

**Jaypee University Anoopshahr**

**Faculty of Engineering**



**B. Sc. (Honors) Computer Science  
Course Curriculum**

**Academic Batches: 2021-24**

**Department of Computer Science and  
Engineering**

## Curriculum for B. Sc. (Honors) Computer Science

### First semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	CSE	17H11CS111	Programming Fundamentals	4	3	1	0	4	Core
2	Physics	17H11PH111	Mathematical Physics I	4	3	1	0	4	GE
3	Mathematics	17H11MA111	Numerical Methods	4	3	1	0	4	GE
4	ECE	17H11EC111	Basic Electronics	4	3	1	0	4	GE
5	HSS	17H11HS111	English Enhancement I	4	3	1	0	4	AECC
6	CSE/IT	17H17CS171	Computer Programming Lab	2	0	0	2	4	SEC
			<b>Total Credit</b>	<b>22</b>	<b>15</b>	<b>5</b>	<b>2</b>	<b>24</b>	

### Second Semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	Mathematics	17H11MA212	Algebra	4	3	1	0	4	Core
2	Mathematics	17H11MA211	Calculus	4	3	1	0	4	GE
3	CSE	17H11CS211	Data Structures	4	3	1	0	4	Core
4	CSE	17H11CS212	Computer System Architecture	4	3	1	0	4	Core
5	HSS	17H11HS211	English Enhancement II	4	3	1	0	4	AECC
6	CSE/IT	17H17CS271	Computer Lab I	2	0	0	2	4	SEC
			<b>Total Credit</b>	<b>22</b>	<b>15</b>	<b>5</b>	<b>2</b>	<b>24</b>	

**Third Semester**

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	CSE	17H11CS311	Fundamentals of Algorithms	4	3	1	0	4	Core
2	CSE	17H11CS312	System Softwares	4	3	1	0	4	Core
3	Mathematics	17H11MA312	Differential Equations	4	3	1	0	4	GE
4	Physics	17H11GE311	Environmental Sciences	4	3	1	0	4	AECC
5	CSE	17H11CS313	JAVA Programing	4	3	1	0	4	DSE I
6	CSE	17H17CS371	Computer Lab II	2	0	0	2	4	SEC
7	CSE	17H19CS391	Term Paper	2	0	0	2	4	SEC
			<b>Total Credit</b>	<b>24</b>	<b>15</b>	<b>5</b>	<b>4</b>	<b>28</b>	

**Fourth Semester**

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	CSE	17H11CS411	Operating System	4	3	1	0	4	Core
2	CSE	17H11CS412	Database Systems	4	3	1	0	4	Core
3	Mathematics	17H11MA411	Multivariate Calculus	4	3	1	0	4	GE
4	CSE	17H11CS413	Multimedia Applications	4	3	1	0	4	DSE II
5	ECE	17H11EC412	Digital Electronics	4	3	1	0	4	GE
6	CSE	17H17CS471	Computer Lab III	2	0	0	2	4	SEC
7	CSE	17H19CS491	Seminar	2	0	0	2	4	SEC
			<b>Total Credit</b>	<b>24</b>	<b>15</b>	<b>5</b>	<b>4</b>	<b>28</b>	

**Fifth Semester**

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	CSE	17H11CS511	Computer Networks	4	3	1	0	4	Core
2	CSE	17H11CS512	Microprocessor	4	3	1	0	4	Core
3	CSE	17H11CS513	Compiler Design	4	3	1	0	4	Core
4	CSE	17H11CS514	Embedded Systems	4	3	1	0	4	DSE III
5	CSE	17H11CS515	wireless adhoc Network	4	3	1	0	4	DSE IV
6	CSE	17H17CS571	Computer Lab IV	2	0	0	2	4	SEC
7	CSE	17H19CS591	Project	4	0	0	4	8	SEC
<b>Total Credit</b>				<b>26</b>	<b>15</b>	<b>5</b>	<b>6</b>	<b>32</b>	

**Sixth Semester**

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	CSE	17H11CS61 1	Computer Graphics	4	3	1	0	4	Core
2	CSE	17H11CS61 2	Mobile Computing	4	3	1	0	4	Core
3	CSE	17H11CS61 3	Numerical Analysis and Scientific Computing	4	3	1	0	4	Core
4	CSE	17H11CS61 4	Artificial Intellegence	4	3	1	0	4	DSE V
5	CSE	17H11CS61 5	Information Retrieval and Data Mining	4	3	1	0	4	DSE VI
6	CSE	17H17CS67 1	Computer Lab V	2	0	0	2	4	SEC
7	CSE	17H19CS69 1	Project	4	0	0	4	8	SEC
<b>Total Credit</b>				<b>26</b>	<b>15</b>	<b>5</b>	<b>6</b>	<b>32</b>	
<b>Total Credits for Program</b>				<b>144</b>	<b>90</b>	<b>30</b>	<b>24</b>	<b>168</b>	

\*Course structure is same for the academic batches of 2021-2023.

**HOD**

**Faculty In charge**

**Vice Chancellor**