



**BRAINWARE UNIVERSITY**  
**School of Computational & Applied Sciences**  
**Department of Computational Sciences**  
**Bachelor of Computer Applications in Artificial Intelligence & Machine Learning/**  
**Bachelor of Computer Applications (Honours) in Artificial Intelligence & Machine Learning/**  
**Bachelor of Computer Applications (Honours with Research) in Artificial Intelligence & Machine Learning- 2026**

**SEMESTER – I**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL17101	Digital Logic	3	0	2	40	60	100	4	Major
2	BIL10201	Sustainability in Indian Knowledge System	4	0	0	40	60	100	4	Minor
3	BIL10001	Mathematics and Numerical Methods	3	0	0	40	60	100	3	IC
4	AEC00005	Functional English	2	0	0	40	60	100	2	AEC
5	BIL10002	AI Foundations & Generative AI Literacy	3	0	0	40	60	100	3	SEC
6	VAC07019	PC Software	1	0	2	40	60	100	2	VAC
7	VAC00007	Human Values and Ethics	2	0	0	40	60	100	2	VAC
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>4</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>20</b>	

**SEMESTER – II**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL20102	Programming in C	4	0	0	40	60	100	4	Major
2	BIL29202	Programming in C Lab	0	0	4	40	60	100	2	Minor
3	BIL20203	Operating System	2	0	0	40	60	100	2	Minor
4	BIL20001	Discrete Mathematical Structure	3	0	0	40	60	100	3	IC
5	AEC00002	Communicative English	2	0	0	40	60	100	2	AEC
6	BIL27002	HTML, CSS and CSS Preprocessor	1	0	4	40	60	100	3	SEC
7	VAC00020	Numerical and Reasoning Ability	2	0	0	40	60	100	2	VAC
8	VAC00006	Environmental Studies	2	0	0	40	60	100	2	VAC
<b>TOTAL</b>			<b>16</b>	<b>0</b>	<b>8</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>20</b>	
9	UGPC0001	Foundations of Professional Communication	0	0	0	100	0	100	0	GPC



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**SEMESTER – III**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL30103	Data Structure and Algorithm	3	0	0	40	60	100	3	Major
2	BIL39104	Data Structure and Algorithm Lab	0	0	4	40	60	100	2	Major
3	BIL30105	Artificial Intelligence	3	0	0	40	60	100	3	Major
4	BIL37204	Python Lab	2	0	4	40	60	100	4	Minor
5	BIL30001	Probability and Statistics	3	0	0	40	60	100	3	IC
6	AEC00006	Modern Indian Language A. Hindi B. Bengali C. Alternative English D. MOOC	2	0	0	40	60	100	2	AEC
7	BIL37002	Internet and Web Technologies	2	0	2	40	60	100	3	SEC
<b>TOTAL</b>			<b>15</b>	<b>0</b>	<b>10</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>20</b>	

\*MOOC/Equivalent MOOC approved by BoS Chair (Evaluation scheme as per Blended Learning and MOOCs Policy)

**SEMESTER – IV**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL40106	Database Management System	3	0	0	40	60	100	3	Major
2	BIL49107	Database Management System Lab	0	0	4	40	60	100	2	Major
3	BIL40108	Data Warehousing and Data Mining	4	0	0	40	60	100	4	Major
4	BIL49109	Data Warehousing and Data Mining Lab	0	0	4	40	60	100	2	Major
5	BIL40110	Computer Network	3	0	0	40	60	100	3	Major
6	BIL49205	PHP and MySQL Lab	0	0	4	40	60	100	2	Minor
7	BIL40206	Digital Marketing and Analytics	2	0	0	40	60	100	2	Minor
8	AEC09001	Communicative English Lab	0	0	4	40	60	100	2	AEC
<b>TOTAL</b>			<b>12</b>	<b>0</b>	<b>16</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>20</b>	
9	UGPC0002	Workplace Communication and Professional Skills	0	0	0	100	0	100	0	GPC



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**SEMESTER –V**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL50111	OOP using Java	3	1	0	40	60	100	4	Major
2	BIL59112	OOP using Java Lab	0	0	4	40	60	100	2	Major
3	BIL50113	Machine Learning	3	1	0	40	60	100	4	Major
4	BIL59114	Machine Learning Lab	0	0	4	40	60	100	2	Major
5	BIL50115	Data Analytics	2	0	0	40	60	100	2	Major
6	BIL50207	Cyber Security	4	0	0	40	60	100	4	Minor
7	BIL58001	Project-I / Internship	0	0	0	40	60	100	2	IAPC
<b>TOTAL</b>			<b>12</b>	<b>2</b>	<b>8</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>20</b>	
8	UGPC0003	Advanced Professional Communication and Employability Skills	0	0	0	100	0	100	0	GPC

**SEMESTER – VI**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL60116	Internet of Things	3	0	0	40	60	100	3	Major
2	BIL60117	Deep Learning	3	0	0	40	60	100	3	Major
3	BIL69118	Deep Learning Lab	0	0	4	40	60	100	2	Major
4	BIL67119	Design and Analysis of Algorithm	2	0	4	40	60	100	4	Major
5	BIL68120	Project - II	0	0	0	40	60	100	4	Major
6	BIL67208	Full Stack Development	2	0	4	40	60	100	4	Minor
<b>TOTAL</b>			<b>10</b>	<b>0</b>	<b>12</b>	<b>240</b>	<b>360</b>	<b>600</b>	<b>20</b>	



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**SEMESTER – VII**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL70121	Research Methodologies	3	1	0	40	60	100	4	Major
2	BIL70122	Software Engineering	3	1	0	40	60	100	4	Major
3	BIL77123	Image Processing	3	0	2	40	60	100	4	Major
4	BIL77124	Natural Language Processing	3	0	2	40	60	100	4	Major
5	BIL70209	Optimization Techniques	3	1	0	40	60	100	4	Minor
<b>TOTAL</b>			<b>15</b>	<b>3</b>	<b>4</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>20</b>	

**SEMESTER – VIII (Honours)**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL87125H	Computer Vision	3	0	2	40	60	100	4	Major
2	BIL87126H	Pattern Recognition	3	0	2	40	60	100	4	Major
3	BIL87127H	Soft Computing	3	0	2	40	60	100	4	Major
4	BIL88128H	Project	0	0	0	40	60	100	4	Major
5	BIL80210H	Cloud Computing	3	1	0	40	60	100	4	Minor
<b>TOTAL</b>			<b>12</b>	<b>1</b>	<b>6</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>20</b>	

**SEMESTER – VIII (HONOURS with RESEARCH)**

Sl. No.	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	ESE			
1	BIL87125R	Generative AI	2	0	4	40	60	100	4	Major
2	BIL80210R	Agentic AI	3	1	0	40	60	100	4	Minor
3	BIL88001R	Research Project	0	0	0	40	60	100	12	RPC
<b>TOTAL</b>			<b>5</b>	<b>1</b>	<b>4</b>	<b>120</b>	<b>180</b>	<b>300</b>	<b>20</b>	