

**J.J. College of Arts and Science (Autonomous)****Department of Computer Science****Proposed Course Structure based on TANSCH and UGC - LOCF****(Choice Based Credit System)****(Applicable for the Candidates admitted from academic year 2023-2024 Onwards)****B.Sc. Computer Science - Semester I**

| Sl.No.     | Course Category | Course Code        | Course                            | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|------------|-----------------|--------------------|-----------------------------------|-----------------|--------------------------|-------|-----|-------|
|            |                 |                    |                                   |                 |                          | CIA   | ESE | Total |
| Semester I |                 |                    |                                   |                 |                          |       |     |       |
| 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      | U1R3CSCC1          | Python Programming                | 5               | 5                        | 25    | 75  | 100   |
| 4          |                 | U1R3CSCC2P         | Python Programming Practical      | 5               | 4                        | 40    | 60  | 100   |
| 5          |                 | U1R3CSDSE1:1 / 1:2 | Anyone from the List              | 3               | 5                        | 25    | 75  | 100   |
| 6          | Part - IV       | U1R3CSSEC1 (NME)   | To be opted from other Department | 2               | 2                        | 25    | 75  | 100   |
| 7          |                 | U1R3CSFC           | Problem Solving Techniques        | 2               | 2                        | 25    | 75  | 100   |
| Total      |                 |                    |                                   | 23              | 30                       |       |     | 700   |

**M.Sc. Computer Science - Semester I**

| Sl.No.     | Course Code               | Course                                    | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|------------|---------------------------|-------------------------------------------|-----------------|--------------------------|-------|-----|-------|
|            |                           |                                           |                 |                          | CIA   | ESE | Total |
| Semester I |                           |                                           |                 |                          |       |     |       |
| 1          | PIR3SCCC1                 | Analysis & Design of Algorithms           | 5               | 6                        | 25    | 75  | 100   |
| 2          | PIR3SCCC2                 | Object Oriented Analysis and Design & C++ | 5               | 6                        | 25    | 75  | 100   |
| 3          | PIR3SCCC3P                | Algorithm and OOPs Lab                    | 4               | 6                        | 40    | 60  | 100   |
| 4          | PIR3CSDSE 1:1 / 1:2 / 1:3 | Anyone from the List                      | 3               | 6                        | 25    | 75  | 100   |
| 5          | PIR3CSDSE 2:1 / 2:2 / 2:3 | Anyone from the List                      | 3               | 6                        | 25    | 75  | 100   |
| Total      |                           |                                           | 20              | 30                       |       |     | 500   |

*J. S. Sudha* 30/6/2023  
Jr. S.SUDHA M.Sc.M.Phil., Ph.D.  
Vice Principal and Head,  
Department of Computer Science  
J. College of Arts and Science (Autonomous)  
Pudukkottai - 622 422

# J.J. College of Arts and Science (Autonomous)

## Department of Computer Science

Proposed Course Structure based on TANSCH and UGC - LOCF

(Choice Based Credit System)

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

### B.Sc. Computer Science - Semester II

| Sl.No.      | Course Category | Course Code         | Course                                                           | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|-------------|-----------------|---------------------|------------------------------------------------------------------|-----------------|--------------------------|-------|-----|-------|
|             |                 |                     |                                                                  |                 |                          | CIA   | ESE | Total |
| Semester II |                 |                     |                                                                  |                 |                          |       |     |       |
| 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      | U2R3CSCC3           | Data Structures and Algorithms                                   | 5               | 6                        | 25    | 75  | 100   |
| 4           |                 | U2R3CSCC4P          | Data Structures and Algorithms Practical                         | 5               | 3                        | 40    | 60  | 100   |
| 5           |                 | U2R3CSDSE 2:1 / 2:2 | Graph Theory and its applications / Digital Computer Fundamental | 3               | 5                        | 25    | 75  | 100   |
| 6           | Part - IV       | U2R3CSSEC2 (NME2)   | To be opted from other Department                                | 2               | 2                        | 25    | 75  | 100   |
| 7           |                 | U2R3CSSEC 3:1 / 3:2 | Advanced Excel / R Programming                                   | 2               | 2                        | 25    | 75  | 100   |
| Total       |                 |                     |                                                                  | 23              | 30                       |       |     | 700   |

### M.Sc. Computer Science - Semester II

| Sl.No.      | Course Code                  | Course                                                              | Overall Credits | Total Contact Hours/Week | Marks |     |       |
|-------------|------------------------------|---------------------------------------------------------------------|-----------------|--------------------------|-------|-----|-------|
|             |                              |                                                                     |                 |                          | CIA   | ESE | Total |
| Semester II |                              |                                                                     |                 |                          |       |     |       |
| 1           | P2R3CSCC4                    | Data Mining and Warehousing                                         | 5               | 6                        | 25    | 75  | 100   |
| 2           | P2R3CSCC5                    | Python Programming                                                  | 5               | 6                        | 25    | 75  | 100   |
| 3           | P2R3CSCC6P                   | Python Programming Lab                                              | 4               | 6                        | 40    | 60  | 100   |
| 4           | P2R3CSDSE<br>3:1 / 3:2 / 3:3 | Compiler Design / Block Chain Technology / Distributed Technologies | 3               | 4                        | 25    | 75  | 100   |
| 5           | P2R3CSDSE<br>4:1 / 4:2 / 4:3 | Web Services / Big Data Analytics / Advanced Software Engineering   | 3               | 4                        | 25    | 75  | 100   |
| 6           | P2R3CSSEC<br>1:1 / 1:2 / 1:3 | Web programming / React JS / WAP and XML                            | 2               | 4                        | 25    | 75  | 100   |
| Total       |                              |                                                                     | 22              | 30                       |       |     | 600   |

Principal

**Dr. J. PARASURAMAN**  
M.A., M.B.A., M.C.A.,  
M.Phil., B.Ed., Ph.D.  
PRINCIPAL  
J.J. College of Arts and Science (Autonomous)  
J.J. Nagar, Sivapuram Post,  
PUDUKKOTTAI - 622 422.

CDC - Director

**Dr. S.J. SATHISH AARON JOSEPH**  
M.Sc., M.Phil., P.G.D.Ecom., B.Ed., Ph.D.  
Director, Curriculum Development Cell (CDC)  
J.J. College of Arts and Science (Autonomous)  
Sivapuram Post, Pudukkottai - 622 422.

IQAC Co-ordinator

**Dr. P. Jeevan**  
Co-ordinator-IQAC  
J.J. College of Arts and Science (Autonomous)  
Sivapuram Post, Pudukkottai - 622 422.

Head of the Department

**Dr. S. SUDHA**  
M.Sc., M.Phil., Ph.D.  
Vice Principal and Head,  
Department of Computer Science  
J.J. College of Arts and Science (Autonomous)  
Pudukkottai - 622 422.