

J.J.COLLEGE OF ARTS AND SCIENCE (Autonomous)

(Re-Accredited by NAAC with 'B++' Grade – Fourth Cycle)

(Affiliated to Bharathidasan University)

Sivapuram Post, Pudukkottai.

DEPARTMENT OF COMPUTER APPLICATIONS

BOARD OF STUDIES IN COMPUTER APPLICATIONS

AGENDA

Date : 05.05.2023

Time : 11.30 a.m.

Meeting No. : 09

Venue : Dept. of Computer Applications

1. Welcome Address & Outline of the meeting - Chairman
2. Self-Introduction of the Members
3. Presenting the proposed curriculum - Chairman
4. Discussion & Suggestions by the members
5. Passing of the finalized Resolutions
6. Vote of Thanks - Ms.J.Neela

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DEPARTMENT OF COMPUTER APPLICATIONS

MINUTES OF BOARD OF STUDIES IN COMPUTER APPLICATIONS

Meeting No. : 09 **Venue : Dept of Comp. Appls., J.J.C**

Date : 05.05.2023 **Time : 11.30 a.m.**

Members

1. Dr.S.J.Sathish Aaron Joseph M.Sc.,P.G.D.E-Com.,M.Phil.,B.Ed.,Ph.D. - Chairman

Head, Department of Computer Applications

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

2. Dr.E.George Dharma Prakash Raj M.Sc.,M.Phil.,Ph.D. - Univ. Nominee

Associate Professor

School of Computer Science, Engineering and Applications

Bharathidasan University, Khajamalai Campus, Tiruchirappalli – 620 023.

Mobile: 9443191790. **E-Mail:** georgeprakashraj@bdu.ac.in

3. Dr.S.Santhosh Kumar, M.Sc., M.Phil..M.Tech., Ph.D. – Subject Expert

Assistant Professor, Department of Computer Science

Alagappa University, Karaikudi – 630 003.

Mobile: 9443191278. **E-Mail:** santhoshkumars@alagappauniversity.ac.in

4. Dr.A.Nagarajan, M.C.A.,M.Phil.,Ph.D.. - Subject Expert

Assistant Professor, Department of Computer Application

Alagappa University, Karaikudi – 630 003.

Mobile: 9842837347. **E-Mail:** nagarajana@alagappauniversity.ac.in

5. Ms.J.Neela Saraswathi M.C.A.,M.Phil.,SET. - Faculty Member

Assistant Professor, Dept. of Comp. Appls.

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

6. Mr.S.Anthonisamy M.C.A.,M.Phil.M.Sc. - **Faculty Member**
Assistant Professor, Dept. of Comp. Appls.
J.J.College of Arts and Science (Autonomous), Pudukkottai.
7. Dr.K.Selvan M.C.A.,M.Phil.,Ph.D.SET. - **Faculty Member**
Assistant Professor, Dept. of Comp. Appls.
J.J.College of Arts and Science (Autonomous), Pudukkottai.
8. Ms.A.Maria Stella M.S (IT&M),M.Phil.,SET. - **Faculty Member**
Assistant Professor, Dept. of Comp. Appls.
J.J.College of Arts and Science (Autonomous), Pudukkottai.
9. Mr.B.Ramasubramanian (M09CA123) M.C.A. - **Corporate Member**
Technology Lead, Delivery - ADM
Infosys Limited, Techno Park SEZ2 Mahindra World City
Chengalpet, Kancheepuram District.
Mobile: 9791389405 **E-Mail:** ramasubramanian.b@infosys.com
10. Ms.P.Nandhini M.C.A. (P18CA1006) - **Alumnus**
Software Intern
Fyndus Infotech Private Limited
11, Navalar Nagar 3rd Street
Madurai – 625 016.
Mobile: 9789731276 **E-Mail:** nandhini.paulmurugan@gmail.com

As part of our Autonomy, the Curricula for all Programme have to be revised once in every three years. Though the Previous Revision was done on 28.04.2022, this Revision is mandatory as per the communication received from TANSCH and the Parent University to follow Model Syllabus throughout the State from 2023 – 2024 onwards. Accordingly, the Curriculum is to be revised and implemented for the **B.C.A. - 03 Year Programme only** from the ensuing Academic Year 2023 – 2024 onwards. For **M.C.A - 02 Year Programme** Syllabus will be drafted in the next Board of Studies meeting.

Hence, this meeting is called for.

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Resolutions of the BOS in Computer Applications

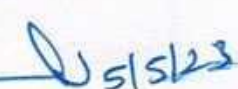
The Ninth Board of Studies Meeting of the Department of **COMPUTER APPLICATIONS** was held on **05.05.2023** at **11.30 a.m.** in the Department.

The following resolutions were proposed, discussed, finalized and passed in the Board of studies meeting of Computer Applications for the **B.C.A. – 03 Year Programme** which is to be implemented from the ensuing Academic year 2023 – 2024 onwards, pertaining to the approval from the Academic Council of the college.

General Resolutions

1. Generally, the syllabi of our College is revised once in every 03 years but as per the instructions from TANSCHÉ and the Parent University, this revision becomes necessary.
2. 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 (TANSCHÉ) and the Parent University.
3. The Board also evaluated the results (November - 2022) of the previous Syllabus followed during the Academic Year 2022 – 2023 based on the first Semester Results.
4. The Board also analyzed the previous Curriculum based on the feedback received from the Students and the Teachers.
5. It is resolved to continue with use of Course Terms as per the **UGC – LOCF** guidelines,
 - Domain / Discipline Specific Elective (**DSE**)
 - Skill Enhancement Course (**SEC**)
 - Generic Elective Course (**GEC**)

1. 
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- Ability Enhancement Compulsory Course (AECC)
 - Non Major Elective (NME)
6. Resolved to follow a total of **46 Courses, 4600 Marks and 140 Credits** each for the **B.C.A. Programme.**
 7. Resolved to follow the Examination System and Evaluation Process prepared by the Examination Committee.

Resolutions pertaining to B.C.A. Programme

8. Resolved to offer **04 Language courses under Part – I**, for which the Course title and syllabi is drafted and passed by the BoS in Tamil.
9. Resolved to offer **04 English Language courses under Part – II**, for which the Course title and syllabi is drafted and passed by the BoS in English.
10. Resolved to offer the following **15 Core Courses** which is listed **below** Semester wise,

Semester - I

1. Object oriented Programming Concept using C++ – **Newly Introduced**
2. C++ Programming Practical – **Newly Introduced**

Semester - II

3. Python Programming – **Retained**
4. Python Programming Practical – **Retained**

Semester – III

5. Data Structures and Algorithms – **Newly Introduced**
6. Data Structures and Algorithms Practical – **Newly Introduced**

Semester – IV

7. .Net Programming – **Newly Introduced**
8. .Net Programming Practical – **Newly Introduced**

Semester – V

9. Operating Systems – **Retained**
10. Java Programming – **Retained with Title Change**

- | | | |
|--------------------------------|---|----------------------------|
| 11. Database Management System | - | Retained with Title Change |
| 12. Java Programming Practical | - | Retained with Title Change |

Semester – VI

- | | | |
|--|---|------------------|
| 13. R Programming | - | Newly Introduced |
| 14. Open Source Software technologies/Computer Networks/MiniProject - Project Retained | | |
| 15. R Programming Practical | - | Newly Introduced |

11. Resolved to offer the following 08 Domain / Discipline Specific Elective (DSE)

(01 from each set is to be selected - DSE1, DSE2, DSE3, DSE4, DSE5, DSE6, DSE7 and DSE8 in Semester I, II, III, IV, V, V, VI and VI respectively)

DSE 01

- | | | |
|------------------------|---|------------------|
| 1: 1 Multimedia System | - | Newly Introduced |
| 1: 2 Biometrics | - | Newly Introduced |
| 1: 3 E-Commerce | - | Retained |

DSE2:

- | | | |
|--------------------------------|---|------------------|
| 2:1 Cyber Forensics | - | Newly Introduced |
| 2:2 Information Security | - | Newly Introduced |
| 2:3 Human Computer Interaction | - | Newly Introduced |

DSE3:

- | | | |
|-----------------------------|---|------------------|
| 3:1 Fuzzy Logic | - | Newly Introduced |
| 3:2 ERP | - | Newly Introduced |
| 3:3 Artificial Intelligence | - | Newly Introduced |

DSE4:

- | | | |
|------------------------|---|------------------|
| 4:1 Software Testing | - | Newly Introduced |
| 4:2 Image Processing | - | Newly Introduced |
| 4:3 Big Data Analytics | - | Newly Introduced |

DSE5:

- | | | |
|----------------------------------|---|------------------|
| 5:1 Artificial Neural Network | - | Newly Introduced |
| 5:2 Pattern Recognition | - | Newly Introduced |
| 5:3 Introduction to Data Science | - | Newly Introduced |
| 5:4 Operation Research | - | Newly Introduced |

DSE6:

- | | | |
|------------------------------|---|------------------|
| 6:1 Cloud Computing | - | Retained |
| 6:2 Agile Project Management | - | Newly Introduced |
| 6:3 Simulation and Modeling | - | Newly Introduced |

DSE7:

- | | | |
|---------------------------------|---|------------------|
| 7:1 Data mining and Warehousing | - | Retained |
| 7:2 Network Security | - | Newly Introduced |
| 7:3 Robotics | - | Newly Introduced |

DSE8:

- | | | |
|--------------------------------|---|------------------|
| 8:1 Mobile Adhoc Network | - | Newly Introduced |
| 8:2 Computational Intelligence | - | Newly Introduced |
| 8:3 Grid Computing | - | Newly Introduced |

(Or)

Resolved to offer the following **02 Allied - Domain / Discipline NON Specific Elective**

(01 from each set is to be selected - DSE1, DSE2, DSE3, DSE4, DSE5. DSE6, DSE7 and DSE8 in Semester I, II, III, IV, V, V, VI and VI respectively)

DNSE 01 – To be either selected in Semester I or III

- | | | |
|---|---|------------------|
| 1: 1 Allied Mathematics - I | - | Newly Introduced |
| 1: 2 Statistical Methods and its Applications | - | Newly Introduced |
| 1: 3 Financial Accounting | - | Retained |

DNSE 02 – To be either selected in Semester I or III

- | | | |
|--|---|------------------|
| 2: 1 Allied Mathematics - II | - | Newly Introduced |
| 2: 2 Statistical Methods and its Applications - II | - | Newly Introduced |
| 2: 3 Cost and Management Accounting | - | Newly Introduced |

12. Resolved to follow the **08 Skill Enhancement Courses - SEC1** – from other Department – Semester I, **SEC2** – from other Department – Semester II, **SEC3** – From the Parent Department – Semester II, **SEC4** – Entrepreneurial Based – Semester III, **SEC5** – From Parent Department – Semester III, **SEC6** – From Parent Department – Semester IV, **SEC7** – From Parent Department – Semester IV, **SEC8** – Professional Competency Skills – Semester VI (Competitive Examinations).

13. Resolved to offer the following **Ability Enhancement Compulsory Course (AECC)** under **Part - IV**

- Soft Skill I - in the First Semester – Syllabus Passed in BoS of English
- Soft Skill II - in the Second Semester – Syllabus Passed in BoS of Business Administration
- Soft Skill III - in the Third Semester – Syllabus Passed in the Parent Department
- Soft Skill IV - in the Fourth Semester – Syllabus Passed in BoS of Computer Applications

14. Resolved to offer the following **Foundation Course (FC)** under **Part – IV**

- Foundation Course - First Semester
- Environmental Studies - Non Sitting in Third Semester & Examination in Fourth Semester
- Value Education - in the Fifth Semester

15. Resolved to offer **Internship** – To be done during the summer vacation (for a period of 15 Days) of Fourth Semester and the Report should be evaluated and credits to be awarded in the Fifth Semester.

16. Resolved to offer the **Extension activity** under **Part – IV** with no Contact Hours.

17. Students to be motivated to do concurrent Online Courses in various Platforms like SWAYAM/MOOCs – Those Credits can be included as **EXTRA CREDITS** in the students Cumulative Mark Statement.

1. Computer Skill Development Course	-	Retained
2. Internet Skill Development Course	-	Retained
3. Computer Applications in Chemistry	-	Retained

20. It is resolved to convene a Board of Studies meetings in the coming days (if the need arises) to incorporate the modifications / updation in the Curriculum based on the communication from the TANSCHÉ / Parent University.

(Applicable for the candidates admitted during the Academic year 2023 - 2024)

Sem	Part	Course code	Course Title	Hrs / Week	Credit	Exam Hours	Marks		Total Marks
							CIA Ext		
	I	U1R3TL1/ HL1/FL1	Language Course – I	6	3	3	25	75	100
	II	U1R3EL1	English Language course – I	4	3	3	25	75	100
	III	U1R3CACC1	Object Oriented Programming concepts using C++	5	4	3	25	75	100
		U1R3CACC2P	C++ Programming Practical	5	4	3	25	75	100

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I		U1R3CADSE1	Elective – Discipline Specific Elective- I [Any One] a) Multimedia Systems b)Biometrics c) E-Commerce Allied – Discipline Non-Specific Elective- I [Any One] d)Allied mathematics-I e)Statistical methods and its Applications-I f) Financial Accounting	4	3	3	25	75	100
	IV	U1R3CASEC1	Skill Enhancement Course SEC – 1 (NME) [Any One] To be opted from other department	2	2	3	25	75	100
		U1R3AECC1	Ability Enhancement Compulsory Course (AECC) Soft Skill – 1	2	2	3	25	75	100
			U1R3CAFC	Foundation Course	2	2	3	25	75
Total				30	23				800
	I	U2R3TL2/HL2/FL2	Language Course – II	6	3	3	25	75	100
	II	U2R3EL2	English Language course – II	4	3	3	25	75	100
	III	U2R3CACC3	Python programming	6	4	3	25	75	100
		U2R3CACC4P	Python Programming Practical	4	4	3	25	75	100
		U2R3CADSE2	Elective – Discipline Specific Elective – II [Any One] a) Cyber Forensics	4	3	3	25	75	100

			Allied – Discipline Non-Specific Elective- I [Any One] d)Allied mathematics-II e)Statistical methods and its Applications-II f) Cost and Management Accounting						
	IV	U4R3CASEC6	Skill Enhancement Course - 6	2	2	3	25	75	100
		U4R3CASEC7	Skill Enhancement Course – 7	2	2	3	25	75	100
		U4R3AECC4	Ability Enhancement Compulsory Course(AECC) Soft Skill-4	2	2	3	25	75	100
		U4R3ES	Environmental Studies	1	2	3	25	75	100
Total				30	25				900
V	III	U5R3CACC9	Operating Systems	5	4	3	25	75	100
		U5R3CACC10	Java Programming	5	4	3	25	75	100
		U5R3CACC11	Database Management System	5	4	3	25	75	100
		U5R3CACC12P	Java Programming Practical	5	4	3	25	75	100
		U5R3CADSE5:1/ 5:2/5:3	Elective- Discipline Specific Elective – V [Any One] a) Artificial Neural Network b) Pattern Recognition c) Introduction to Data Science d) Operation Research	4	3	3	25	75	100
		U5R3CADSE6:1/ 6:2/6:3	Elective- Discipline Specific Elective – VI [Any One] a)Cloud computing b)Agile Project	4	3	3	25	75	100

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IV		Management c)Simulation and Modeling						
	U5R3VE	Value Education	2	2	3	25	75	100
	U5R3CAINT	* Internship	-	2	-	-	-	-
		Total	30	26				700

***Internship can be done during 4th semester vacation[15 Days]**

U6R3CACC13	R Programming	6	4	3	25	75	100
U6R3CACC14	Open Source Software Technologies / Computer Networks / Mini Project	6	4	3	25	75	100
U6R3CACC15P	R Programming Practical	6	4	3	25	75	100
U6R3CADSE7:1/ 7:2/7:3	Elective- Discipline Specific Elective – VII [Any One] a)Data Mining and Warehousing b)Network Security c)Robotics	5	3	3	25	75	100
U6R3CADSE8:1/ 8:2/8:3	Elective- Discipline Specific Elective – VIII [Any One] a)Mobile Adhoc Network b)Computational Intelligence c)Grid Computing	5	3	3	25	75	100
U6R3CASEC8	Professional Competency Skill	2	2	3	25	75	100

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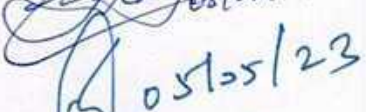
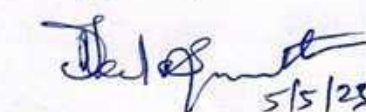
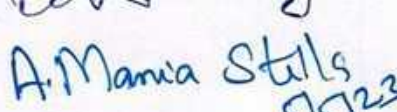
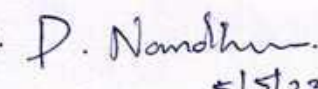
			[Competitive Examinations]						
	IV		Extension Activities	-	1	-	-	-	---
			Extra Credit Online Course – MOOCS	-	-	-	-	-	---
			Total	30	21				600
			Grand Total		140				4600

Generic Elective Courses

Generic Elective Courses (Offered by the Department)

1. Computer Skill Development Course
2. Internet Skill Development Course
3. Computer Applications in Chemistry

SIGNATURE OF THE MEMBERS:

1.  5/5/23 - Dr.S.J.Sathish Aaron Joseph - (Chairman)
2.  5/5/23 - Dr.E.George Dharma Prakash Raj - (Univ. Nominee)
3.  5/5/23 - Dr.S.Santhoshkumar - (Subject Expert)
4.  5/5/23 - Dr.A.Nagarajan - (Subject Expert)
5.  5/5/23 - Ms.J.Neela Saraswathi - (Faculty Member)
6.  5/5/23 - Mr.S.Anthonisamy - (Faculty Member)
7.  - Dr.K.Selvan - (Faculty Member)
8.  5/5/23 - Ms.A.Mariastella - (Faculty Member)
9. NOT PRESENT - Mr. R.Ramasubramanian - (Corporate Member)
10.  5/5/23 - Ms.P.Nandhini - (Alumnus)