

PROGRAMME - DIPLOMA IN COMPUTERTECHNOLOGY

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
TOTAL		42	<u>27</u> Compulsory +05Electives 32	71	01	68	120	4000
Audit courses		04	04	06	--	02	--	--
Grand Total		46	36	77	01	70	120	4000

Abbreviations :

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

PROGRAMME - DIPLOMA IN COMPUTERTECHNOLOGY
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
TOTAL			--	14	01	16	31	23	--	400	100	--	--	300	800

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 COMPUTER 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	05	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	21241	Computer Network	CPN	03	--	02	05	04	03	80	20	--	25	25	150
TOTAL			--	26	--	24	50	38	--	640	160	125	150	375	1450

Level: 2

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

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.

PROGRAMME - DIPLOMA IN COMPUTERTECHNOLOGY
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
Elective I: Any ONE of the following															
04	21312	E-Commerce	ECM	01	--	02	03	02	--	--	--	--	--	50	50
	21313	E-Governance	EGN	01	--	02	03	02	--	--	--	--	--	50	50
TOTAL			--	05	--	04	09	07	03	80	20	--	--	100	200

Level: 3

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

Assessment of PR / OR / TW:

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PROGRAMME - DIPLOMA IN COMPUTER TECHNOLOGY
PROGRAMME STRUCTURE
LEVEL – 4
APPLIED 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					
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	21437	System Software	SSW	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
TOTAL			--	10	-	10	55	29	09	240	60	25	150	225	700

Level: 4

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

Assessment of PR / OR / TW:

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PROGRAMME - DIPLOMA IN COMPUTER 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	05	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
Elective II: Any ONE of the following															
03	21528	Network Administration and Management	NAM	01	--	04	05	03	--	--	--	--	50	50	100
	21541	Computer Graphics	CGR	01	--	04	05	03	--	--	--	--	50	50	100
	21530	VB. NET Technology	VBN	01	--	04	05	03	--	--	--	--	50	50	100
Elective III: Any ONE of the following															
04	21531	Object Oriented Modeling and Design	OOM	03	--	02	05	04	3	80	20	--	50	50	200
	21542	Computer Security	COS	03	--	02	05	04	3	80	20	--	50	50	200
	21533	Software Testing	STG	03	--	02	05	04	3	80	20	--	50	50	200
Elective IV: Any TWO of the following															
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
	21543	Cloud Computing	CCM	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 & Its Application	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
TOTAL			--	16	--	14	30	24	15	400	100	25	125	200	850

Level: 5

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

Assessment of PR / OR / TW:

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PROGRAMME - DIPLOMA IN COMPUTERTECHNOLOGY
PROGRAMME STRUCTURE
AUDIT COURSES

Sr. No.	Course Code	Course Title	Contact Hours Per Week (TH)	Contact Hours Per Week (PR)	Total Contact Hours Per Week
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 COMPUTER 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	21241	Computer Network	CPN	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
Elective III : Any One of the following															
10	21531	Object Oriented Modeling and Design	OOM	03	--	02	04	03	3	80	20	--	25	25	150
	21542	Computer Security	COS	03	--	02	04	03	3	80	20	--	25	25	150
	21533	Software Testing	STG	03	--	02	04	03	3	80	20	--	25	25	150
Elective IV : Any TWO of the following															
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
	21543	Cloud Computing	CCM	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 and Its Applications	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
TOTAL				30	-	26	91	56	--	800	200	75	250	375	1700

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

Assessment of PR / OR / TW:

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**PROGRAMME - DIPLOMA IN COMPUTERTECHNOLOGY
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	
Compulsory	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)	21437 SSW(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)	21241 CPN(04)	21308 IOM(3)		--	
	--	21238 WPD(02)		21435 JPR(05)		--	
Total credits (Compulsory)	13	21	21	22	12	14	103
Electives	--	--	Any one from Elective: I 1.21312 ECM (02) 2. 21313 EGN(02) :(02)	Any one from Elective: II: 1. 21528 NAM (03) 2. 21541CGR(03) 3. 21530 VBN (03) :(03)	Any one from Elective: III: 1. 21531 OOM(04) 2. 21542 COS(04) 3. 21533 STG(04) :(04)		
	Nil	Nil	Nil		Any Two from Elective : IV : 1. 21534 PHP(04) 2. 21535 MCD (04) 3. 21543 CCM (04) 4. 21537 PIP(04) 5. 21538 ASP(04) 6. 21539 ITA(04) 7.21540 AIM(04) :(08)	Nil	
Total Credits (Elective)	--	--	02	03	12	--	17
Total Courses	05	06	06	07	07	01	32
Audit Courses	SPY(00)	EVS(00)		IKT(00)	ICN(00)		04
Total Credits (Compulsory + Elective)	13	21	23	25	24	14	120
Grand Total of Credits							120

Note: Figures in bracket indicates total credits.