

**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**

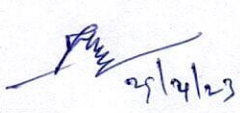
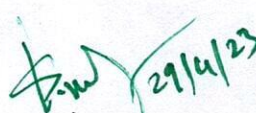
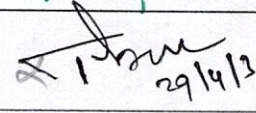

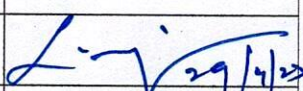
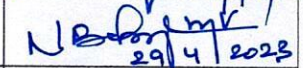
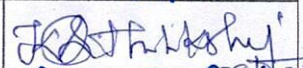
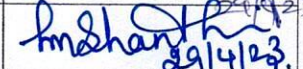
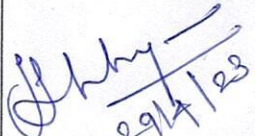
**Minutes of the Board of Studies in Information Technology**

**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.	<b>Dr. R.Manimaran</b>	<b>Chairman, Head,</b> Department of Information Technology, J.J.College of Arts and Science(Autonomous), Pudukkottai.	
2.	<b>Dr. K. Muthuramalingam</b>	<b>University Nominee, Assistant Professor</b> Department of Computer Science, Engineering and Computer Applications Bharathidasan University, Khaja malai campus, Tiruchirappalli – 23.	
3.	<b>Dr. T. Meyyappan</b>	<b>Subject Expert,</b> Professor, Department of Computer Science Alagappa University, Karaikudi – 630 003.	
4.	<b>Dr. G. Marimuthu</b>	<b>Subject Expert,</b> Assistant Professor and Head Department of Computer Science Yadava College (Autonomous) Thiruppalai, Madurai – 625 014	
5.	<b>Dr. S. Vasuki</b>	Member, Assistant Professor, Department of Information Technology	
6.	<b>Dr. N. Balajiraja</b>	Member, Assistant Professor, Department of Information Technology	
7.	<b>Ms. K.Seethalakshmi</b>	Member, Assistant Professor, Department of Information Technology	
8.	<b>Dr. PM.Shanthi</b>	Member, Assistant Professor, Department of Information Technology	
9.	<b>Ms. P.Susila</b>	Member, Assistant Professor, Department of Information Technology	Absent
10.	<b>Ms. G.Bhuvaneshwari</b>	<b>Corporate Member,</b> Module Leader, Mindtree Ltd., 140, Old Mahaballipuram Road Chennai – 600 113.	Absent
11.	<b>Dr. E.Elakkiya</b>	<b>Alumnus, Assistant Professor(Guest),</b> Department of Computer Science Government Arts College for Women, 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**E 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)E 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) 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.

1. *[Signature]*  
29/4/23

2. *[Signature]*

3. *[Signature]*  
29/4/23

4. *[Signature]*  
29/4/23

5. *[Signature]*  
29/4/23

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)

1.

*[Handwritten signature]*  
29/4/23

2. *[Handwritten signature]*

3. *[Handwritten signature]*  
29/4/23

4. *[Handwritten signature]*  
29/4/23

5. *[Handwritten signature]*  
29/4/23

**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)

1. *[Signature]*  
29/4/23

2. *[Signature]*

3. *[Signature]*  
29/4/23

4. *[Signature]*  
29/4/23

5. *[Signature]*  
29/4/23

**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)

1. *[Signature]*  
29/4/23

A.G. *[Signature]*  
29/4/23

2. *[Signature]*

5. *[Signature]*  
29/4/23

5. *[Signature]*  
29/4/23

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 / TANSCHÉ.

1.

*[Handwritten signature]*

2

*[Handwritten signature]*

4.

*[Handwritten signature]*  
29/4/23

5.

*[Handwritten signature]*  
29/4/23

3.  
*[Handwritten signature]*  
29/4/23

**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)**

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

1.

*[Signature]*  
25/12/23

2.

*[Signature]*

3. *[Signature]*  
29/12/23

4. A.

*[Signature]*  
29/12/23

5.

*[Signature]*  
29/12/23

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 Web Application Development	5	5	3	25	75	100
		U3R3ITCC6P	Core Course – 6 Web Practical	5	3	3	40	60	100
		U3R2ITDSE3:1/3:2	Elective Course – 3 Any one from the list	4	3	3	25	75	100
	IV	U3R3ITSEC4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based) PHP Programming	1	1	3	25	75	100
		U3R3ITSEC5P	Skill Enhancement Course -SEC-5 R Programming – Practical	2	2	3	40	60	100
		U3R3AECC3	Ability Enhancement Compulsory 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>
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 Module - <b>Industrial Statistics</b>	4	4	3	25	75	100
		U4R3ITCC8	Core Course – 8 Operating Systems	4	4	3	25	75	100
		U4R3ITDSE4:1/4:2	Elective Course 4 Python Programming -Theory and Practical [Theory:60 CIA:15 Ext:45] [Practical:40 CIA:10 Ext:30]	4	3	4(2+2)	40P	60T	100
	IV	U4R3ITSEC6	Skill Enhancement Course – 6 Internet of Things	2	2	3	25	75	100
		U4R3ITSEC7	Skill Enhancement Course – 7 Cloud Computing	2	2	3	25	75	100
		U4R3AECC4	AECC- Soft Skill-4 - Computing 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>

1.

A. C. 29/4/23

2.

5. 29/4/23

3.

I. 29/4/23

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

1.

*[Signature]*  
29/4/23

2.

*[Signature]*

3.

*[Signature]*  
29/4/23

*[Signature]*  
29/4/23

5. *[Signature]*  
29/4/23

**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

1. *[Signature]*  
2/2/23

2. *[Signature]*

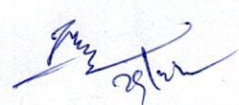

3. *[Signature]*  
29/4/23


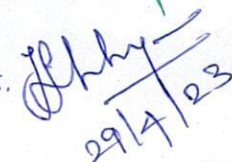
4. *[Signature]*  
2/2/23

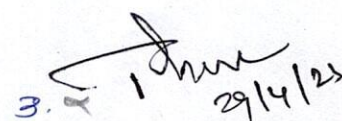
5. *[Signature]*  
29/4/23

**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 TANSCHÉ**  
**(For the Candidates admitted from academic year 2023 – 2024)**

Semester	Paper Code	Course	Title	Instruct Hours/ Week	credit	Exam Hours	Marks		Total
							Internal	External	
I	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/ P1R3ITDSE1:2	DSE - 1	<b>Discipline Specific Elective Course 1</b> (Taken from list of Electives)	5	3	3	25	75	100
				<b>30</b>	<b>28</b>				<b>600</b>
II	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/ P2R3ITDSE2:2	DSE - 2	<b>Discipline Specific Elective Course 2</b> (Taken from list of Electives)	5	3	3	25	75	100
				<b>30</b>	<b>28</b>				<b>600</b>

1.   
 4. 

2.   
 5. 

3. 

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/ P3R3ITSEC1:2/	SEC - 1	<b>Skill Enhancement Course 1</b> (Taken from list of Electives)	6	3	3	25	75	100
				<b>30</b>	<b>23</b>				<b>500</b>
	P4R3**GEC1	GEC - 1	<b>Generic Elective Course 1</b> (Taken from other department list)	6	3	3	25	75	100
IV	P4R3ITCC15PW	CC - 15	Project Work		8				100
					<b>11</b>				<b>200</b>
<b>TOTAL CREDITS/MARKS</b>					<b>90</b>				<b>1900</b>

**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

1. *[Signature]*  
29/4/23

2. *[Signature]*

3. *[Signature]*  
29/4/23

4. *[Signature]*  
29/4/23

5. *[Signature]*  
29/4/23