



Indian Institute of Information Technology - Allahabad

Deoghat, Jhalwa- 211015, Prayagraj, Uttar Pradesh

Department of Information Technology

NEP-2020 Based Dual Degree BTech-IT(Bin)- MBA Curriculum

(With effect from July 2026)

Total Credit : 222

Lecture-L: 1 Credit = 1 hr/ week

Practical-P: 1 Credit = 2 hr/week

Tutorial-T: 1 Credit = 1hr/week

Self Study-S: 1 Credit= 1 hr/week

1. Degree: Dual Degree B.Tech. IT- (B.In.) - MBA shall be given upon successful completion of the programme.

2. Duration: The total duration of the program will be 5 years.

Multidisciplinary Engineering & Management Program: Sem-wise Credit Dist.- One Major, One Minor

Semester		I	II	III	IV	V	VI	VII	VIII	IX	X	Total Credits	
Basic Science Course	BSC/ESC	04	–	04	--	--	02	--	--	--	--	14	23
Engineering Science Course		09	--		--	--	--	--	--	--	--	09	
Programme Core Course (PCC)	Programme Courses	--	15	14	19	17	08	12	14	07	02	108	141
Programme Elective Course (PEC)		--	--	--	--	–	03	03	03	12	12	33	
Open/School Elective (OE/SE) other than particular program	Multi-disciplinary	--	--	–	–	–	--	03	03	--	--	06	18
Multidisciplinary Minor (MD M)		--	--	03	03	03	03	--	--	--	--	12	
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	--	02	--	--	--		--	--	01		03	03
Ability Enhancement Course (AEC-01)	Humanities Social Science and Management (HSMC)	02	--	02	--	02	--	--	--	--	--	06	16
Indian Language (AEC-02)		--	--	--	--	--	02	--	--	--	--	02	
Entrepreneurship/Economics/Management Courses		--	02	--	--	--	--	--	--		02	04	
Indian Knowledge System (IKS)			--		--	--	--	02	--	--	--	02	
Value Education Course (VEC)		01	01	--	--	--	--	--	--	--	--	02	
Internship	Experiential Learning Courses (ELC)	--	--	--	--	–	--	03	--	02	--	05	21
Project		--	--	--	--	03	04	04		--	04	15	
Community Engagement Activity (CEA)/Field Project		--	---	01	--	--	--	--	--	--	--	01	
Co-curricular & Extracurricular Activities (CCA)	Liberal Learning Course	--	--	--	--	--	--	--	--	--	--	0	0
Total Credits		16	24	24	22	25	22	27	20	22	20	222	222

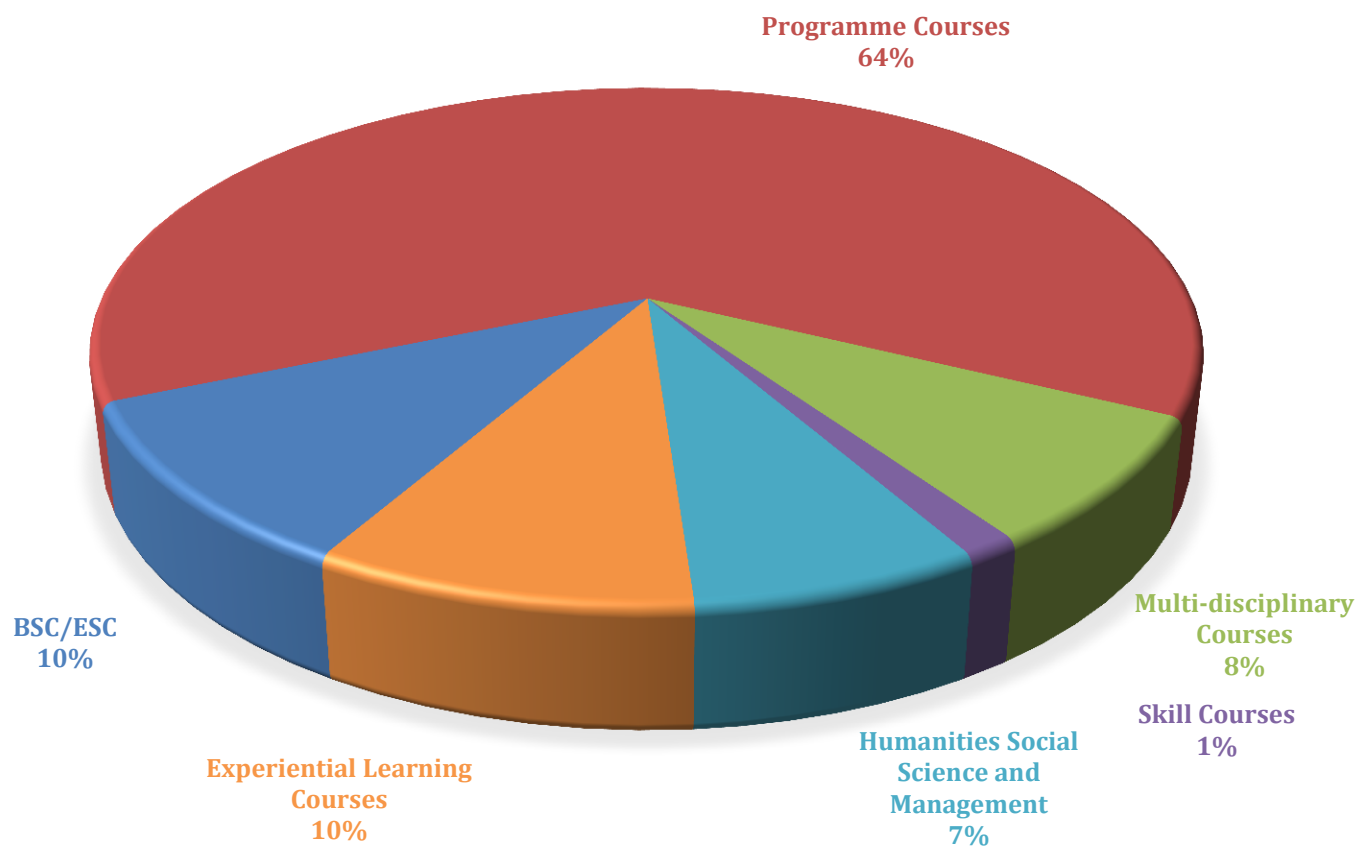


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Semester 1					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Engineering Physics (For Section C)	AS101	BSC	4	3-0-2-0
2	Linear Algebra (For Section A & B)	AS102	BSC	4	3-1-0-0
3	Problem Solving with Programming	IT101	ESC	5	3-0-4-0
4	Fundamentals of Electrical & Electronics Engg.	EC101	ESC	4	3-0-2-0
5	Technical Communication Skill	MS101	HSMC (AEC)	2	1-0-2-0
6	Constitution of India Universal Human Values Professional Ethics Art of Living		HSMC (VEC)	1	1-0-0-0
					11-0-10-0/ 11-1-8-0
Total				16	25

Semester 2					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Engineering Physics (For Section A & B & Branch Change from IT to ECE)	AS101	BSC	4	3-0-2-0
2	Linear Algebra (For Section C1, C2, C3 & Branch Change from C to IT)	AS102	BSC	4	3-1-0-0
3	Discrete Mathematical Structures	IT102	PCC	4	3-1-0-0
4	Computer Organization and Architecture	IT103	PCC	4	3-0-2-0
5	Data Structures and Algorithms	IT104	PCC	4	3-0-2-0
6	Web Development	IT105	VSEC	2	0-0-4-0
7	Business Informatics and FinTech	IT106	BSC	3	3-0-0-0
8	Principles of Management	MS102	HSMC (AEC)	2	2-0-0-0
9	Constitution of India Environmental Studies Professional Ethics Physical Education (Sports)		HSMC (VEC)	1	1-0-0-0
					18-1-10-0/ 18-2-8-0
Total				24	29/28



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Sec. A, B: B.Tech. IT (Max. 154 and 153 students), **Sec. C1:** Dual Degree B. Tech.-IT-M.Tech.-IT (Max. 29 students),

Sec. C2: B.Tech.-IT(BIn) (Max. 46 students), **Sec. C3:** Dual Degree B.Tech.-IT(Bin)-MBA (Max. 25 students)

Exit: After successful completion of two semesters, a student may opt for an exit option (Certificate in IT-B.In.) as per the Ordinance. They need to do **skill-based courses of 6 credits additional**, in the summer, offline, before exit. The department will provide a list of such courses.



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Semester 3					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Probability and Statistics	AS201	BSC	4	3-1-0-0
2	Object Oriented Methodologies	IT201	PCC	4	3-0-2-0
3	Operating System	IT203	PCC	4	3-0-2-0
4	Software Engineering	IT204	PCC	3	2-0-2-0
5	Theory of Computation	IT202	PCC	3	2-1-0-0
6	Multi-Disciplinary Minor-1		MDM	3	3-0-0-0
7	Entrepreneurship Development	MS508	HSMC (AEC)	2	2-0-0-0
8	Community Services NCC, NSS, Yoga, Unnat Bharat Abhiyaan-UBA, Ek Bharat Shrestha Bharat, NGO, Prayas, etc.		HSMC (CEA)	1	0-0-0-1
					18-2-6-1
Total				24	27

Semester 4					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Design and Analysis of Algorithms	IT205	PCC	4	3-0-2-0
2	Operations Research	AS202	PCC	4	3-1-0-0
3	Computer Networks	IT207	PCC	4	3-0-2-0
4	Operations Management	MS512	PCC	3	2-2-0-0
5	Database Management System	IT209	PCC	4	3-0-2-0
6	Multi-Disciplinary Minor-2		MDM	3	3-0-0-0
					17-3-6-0
Total				22	26

Exit: After successful completion of four semesters, a student may get an exit option (Diploma in IT-B.In.) as per Ordinance. They need to do **Skill-Based Courses of 6 credits, additional**, in summer, before exit. The department will provide a list of such courses.



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Semester 5					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Cyber Security	IT301	PCC	4	3-0-2-0
2	Introduction to Machine Learning	IT302	PCC	4	3-0-2-0
3	Business Process Management	MS301	PCC	4	3-0-2-0
4	Artificial Intelligence	IT304	PCC	3	2-0-2-0
6	Micro Project	IT305	ELC	3	0-0-6-0
7	Multi-Disciplinary Minor-3		MDM	3	3-0-0-0
8	Design Thinking and innovation	IT306	HSMC (AEC)	2	1-0-2-0
9	Organisation Design & Behavior	MS507	PCC	2	2-0-0-0
					17-0-16-0
Total				25	33

Semester 6					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Data Analytics	IT307	PCC	4	3-0-2-0
2	Mini Project	IT308	ELC	4	0-0-8-0
3	Biology for Engineers	AS301	BSC	2	2-0-0-0
4	Process Mining & Analytics	IT309	PCC	3	2-0-1-0
5	Elective-1		PEC	3	3-0-0-0
6	Multi-Disciplinary Minor-4		MDM	3	3-0-0-0
7	Indian/Foreign Language (Regional Language, Sanskrit, German, Japanese, French)		HSMC (AEC)	2	1-0-2-0
8	Business Law and IPRs	MS518	PCC	1	1-0-0-0
					16-0-13-0
Total				22	29

Exit: After successful completion of six semesters, a student may opt for an exit option (B.Sc. Engg. In IT-B.In.) as per ordinance. They need to do **Skill-Based Courses of 6 credits, additional**, in summer, before exit. The department will provide a list of such courses.

Summer Semester					
S.N.	Course Name	Code	Type	Credit	
1	Internship	IT402	ELC	3	Credit will be added in VII Sem.



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Note: The internship will be evaluated at the beginning or during the seventh semester. Its credit and grades will be reflected in the 7th-semester grade sheet.

Semester 7					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Minor Project	IT401	ELC	4	0-0-8-0
2	Big Data Analytics	IT403	PCC	3	2-0-2-0
3	Elective-2*		PEC	3	3-0-0-0
4	Open Elective-1		OEC	3	3-0-0-0
5	a)History of Indian Civilizations, b) Kautiliya's Arthashastra, c)Vedic Mathematics,d) Vedic Corpus ,e) Wisdom from the Ages, f) Panini's Grammar		HSMC (IKS)	2	2-0-0-0
6	Internship (Summer Semester)	IT402	ELC	3	0-0-0-3
7	Marketing management	MS506	PCC	3	2-0-2-0
8	Financial Statements & Analysis	MS501	PCC	3	2-0-2-0
9	Economics	MS509	PCC	3	3-0-0-0
					17-0-14-3
Total				27	34

Semester 8					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Corporate Finance	MS510	PCC	3	2-0-2-0
2	Human Resource Management	MS511	PCC	3	2-0-2-0
3	Business research methods	MS514	PCC	3	2-0-2-0
4	Elective-3 *		PEC	3	3-0-0-0
5	Open Elective-2		OEC	3	3-0-0-0
6	Artificial Intelligence for Business	MS515	PCC	3	2-0-2-0
7	IT Audit & Security	MS516	PCC	2	2-0-0-0
					16-0-8-0



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Total		20	24
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Exit option 1: After successful completion of eight semesters, a student may opt for an exit option ([B.Sc Engg in IT-B.In.](#)) with a Diploma in Business Administration as per the ordinance.

Exit options 2: After successful completion of Eight Semesters, students may opt for exit with B.Tech IT-B.In. by completing one additional semester 9A as per the requirements of the B.Tech Degree (refer Ordinance)

* Elective-1, 2 & 3 will be offered by the IT Department.

Summer Semester					
S.N.	Course Name	Code	Type	Credit	
1	Internship	MS605	ELC	3	Credit will be added in IX Sem.

Note: The internship will be evaluated at the beginning or during the seventh semester. Its credit and grades will be reflected in the 9th-semester grade sheet.

Semester 9					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Strategic Management	MS601	PCC	3	2-0-2-0
2	Business & IT Consulting	MS602	PCC	2	1-0-2-0
3	Workshop on Advanced Communication Skills	MS603	VSEC	1	0-0-2-0
4	Business Ethics and Corporate Governance	MS604	PCC	2	2-0-0-0
5	Two Courses to be chosen from one of the Baskets 1/2/3/4/5/6/7		PEC	3	2-0-2-0
6			PEC	3	2-0-2-0
7	Two Courses to be chosen from one of the Baskets 1/2/3/4/5/6/7		PEC	3	2-0-2-0
8			PEC	3	2-0-2-0
9	Summer Internship	MS605	ELC	2	0-0-0-2
					13-0-14-2
Total				22	29



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Semester 10					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	IT Product Management	MS606	PCC	2	2-0-0-0
2	Sustainability and Social Audit	MS607	HSMC	2	2-0-0-0
3	Two Courses to be chosen from one of the Baskets 1/2/3/4/5/6/7		PEC	3	2-0-2-0
4			PEC	3	2-0-2-0
5	Two Courses to be chosen from one of the Baskets 1/2/3/4/5/6/7		PEC	3	2-0-2-0
6			PEC	3	2-0-2-0
7	Capstone Project	MS608	ELC	4	0-0-0-4
					12-0-8-4
Total				20	24

Semester 9A (This semester is only for Exit Option 2 after 8th Semester)					
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Major Project #	IT404	ELC	6	0-0-12-0
2	Business & IT Consulting		PCC	2	1-0-2-0
3	Business Ethics and Corporate Governance		PCC	2	2-0-0-0
					3-0-14-0
Total				10	17



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For Major Project, the students will have 3 options:

Option 1- The student will do an internship in a company, and the same work will be presented as the project without concealing any code/module.

Option 2- The student will do an internship in a company, but a separate project will be registered with the IIITA faculty in the department.

Option 3- The student will opt for a project only with the IIITA faculty in the department.

List of Elective Baskets Offered in MBA

Basket 1: Marketing Management

Basket 2: Financial Management

Basket 3: Operation Management

Basket 4: Human Resource Management

Basket 5: Information Technology Management (B.In.) (Exclusively for Dual Degree B.Tech. IT- (B.In.) - MBA Program)

Basket 6: Entrepreneurship Development

Basket 7: Agri-Business Management