



Government Polytechnic, Pune

(An Autonomous Institute of Government of Maharashtra)
Ganeshkhind, University Road, Shivajinagar, Pune-411016, Maharashtra, India.

120 NEP Curriculum
With Effect From Academic Year:2023-24
For Learning And Assesment Scheme For Admitted Batch:2023-24

Programme Name: Diploma in INFORMATION TECHNOLOGY.	Programme Code: IT
Duration of Programme: 6 Terms	Term Duration: 16 Weeks
Scheme: 120-NEP	Path: NEP1

						Learning Scheme						Assesment Scheme														
Sr. No.	Course Code	Course Name	Course Category	Prerequisite	IKS Hrs	Actual Contact Hrs./Week			Self Learning (Term Work + Assignment)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory				Based on LL & TL Practical				Based on Self Learning		Total Marks	CD		
						CL	TL	LL					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA					
															Max	Min	Max	Min	Max	Min	Max	Min				
TERM - 1																										
1	SC11203	ENGINEERING PHYSICS	DSC	--	2	3	--	2	1	6	3	2	30	70*#	100	40	25	10	25@	10	25	10	175	No		
2	SC11206	BASIC MATHEMATICS	AEC	--	6	4	2	--	2	8	4	3	30	70	100	40	--	--	--	--	25	10	125	No		
3	WS11205	ENGINEERING WORKSHOP PRACTICE	SEC	--	--	--	--	4	--	4	2	--	--	--	--	--	50	20	50@	20	--	--	100	No		
4	CM21201	FUNDAMENTALS OF ICT	SEC	--	--	1	--	2	1	4	2	--	--	--	--	--	25	10	25@	10	25	10	75	No		
5	CM21202	LINUX BASICS	DSC	--	--	1	--	2	1	4	2	--	--	--	--	--	25	10	25@	10	25	10	75	No		
6	HU11201	COMMUNICATION SKILLS (ENGLISH)	AEC	--	--	3	--	2	1	6	3	3	30	70	100	40	25	10	--	--	25	10	150	No		
7	HU21201	YOGA AND MEDITATION	VEC	--	1	--	--	1	1	2	1	--	--	--	--	--	25	10	--	--	25	10	50	No		
8	ME11202	ENGINEERING GRAPHICS	DSC	--	2	2	--	4	--	6	3	--	--	--	--	--	50	20	50@	20	--	--	100	No		
Total:					11	14	2	17	7	40	20		90	210	300		225		175		150		850			

						Learning Scheme						Assesment Scheme													
Sr. No.	Course Code	Course Name	Course Category	Prerequisite	IKS Hrs	Actual Contact Hrs./Week			Self Learning (Term Work + Assignment)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory				Based on LL & TL Practical				Based on Self Learning		Total Marks	CD	
						CL	TL	LL					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA				
															Max	Min	Max	Min	Max	Min	Max	Min			
TERM - 2																									
1	CM21204	PROGRAMMING IN C	DSC	--	--	4	--	4	--	8	4	3	30	70	100	40	50	20	25@	10	--	--	175	No	
2	CM21205	WEB PAGE DESIGNING USING HTML	SEC	--	--	2	--	4	2	8	4	--	--	--	--	50	20	50@	20	50	20	150	No		
3	EE21204	BASIC ELECTRICAL ENGINEERING	AEC	--	--	2	--	2	2	6	3	1	15	35*#	50	20	25	10	25@	10	25	10	125	No	
4	ET21203	BASIC ELECTRONICS ENGINEERING	AEC	--	--	2	--	2	2	6	3	1	15	35*#	50	20	25	10	25@	10	25	10	125	No	
5	HU21202	YOUTH LEADERSHIP FOR CLIMATE ACTION	VEC	--	--	--	--	--	2	2	1	--	--	--	--	--	--	--	--	--	50	20	50	No	
6	HU11202	PROFESSIONAL COMMUNICATION	SEC	--	--	--	--	2	--	2	1	--	--	--	--	--	25	10	25@	10	--	--	50	No	
7	IT31201	MULTIMEDIA AND ANIMATION	DSC	--	--	2	--	2	--	4	2	--	--	--	--	--	50	20	25@	10	--	--	75	No	
8	SC11207	APPLIED MATHEMATICS	AEC	SC11206	6	3	1	--	--	4	2	3	30	70	100	40	--	--	--	--	--	--	100	No	
Total:					6	15	1	16	8	40	20		90	210	300		225		175		150		850		

						Learning Scheme						Assesment Scheme													
Sr. No.	Course Code	Course Name	Course Category	Prerequisite	IKS Hrs	Actual Contact Hrs./Week			Self Learning (Term Work + Assignment)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory				Based on LL & TL Practical				Based on Self Learning		Total Marks	CD	
						CL	TL	LL					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA				
															Max	Min	Max	Min	Max	Min	Max	Min			
TERM - 3																									
1	CM31204	DIGITAL TECHNIQUES AND MICROPROCESSOR PROGRAMMING	AEC	--	1	3	1	2	2	8	4	3	30	70	100	40	25	10	25@	10	25	10	175	No	
2	IT31205	DATA STRUCTURE USING C	DSC	CM21204	--	3	1	4	--	8	4	3	30	70	100	40	50	20	25#	10	--	--	175	Yes	
3	CM41201	RELATIONAL DATABASE MANAGEMENT SYSTEM	DSC	--	--	3	--	4	1	8	4	3	30	70	100	40	25	10	25@	10	25	10	175	No	
4	IT41203	CLIENT SIDE SCRIPTING USING JAVASCRIPT	DSC	--	--	1	--	4	1	6	3	--	--	--	--	--	50	20	25@	10	25	10	100	No	
5	HU21203	INDIAN CONSTITUTION: CORE CONCEPTS AND VALUES	VEC	--	--	1	--	--	1	2	1	--	--	--	--	--	--	--	--	--	50	20	50	No	
6	CM31203	OBJECT ORIENTED PROGRAMMING	SEC	--	--	3	--	4	1	8	4	3	30	70	100	40	25	10	25@	10	25	10	175	No	
Total:					1	14	2	18	6	40	20		120	280	400		175		125		150		850		

						Learning Scheme						Assesment Scheme														
Sr. No.	Course Code	Course Name	Course Category	Prerequisite	IKS Hrs	Actual Contact Hrs./Week			Self Learning (Term Work + Assignment)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory				Based on LL & TL Practical				Based on Self Learning				Total Marks	CD
						CL	TL	LL					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA					
															Max	Min	Max	Min	Max	Min	Max	Min				
TERM - 4																										
1	IT31203	DATA COMMUNICATION AND NETWORKING	DSC	--	--	3	--	4	1	8	4	3	30	70	100	40	25	10	25@	10	25	10	175	No		
2	CM41202	PYTHON PROGRAMMING	SEC	--	--	2	--	4	2	8	4	1	15	35*#	50	20	25	10	25#	10	25	10	125	Yes		
3	IT41201	SOFTWARE ENGINEERING AND TESTING	DSC	--	--	3	1	2	2	8	4	3	30	70	100	40	25	10	25@	10	25	10	175	No		
4	HU21204	SOCIAL AND LIFE SKILLS	VEC	--	2	1	--	2	1	4	2	--	--	--	--	--	25	10	--	--	25	10	50	No		
5	CM31201	OPERATING SYSTEM	DSC	--	--	4	--	2	--	6	3	3	30	70	100	40	25	10	25#	10	--	--	150	Yes		
ELECTIVE-I(ANY 1)																										
6	IT51202	DIGITAL FORENSICS AND ETHICAL HACKING	DSE	--	--	3	--	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175	Yes		
Total:					2	16	1	16	7	40	20		135	315	450		150		125		125		850			

						Learning Scheme						Assesment Scheme														
Sr. No.	Course Code	Course Name	Course Category	Prerequisite	IKS Hrs	Actual Contact Hrs./Week			Self Learning (Term Work + Assignment)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory				Based on LL & TL Practical				Based on Self Learning		Total Marks	CD		
						CL	TL	LL					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA					
															Max	Min	Max	Min	Max	Min	Max	Min				
TERM - 5																										
1	CM51202	IOT AND ROBOTICS	SEC	--	--	1	--	2	1	4	2	--	--	--	--	--	50	20	25@	10	25	10	100	No		
2	CM51203	MOBILE APPLICATION DEVELOPMENT	SEC	--	--	2	--	4	2	8	4	--	--	--	--	--	50	20	50#	20	50	20	150	Yes		
3	IT51204	INFORMATION SECURITY AND CYBER LAWS	DSC	--	--	3	--	2	1	6	3	3	30	70	100	40	25	10	25@	10	25	10	175	No		
4	IT51205	EMERGING TRENDS IN INFORMATION TECHNOLOGY	DSC	--	--	4	--	--	2	6	3	2	30	70*#	100	40	--	--	--	--	25	10	125	Yes		
5	CM41205	JAVA PROGRAMMING	DSC	--	--	3	1	2	--	6	3	3	30	70	100	40	25	10	25#	10	--	--	150	Yes		
6	IT41207	CAPSTONE PROJECT	INP	Minimum 60 credits must be acquired	--	--	--	4	--	4	2	--	--	--	--	--	50	20	50#	20	--	--	100	Yes		
ELECTIVE-II(ANY 1)																										
7	IT51208	NETWORK MANAGEMENT AND ADMINISTRATION	DSE	--	--	3	1	2	--	6	3	3	30	70	100	40	25	10	25#	10	--	--	150	Yes		
8	IT51206	SERVER SIDE SCRIPTING USING PHP	DSE	--	--	3	1	2	--	6	3	3	30	70	100	40	25	10	25#	10	--	--	150	Yes		
9	IT51207	CLOUD TECHNOLOGIES	DSE	--	--	3	1	2	--	6	3	3	30	70	100	40	25	10	25#	10	--	--	150	Yes		
Total:					--	16	2	16	6	40	20		120	280	400		225		200		125		950			

Abbreviations : CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment,SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment, CD : Class Declearation
Legends : @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination
Note :
1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that course.
3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.
7. Course Category : Discipline Specific Course Core (DSC) : 3, Discipline Specific Elective (DSE) : 3, Value Education Course (VEC) : 0, Intern./Apprenti./Project./Community (INP) : 1, AbilityEnhancement Course (AEC) : 0, Skill Enhancement Course (SEC) : 2, Generic Elective (GE) : 0

Name & Signature
 (Programme CDC Incharge)

Name & Signature
 (Programme Head)

Name & Signature
 (CDC Incharge)