

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

NH-12 (Old NH-34), Simhat, Haringhata, Nadia -741249

**Syllabus of B.Sc. in Information Technology (Artificial Intelligence)  
(Effective from academic session 21-22)**

**Curriculum Structure**

<b>Semester I</b>							
<b>Sl. No.</b>	<b>CBCS Category</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
<b>Theory + Practical</b>							
1	CC-1	BITAIC101	Programming Fundamentals	4	0	0	4
		BITAIC191	Programming Fundamentals Lab	0	0	4	2
2	CC-2	BITAIC102	Discrete Structure	5	1	0	6
3	AECC-1	BITAIA103	Soft skills	2	0	0	2
4	GE-1		Any one from GE Basket				6
<b>Total Credit</b>							<b>20</b>
<b>Semester II</b>							
<b>Sl. No.</b>	<b>CBCS Category</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
<b>Theory + Practical</b>							
1	CC-3	BITAIC201	Data Structures with python	4	0	0	4
		BITAIC291	Data Structures with python Lab	0	0	4	2
2	CC-4	BITAIC202	Operating System	4	0	0	4
		BITAIC292	Operating System Lab	0	0	4	2
3	AECC-2	BITAIA203	Environmental Science	2	0	0	2
4	GE-2		Any one from GE Basket				6
<b>Total Credit</b>							<b>20</b>
<b>Semester III</b>							
<b>Sl. No.</b>	<b>CBCS Category</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
<b>Theory + Practical</b>							
1	CC-5	BITAIC301	Database Management System	4	0	0	4
		BITAIC391	Database Management System Lab	0	0	4	2
2	CC-6	BITAIC302	Machine Learning	4	0	0	4
		BITAIC392	Machine Learning Lab	0	0	4	2
3	CC-7	BITAIC303	Artificial Intelligence	5	1	0	6
4	GE-3		Any one from GE Basket				6
5	SEC-1	BITAIS381	Object Oriented Programming	0	0	4	2
<b>Total Credit</b>							<b>26</b>

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Semester IV							
Sl. No.	CBCS Category	Course Code	Course Name	L	T	P	Credits
<b>Theory + Practical</b>							
1	CC-8	BITAIC401	Computer Networks	4	0	0	4
		BITAIC491	Computer Networks Lab	0	0	4	2
2	CC-9	BITAIC402	Software Engineering	4	0	0	4
		BITAIC492	Software Engineering Lab	0	0	4	2
3	CC-10	BITAIC403	Data Visualisation	4	0	0	4
		BITAIC493	Data Visualisation Lab	0	0	4	2
4	GE-4		Any one from GE Basket				6
5	SEC-2	BITAIS481	Minor Project and Entrepreneurship II	0	0	4	2
			<b>Total Credit</b>				<b>26</b>
Semester V							
Sl. No.	CBCS Category	Course Code	Course Name	L	T	P	Credits
<b>Theory + Practical</b>							
1	CC-11	BITAIC501	Deep Learning	4	0	0	4
		BITAIC591	Deep Learning Lab	0	0	4	2
2	CC-12	BITAIC502	Image Processing	4	0	0	4
		BITAIC592	Image Processing Lab	0	0	4	2
3	DSE-1	BITAID503	<b>Elective-I<sup>1</sup></b>	4	0	4	6
			A. Pattern Recognition	/	/	/	
			B. Security and Authentication	5	1	0	
			C. Health Informatics				
4	DSE-2	BITAID504	<b>Elective-II</b>	4	0	4	6
			A. Soft Computing	/	/	/	
			B. Network Security	5	1	0	
			C. Internet of Things				
			<b>Total Credit</b>				<b>24</b>

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Semester VI							
Sl. No.	CBCS Category	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>							
1	CC-13	BITAIC601	Cloud Computing	4	0	0	4
		BITAIC691	Cloud Computing Lab	0	0	4	2
2	CC-14	BITAIC602	Robotics	4	0	0	4
		BITAIC692	Robotics Lab	0	0	4	2
3	DSE-4	BITAID603	<b>Elective-III</b>				
			A. Intrusion Detection & Prevention Systems	4	0	4	6
			B. Bioinformatics	/	/	/	
			C. Big Data Analytics	5	1	0	
<b>Sessional</b>							
4	DSE-5	BITAID681	Major Project & Entrepreneurship II	0	0	8	4
5	SEC-3	BITAID682	Seminar	0	0	4	2
			<b>Total Credit</b>				24

Semester	Credit
I	20
II	20
III	26
IV	26
V	24
VI	24
<b>TOTAL</b>	<b>140</b>