

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

Sivapuram Post, Pudukkottai – 622 422

(Re-Accredited by NAAC – 4<sup>th</sup> Cycle)

Affiliated to Bharathidasan University, Tiruchirappalli

**Department of Information Technology**

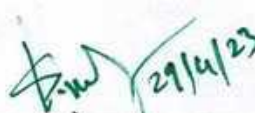
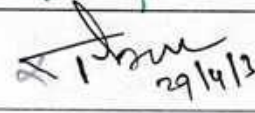
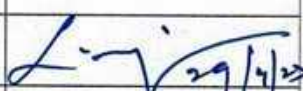
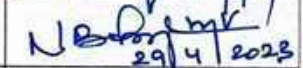
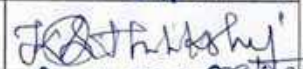
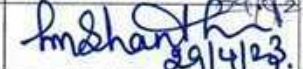
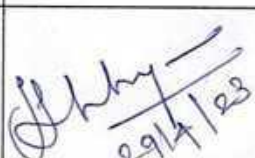
**Minutes of the Board of Studies in Information Technology**

Meeting No: 08

Date: 29.04.2023 & Time: 11.00 a.m.

The Meeting of the Board of Studies in Information Technology (U.G. and P.G.) for the sixth revision of the curricula to be implemented from 2023-2024, was conducted at 11.00 a.m. on Saturday, 29.04.2023

**Members List**

| S.No | Name                   | Designation                                                                                                                                                                                   | Signature                                                                             |
|------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1.   | Dr. R.Manimaran        | Chairman, Head,<br>Department of Information Technology,<br>J.J.College of Arts and Science(Autonomous),<br>Pudukkottai.                                                                      |    |
| 2.   | Dr. K. Muthuramalingam | University Nominee, Assistant Professor<br>Department of Computer Science, Engineering<br>and Computer Applications<br>Bharathidasan University, Khaja<br>malai campus, Tiruchirappalli – 23. |   |
| 3.   | Dr. T. Meyyappan       | Subject Expert,<br>Professor, Department of Computer Science<br>Alagappa University, Karaikudi – 630 003.                                                                                     |  |
| 4.   | Dr. G. Marimuthu       | Subject Expert,<br>Assistant Professor and Head<br>Department of Computer Science<br>Yadava College (Autonomous)<br>Thiruppalai, Madurai – 625 014                                            |  |
| 5.   | Dr. S. Vasuki          | Member, Assistant Professor,<br>Department of Information Technology                                                                                                                          |  |
| 6.   | Dr. N. Balajiraja      | Member, Assistant Professor,<br>Department of Information Technology                                                                                                                          |  |
| 7.   | Ms. K.Seethalakshmi    | Member, Assistant Professor,<br>Department of Information Technology                                                                                                                          |  |
| 8.   | Dr. PM.Shanthi         | Member, Assistant Professor,<br>Department of Information Technology                                                                                                                          |  |
| 9.   | Ms. P.Susila           | Member, Assistant Professor,<br>Department of Information Technology                                                                                                                          | Absent                                                                                |
| 10.  | Ms. G.Bhuvaneswari     | Corporate Member,<br>Module Leader, Mindtree Ltd.,<br>140, Old Mahaballipuram Road<br>Chennai – 600 113.                                                                                      | Absent                                                                                |
| 11.  | Dr. E.Elakkiya         | Alumnus, Assistant Professor(Guest),<br>Department of Computer Science<br>Government Arts College for Women,<br>Sivagangai – 630 561                                                          |  |

The Chairman, **Dr. R. Manimaran** chaired the meeting and welcomed all the members to the Eight BoS Meeting. After the brief introduction, the agenda listed below were taken up for discussion and the following resolutions were passed after deliberation.

It is resolved to

1. As per the instructions from **TANSCH** and the **Parent University**, it is resolved to include **75 % of Mandatory inclusion** content from model syllabus and **25 % of Preferential inclusion** by our Department to preserve equivalence in U.G. and P.G. Degree Programmes to enable student Mobility to be implemented from the academic year 2023 – 2024 onwards is framed and restructured following the guidelines laid down by the UGC - LOCF and Tamil Nadu State Council for Higher Education (TANSCH) and the Parent University.
2. It is resolved to evaluate the Syllabus followed during the Academic Year 2022 – 2023 based on the first Semester Results.
3. It is also resolved to analyze the previous Curriculum based on the feedback received from the Teachers, Employers, Students and the Alumni.
4. Approve the Curriculum, Course Structure (Syllabi) and Text Books recommended for Implementation from 2023-2024 onwards.
5. Have the following structure for the B.Sc. I.T. Programme.

**Distribution of Courses - B.Sc. I.T.**

| Part               | Course                                                                                   | No. of. Course | Credit     | Marks       |
|--------------------|------------------------------------------------------------------------------------------|----------------|------------|-------------|
| I                  | Language – Tamil / Hindi / French                                                        | 04             | 12         | 400         |
| II                 | Language – English                                                                       | 04             | 12         | 400         |
| III                | Core Courses                                                                             | 15             | 84         | 2300        |
|                    | Discipline Specific Electives (DSE)                                                      | 08             |            |             |
| IV                 | Skill Enhancement Course (SEC)/Generic Elective Courses                                  | 08             | 31         | 1600        |
|                    | Ability Enhancement Compulsory Courses (AECC)                                            | 04             |            |             |
|                    | Foundation Course(1),Environmental Studies(1)<br>Value Education(1),Summer Internship(1) | 04             |            |             |
| V                  | Extension Activity                                                                       | -              | 1          | -           |
| <b>Grand Total</b> |                                                                                          | <b>47</b>      | <b>140</b> | <b>4700</b> |

6. Allow the earning of Extra Credits through online Courses.
7. Apply Revised Bloom's Taxonomy in spelling out Course Outcomes.

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**8. Implement the following guidelines on Curriculum design given by NAAC**

- a. Specific mention has been made of Program outcomes (POs) Program specific outcomes (PSOs), Course Outcomes (COs) and Course Objectives in the Syllabus.
  - b. Relationship Matrix for CO, PO and PSO for all courses implemented.
  - c. Curriculum addresses local, Regional, National and Global Needs
  - d. Courses focus on Employability, Entrepreneurship and Skill Development
  - e. Courses also focus on Gender, Environment and Sustainability, Human values and Professional Ethics.
9. Introduce project work as a Core Course in the fifth semester of the B.Sc. I.T. Programme.
10. Introduce Summer Internship training programme in the fifth Semester of the B.Sc. I.T.
11. **Resolved to have the following 15 Core Courses for B.Sc. I.T. Semester wise as follows**

**SEMESTER I**

1. C Programming (It is the course of previous curriculum Retained as it is)
2. C Programming Practical (It is the course of previous curriculum Retained as it is)

**SEMESTER II**

1. JAVA Programming (It is the Core Course of previous curriculum but the unit contents are changed)
2. JAVA Practical (It is the Core Course of previous curriculum but the unit contents are changed)

**SEMESTER III**

1. Web Application Development (This Core Course is newly introduced)
2. Web Practical (This Core Course is newly introduced)

**SEMESTER IV**

1. Industrial Statistics (This Core Course is newly introduced)
2. Operating Systems (It is the course of previous curriculum Retained as it is)

**SEMESTER V**

1. Computer Networks (It is the course of previous curriculum Retained as it is)
2. Database Management Systems (Retained as it is)
3. Database Practical (It is the course of previous curriculum Retained as it is)
4. Project with Viva Voce (It is the course of previous curriculum Retained as it is)

**SEMESTER VI**

1. Machine Learning (This Core Course is newly introduced)
2. Data Analytics (This Core Course is newly introduced)
3. Android Programming Theory and Practical (This Core course newly introduced)

**12. . Resolved to have the following Discipline Specific Elective Courses for B.Sc. I.T.**

**SEMESTER I – Group 1**

1. Software Engineering (Retained as it is)
2. Multimedia Systems (Retained as it is )

**SEMESTER II - Group 2**

1. Digital Logic Fundamentals (It is the Core Course of previous curriculum but the unit contents are changed)
2. Discrete Structures (Retained as it is)

**SEMESTER III - Group 3**

1. Data Structures and Algorithms (Retained as it is)
2. Software Testing (This course is newly introduced)

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#### **SEMESTER IV - Group 4**

1. Python Programming Theory and Practical (Retained as it is)
2. E-Commerce(Retained as it is)

#### **SEMESTER V**

##### **Group 5**

1. Information Security (This course is newly introduced)
2. Data Mining and Warehousing(Retained as it is)

##### **Group 6**

1. Introduction to Data Science(This course is newly introduced)
2. System Administration and Maintenance(Retained as it is)

#### **SEMESTER VI -**

##### **Group 7**

1. PHP Practical (Retained as it is)
2. Artificial Intelligence (This course is newly introduced)

##### **Group 8**

1. Fuzzy Logic (This course is newly introduced)
2. Image Processing (This course is newly introduced)

13. Resolved to have the following **Skill Enhancement Courses** for B.Sc. I.T.

#### **SEMESTER I**

##### **NME I [offered to other Department]**

1. Office Automation ( This course is newly introduced)

#### **SEMESTER II**

##### **NME II [offered to other Department]**

1. Advanced Excel (This course is newly introduced)

##### **SEC III**

1. Quantitative Aptitude (Retained as it is)

#### **SEMESTER III**

##### **SEC 4**

1. PHP Programming (Retained as it is)

##### **SEC 5**

1. R Programming Practical (This course is newly introduced)

#### **SEMESTER IV**

##### **SEC 6**

1. Internet of Things (This course is newly introduced)

##### **SEC 7**

2. Cloud Computing (This course is newly introduced)

#### **SEMESTER VI**

##### **SEC 8**

1. Professional Competency Skill (This course is newly introduced)

14. Resolved to have the following **Soft Skill Courses** for B.Sc. I.T.

#### **SEMESTER I**

1. Introduction to Study Skills (Syllabus is passed by the BoS in English)

#### **SEMESTER II**

1. Life Skills (Syllabus is passed by the BoS in Management Studies)

#### **SEMESTER III**

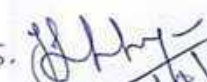
1. Job Oriented Skills (This course is newly introduced)

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**SEMESTER IV**

1. Computing Skills (Syllabus is passed by the BoS in Computer Applications)

15. Resolved to have the following Courses for B.Sc. I.T.

**SEMESTER I**

1. Foundation Course - Problem Solving Technique ( This course is newly introduced)

**SEMESTER IV**

1. Environmental Studies (Retained as it is)

**SEMESTER IV**

1. Value Education (Retained as it is)

16. It is Resolved to follow the existing Curriculum 2022 - 2023 for M.Sc. I.T.

**Distribution of Courses - M.Sc. I.T.**

| Sl. No             | Course                              | No. of. Course | Credit    | Marks       |
|--------------------|-------------------------------------|----------------|-----------|-------------|
| 1                  | Core Courses                        | 14             | 70        | 1400        |
| 2                  | Discipline Specific Elective Course | 02             | 06        | 200         |
| 3                  | Skill Enhancement Courses           | 01             | 03        | 100         |
| 4                  | Generic Elective Course             | 01             | 03        | 100         |
| 5                  | Project Work                        | 01             | 08        | 100         |
| <b>Grand Total</b> |                                     | <b>19</b>      | <b>90</b> | <b>1900</b> |

17. Resolved to have the following 15 Core Courses for M.Sc. I.T. semester wise

**SEMESTER I**

1. Advanced JAVA Programming (Retained as it is)
2. Cryptography and Network Security (Retained as it is)
3. Design and Analysis of Algorithm (Retained as it is)
4. Advanced JAVA Programming Practical (Retained as it is)
5. Algorithm Practical (Retained as it is)

**SEMESTER II**

1. Advanced Web Technology (Retained as it is)
2. Distributed Operating System (Retained as it is)
3. Machine Learning (Retained as it is)
4. Advanced Database Management Systems (Retained as it is)
5. Advanced Web Technology Practical (Retained as it is)

**SEMESTER III**

1. Digital Image Processing (Retained as it is)
2. Compiler Design (Retained as it is)
3. Internet of Things (Retained as it is)
4. Image Processing Practical (Retained as it is)

**SEMESTER IV**

1. Project Work (Retained as it is)

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18. Resolved to have the following Discipline Specific Elective Courses, Skill Enhancement Courses and Generic Elective Courses for M.Sc. I.T. Semester wise

**SEMESTER I - DSE**

1. Cloud Computing (Retained as it is)
2. Advanced Computer Networks (Retained as it is)

**SEMESTER II - DSE**

1. Data Mining (Retained as it is)
2. Data Science and Big Data Analytics (Retained as it is)

**SEMESTER III - SEC**

1. Dot Net Programming (Retained as it is)
2. Soft Computing (Retained as it is)

**SEMESTER IV – GEC (offer to other Department)**

1. Web Services (Retained as it is)

19. It is resolved to convene a Board of Studies meeting in the coming days (if the need arises) to incorporate the Modifications / Updations in the Curriculum based on the communication from the Parent University / TANSCH.

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**B.Sc. – Information Technology (Course Structure under CBCS)**  
**Proposed Course Structure based on TANSCHÉ and UGC-LOCF**  
**(For the Candidates admitted from academic year 2023 - 2024 onwards)**

| SE<br>M   | Part         | Course Code          | Course Title                                                                                | Hrs/<br>Week | Credit    | Exa<br>m<br>Hrs | Marks    |          | Total<br>Marks |
|-----------|--------------|----------------------|---------------------------------------------------------------------------------------------|--------------|-----------|-----------------|----------|----------|----------------|
|           |              |                      |                                                                                             |              |           |                 | Int.     | Ext      |                |
| <b>I</b>  | I            | U1R3TL1              | Language Course – I                                                                         | 6            | 3         | 3               | 25       | 75       | 100            |
|           | II           | U1R3EL1              | English Language Course – I                                                                 | 4            | 3         | 3               | 25       | 75       | 100            |
|           | III          | U1R3ITCC1            | Core Course – 1<br>C Programming                                                            | 5            | 5         | 3               | 25       | 75       | 100            |
|           |              | U1R3ITCC2P           | Core Course – 2<br>C Programming Practical                                                  | 5            | 3         | 3               | 40       | 60       | 100            |
|           |              | U1R3ITDSE1:1/<br>1:2 | Elective – 1<br>Any one from the list                                                       | 4            | 3         | 3               | 25       | 75       | 100            |
|           | IV           | U1R3ITSEC1<br>(NME)  | Skill Enhancement Course -1<br>- to be taken from other<br>department                       | 2            | 2         | 3               | 25       | 75       | 100            |
|           |              | U1R3ITFC             | Foundation Course FC-<br>Problem Solving Techniques                                         | 2            | 2         | 3               | 25       | 75       | 100            |
|           |              | U1R3AECC1            | Ability Enhancement<br>Compulsory Course<br>Soft Skill-1 Introduction to<br>Study Skills    | 2            | 2         | 3               | 25       | 75       | 100            |
|           | <b>TOTAL</b> |                      |                                                                                             | <b>30</b>    | <b>23</b> | <b>-</b>        | <b>-</b> | <b>-</b> | <b>800</b>     |
| <b>II</b> | I            | U2R3TL2              | Language Course – II                                                                        | 6            | 3         | 3               | 25       | 75       | 100            |
|           | II           | U2R3EL2              | English Language Course- II                                                                 | 4            | 3         | 3               | 25       | 75       | 100            |
|           | III          | U2R3ITCC3            | Core Course – 3<br>Java Programming                                                         | 5            | 5         | 3               | 25       | 75       | 100            |
|           |              | U2R3ITCC4P           | Core Course – 4<br>Java Practical                                                           | 5            | 3         | 3               | 40       | 60       | 100            |
|           |              | U2R3ITDSE2:1/<br>2:2 | Elective Course 2<br>Any one from the list                                                  | 4            | 3         | 3               | 25       | 75       | 100            |
|           | IV           | U2R3ITSEC2<br>(NME)  | Skill Enhancement Course -2<br>-to be taken from other<br>department                        | 2            | 2         | 3               | 25       | 75       | 100            |
|           |              | U2R3ITSEC3           | Skill Enhancement Course-3<br>(Discipline Specific /<br>Generic) – Quantitative<br>Aptitude | 2            | 2         | 3               | 25       | 75       | 100            |
|           |              | U2R3AECC2            | Ability Enhancement<br>Compulsory Course : Soft<br>Skill-2 - Life Skills                    | 2            | 2         | 3               | 25       | 75       | 100            |
|           | <b>TOTAL</b> |                      |                                                                                             | <b>30</b>    | <b>23</b> | <b>-</b>        | <b>-</b> | <b>-</b> | <b>800</b>     |

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|-----|--------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----------|----------|----------|------------|
| III | I            | U3R3TL3          | Language Course – III                                                                                                         | 6         | 3         | 3        | 25       | 75       | 100        |
|     | II           | U3R3EL3          | English Language Course- III                                                                                                  | 4         | 3         | 3        | 25       | 75       | 100        |
|     | III          | U3R3ITCC5        | Core Course – 5<br>Web Application Development                                                                                | 5         | 5         | 3        | 25       | 75       | 100        |
|     |              | U3R3ITCC6P       | Core Course – 6<br>Web Practical                                                                                              | 5         | 3         | 3        | 40       | 60       | 100        |
|     |              | U3R2ITDSE3:1/3:2 | Elective Course – 3<br>Any one from the list                                                                                  | 4         | 3         | 3        | 25       | 75       | 100        |
|     | IV           | U3R3ITSEC4       | Skill Enhancement Course -SEC-4<br>(Entrepreneurial Based) PHP Programming                                                    | 1         | 1         | 3        | 25       | 75       | 100        |
|     |              | U3R3ITSEC5P      | Skill Enhancement Course -SEC-5<br>R Programming – Practical                                                                  | 2         | 2         | 3        | 40       | 60       | 100        |
|     |              | U3R3AECC3        | Ability Enhancement Compulsory<br>Course Soft Skill-3- Job Oriented Skills                                                    | 2         | 2         | 3        | 25       | 75       | 100        |
|     |              | -                | Environmental Studies(EVS)                                                                                                    | 1         | -         | -        | -        | -        | -          |
|     | <b>TOTAL</b> |                  |                                                                                                                               | <b>30</b> | <b>22</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>800</b> |
| IV  | I            | U4R3TL4          | Language Course – IV                                                                                                          | 6         | 3         | 3        | 25       | 75       | 100        |
|     | II           | U4R3EL4          | English Language – IV                                                                                                         | 4         | 3         | 3        | 25       | 75       | 100        |
|     | III          | U4R3ITCC7        | Core Course – 7 Industry<br>Module - <b>Industrial Statistics</b>                                                             | 4         | 4         | 3        | 25       | 75       | 100        |
|     |              | U4R3ITCC8        | Core Course – 8<br>Operating Systems                                                                                          | 4         | 4         | 3        | 25       | 75       | 100        |
|     |              | U4R3ITDSE4:1/4:2 | Elective Course 4 Python<br>Programming -Theory and<br>Practical<br>[Theory:60 CIA:15 Ext:45]<br>[Practical:40 CIA:10 Ext:30] | 4         | 3         | 4(2+2)   | 40P      | 60T      | 100        |
|     | IV           | U4R3ITSEC6       | Skill Enhancement Course – 6<br>Internet of Things                                                                            | 2         | 2         | 3        | 25       | 75       | 100        |
|     |              | U4R3ITSEC7       | Skill Enhancement Course – 7<br>Cloud Computing                                                                               | 2         | 2         | 3        | 25       | 75       | 100        |
|     |              | U4R3AECC4        | AECC- Soft Skill-4 - Computing<br>Skills                                                                                      | 2         | 2         | 3        | 25       | 75       | 100        |
|     |              | U4R3ES           | Environmental Studies(EVS)                                                                                                    | 2         | 2         | 3        | 25       | 75       | 100        |
|     | <b>TOTAL</b> |                  |                                                                                                                               | <b>30</b> | <b>25</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>900</b> |

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|-------------|----------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|----|--------|-----|-----|------|
| V           | III                  | U5R3ITCC9                                           | Core Course – 9<br>Computer Networks                                                                                         | 5   | 4  | 3      | 25  | 75  | 100  |
|             |                      | U5R3ITCC10                                          | Core Course – 10<br>Database Management Systems                                                                              | 5   | 4  | 3      | 25  | 75  | 100  |
|             |                      | U5R3ITCC11P                                         | Core Course – 11<br>Database Practical                                                                                       | 5   | 4  | 3      | 40  | 60  | 100  |
|             |                      | U5R3ITCC12PW                                        | Core Course – 12<br>Project with Viva voce                                                                                   | 5   | 4  | -      | -   | -   | 100  |
|             |                      | U5R3ITDSE5:1/<br>5:2                                | <b>Elective Course - 5</b><br>Any one from the list                                                                          | 4   | 3  | 3      | 25  | 75  | 100  |
|             |                      | U5R3ITDSE6:1<br>/6:2                                | <b>Elective Course - 6</b><br>Any one from the list                                                                          | 4   | 3  | 3      | 25  | 75  | 100  |
|             | IV                   | U5R3VE                                              | Value Education                                                                                                              | 2   | 2  | 3      | 25  | 75  | 100  |
|             |                      | U5R3ITINT                                           | Internship / Industrial Training<br>(Carried out in II Year Summer<br>vacation) (30 hours)                                   | -   | 2  | -      | -   | -   | 100  |
| TOTAL       |                      |                                                     |                                                                                                                              | 30  | 26 | -      | -   | -   | 800  |
| VI          | III                  | U6R3ITCC13                                          | Core Course – 13<br>Machine Learning                                                                                         | 5   | 4  | 3      | 25  | 75  | 100  |
|             |                      | U6R3ITCC14                                          | Core Course – 14<br>Data Analytics                                                                                           | 5   | 4  | 3      | 25  | 75  | 100  |
|             |                      | U6R3ITCC15                                          | Core Course – 15<br>Android Programming Theory<br>and Practical<br>[Theory:60 CIA:15 Ext:45]<br>[Practical:40 CIA:10 Ext:30] | 5   | 4  | 4(2+2) | 40P | 60T | 100  |
|             |                      | U6R3ITDSE7:1P<br>/7:2                               | <b>Elective Course - 7</b><br>Any one from the list                                                                          | 5   | 3  | 3      | 40  | 60  | 100  |
|             | U6R2ITDSE8:1<br>/8:2 | <b>Elective Course - 8</b><br>Any one from the list | 5                                                                                                                            | 3   | 3  | 25     | 75  | 100 |      |
|             | IV                   | U6R3ITSEC8                                          | <b>Skill Enhancement Course – 8</b><br>Professional Competency Skill                                                         | 5   | 2  | 3      | 25  | 75  | 100  |
|             | V                    | ---                                                 | Extension Activity                                                                                                           | -   | 1  | -      | -   | -   | -    |
| TOTAL       |                      |                                                     |                                                                                                                              | 30  | 21 | -      | -   | -   | 600  |
| Grand Total |                      |                                                     |                                                                                                                              | 140 |    |        |     |     | 4700 |

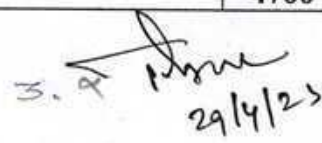
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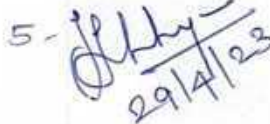


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### Discipline Specific Electives Courses

#### DSE Course 1:

U1R3ITDSE1:1 Software Engineering

U1R3ITDSE1:2 Multimedia Systems

#### DSE Course 2:

U2R3ITDSE2:1 Digital Logic Fundamentals

U2R3ITDSE2:2 Discrete Structures

#### DSE Course 3:

U3R3ITDSE3:1 Data Structures and Algorithms

U3R3ITDSE3:1 Software Testing

#### DSE Course 4:

U4R3ITDSE4:1 Python Programming Theory and Practical

U4R3ITDSE4:2 E-Commerce

#### DSE Course 5:

U5R3ITDSE5:1 Information Security

U5R3ITDSE5:2 Data Mining and Warehousing

#### DSE Course 6:

U5R3ITDSE6:1 Introduction to Data Science(This course is newly introduced)

U5R3ITDSE6:2 System Administration and Maintenance(Retained as it is)

#### DSE Course 7:

U6R3ITDSE7:1P PHP Practical (Retained as it is)

U6R3ITDSE7:2 Artificial Intelligence (This course is newly introduced)

#### DSE Course 8:

U5R3ITDSE8:1 Fuzzy Logic (This course is newly introduced)

U5R3ITDSE8:2 Image Processing(This course is newly introduced)

### Non Major Elective - To be Offered to other Department

U1R3ITSEC1 - Office Automation

U2R3ITSEC2 - Advanced Excel

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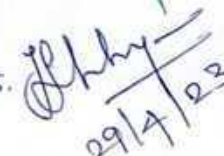
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**J.J College of Arts and Science (Autonomous), Pudukkottai – 622 422**  
**M.Sc. – Information Technology (Course Structure under CBCS)**  
**Proposed Course Structure based on UGC-LOCF and TANSCH**  
**(For the Candidates admitted from academic year 2023 – 2024)**

| Semester  | Paper Code                    | Course  | Title                                                                          | Instruct<br>Hours/<br>Week | credit    | Exam<br>Hours | Marks    |          | Total      |
|-----------|-------------------------------|---------|--------------------------------------------------------------------------------|----------------------------|-----------|---------------|----------|----------|------------|
|           |                               |         |                                                                                |                            |           |               | Internal | External |            |
| <b>I</b>  | P1R3ITCC1                     | CC - 1  | Advanced JAVA Programming                                                      | 5                          | 5         | 3             | 25       | 75       | 100        |
|           | P1R3ITCC2                     | CC - 2  | Cryptography and Network Security                                              | 5                          | 5         | 3             | 25       | 75       | 100        |
|           | P1R3ITCC3                     | CC - 3  | Design and Analysis of Algorithm                                               | 5                          | 5         | 3             | 25       | 75       | 100        |
|           | P1R3ITCC4P                    | CC - 4  | Advanced JAVA Practical                                                        | 5                          | 5         | 3             | 40       | 60       | 100        |
|           | P1R3ITCC5P                    | CC - 5  | Algorithm Practical                                                            | 5                          | 5         | 3             | 40       | 60       | 100        |
|           | P1R3ITDSE1:1/<br>P1R3ITDSE1:2 | DSE - 1 | <b>Discipline Specific Elective Course 1</b><br>(Taken from list of Electives) | 5                          | 3         | 3             | 25       | 75       | 100        |
|           |                               |         |                                                                                | <b>30</b>                  | <b>28</b> |               |          |          | <b>600</b> |
| <b>II</b> | P2R3ITCC6                     | CC - 6  | Advanced Web Technology                                                        | 5                          | 5         | 3             | 25       | 75       | 100        |
|           | P2R3ITCC7                     | CC - 7  | Distributed Operating System                                                   | 5                          | 5         | 3             | 25       | 75       | 100        |
|           | P2R3ITCC8                     | CC - 8  | Machine Learning                                                               | 5                          | 5         | 3             | 25       | 75       | 100        |
|           | P2R3ITCC9                     | CC - 9  | Advanced Database Management Systems                                           | 5                          | 5         | 3             | 25       | 75       | 100        |
|           | P2R3ITCC10P                   | CC - 10 | Advanced Web Technology Practical                                              | 5                          | 5         | 3             | 40       | 60       | 100        |
|           | P2R3ITDSE2:1/<br>P2R3ITDSE2:2 | DSE - 2 | <b>Discipline Specific Elective Course 2</b><br>(Taken from list of Electives) | 5                          | 3         | 3             | 25       | 75       | 100        |
|           |                               |         |                                                                                | <b>30</b>                  | <b>28</b> |               |          |          | <b>600</b> |

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| III                 | P3R3ITCC11                     | CC - 11 | Digital Image Processing                                               | 6  | 5  | 3 | 25 | 75 | 100  |
|                     | P3R3ITCC12                     | CC - 12 | Compiler Design                                                        | 6  | 5  | 3 | 25 | 75 | 100  |
|                     | P3R3ITCC13                     | CC - 13 | Internet of Things                                                     | 6  | 5  | 3 | 25 | 75 | 100  |
|                     | P3R3ITCC14P                    | CC - 14 | Image Processing Practical                                             | 6  | 5  | 3 | 40 | 60 | 100  |
|                     | P3R3ITSEC1:1/<br>P3R3ITSEC1:2/ | SEC - 1 | <b>Skill Enhancement Course 1</b><br>(Taken from list of Electives)    | 6  | 3  | 3 | 25 | 75 | 100  |
|                     |                                |         |                                                                        | 30 | 23 |   |    |    | 500  |
|                     | P4R3**GEC1                     | GEC - 1 | <b>Generic Elective Course 1</b><br>(Taken from other department list) | 6  | 3  | 3 | 25 | 75 | 100  |
| IV                  | P4R3ITCC15PW                   | CC - 15 | Project Work                                                           |    | 8  |   |    |    | 100  |
|                     |                                |         |                                                                        |    | 11 |   |    |    | 200  |
| TOTAL CREDITS/MARKS |                                |         |                                                                        |    | 90 |   |    |    | 1900 |

**Discipline Specific Elective Course 1:**

P1R3ITDSE1:1 - Cloud Computing

P1R3ITDSE1:2 - Advanced Computer Networks

**Discipline Specific Elective Course 2:**

P2R3ITDSE2:1 - Data Mining

P2R3ITDSE2:2 - Data Science and Big Data Analytics

**Skill Enhancement Elective Course**

P3R3ITSEC1:1 - Dot Net Programming

P3R3ITSEC1:2 - Soft Computing

**Generic Elective Course**

P4R3ITGEC1 - Web Services

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