

**J.J. College of Arts and Science (Autonomous)**  
**Department of Computer Applications**

**Proposed Course Structure based on TANSCHÉ and UGC - LOCF**  
**(Choice Based Credit System)**

**(Applicable for the Candidates admitted from academic year 2023-2024 Onwards)**

**B.C.A. - Semester I**

Sl.No.	Course Category	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
						CIA	ESE	Total
<b>Semester I</b>								
1	Part - I	U1R3TL1/ HL1/FL1	Language - I (Tamil/Hindi/French)	3	6	25	75	100
2	Part - II	U1R3EL1	Language - II (English)	3	6	25	75	100
3	Part - III	U1R3CACC1	Python Programming	5	5	25	75	100
4		U1R3CACC2P	Python Programming Practical	5	5	40	60	100
5		U1R3CADSE 1:1/ 1:2/ 1:3	Anyone from the List	3	4	25	75	100
6	Part - IV	U1R3CASEC1 (NME)	To be opted from other Department	2	2	25	75	100
7		U1R3CAFC	Structured Programming Language in C	2	2	25	75	100
<b>Total</b>				<b>23</b>	<b>30</b>			<b>700</b>

**M.C.A. - Semester I**

Sl.No.	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
					CIA	ESE	Total
<b>Semester I</b>							
1	P1R3CACC1	Discrete Mathematics	5	7	25	75	100
2	P1R3CACC2	Linux and Shell Programming	5	7	25	75	100
3	P1R3CACC3	Python Programming	4	6	25	75	100
4	P1R3CADSE 1:1 / 1:2 / 1:3 / 1:4	Elective - I Theory Anyone from the List	3	5	25	75	100
5	P1R3CADSE 2:1P / 2:2P / 2:3P / 2:4P	Elective - II Lab Anyone from the List	3	5	40	60	100
<b>Total</b>			<b>20</b>	<b>30</b>			<b>500</b>

  
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 SIVAPURAM POST, PUDUKKOTTAI - 622 422

Department of Computer Applications  
Course Structure Based on TANSICHE and UGC - LOCF  
(Choice Based Credit System)  
(Applicable for the Candidates admitted from the Academic year 2023 - 2024 Onwards)

**B.C.A. - Semester II**

Sl. No.	Course Category	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
						CIA	ESE	Total
<b>Semester II</b>								
1	Part - I	U2R3TL2/ HL2/FL2	Language - I (Tamil/Hindi/French)	3	6	25	75	100
2	Part - II	U2R3EL2	Language - II (English)	3	6	25	75	100
3	Part - III	U2R3CACC3	Object Oriented Programming Concepts using C++	5	5	25	75	100
4		U2R3CACC4P	C++ Programming Lab	5	5	40	60	100
5		U2R3CADSE 2:1 / 2:2 / 2:3	Discrete Mathematics - II / Statistical methods and its Applications - II / Graph Theory and its Applications	3	4	25	75	100
6	Part - IV	U2R3CASEC2 (NME2)	To be selected from other Department	2	2	25	75	100
7		U2R3CASEC 3:1 / 3:2	Fundamentals of Information Technology / Understanding Internet	2	2	25	75	100
<b>Total</b>				<b>23</b>	<b>30</b>			<b>700</b>

**M.C.A. - Semester II**

Sl.No.	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
					CIA	ESE	Total
<b>Semester II</b>							
1	P2R3CACC4	Data Structures and Algorithms	5	6	25	75	100
2	P2R3CACC5	Big Data Analytics	5	6	25	75	100
3	P2R3CACC6P	Practical II - (Data Structures and Algorithms & Big Data Analytics Lab)	4	6	40	60	100
4	P2R3CADSE 3:1 / 3:2	Software Development Technologies / Soft Computing	3	5	25	75	100
5	P2R3CADSE 4:1 / 4:2	Social Networks / High Performance Computing	3	5	25	75	100
6	P2R3CASEC 1:1 / 1:2	Internet of Things / Data Engineering and Management	2	2	25	75	100
<b>Total</b>			<b>22</b>	<b>30</b>			<b>600</b>

**Head of the Department**

**Director - CDC**

**Co-ordinator - IQAC**

**Principal**

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PRINCIPAL

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Director, Curriculum Development Cell (CDC)

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