

**Bachelor of Science. (Information Technology) NM College NEP Structure**

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) Orgnaizational Behaviour (2)	C Programming LAB (1) Electronics & Communication Technology I LAB (1) Discrete Mathematics (2)	Communication Skills I (2)	Environmental Studies (2)	Chanakya Neeti (2) OR Indian Knowledge Systems (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) Basic Statistics (2)	Communication Skills II (2)	Global Environment Management (2)	NIL	NSS Level I OR YOGA Level I OR CULTURAL - Dance Level I/ CULTURAL - Drama Level I/ CULTURAL - Music Level I OR SPORTS Level I (2)	22
<b>Total</b>	<b>12</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>44</b>
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, Data Structures And Algorithm LAB (3+1) Sotware Engineering (3) Python Programming LAB (1)	NIL	Database Management System, Database Management System LAB (3+1)	Business Analytics (2) Customer Relationship Management (2)	Mathematics for Information Technology I (2)	Hindi Level I (2) / Marathi Level I(2)/ Gujarati Level I (2)/ Sanskrit Level I (2)/ <b>Professional And Management Skills *</b>	NIL	NIL	FIELD PROJECT (2) NSS Level II OR YOGA Level II OR CULTURAL Level II / CULTURAL - Drama Level I/ CULTURAL - Music Level I OR SPORTS Level II (2)	22
IV	Networking Technology, Networking Technology LAB (3+1) Core Java, Core Java LAB (3+1)	NIL	Embedded System, Embedded System LAB (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) OR <b>Universal Values And Skills*</b>	NIL	NIL	COMMUNITY ENGAGEMENT PROJECT (2) NSS Level III OR YOGA Level III OR CULTURAL Level III / CULTURAL - Drama Level I/ CULTURAL - Music Level I OR SPORTS Level III (2)	22
<b>Total</b>	<b>16//28</b>	<b>0</b>	<b>8//12</b>	<b>4//12</b>	<b>4//12</b>	<b>4//8</b>	<b>0//4</b>	<b>0//2</b>	<b>8//10</b>	<b>44//88</b>

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	OJT (4)	22
<b>Total</b>	<b>20 // 48</b>	<b>8//8</b>	<b>8//20</b>	<b>0//12</b>	<b>2//14</b>	<b>0//8</b>	<b>0//4</b>	<b>0//2</b>	<b>6//16</b>	<b>88//132</b>	
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	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	INTERNSHIP, OJT (4)	22
<b>Total</b>	<b>28//76</b>	<b>8//16</b>	<b>4//24</b>	<b>0//12</b>	<b>0//14</b>	<b>0//8</b>	<b>0//4</b>	<b>0//2</b>	<b>4//20</b>	<b>176</b>	
Degree with honours (176 credits)											

- OE** Open Electives
- VSEC** Vocational Skill and Skill Enhancement courses
- VSC** Vocational Skill Courses
- SEC** Skill Enhancement Courses
- AEC** Ability Enhancement Courses
- IKS** Indian Knowledge System
- VEC** Value Education Courses
- OJT** On Job Training
- FP** Field Project
- CC** Co Curricular Activities
- CEP** Community Engagement and Service

Common between NM and Mithibai

Common between NM and UPG