



JOY UNIVERSITY  
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## School of Computational Intelligence

Department of Computing & Information Systems

### Bachelor of Computer Application (BCA)

#### Bachelor of Computer Application (Artificial Intelligence) - I Semester

Sl. No.	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BCAI1111	Fundamentals of Computing	3	0	2	5	4
2.	BCAI1112	Mathematics I	3	1	0	4	4
3.	BCAI1113	Introduction to Programming	3	0	2	5	4
4.	AEEN1111	Effective Communication	3	0	0	3	3
5.	BCAI2111	Performing Arts	0	0	4	4	2
		<b>TOTAL</b>	<b>12</b>	<b>1</b>	<b>8</b>	<b>21</b>	<b>17</b>

#### Bachelor of Computer Application (Artificial Intelligence) - II Semester

Sl. No.	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
6.	AEEV1121	Environmental Science	2	0	0	2	2
7.	BCAI1121	Discrete Structures	3	0	0	3	3
8.	BCAI1122	Operating System Concepts	3	0	2	5	4
9.	BCAI 1123	Logical Organizations of Computers	3	0	0	3	3
10.	BCAI1124	Numerical and Statistical Methods	3	0	2	5	4
11.	BCAI2121	Office Automation Tools	0	0	4	4	2
12.	SEAI 212#	SEC I	0	0	4	4	2
		<b>TOTAL</b>	<b>14</b>	<b>0</b>	<b>12</b>	<b>26</b>	<b>20</b>

### Bachelor of Computer Application (Artificial Intelligence) - III Semester

Sl. No.	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	AEPH1213	Professional Ethics	2	0	0	2	2
2.	BCAI1211	Data Structures	3	0	2	6	5
3.	BCAI1212	Database Management Systems	3	1	2	7	6
4.	BCAI1213	Introduction to AI	3	0	1	5	4
5.	BCAI1214	Introduction to Data Analytics	3	0	1	5	4
6.	SEAI221#	SEC II	0	0	2	4	2
		<b>TOTAL</b>	<b>14</b>	<b>1</b>	<b>8</b>	<b>29</b>	<b>23</b>

### Bachelor of Computer Application (Artificial Intelligence) - IV Semester

Sl. No.	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BCAI1221	Fundamentals of Computer Algorithms	3	1	0	4	4
2.	BCAI1222	Object Oriented Programming	3	0	2	6	5
3.	BCAI1223	Web Programming	3	0	2	6	5
4.	BCAI1224	Software Engineering	3	0	2	6	5
5.	BCAI1225	Deep Learning and Neural Network	3	0	1	5	4
6.	BCAI1216	Special Topics in Artificial Intelligence	3	0	0	3	3
		<b>TOTAL</b>	<b>18</b>	<b>1</b>	<b>7</b>	<b>29</b>	<b>26</b>

### Bachelor of Computer Application (Artificial Intelligence) - V Semester

Sl. No.	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BCAI1311	Computer Graphics and Multimedia	3	0	2	6	5
2.	BCAI1312	Computer Networks	3	0	0	3	3
3.	BCAI1313	Management Information Systems	3	0	0	3	3
4.	BCAI1314	Applications of AI	3	0	0	3	3
5.	PEAI131#	Program Elective I	3	0	1	5	4
6.	PEAI131#	Program Elective II	3	0	1	5	4
7.	GE	Generic Elective	3	0	0	3	3
8.	SEAI231#	SEC III	0	0	2	3	2
		<b>TOTAL</b>	<b>21</b>	<b>0</b>	<b>7</b>	<b>31</b>	<b>27</b>

## Bachelor of Computer Application (Artificial Intelligence) - VI Semester

Sl. No.	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BCAI1321	Data Mining	3	0	0	3	3
2.	BCAI1322	Distributed Computing	3	0	0	3	3
3.	PEAI132#	Program Elective III	3	0	1	5	4
4.	PEAI132#	Program Elective IV	3	0	1	5	4
5.	BCAI3321	Project	#	#	#	#	10
<b>TOTAL</b>			<b>12</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>24</b>

### Program Specific Elective I & II

PEAI1311 Internet Technologies  
 PEA11312 Mobile Application (MA)  
 PEA1 1313 Ecommerce Technology  
 PEA1 1314 Cloud Computing  
 PEA1 1316 Fuzzy logic and Applications  
 PEA1 1317 Android Programming  
 PEA1 1318 R Language

### Program Specific Elective III & IV

PEAI 1321 Software Testing  
 PEA1 1322 Network Security  
 PEA1 1323 Cyber Forensics  
 PEA1 1324 Unix and Shell Programming  
 PEA1 1325 System Programming  
 PEA1 1326 Distributed Database Systems  
 PEA1 1327 Decision Support System

### Credit Summary

Semesters	Credits
Semester- I	17
Semester- II	20
Semester- III	23
Semester- IV	26
Semester- V	27
Semester- VI	24
<b>Total</b>	<b>138</b>

### SEC I

SEAI2121 Designing and Publishing in Computer  
 Using Page maker, Photoshop and Corel draw  
 SEAI2122 HTML Programming

### SEC II

SEAI2211 Programming in Visual Basic/GAMBAS  
 SEAI2212 Programming in SCILAB

### SEC III

SEAI2311 Tally Software (Accounting and  
 Finance Tally ERP)  
 SEAI2312 Photo Shop Lab