B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Artificial Intelligence and Machine Learning
Scheme of Teaching for 2022-26 batch- Choice Based Credit System (CBCS) Total Credits – 120
III Semester B.E. Curriculum

Sl. No	Type of Course	Course Code	Course Title	Teaching Department	Lecture (L)	Tutorial (T)	Practical (P)	Project (J)	Subject Contact Hours	Credits	CIA	SEA	Total
					Hours per week						**Examination**		
1	BSC	22MAI131	Fourier Transform, Fundamentals of logic and Linear Algebra	Mathematics	2	2	-	-	4	3	50	50	100
2	PCC	22AML132	Computer Organization and Architecture	AI and ML	3	-	-	-	3	3	50	50	100
3	PCI	22AML133	Artificial Intelligence	AI and ML	1	2	2	-	5	3	50	50	100
4	PCI	22AML134	Data Structures & Applications	AI and ML	3	-	2	-	5	4	50	50	100
5	PCI	22AML135	Microcontroller and Embedded Systems	AI and ML	3	-	2	-	5	4	50	50	100
6	PBL	22AML136	Object Oriented Programming using Java	AI and ML	-	-	2	2	4	2	50	50	100
7	PBL	22AML137	Innovative Project Lab (Social Concern)	AI and ML	-	-	-	2	2	1	100	-	100
8	AEC	22SFT138	Soft Skill - 1	HSS	-	-	2	-	2	1	100	-	100
				Total	12	4	10	4	30	21	500	300	800

BSC - Basic Science Course   PCC- Professional Core Course   PCI-Professional Core Integrated   CIA: Continuous Internal Assessment
PCL – Professional Core Laboratory   PCE - Professional Core Elective   POE- Professional Open Elective   SEA: Semester End Assessment
PBL - Project Based Learning   INT - Internship   PRJ – Project Work
AEC - Ability Enhancement Course   UHV - Universal Human Values   HSS - Humanity and Social Science

Activity

AICTE Activity Points to be earned by students admitted to BE day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other institutions and Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to BNMIT. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

Mathematics for Diploma Students

Course Code	Course Name	Teaching Department	L	T	P	J	Credits	CIA	SEA	Total
22MATDIP131	Bridge Mathematics - I	Mathematics	3	0	0	0	0	100	-	100

B.N.M. Institute of Technology

An Autonomous Institution under VTU

For Internal Communication

Department of Artificial Intelligence and Machine Learning
Scheme of Teaching for 2022-26 batch- Choice Based Credit System (CBCS) Total Credits – 120
IV Semester B.E. Curriculum

Sl. No.	Type of Course	Course Code	Course Title	Teaching Department	Hours per week				Subject Contact Hours	Credits	Examination		
					Lecture (L)	Tutorial (T)	Practical (P)	Project (J)			CIA	SEA	Total
1	BSC	22MAI141	Statistics, Probability and Graph theory	Mathematics	2	2	-	-	4	3	50	50	100
2	PCC	22AML142	Operating System	AI and ML	2	1	1	-	4	3	50	50	100
3	PCI	22AML143	Database Management System	AI and ML	3	-	1	1	5	3	50	50	100
4	PCI	22AML144	Design and Analysis of Algorithms	AI and ML	3	-	2	-	5	4	50	50	100
5	PCI	22AML145	Machine Learning	AI and ML	1	2	2	-	5	3	50	50	100
6	PBL	22AML146	Python Programming and Applications	AI and ML	-	-	2	2	4	2	50	50	100
7	AEC	22CIP147	Constitution of India and Professional Ethics	HSS	-	2	-	-	2	1	100	-	100
8	AEC	22SFT148	Soft Skill-II	HSS	-	2	-	-	2	1	100	-	100
9	INT	22AML149	Internship – I/ IPL (Social Concern)	AI and ML	-	-	2	2	4	2	100	-	100
				Total	9	11	10	5	35	22	600	300	900

Internship-I: All the students registered to III year of BE shall have to undergo mandatory internal internship of 3 weeks during II semester or III semester vacation. Semester End Assessment will be conducted in IV semester and the prescribed credit will be included. Internship shall be considered as a head of passing and shall be considered for the award of degree.

Activity

AICTE Activity Points to be earned by students admitted to BE day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other institutions and Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to BNMIT. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.