80	20	--	--	--	100
<b>Elective I : Any ONE of the following</b>															
04	21312	E-Commerce	ECM	01	--	02	03	02	--	--	--	--	--	50	50
	21313	E-Governance	EGN	01	--	02	03	02	--	--	--	--	--	50	50
<b>TOTAL</b>			--	<b>05</b>	--	<b>04</b>	<b>09</b>	<b>07</b>	<b>03</b>	<b>80</b>	<b>20</b>	--	--	<b>100</b>	<b>200</b>

**Level: 3**

Total Courses : 03  
Total Credits : 07  
Total Marks : 200

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**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY**  
**PROGRAMME STRUCTURE**  
**LEVEL – 4**  
**APPLIED TECHNOLOGY COURSES**

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME							
				Hours per week				Total Hours	Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR				Hrs	Mark					
1	21410	Industrial training	ITR	--	--	--	35	14	--	--	--	--	100	100	200	
2	21411	Project	PRO	--	--	04	04	02	--	--	--	--	50	50	100	
3	21433	Software Engineering	SWE	03	--	--	03	03	03	80	20	--	--	--	100	
4	21434	Communication Technology	CMT	03	--	--	03	03	03	80	20	--	--	--	100	
5	21435	Java Programming	JPR	03	--	04	07	05	03	80	20	25	--	25	150	
6	21436	Scripting Technology	SPT	01	--	02	03	02	--	--	--	--	--	50	50	
<b>TOTAL</b>			--	<b>10</b>	<b>-</b>	<b>10</b>	<b>55</b>	<b>29</b>	<b>09</b>	<b>240</b>	<b>60</b>	<b>25</b>	<b>150</b>	<b>225</b>	<b>700</b>	

**Level: 4**

Total Courses : 06  
Total Credits : 29  
Total Marks : 700

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**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY**  
**PROGRAMME STRUCTURE**  
**LEVEL – 5**  
**DIVERSIFIED COURSES**

Sr No	Course Code	Course Title	Course Abbr	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21526	Advanced Java	ADJ	03	--	02	<b>05</b>	04	3	80	20	25	--	25	150
02	21527	Free and Open Source Software	FOS	03	--	02	05	04	3	80	20	--	25	25	150
<b>Elective II : Any ONE of the following</b>															
03	21528	Network Administration and Management	NAM	01	--	04	<b>05</b>	03	--	--	--	--	50	50	100
	21529	Multimedia technology	MLT	01	--	04	05	03	--	--	--	--	50	50	100
	21530	VB. NET Technology	VBN	01	--	04	05	03	--	--	--	--	50	50	100
<b>Elective III : Any ONE of the following</b>															
04	21531	Object Oriented Modeling and Design	OOM	03	--	02	05	04	3	80	20	--	50	50	200
	21532	Information Security	IFS	03	--	02	05	04	3	80	20	--	50	50	200
	21533	Software Testing	STG	03	--	02	05	04	3	80	20	--	50	50	200
<b>Elective IV : Any TWO of the following</b>															
05 06	21534	PHP Programming	PHP	03	--	02	05	04	3	80	20	--	--	25	125
	21535	Mobile Computing and Application Development	MCD	03	--	02	05	04	3	80	20	--	--	25	125
	21536	Data mining and big data	DMB	03	--	02	05	04	3	80	20	--	--	25	125
	21537	Programming with Python	PIP	03	--	02	05	04	3	80	20	--	--	25	125
	21538	ASP.NET Technology	ASP	03	--	02	05	04	3	80	20	--	--	25	125
	21539	Internet of Things	ITA	03	--	02	05	04	3	80	20	--	--	25	125
	21540	Artificial Intelligence and Machine Learning	AIM	03	--	02	05	04	3	80	20	--	--	25	125
<b>TOTAL</b>			--	<b>16</b>	--	<b>14</b>	<b>30</b>	<b>23</b>	<b>15</b>	<b>400</b>	<b>100</b>	<b>25</b>	<b>125</b>	<b>200</b>	<b>850</b>

**Level: 5**

Total Courses : 06  
Total Credits : 23  
Total Marks : 850

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**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY**  
**PROGRAMME STRUCTURE**  
**AUDIT COURSES**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Contact Hours Per Week (TH)</b>	<b>Contact Hours Per Week (PR)</b>	<b>Total Contact Hours Per Week</b>
1	21001	Environmental science	2		2
2	21002	Sports and Yoga	--	2	2
3	21003	Essence of Indian Knowledge and Tradition	2	--	2
4	21004	Indian Constitution	2	-	2

Total Courses : 04  
Total Credits : Nil  
Total Marks : Nil

**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY**  
**Courses for Award of Class**

Sr.No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				TH	TU	PR	Total hrs	Total Credits	Theory Paper		Test	PR	OR	TW	Total
									Hrs	Mark					
01	21233	Data Structures using 'c'	DST	03	--	04	07	05	03	80	20	25	--	25	150
02	21234	Database Management Systems	DBM	03	--	02	05	04	03	80	20	25	--	25	150
03	21240	Data Communication and Networking	DCN	03	--	02	05	04	03	80	20	--	25	25	150
04	21411	Project	PRO	--	--	04	04	02	--	--	--	--	50	50	100
05	21434	Java Programming	JPR	03	--	04	07	05	03	80	20	25	--	25	150
06	21526	Advanced Java	ADJ	03	--	02	05	04	03	80	20	--	25	25	150
07	21527	Free and Open Source Software	FOS	03	--	02	05	04	03	80	20	--	25	25	150
08	21410	Industrial training	ITR	--	--	--	35	14	--	--	--	--	100	100	200
09	21433	Software Engineering	SWE	03	--	--	03	03	03	80	20	--	--	--	100
<b>Elective III : Any One of the following</b>															
10	21531	Object Oriented Modeling and Design	OOM	03	--	02	04	03	3	80	20	--	25	25	150
	21532	Information Security	IFS	03	--	02	04	03	3	80	20	--	25	25	150
	21533	Software Testing	STG	03	--	02	04	03	3	80	20	--	25	25	150
<b>Elective IV : Any TWO of the following</b>															
11 12	21534	PHP Programming	PHP	03	--	02	05	04	3	80	20	--	--	25	125
	21535	Mobile Computing and Application Development	MCD	03	--	02	05	04	3	80	20	--	--	25	125
	21536	Data mining and big data	DMB	03	--	02	05	04	3	80	20	--	--	25	125
	21537	Programming with Python	PIP	03	--	02	05	04	3	80	20	--	--	25	125
	21538	ASP.NET Technology	ASP	03	--	02	05	04	3	80	20	--	--	25	125
	21539	Internet of Things	IOT	03	--	02	05	04	3	80	20	--	--	25	125
	21540	Artificial Intelligence and Machine Learning	AIM	03	--	02	05	04	3	80	20	--	--	25	125
<b>TOTAL</b>				<b>30</b>	<b>-</b>	<b>26</b>	<b>91</b>	<b>56</b>	<b>--</b>	<b>800</b>	<b>200</b>	<b>75</b>	<b>250</b>	<b>375</b>	<b>1700</b>

Total Courses : 12  
Total Credits : 56  
Total Marks : 1700

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**PROGRAMME - DIPLOMA IN INFORMATION TECHNOLOGY  
SAMPLE PATH  
ENTRY LEVEL- 10+**

Nature of Course	First Year		Second Year		Third Year		Total
	Odd Term	Even Term	Odd Term	Even Term	Odd Term	Even Term	
<b>Compulsory</b>	21102 EMT(03)	21101 CMS(03)	21233 DST(05)	21234 DBM(04)	21301 EPS(02)	21411 IND(14)	
	21104 PHY(04)	21103 AMT(03)	21232 DTM(05)	21239 OPS(04)	21411 PRO(02)		
	21107 EGR(02)	21105 CHY(04)	21236 OOP(05)	21434 CMT(03)	21526 ADJ(04)		
	21111 CWP(02)	21237 PCM (04)	21436 SPT(02)	21433 SWE(03)	21527 FOS(04)		
	21112 CFO(02)	21235 PIC(05)	21240 DCN(04)	21308 IOM(3)		--	
	--	21238 WPD(02)		21435 JPR(05)		--	
<b>Total credits (Compulsory)</b>	<b>13</b>	<b>21</b>	<b>21</b>	<b>22</b>	<b>12</b>	<b>14</b>	<b>103</b>
<b>Electives</b>	--	--	<b>Any one from Elective: I</b> 1.21312 ECM (02) 2. 21313 EGN(02) :(02)	<b>Any one from Elective: II:</b> 1. 21528 NAM (03) 2. 21529 MLT(03) 3. 21530 VBN (03) :(03)	<b>Any one from Elective: III:</b> 1. 21531 OOM(04) 2. 21532 IFS(04) 3. 21533 STG(04) :(04)		
	Nil	Nil	Nil		<b>Any Two from Elective : IV :</b> 1. 21534 PHP(04) 2. 21535 MCD (04) 3. 21536 DMB (04) 4. 21537 PIP(04) 5. 21538 ASP(04) 6. 21539 IOT(04) 7.21540 AIM(04) :(08)	Nil	
<b>Total Credits (Elective)</b>	--	--	<b>02</b>	<b>03</b>	<b>12</b>	--	<b>17</b>
<b>Total Courses</b>	<b>05</b>	<b>06</b>	<b>06</b>	<b>07</b>	<b>07</b>	<b>01</b>	<b>32</b>
<b>Audit Courses</b>	<b>SPY(00)</b>	<b>EVS(00)</b>		<b>IKT(00)</b>	<b>ICN(00)</b>		<b>04</b>
<b>Total Credits (Compulsory + Elective)</b>	<b>13</b>	<b>21</b>	<b>23</b>	<b>25</b>	<b>24</b>	<b>14</b>	<b>120</b>
<b>Grand Total of Credits</b>							<b>120</b>

Note: Figures in bracket indicates total credits.