

Bachelor of Science. (Information Technology) NM College NEP Structure - 30th May, 2023

Semester	Major		Minor	Open Elective (Any 2)	VSC/SEC	AEC	VAC	IKS (Any 1)	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives								
I	Programming Logic And Techniques (3) Notion of Operating Systems (3)	NIL	Electronics & Communication Technology I (2)	Cyber Crimes & Laws (2) Digital Marketing (2) Organizational Behaviour (2)	C Programming LAB (1) Electronics & Communication Technology LAB (1) Discrete Mathematics (2)	Communication Skills I (2)	Environmental Science (2)	Chanakya Neeti(2) OR Indian Knowledge System (2)	NIL	22
II	Object Oriented Concepts (3) Web Technologies (3)	NIL	Electronics & Communication Technology II (2)	Patents & Copyrights (2) Content Creation & Design (2) Geographical Information Systems (2)	C++ Programming LAB (1) Web And Assembly Programming LAB (1) Statistical Methods for Data Science (2)	Communication Skills II (2)	Global Environment Management (2)	NIL	NSS Level I OR YOGA Level I OR CULTURAL Level I OR SPORTS Level I (2)	22
Total	12	0	4	8	8	4	4	2	2	44

Exit option with Certificate (44 credits + 4 skill credits)

Semester	Major		Minor	Open Elective (Any 1)	VSC/SEC (Any 1)	AEC (Any 1)*	VEC	IKS (Any 1)	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives								
III	Data Structures & Algorithm (3+1) Software Engineering (3) Python Programming LAB (1)	NIL	Database Management System (3+1)	Business Analytics (2) Customer Relationship Management (2)	Mathematics for Information Technology I (2)	Hindi Level I (2) OR Marathi Level I (2) OR Gujarati Level I (2) OR Sanskrit Level I (2)	NIL	NIL	FIELD PROJECT (2) NSS Level I OR YOGA Level I OR CULTURAL Level I OR SPORTS Level I (2)	22
IV	Networking Technology (3+1) Core Java (3+1)	NIL	Embedded System (3+1)	Project Management (2) Supply Chain Management (2)	Mathematics for Information Technology II (2)	Hindi Level II (2) OR Marathi Level II (2) OR Gujarati Level II (2) OR Sanskrit Level II (2)	NIL	NIL	COMMUNITY ENGAGEMENT PROJECT (2) NSS Level III OR YOGA Level III OR CULTURAL Level III OR SPORTS Level III (2)	22
Total	16/28	0	8/12	4/12	4/12	4/8	0/4	0/2	8/10	44/88

Exit option with Certificate (88 credits + 4-skill credits)

Semester	Major		Minor	Open Elective	VSC/SEC	AEC	VEC	IKS	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives (Any 1)								
V	Software Project Management and Testing(4) Web Development (3+1) Cloud Computing(2)	Artificial Intelligence(3+1) OR Information and Cyber Forensic (3+1)	Internet of Things (3+1)	NIL	Software Project Management and Testing LAB (1) Cloud Computing LAB(1)	NIL	NIL	NIL	FP/CEP (2)	22
VI	Data Science (3+1) Enterprise Java (3+1) Search Engine Optimization (2)	Ethical Hacking (3+1) Modern Networking (3+1)	Mobile Application Development (3+1)	NIL	NIL	NIL	NIL	NIL	OJT (4)	22

Total	20 // 48	8//8	8//20	0//12	2//14	0//8	0//4	0//2	6//16	88//132
Exit option with Degree (132 credits)										
Semester	Major		Minor (Any 1)	Open Elective	VSC/SEC	AEC	VEC	IKS	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives (Any 1)								
VII	Soft Computing Techniques (3+1) Advanced Networking Technologies (3+1) Introduction to DevOps (3+1) Project Implementation I (2)	Big Data Analytics (3+1) OR Wireless and Mobile Communication (3+1)	RESEARCH METHODOLOGY (4)	NIL	NIL	NIL	NIL	NIL	NIL	22
VIII	Foundation of Blockchain (3+1) Time Series Analysis (3+1) Machine Learning (3+1) Project Implementation II (2)	Web Analytics (3+1) OR Image Processing (3+1)	NIL	NIL	NIL	NIL	NIL	NIL	INTERNSHIP, OJT (4)	22
Total	28//76	8//16	4//24	0//12	0//14	0//8	0//4	0//2	4//20	176
Degree with honours (176 credits)										

DSE Discipline Specific Electives
OEC Open Electives Course
VOC Vocational Courses
SEC Skill Enhancement Courses
AEC Ability Enhancement Courses
IKS Indian Knowledge System
VAC Value Added Courses
OJT On the Job Training
FP Field Project
CC Co Curricular Activities
CE Community Engagement
MEC Modern English Language
MIL Modern Indian Language