

**Maulana Abul Kalam Azad University of Technology,  
WB (Formerly known as West Bengal University of  
Technology) Syllabus of B.Sc. in IT (Artificial Intelligence)  
Effective from academic session 2023-24**

**Model curriculum structure for 4 year Non-AICTE UG programs for B.Sc. in IT(Artificial intelligence)**

Sem	Major (Offline)	Minor (Blended Mode)	Inter Disciplinary (Offline)	Ability Enhancement (Offline)	Skill Enhancement (Online /Sessional)	Common Value added Course (SESSIONAL)	Total credits
I	<b>Sub 1:</b> Programming using C lab [3+2 credits] <b>Sub 2:</b> Introduction to AI Lab [3+2 credits]	<b>Sub 1:</b> Principles of Management [ 3credits]	Any one from GE baskets Basket A or D (3 credits)	English & Professional Communication [2 credits]	Life Skills & Personality Development [2 credits]	Yoga/ Health & Wellness/ Sports [2 credits]	22
II	<b>Sub 1:</b> Data Structure and Algorithms [3+2 credits] <b>Sub 2:</b> Machine Learning [5 credits]	<b>Sub 1:</b> Organization Behavior [ 3credits]	Any one from GE baskets Basket B or E [3 credits]	Modern Indian Languages and Literature [2 credits]	IT Skills [2 credits]	Critical Thinking/ NSS/ Mental Health [2 credits]	22
III	<b>Sub 1:</b> Intelligence of Biological Systems [3+2 credits] <b>Sub 2:</b> Operating System Concepts with UNIX Lab [3+2 credits]	<b>Sub 1:</b> Principles of Marketing [4 credits]	Any one from GE baskets Basket C or F [3 credits]	The Constitution, Human Rights & Law [2 credits]	Understanding basics of Cyber Security [2 credits]		21

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IV	<p><b>Sub 1:</b> Introduction to drones and it's applications [4 credits]</p> <p><b>Sub 2:</b> OOPS with Python/ Java Lab [3+1 credits]</p> <p><b>Sub 3:</b> Database Management Systems Database Management Systems Lab [3+2 Credits]</p>	<p><b>Sub 1:</b> Human resource Management [ 4 credits]</p> <p><b>Sub 2:</b> Sales and distribution management /E-Commer ce [ 4 credits]</p>		<p>Society Culture &amp; Human Behaviour  [2 credits]</p>		23
V	<p><b>Sub 1:</b> Natural Language Processing Natural Language Processing Lab [3+2 Credits]</p> <p><b>Sub 2:</b> Soft Computing Soft Computing Lab [3 + 2 Credits]</p>	<p><b>Sub 1:</b> Financial management [4 credits]</p> <p><b>Sub 2:</b> Entrepreneurship [4 credits]</p>			<p>Internship to be started after exam of 4<sup>th</sup> sem (sem break) and completed within 5<sup>th</sup> sem(weekend) [ 4 credits]</p>	22
VI	<p><b>Sub 1:</b> Introduction to Robotics [4 credits]</p> <p><b>Sub 2:</b> Principles of Deep Learning Principles of Deep Learning Lab [3+2 credits]</p> <p><b>Sub 3:</b> Pattern Recognition Pattern Recognition Lab [3+2 Credits]</p>	<p><b>Sub 1:</b> Customer relationship management [4 credits]</p> <p><b>Sub 2:</b> Career planning and management [4 credits]</p>				22

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VII	<b>Sub 1:</b> Theory of Data Science [5 Credits] <b>Sub 2:</b> Formal Language and Automata Theory [4 credits] <b>Sub 3:</b> Internet of Things Internet of Things Lab (3+2 Credits)	<b>Sub 1:</b> Consumer behavior [4 credits] <b>Sub 2:</b> Strategic management [ 4 credits]					22
VIII	<b>Sub 1:</b> Big Data Analytics [5 Credits] <b>Sub 2:</b> Cloud Computing [5 Credits]				Research Project [12credits]		22
	19 sub – 91 credits	11 sub – 42 credits	3 sub – 09 credits	4 sub – 08 credits	3 sub & Int &Proj – 22 credits	2 sub – 4 credits	176

**Note:** Effective from academic session 2023-24

1. Normally all 5 credit courses will be either theory (3) + practical (2) {100+100 marks} or theory (4) + tutorial (1) [100 marks]
2. Normally all 4 credit courses will be either theory (3) + tutorial (1) or theory (4) [100 marks]
3. Normally all 3 credit courses will be theory (3) – Inter disciplinary (5 to 6 baskets) [100 marks]
4. Normally all 2 credit courses AEC/SEC/CVA would be theory or online course
5. 7/8<sup>th</sup> semester Major subjects could include Projects in core, if required
6. 100/200/300/400 level should be maintained as per UGC document

**\*\*Note: The green highlighted cells are modified as per the instruction given by competent authority remaining all are same as B.Sc. IT Draft syllabus. We have already sent our feedback regarding the modification needed for the selection of minor subjects and others.**