BNM Institute of Technology

An Autonomous Institution under VTU
Department of Information Science and Engineering
Scheme of Teaching 2024-2028 Batch
III Semester

Sl No	Course Type	Course Code	Course Title	Teaching Department	Teaching Hour/week				Contact Hour	Total Credits	Examination		
					L	T	P	J			CIE	SEE	Total
1	BSC	24MAC131	Fourier Transform, Mathematical logic and Advanced Linear Algebra	Mathematics	2	2			4	3	50	50	100
2	PCC	24ISE132	Computer Organization	ISE	3				3	3	50	50	100
3	PCC	24ISE133	Operating Systems	ISE	3				3	3	50	50	100
4	PCI	24ISE134	Data Structures and Applications	ISE	3		2		5	4	50	50	100
5	PCI	24ISE135	Object Oriented Programming using Java	ISE	3		2		5	4	50	50	100
6	PBL	24ISE136	Web Technology	ISE			2	2	4	2	50	50	100
7	IPL	24ISE137	Innovative Project Lab	ISE				2	2	1	100		100
8	AEC	24SFT138	Softskill-1	ISE			2		2	1	100		100
					14	2	8	4	28	21	500	300	800

Note: **BSC**: Basic Science Course, **PCC**: Professional Core Course, **HUM**: Humanity and Social Science & Management Courses, **PCI**: Professional Core Integrated, **PBL** – Project Based Learning **AEC** –Ability Enhancement Courses, **UHV** – Universal Human Values, **PE**: Professional Elective, **OE**: Open Elective, **INT**: Summer Internship.

L –Lecture, **T** – Tutorial, **P**- Practical/ Drawing, **J** – Project Component, **CIE**: Continuous Internal Evaluation, **SEE**: Semester End Examination
Credit definition: 1 hour Lecture (L) per week = 1 Credit
2 hours Tutorial (T) per week = 1 Credit
2 hours Practical /Drawing (P) per week = 1 Credit
2 hours Project Component (J) per week = 1 Credit
(a) Four credit courses are to be designed for 50 hours Teaching – Learning process.
(b) Three credit courses are to be designed for 40 hours Teaching – Learning process.
(c) Two credit courses are to be designed for 25 hours Teaching – Learning process.
(d) One credit course are to be designed for 12-15 hours Teaching – Learning process
The course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

Additional Director & Principal
BNM Institute of Technology
Bangalore- 560 070

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IV Semester

SI No	Course Type	Course Code	Course Title	Teaching Department	Teaching				Contact Hour	Total Credits	Examination		
					L	T	P	J			CIE	SEE	Total
1	BSC	24MAC141	Statistics,Probability and Graph Theory	Mathematics	2	2			4	3	50	50	100
2	PCC	24ISE142	Microcontroller and Embedded System	ISE	3	1	1		5	4	50	50	100
3	PCI	24ISE143	DataBase Management System	ISE	3		1	1	5	4	50	50	100
4	PCI	24ISE144	Design and Analysis of Algorithms	ISE	3		2		5	4	50	50	100
5	PBL	24ISE145	Robotic Process Automation	ISE			2	2	4	2	50	50	100
6	INT	24ISE146	Internship - I/ Innovative Project Lab	ISE			2	2	2	2	100		100
7	AEC	24CIP147	Constitution of India and Professional Ethics	HSS		2			2	1	100		100
8	AEC	24SFT148	Softskills - 2	ISE			2		3	1	100		100
					11	5	10	5	30	21	550	250	800

Internship - I (24ISE146): All the students admitted shall have to undergo a mandatory summer internship of 04 weeks during the intervening vacation of II and III semesters. Summer Internship shall include Inter / Intra Institutional activities, VTU approved skill enhancement courses. A Viva-voce examination shall be conducted during IV semesters and the prescribed credit shall be included in IV semesters. The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up / complete the internship shall be declared fail and shall have to complete during subsequent examination after satisfying the internship requirements. (The faculty coordinator or mentor has to monitor the students' internship progress and interact to guide them for the successful completion of the internship.)

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