

B N M Institute of Technology

An Autonomous Institution under VTU

Department of Information Science and Engineering

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	MAT	21MAI131	Fourier Transform, Numerical Methods and Linear Algebra	Mathematics	2	2			4	3	50	50	100
2	PCC	21ISE132	Operating System	ISE	3				3	3	50	50	100
3	PCC	21ISE133	Computer Organization	ISE	3				3	3	50	50	100
4	PCI	21ISE134	Data Structures using C	ISE	3		2		5	4	50	50	100
5	PCI	21ISE135	Object Oriented Programming using Java	ISE	3		2		5	4	50	50	100
6	PBL	21ISE136	Web Technologies	ISE			2	2	4	2	50	50	100
7	HSS	21KAN1371 / 21KAN1372	Sanskrutika Kannada / Balake Kannada	HSS		1			1	1	100		100
8	AEC	21SFT138	Soft Skill I	HSS		2			2	1	100		100
9	IPL	21ISE139	Innovative Project Lab	ISE			2		2	1	100		100
					14	5	8	2	29	22	600	300	900

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



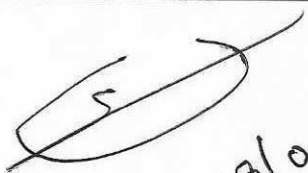
Additional Director
B N M Institute of Technology
 27th Cross, 12th Main, Banashankari 2nd stage
 Bangalore – 560 070

BVM Institute of Technology

An Autonomous Institution under VTU
Department of Information Science and Engineering
IV 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	MAT	21MAI141	Statistics, Probability and Graph Theory	Mathematics	2	2			4	3	50	50	100
2	PCC	21ISE142	Micro Controller and Embedded System	ISE	3	1	1		5	4	50	50	100
3	PCI	21ISE143	Design and Analysis of Algorithms	ISE	3		2		5	4	50	50	100
4	PCI	21ISE144	DataBase Management System	ISE	3		1	1	5	4	50	50	100
5	PBL	21ISE145	Python Programming and its Application	ISE			2	2	4	2	50	50	100
6	UHV	21CIP146	Constitution of India and Professional Ethics	UHV		2			2	1	100		100
7	EVS	21EVS147	Environmental Science	HSS			2		2	1	100		100
8	AEC	21SFT148	SoftSkill II	HSS		2			2	1			
9	INT	21ISE149	Internship - I / Innovative Project Lab	ISE			2	2	4	2	100		100
					11	7	10	5	33	22	550	250	800

Summer Internship - I (21ISE149): 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. 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.)


19/09

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Department of Information Science and Engineering

V 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	PCC	2IISE151	Software Project Management and Finance	ISE	2	2			4	3	50	50	100
2	PCC	2IISE152	Automata Theory and Computability	ISE	2	2			4	3	50	50	100
3	PCI	2IISE153	Introduction to Data Science using Python	ISE	2		2		4	3	50	50	100
4	PCI	2IISE154	Computer Network	ISE	2	2	2		6	4	50	50	100
5	PBL	2IISE155	Robotic Process Automation *	ISE			2	2	4	2	50	50	100
6	POE	2IISE156x	Open Elective I	ISE	3				3	3	50	50	100
7	AEC	2IISE157	Employability Skill - I (Technical)	P&T		2			2	1	50		100
8	INT	2IISE158 *	Internship - II	ISE			4		4	2	100		100
					11	8	10	2	31	21	450	300	800

* Note: 2IISE155 - Robotic Process Automation, will be handled by Industry Expert

Summer Internship - II (2IISE159): All the students admitted shall have to undergo a mandatory summer internship of 04 weeks during the intervening vacation of IV semesters. Summer Internship shall include Inter / Intra Institutional activities. 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.)


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.

Open Elective I

2IISE1561	Introduction to Web Technologies	2IISE1563	Design and Analysis of Algorithms
2IISE1562	Software Engineering	2IISE1564	Cloud Computing

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VI 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	PCC	2IISE161	Cryptography and Information Security	ISE	2	2			4	3	50	50	100
3	PCI	2IISE162	Cloud Computing and its Application	ISE	2		1		4	3	50	50	100
3	PCI	2IISE163	Big Data Analytics	ISE	2	2	2		6	4	50	50	100
4	PBL	2IISE164	Internet of Things	ISE			2	2	4	2	50	50	100
5	CPE	2IISE165x	Professional elective 1	ISE	3				3	3	50	50	100
6	CPE	2IISE166x	Professional elective 2	ISE	3				3	3	50	50	100
7	POE	2IISE167x	Open Elective 2	ISE	3				3	3	50	50	100
8	HSS	2IISE168	Employability Skill-II (Technical)	P&T		2			2	1	100		100
					15	6	5	2	29	22	450	350	800

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.

Professional Elective 1

2IISE1651	Data Mining	2IISE1654	Data Visualization and Dashboards
2IISE1652	Blockchain Technologies: Platforms and Applications	2IISE1655	UI Framework
2IISE1653	Cybersecurity	2IISE1656	Strategic Management

Professional Elective 2

2IISE1661	Natural Language Processing	2IISE1664	Introduction to Augmented and Virtual reality
2IISE1662	No SQL	2IISE1665	Agile Software Development
2IISE1663	Operation Research	2IISE1666	Knowledge Management

Open Elective 2

2IISE1671	Introduction to Data science	2IISE1673	Introduction to Block chain
2IISE1672	Software Testing	2IISE1674	Introduction to Big Data

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09/11/2023
27/11/2023
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