



**BRAINWARE UNIVERSITY**  
**SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES**  
**DEPARTMENT OF COMPUTATIONAL SCIENCE**  
**Bachelor of Science (IT) in Artificial Intelligence 2021**  
**(As per UGC CBCS Template)**

**SEMESTER – I**

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BAI(HU)101	English Communication	AECC-1	3 – 0 – 0	3	100
BAI(HU)191	English Communication Lab	AECC-1	0 – 0 – 2	1	100
BAIC101	Database Management System	CC-1	4 – 0 – 0	4	100
BAIC191	Database Management System Lab	CC-1	0 – 0 – 4	2	100
BAIC102	Data Structures using C	CC-2	4 – 0 – 0	4	100
BAIC192	Data Structures using C Lab	CC-2	0 – 0 – 4	2	100
GE**	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-1	5 – 0 – 0	5	100
GE**	Generic Elective -1 (Practical/Tutorial)	GE-1	0 - 1 - 0	1	
<b>Total</b>				<b>22</b>	<b>700</b>

**SEMESTER – II**

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
ENV201	Environmental Studies	AECC-2	3 – 1 – 0	4	100
BAIC201	Object Oriented Programming Using Java	CC-3	4 – 0 – 0	4	100
BAIC291	Object Oriented Programming Using Java Lab	CC-3	0 – 0 – 4	2	100
BAIC202	Computer Networking	CC-4	4 – 0 – 0	4	100
BAIC292	Computer Networking Lab	CC-4	0 – 0 – 4	2	100
GE**	Generic Elective-2 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-2	5 – 0 – 0	5	100
GE**	Generic Elective -2 (Practical/ Tutorial)	GE-2	0 - 1 - 0	1	
<b>Total</b>				<b>22</b>	<b>600</b>



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**SEMESTER – III**

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BAIC301	Operating Systems	CC-5	4 – 0 – 0	4	100
BAIC391	Operating Systems Lab	CC-5	0 – 0 – 4	2	100
BAIC302	Machine Learning	CC-6	4 – 0 – 0	4	100
BAIC392	Machine Learning Lab	CC-6	0 – 0 – 4	2	100
BAIC303	Digital Image Processing	CC-7	4 – 0 – 0	4	100
BAIC393	Digital Image Processing Lab	CC-7	0 – 0 – 4	2	100
BAIS391	Python Programming Lab	SEC-1	2 – 0 – 4	4	100
GE**	Generic Elective-3 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-3	5 – 0 – 0	5	100
GE**	Generic Elective -3 (Practical/Tutorial)	GE-3	0 – 1 – 0	1	
<b>Total</b>				<b>28</b>	<b>800</b>

**SEMESTER – IV**

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BAIC401	Artificial Neural Network	CC-8	4 – 0 – 0	4	100
BAIC491	Artificial Neural Network Lab	CC-8	0 – 0 – 4	2	100
BAIC402	Data Visualization	CC-9	4 – 0 – 0	4	100
BAIC492	Data Visualization Lab	CC-9	0 – 0 – 4	2	100
BAIC403	Natural Language Processing	CC-10	4 – 0 – 0	4	100
BAIC493	Natural Language Processing Lab	CC-10	0 – 0 – 4	2	100
BAIS491	PROLOG/LISP/OpenAI Programming	SEC-2	2 – 0 – 4	4	100
GE**	Generic Elective-4 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-4	5 – 0 – 0	5	100
GE**	Generic Elective -4 (Practical/Tutorial)	GE-4	0 – 1 – 0	1	
<b>Total</b>				<b>28</b>	<b>800</b>



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**SEMESTER – V**

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BAIC501	Advanced Machine Learning	CC-11	4 – 0 – 0	4	100
BAIC591	Advanced Machine Learning Lab	CC-11	0 – 0 – 4	2	100
BAIC502	Cloud Web Services	CC-12	5 – 1 – 0	6	100
BAID501	A. Internet of Things B. Data Analytics using SQL	DSEC-1	4 – 0 – 0	4	100
BAID591	A. Internet of Things Lab B. Data Analytics using SQL Lab	DSEC-1	0 – 0 – 4	2	100
BAID502	A. Recommender Systems B. Chat Bot Development	DSEC-2	4 – 0 – 0	4	100
BAID592	A. Recommender Systems Lab B. Chat Bot Development Lab	DSEC-2	0 – 0 – 4	2	100
	<b>Total</b>			<b>24</b>	<b>700</b>

**SEMESTER – VI**

Course Code	Course Name	Course Type	L – T – P	Credits	Total Marks
BAIC601	Deep Learning	CC-13	4 – 0 – 0	4	100
BAIC691	Deep Learning Lab	CC-13	0 – 0 – 4	2	100
BAIC602	Robotic Process Automation	CC-14	4 – 0 – 4	6	100
BAID601	A. Information Security B. Big Data Analytics	DSEC-3	4 – 0 – 0	4	100
BAID691	A. Information Security Lab B. Big Data Analytics Lab	DSEC-3	0 – 0 – 4	2	100
BAID692	Project	DSEC-4	0 – 0 – 12	6	100
	<b>Total</b>			<b>24</b>	<b>600</b>

**Total Credits: 148**  
**Total Marks: 4200**