

**Courses Offered by B.Voc. (Software Development) Department at
First year of Graduation NEP 2024**

Subject-1 (Major) Courses			
Semester	Course code	Title of the paper	Credits
I	SDMAT-111	PHP Programming	2
	SDMAT-112	Database Management System	2
	SDMAP-113	PHP Programming Lab	2
II	SDMAT-121	Mastering in JavaScript	2
	SDMAT-122	Object Oriented Software Engineering	2
	SDMAP-123	Mastering in JavaScript Lab	2
Subject-2 (Minor) Courses			
I	ESMAT-111	WebCraft	2
	ESMAT-112	CircuitC	2
	ESMAP-113	CircuitC Lab	2
II	ESMAT-121	Computer Networks	2
	ESMAT-122	Data CircuitC	2
	ESMAP-123	Data CircuitC Lab	2
Indian Knowledge System (IKS)			
I	GIKST-111	Generic IKS	2
Skill Enhancement Course (SEC)			
I	SDSEP-111	Static Web Design	2
II	SDSEP-121	Dynamic Web Design: PHP	2
Value Education Course (VEC)			
I	VEAET-111	Environmental Awareness	2
II	VEAET-121	Democracy and Indian Constitution	2
Ability Enhancement Course (AEC)			
I	HIAET-111	Hindi-I	2
	MAAET-111	Marathi-I	2
II	HIAET-121	Hindi-II	2
	MAAET-121	Marathi-II	2
Curricular Courses (CC)			
II	CCPEP-121	Physical Education and Sports	2
Generic Elective / Open Elective (GE/OE)			
I		GE/OE	2
II		GE/OE	2

Courses Offered by B. Voc. (Software Development) Department at

Second Year of Graduation NEP 2024

Subject-1 (Major)			
Semester	Course code	Title of the paper	Credits
III	SDMAT-231	Core Java	2
	SDMAT-232	Artificial Intelligence	2
	SDMAP-233	Core Java Lab	2
IV	SDMAT-241	Advanced Java	2
	SDMAT-242	Web Security	2
	SDMAP-243	Advanced Java Lab	2
Subject-2 (Minor) Courses			
III	ESMAT-231	.Net Framework	2
	ESMAP -232	.Net Framework Lab	2
IV	ESMAT -241	MVC Framework	2
	ESMAP -242	MVC Framework Lab	2
Vocational Skill Course (VSC)			
III	SDVST-231	Web Graphics and UI Design	2
IV	SDVSP-241	Mini Project-I	2
Field Project			
III	SDFPP-231	Field Project	2
Indian Knowledge System (IKS)			
III	SDIKT-231	Indian Number System	2
Community Engagement Program (CEP)			
IV	SDCEP-241	Community Engagement Program	2
Skill Enhancement Course (SEC)			
IV	SDSEP-241	Mini Project-II	2
Ability Enhancement Course (AEC)			
III	ENAET-231	English Communication and Soft Skills-I	2
IV	ENAET-241	English Communication and Soft Skills-II	2
Curricular Courses (CC)			
III	CCHRT-231	Human Rights-I	2
IV	CCCST-241	Cyber Security	2
Generic Elective / Open Elective (GE/OE)			
I		GE/OE	2
II		GE/OE	2

Courses Offered by B. Voc. (Software Development) Department at

Third Year of Graduation NEP 2024

Sem.	Course code	Type of Course	Title of the paper	Credits
Semester-V				
V	Major Course			
	SDMAT-351	B. Voc. (Software Development) theory paper-09	Python Programming	2
	SDMAT-352	B. Voc. (Software Development) theory paper-10	Go programming	2
	SDMAT-353	B. Voc. (Software Development) theory paper-11	Cloud Computing	2
	SDMAT-354	B. Voc. (Software Development) theory paper-12	Internet Of Things	2
	SDMAP-355	B. Voc. (Software Development) practical paper-5	Lab course on Python	2
	SDMAP-356	B. Voc. (Software Development) practical paper-6	Lab course on Go	2
	Major Elective Courses			
	SDMET-351A	Elective B. Voc. (Software Development) theory paper-1-A	Node.js	2
	SDMET-352A	Elective B. Voc. (Software Development) theory paper-2-A	Kotlin	2
	SDMEP-353A	Elective B. Voc. (Software Development) practical paper-1-A	Node.js & Kotlin Lab	2
	SDMET-351B	Elective B. Voc. (Software Development) theory paper-1-B	Web Analytics and SEO	2
	SDMET-352B	Elective B. Voc. (Software Development) theory paper-2-B	E-Commerce	2
	SDMEP-353B	Elective B. Voc. (Software Development) practical paper-1-B	Web Analytics Lab	2
	Vocational Skill Course			
	SDVSP-351	Vocational B. Voc. (Software Development) Practical-II	Hosting and Deployment of Websites	2
	Research Project			
	SDRPP-351	B. Voc. (Software Development) Research Project-I	Research Project	2
Semester – VI				
VI	Major Course			
	SDMAT-361	B. Voc. (Software Development) theory paper-13	Mobile Web Development	2
	SDMAT-362	B. Voc. (Software Development) theory	Operating System &	2

		paper-14	Shell Scripting	
	SDMAT-363	B. Voc. (Software Development) theory paper-15	Web Application Testing and Debugging	2
	SDMAT-364	B. Voc. (Software Development) theory paper-16	Blockchain	2
	SDMAP-365	B. Voc. (Software Development) theory paper-7	Operating System Lab	2
	SDMAP-366	B. Voc. (Software Development) practical paper-8	Lab on Mobile Web Development	2
Major Elective Courses				
	SDMET-361A	Elective B. Voc. (Software Development) theory paper-2-A	Angular Development	2
	SDMET-361B	Elective B. Voc. (Software Development) theory paper-2-B	Dart	2
	SDMEP-362A	Elective B. Voc. (Software Development) practical paper-2-A	Angular Development Practical	2
	SDMEP-362B	Elective B. Voc. (Software Development) practical paper-2-B	Dart Practical	2
Vocational Skill Course				
	SDVST-361	Vocational B. Voc. (Software Development) Theory-II	Authentication and Authorization Mechanisms	2
On Job Training				
	SDOJP-361	B. Voc. (Software Development) OJT	OJT	4