

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

Sivapuram Post, Pudukkottai – 622 422

(Re-Accredited by NAAC – 4th Cycle)

Affiliated to Bharathidasan University, Tiruchirappalli

Department of Information Technology

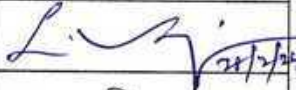
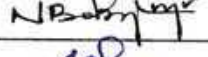
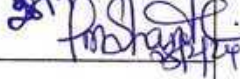
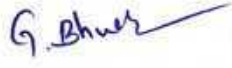
Minutes of the Board of Studies in Information Technology

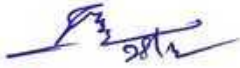
Meeting No: 10

Date: 28.02.2024 & Time: 03.00 p.m.

The Meeting of the Board of Studies in Information Technology (U.G. and P.G.) for the seventh revision of the curricula to be implemented from 2023-2024, was conducted at 03.00 p.m. on Wednesday, 28.02.2024.

Members List

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

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Minutes

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

1. In his notification No: 1616, dated 10.08.2021, the Chief Secretary, Department of Higher Education, Government of Tamil Nadu, has given the Autonomous Colleges, the freedom to retain / reframe their syllabi, Course Structure etc., in keeping with their perceptions on Institutional / local needs.
2. The College Council at its meeting held on 16.09.2023 resolved that our Institution will gratefully accept the academic freedom and empower the Boards of Studies either to retain or to reframe their Curriculum for various Programmes under CBCS and UGC- LOCF.
3. However, the Course Structure for the U.G.& P.G. programmes at Institutional level will have to follow a uniform pattern with minor variations depending on the discipline specific needs.
4. It is Resolved to modify and follow a total of 43 courses, 4300 marks and 141 credits for the U.G. Programmes and 21 courses, 2100 marks and 90 credits for the P.G. Programmes.

Distribution of Courses - U.G.

Sl.No.	Part	Courses	No. of Courses	No. of Credits	Marks
1.	I	Language Courses	4	12	400
2.	II	English Courses	4	12	400
3.	III	Core Courses	8	37	800
4.		Core Practical	6	28	600
5.		Project Work	1	04	100
6.		Discipline Specific Elective Courses	8	24	800
7.	IV	Internship	1	02	100
8.		Skill Enhancement Courses	7	14	700
9.		Value Education	1	02	100
10.		Environmental Studies	1	02	100
11.		Foundation Course	1	02	100
12.	V	Gender Studies	1	01	100
13.		Extension Activity	-	01	-
Total			43	141	4300

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Distribution of Courses - P.G.

Sl.No.	Types of the Courses	No. of Courses	No. of Credits	Marks
1.	Core Courses	12	58	1200
2.	Project Work	01	10	100
3.	Discipline Specific Elective Courses	05	15	500
4.	Internship	01	03	100
5.	Skill Enhancement Courses	02	04	200
Total		21	90	2100

5. The Revised Syllabus has been implemented from the Academic Year 2023 – 2024 onwards. In the previous Boards of Studies meeting, the Syllabus for first two Semesters have been passed. Now in the light of the Government Communication, cited in Point No. 1, the Chairman of the Boards of Studies have introduced some changes in the Syllabus for Semester I and Semester II. Such modifications are approved and passed by this Board.
6. The Course Structure mentioned in Point No: 4 for U.G.& P.G. Programmes have already been approved and passed by the Boards of studies in Information Technology
7. In the present revision and modification, the General instructions on Curriculum Design, Course Structure, Uniformity of standards etc., given by the UGC - LOCF, AICTE, NAAC, TANSCH and the Parent University have been scrupulously followed.
8. Following the suggestion given by the Honorable members of the Academic Council in its last meeting, a course on Gender Studies has been included.
9. Resolved to include various online courses like SWAYAM - MOOCs with extra credits. The credits thus earned will be reflected in the Cumulative Mark Statement of the students.
10. Resolved to continue offering Value Added Courses.
11. Resolved to have the following 15 Core Courses for B.Sc. I.T. Semester wise as follows

SEMESTER I

1. Programming in C (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 Programming and Data Structures Practical (It is the Core Course of previous curriculum but the unit contents are changed)

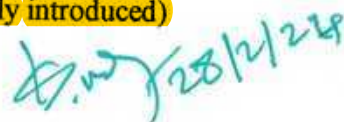
SEMESTER III

1. Data Structures and Algorithms (Retained as it is)
2. Algorithm Practical (This Core Course is newly introduced)

SEMESTER IV

1. Operating Systems (This Core Course is newly introduced)
2. OS Practical (This Core Course is newly introduced)

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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. **Microprocessor (This Core Course is newly introduced)**
4. DBMS Practical (It is the course of previous curriculum Retained as it is)

SEMESTER VI

1. PHP Programming (Retained as it is)
2. PHP Programming Practical (Retained as it is)
3. Project Work (Retained as it is)

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

SEMESTER I DSE -1

1. **Numerical Methods (This Core Course is newly introduced)**
2. Multimedia Systems (Retained as it is)

SEMESTER II DSE -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 DSE -3

1. **Web Application Development (This Core Course is newly introduced)**
Software Testing (This course is newly introduced)

SEMESTER IV DSE -4

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

SEMESTER V DSE -5

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

DSE -6

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

SEMESTER VI DSE -7

1. Software Engineering (Retained as it is)
2. **Artificial Intelligence (This course is newly introduced)**

DSE -8

1. **Big Data Analytics (This course is newly introduced)**
2. **Image Processing (This course is newly introduced)**
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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)

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SEMESTER III

SEC 4

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

SEMESTER IV

SEC 5

1. Python Programming Practical (This course is newly introduced)
2. Visual Programming Practical (This course is newly introduced)

SEC 6

1. Visual Programming (This course is newly introduced)
2. ASP Programming (This course is newly introduced)

SEMESTER VI

SEC 7

1. Ruby Programming (This course is newly introduced)
2. Cloud Computing (This course is newly introduced)

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

SEMESTER I

1. Foundation Course – Fundamentals of Computers (This course is newly introduced)

SEMESTER III

1. Value Education (Retained as it is)

SEMESTER IV

1. Environmental Studies (Retained as it is)

SEMESTER V

1. Internship (This course is newly introduced)

SEMESTER VI

1. Gender Studies (Retained as it is)

15. Resolved to have the following 13 Core Courses for M.Sc. I.T. semester wise

SEMESTER I

1. Python Programming (Newly introduced)
2. Python Programming - Practical (Newly introduced)
3. Web Development using Word Press -Practical (Newly introduced)

SEMESTER II

1. Database Systems (Retained as it is)
2. RDBMS Lab (Newly introduced)
3. Open Source Technologies-Practical (Newly introduced)

SEMESTER III

1. Advance Java (Retained as it is)
2. Dot Net with C# Programming (Retained as it is)
3. Advance Java-Practical (Retained as it is)
4. Dot Net with C# Programming Practical (Retained as it is)

SEMESTER IV

1. Data Science and Big Data Analytics (Newly Introduced)
2. Software Project Management (Retained as it is)
3. Project Work (Retained as it is)

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16. Resolved to have the following Discipline Specific Elective Courses M.Sc. I.T. Semester wise.

SEMESTER I

Group A:

1. Networks and Security (Retained as it is)
2. Principles of Compiler Design (Retained as it is)

Group B:

1. Object oriented analysis and design (Newly introduced)
2. Pervasive Computing (Newly introduced)

SEMESTER II

Group C:

1. Digital Image Processing (Retained as it is)
2. Biometric Techniques (Newly introduced)

Group D:

1. Operating Systems (Retained as it is)
2. Human Computer Interaction (Newly introduced)

SEMESTER III

Group E:

1. Internet of Things (Retained as it is)
2. Grid Computing (Newly introduced)

17. Resolved to have the following Skill Enhancement Courses for M.Sc. I.T.

Skill Enhancement Courses (SEC):

SEMESTER II

1. Web Design (Newly introduced)

SEMESTER III – SEC Group

1. Animation in Flash (Newly introduced)
2. Grid Computing (Newly introduced)

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B.Sc. – Information Technology (Course Structure under CBCS)
Proposed Course Structure based on TANSCH 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 Mark
							Int.	Ext	
I	I	U1R3TL1	Language Course – I	6	3	3	25	75	100
	II	U1R3EL1	English Language Course – I	6	3	3	25	75	100
	III	U1R3ITCC1	Core Course – 1 Programming in C	5	5	3	25	75	100
		U1R3ITCC2P	Core Course – 2 C Programming Practical	5	5	3	40	60	100
		U1R3ITDSE1:1/1:2	Elective – 1 Numerical Methods/ Multimedia Systems	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- Fundamentals of Computers	2	2	3	25	75	100
	TOTAL			30	23	-	-	-	700
II	I	U2R3TL2	Language - I (Tamil/Hindi/French)	6	3	3	25	75	100
	II	U2R3EL2	Language - II (English)	6	3	3	25	75	100
	III	U2R3ITCC3	JAVA Programming	5	5	3	25	75	100
		U2R3ITCC4P	Practical II - JAVA Programming and Data Structures Practical	5	5	3	40	60	100
		U2R3ITDSE 2:1/ 2:2	Digital Logic Fundamentals / Discrete Structures	4	3	3	25	75	100
	IV	U2R3ITSEC2 (NME2)	To be opted from other Department	2	2	3	25	75	100
		U2R3ITSEC3	Quantitative Aptitude	2	2	3	25	75	100
	TOTAL			30	23	-	-	-	700

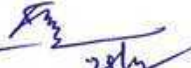
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III	I	U3R3TL3	Language Course – III	6	3	3	25	75	100
	II	U3R3EL3	English Language Course- III	6	3	3	25	75	100
	III	U3R3ITCC5	Core Course – 5 Data Structures and Algorithms	5	5	3	25	75	100
		U3R3ITCC6P	Core Course – 6 Algorithm Practical	5	5	3	40	60	100
		U3R3ITDSE 3:1 /3:2	Elective Course – 3 Web Application Development / Software Testing	4	3	3	25	75	100
	IV	U3R3ITSEC 4:1P/ 4:2P	Skill Enhancement Course -4 Web Practical / R Programming Practical	2	2	3	40	60	100
		U3R3VE	Value Education	2	2	3	25	75	100
TOTAL				30	23	-	-	-	700
IV	I	U4R3TL4	Language Course – IV	5	3	3	25	75	100
	II	U4R3EL4	English Language – IV	5	3	3	25	75	100
	III	U4R3ITCC7	Core Course 7 – Operating Systems	5	5	3	25	75	100
		U4R3ITCC8P	Core Course – 8 OS – Practical	5	5	3	40	60	100
		U4R3ITDSE 4:1 /4:2	Elective Course 4 Python Programming / E – Commerce	4	3	3	25	75	100
	IV	U4R3ITSEC 5:1P/5:2P	Skill Enhancement Course – 5 Python Programming Practical/ Visual Programming Practical	2	2	3	40	60	100
		U4R3ITSEC 6:1/6:2	Skill Enhancement Course – 6 Visual Programming/ ASP Programming	2	2	3	25	75	100
		U4R3ES	Environmental Studies(EVS)	2	2	3	25	75	100
TOTAL				30	25	-	-	-	800
V	III	U5R3ITCC9	Core Course – 9 Computer Networks	5	5	3	25	75	100
		U5R3ITCC10	Core Course – 10 Database Management Systems	5	4	3	25	75	100
		U5R3ITCC11	Core Course – 11 Microprocessor	5	4	3	25	75	100
		U5R3ITCC12P	Core Course – 12 DBMS Practical	5	4	3	40	60	100

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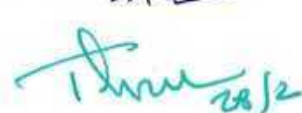
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		U5R3ITDSE 5:1/ 5:2	Elective Course - 5 Data Mining and Warehousing / Information Security	5	3	3	25	75	100
		U5R3ITDSE 6:1 /6:2	Elective Course - 6 Introduction to Data Science / System Administration and Maintenance	5	3	3	25	75	100
	IV	U5R3ITINT	Internship (Carried out in II Year Summer vacation)	-	2	-	-	-	100
TOTAL				30	25	-	-	-	700
VI	III	U6R3ITCC13	Core Course – 13 PHP Programming	5	4	3	25	75	100
		U6R3ITCC14P	Core Course – 14 PHP Programming Practical	5	4	3	40	60	100
		U6R3ITCC15PW	Core Course – 15 Project work	6	4	-	-	-	100
		U6R3ITDSE 7:1 /7:2	Elective Course - 7 Software Engineering/ Artificial Intelligence	5	3	3	25	75	100
		U6R3ITDSE 8:1 /8:2	Elective Course - 8 Big Data Analytics / Image Processing	5	3	3	25	75	100
	IV	U6R3ITSEC 7:1/7:2	Skill Enhancement Course – 8 Ruby Programming/ Cloud Computing	2	2	3	25	75	100
	V	U6R3GS	Gender Studies	2	1	3	25	75	100
TOTAL				30	22	-	-	-	700
MOOC Online Course					(04)				
Grand Total				141(04)					4300

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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 TANSCHHE and UGC-LOCF

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

Sem.	Paper Code	Title	Instruct Hours/ Week	credi	Exam Hours	Marks		Total
						Int.	Ext.	
I	P1R3ITCC1	Python Programming	7	5	3	25	75	100
	P1R3ITCC2P	Python Programming – Practical	7	5	3	40	60	100
	P1R3ITCC3P	Web Development using Word Press– Practical	6	4	3	40	60	100
	P1R3ITDSE1:1/ P1R3ITDSE1:2	Networks and Security/ Principles of Compiler Design	5	3	3	25	75	100
	P1R3ITDSE2:1/ P1R3ITDSE2:2	Object oriented analysis and design/ Pervasive Computing	5	3	3	25	75	100
Total			30	20				500
II	P2R3ITCC4	Database Systems	6	5	3	25	75	100
	P2R3ITCC5P	Practical III - RDBMS Lab	6	5	3	40	60	100
	P2R3ITCC6P	Practical IV - Open Source Technologies - Practical	6	4	3	40	60	100
	P2R3ITDSE3:1/ P2R3ITDSE3:2	Digital Image Processing/ Biometric Techniques	4	3	3	25	75	100
	P2R3ITDSE4:1/ P2R3ITDSE4:2	Operating Systems / Human Computer Interaction	4	3	3	25	75	100
	P2R3ITSEC1	Web Design	4	2	3	25	75	100
Total			30	22				600

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Sem.	Paper Code	Title	Instruct Hours/ Week	credi	Exam Hours	Marks		Total
						Int.	Ext.	
III	P3R3ITCC7	Advanced JAVA	5	5	3	25	75	100
	P3R3ITCC8	Dot Net with C# Programming	5	5	3	25	75	100
	P3R3ITCC9P	Advanced JAVA – Practical	6	5	3	40	60	100
	P3R3ITCC10P	Dot Net with C# Programming Practical	6	5	3	40	60	100
	P3R3ITDSE5:1/ P3R3ITDSE5:2	Discipline Specific Elective Course 5 Internet of Things / Trends in Computing	5	3	3	25	75	100
	P3R3ITSEC2:1/ P3R3ITSEC2:2	Skill Enhancement Course 2 Animation in Flash/ Grid Computing	3	2	3	25	75	100
	P3R3ITINT	Internship	-	3	-	-	-	100
Total			30	28				700
IV	P4R3ITCC11	Data Science and Big Data Analytics	15	5	3	25	75	100
	P4R3ITCC12	Software Project Management	15	5	3	25	75	100
	P4R3ITCC13PW	Project work	-	10	3	-	-	100
Total			30	20	-	-	-	300
MOOC Online Course				04				
Grand Total			-	90(0 4)	-	-	-	2100

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