

**HINDUSTHAN COLLEGE OF ARTS AND SCIENCE (Autonomous)**  
**Coimbatore-641 028**  
**CONTROLLER OF EXAMINATIONS**










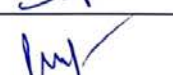

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**BOARD OF STUDIES MEETING in COMPUTER SCIENCE**  
**(B.Sc. CS & M.Sc. CS)**  
**(For the Academic year 2022-23)**  
**Attendance Report**

Date: 14.07.2022

Time: 10:30 AM

Programme: B.Sc. CS & M.Sc. CS

	Name	Designation	Signature
<b>Chairman</b>	Dr.Rangaraj R	Professor & Head	
<b>Members (Internal)</b>	1. Mrs.T.Seeniselvi	Associate Professor	
	2. Dr.K.Jeyalakshmi	Professor	
	3 .Dr.A.Prakash	Professor	
	4 .Dr. S.Sasikala	Asst. Professor	
	5. Dr.M.Selvapriya	Asst. Professor	
	6. Mrs.B.Yazhini	Asst. Professor	
	7. Mr.G.Ravishankar	Asst. Professor	
	8 . Mrs.S.Lakshmi priya	Asst. Professor	
	9. Dr. V. Sangeetha	Asst. Professor	
	10. Dr. V Deepa	Asst. Professor	
<b>External (Subject Expert)</b>	Dr. D. Francis Xavier Christopher, Director	Principal SRM Trichy Arts & Science College Mobile No:8883847551 Email: principal@asc.srmtrichy.edu.in	<i>Leave of Absence</i>

<b>External (Subject Expert)</b>	Dr.A.Malathi, Assistant Professor	PG and Research Department of Computer Science, Government Arts College, Coimbatore-641018 Mobile:9942526000 Email:prof.malathi@gmail.com	
<b>Industrial expert</b>	<b>Mr.RameshRajamani</b>	Realiti.io Co-Founder & CTO, 127,2nd floor,West Sambhandham Road, RS Puram,Coimbatore - 641002, Mobile: 9500056756, Email: ramesh.rajamani@gmail.com	
<b>Industrial expert</b>	<b>Mrs.T Vidhya Sri</b>	Director – Institute Relational and HR Adroit Technologies Innovative Solutions Pvt Ltd IBM Business Partner 12/22A,Poompukar Nagar, Near SGA Cars, Avinashi Road, Civil Aerodrome Post, Coimbatore-641014 Mobile:9715676366 Email: hr@adroittechnologies.in	T. Vidya S. 14/7/22
<b>Alumni</b>	Sheik Shahul Hameed	Senior Manager-Partner Relations, Indium Software Ganesh Chambers,Old No 243,New No 64 Eldams Road,Chennai-600018, Mobile: 9843609333 Email: <u>Sheik.185@gmail.com</u>	
<b>University Nominee</b>	Dr.M.Punithavalli	Professor, Dept.of Computer Applications, Bharathiar University, Coimbatore-641046 Mobile:9843281552 Email: punithavalli@buc.edu.in	

The following resolutions were made in the BOARD OF STUDIES meeting held on 14.07.2022 at 10.30am in the Department of Computer Science (B.Sc. CS & M.Sc. CS) through offline mode.

1. The Syllabi of V & VI semester of the UG (B.Sc. CS) programme for the students admitted during the academic year 2020-2021 and onwards were approved.
2. The Syllabi of III & IV semester of the UG (B.Sc. CS) programme for the students admitted during the academic year 2021-2022 and onwards were approved.
3. The Syllabi of I & II semester of the UG (B.Sc. CS) programme for the students admitted during the academic year 2022-2023 and onwards were approved.
4. The Scheme of Examination of the Choice Based Credit System (CBCS) and Learning Outcomes based Curriculum Framework (LOCF) for various courses and if the students who are all completed the NPTEL courses before Semester – V, they can avail exemption from appearing exams of DSE-III & DSE – IV in FAST TRACK SYSTEM were discussed and resolved for the UG (B.Sc. CS) Students admitted from the academic year 2022-2023 and onwards.
5. The BOS of Department of Computer Science discussed and resolved to update the syllabus of B.Sc. CS - Programming with C (22CEU01) for the students admitted in the academic year 2022– 2023 and onwards.
6. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of B.Sc. CS – Computer System Architecture (22CEU02) for the students admitted in the academic year 2022– 2023 and onwards.
7. The BOS of Department of Computer Science discussed and resolved to update the syllabus of B.Sc. CS – Practical – I: Programming using C (22CEU03) for the students admitted in the academic year 2022– 2023 and onwards.
8. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of B.Sc. CS – Data Structures and Algorithms (22CEU06) for the students admitted in the academic year 2022– 2023 and onwards.
9. The BOS of Department of Computer Science discussed and resolved to change the title as Elective I: Artificial Intelligence and Machine Learning (22CEU22A) for the students admitted in the academic year 2022-2023 and onwards.
10. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of B.Sc. CS – Programming with JAVA (21CEU11) for the students admitted in the academic year 2021– 2022 and onwards.
11. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of B.Sc. CS – Software Engineering (21CEU12) for the students admitted in the academic year 2021– 2022 and onwards.

12. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **B.Sc. CS – Computer Networks (21CEU15)** for the students admitted in the academic year **2021– 2022** and onwards.
13. The BOS of Department of Computer Science discussed and resolved to update the syllabus of **B.Sc. CS – Practical – V: RDBMS Applications (21CEU19)** for the students admitted in the academic year **2021– 2022** and onwards.
14. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **B.Sc. CS – Practical – VI: Software Testing Lab (21CEU20)** for the students admitted in the academic year **2021– 2022** and onwards.
15. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **B.Sc. CS – Elective I: Artificial Intelligence and Expert Systems (21CEU22A)** for the students admitted in the academic year **2021– 2022** and onwards.
16. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **B.Sc. CS – Elective I: Software Testing (21CEU22B)** for the students admitted in the academic year **2021– 2022** and onwards.
17. The BOS of Department of Computer Science discussed and resolved to update the syllabus of **B.Sc. CS – .NET Programming (20CEU20)** for the students admitted in the academic year **2020– 2021** and onwards.
18. The BOS of Department of Computer Science discussed and resolved to update the syllabus of **B.Sc. CS – Practical – VII: Programming using .NET (20CEU22)** for the students admitted in the academic year **2020– 2021** and onwards.
19. The BOS of Department of Computer Science discussed and resolved to modify the Syllabus **B.Sc. CS – Elective I: Internet of Things (20CEU23A)** for the students admitted in the academic year **2020– 2021** and onwards.
20. The BOS of Department of Computer Science discussed and resolved to modify the Syllabus **B.Sc. CS – Elective I: Cloud Computing (20CEU23B)** for the students admitted in the academic year **2020– 2021** and onwards.
21. The BOS of Department of Computer Science discussed and resolved to modify the Syllabus **B.Sc. CS – Elective I: Big Data Analytics (20CEU23C)** for the students admitted in the academic year **2020– 2021** and onwards.
22. The BOS of Department of Computer Science discussed and resolved to modify the title of the course **B.Sc. CS – Development of Machine Learning Models (20CEU24)** as **Practical – VIII: Development of Machine Learning Models (20CEU24)** for the students admitted in the academic year **2020– 2021** and onwards.
23. The BOS of Department of Computer Science discussed and resolved to reduce and update the Syllabus **B.Sc. CS – Open Source Tools (20CEU25)** for the students admitted in the academic year **2020– 2021** and onwards.

24. The BOS of Department of Computer Science discussed and resolved to modify the Syllabus **B.Sc. CS – Elective II: Artificial Intelligence and Expert Systems (20CEU26A)** for the students admitted in the academic year **2020– 2021** and onwards.
25. The BOS of Department of Computer Science discussed and resolved to modify the Syllabus **B.Sc. CS – Elective II: Network Security and Cryptography (20CEU26B)** for the students admitted in the academic year **2020– 2021** and onwards.
26. The BOS of Department of Computer Science discussed and resolved to modify the Syllabus **B.Sc. CS – Practical – IX: Open Source Tools (20CEU27)** for the students admitted in the academic year **2020– 2021** and onwards.
27. The BOS of Department of Computer Science discussed and resolved to modify the Syllabus **B.Sc. CS – Elective III: E - Commerce (20CEU28C)** for the students admitted in the academic year **2020– 2021** and onwards.
28. Course Specialization Tracking System will be followed for the Students admitted during in the academic year 2020-2021 and onwards.
- **Track1: Regular**
  - **Track2: Industry Integrated (IBM Artificial Intelligence)**

Semester No	Subject Code	Track-1	Subject Code	Track -2
V	20CEU21	Data Mining	20CEIU21	AI Analyst
V	20CEU24	Practical – VIII: PHP and R Programming	20CEIU24	Practical – VIII: Development of Machine Learning Models

29. Course Specialization Tracking System will be followed for the Students admitted during in the academic year 2021-2022 and onwards.
- **Track1: Regular**
  - **Track2: Industry Integrated (IBM Artificial Intelligence)**

Semester No	Subject Code	Track-1	Subject Code	Track -2
III	21CEU12	Software Engineering	21CEIU12	Design Thinking
IV	21CEU18	Operating System	21CEIU18	Clean Coding & DevOps

30. Course Specialization Tracking System will be followed for the Students admitted during in the academic year 2022-2023 and onwards.

- **Track1: Regular**
- **Track2: Industry Integrated (IBM Artificial Intelligence)**

Semester No	Subject Code	Track-1	Subject Code	Track -2
I	22CEU02	Computer System Architecture	22CEIU02	Software Foundation Program Using C++
II	22CEU06	Data Structures and Algorithms	22CEIU06	Data Visualization

31. Value added courses UG (B.Sc. CS) were introduced as an extra credit courses for all semesters of the programme and evaluation pattern discussed and approved for the students admitted during the academic year 2022-2023 and onwards.

S. No	Title of VAC Course
a	Digital Marketing
b	E Learning
c	Animation Techniques
d	Multimedia and its Applications
e	VM Ware

32. Open Elective were introduced as an extra credit courses for all semesters of the programme and evaluation pattern discussed and approved for the students admitted during the academic year 2022-2023 and onwards.

List of Open Elective Papers & VAC / JOC	
<b>Open Electives</b>	Yoga for Human Excellence Human Health & Hygiene Indian Culture and Heritage Indian Constitution and Political System Consumer Awareness and Protection Professional Ethics and Human Values Human Rights, Women's Rights & Gender Equality

Disaster Management	
Green Farming	
Campus to Corporate	
Start-up Business	
Research Methodology and IPR	
General Studies for Competitive Examinations	
IIT JAM Examination (for Science only)	
CUCET Examination	
<b>Courses offered by the Departments to other Programme</b>	
Digital Marketing	
E-Learning	

33. Aptitude/Placement training/Online courses (Job Oriented Courses) are introduced as Skill Enhancement Courses (SEC) and grades will be provided for each semester and to be approved.
34. It is resolved that changes are recommended in the new scheme of evaluation for B.Sc. CS Track 1: Regular students from the academic year 2022-2023 and onwards. Changes are also recommended in the existing scheme of evaluation for B.Sc. CS Track 2: Industry Integrated (IBM Artificial Intelligence) for the students admitted during the academic year 2022-2023 and onwards.
35. The Syllabi for Allied paper of Catering Science and Hotel Management Department, **Practical: VII - Hospitality Information Systems (21CHU22)** of the UG Programme for the students admitted during the academic year 2021 - 2022 & onwards was approved.
36. The Syllabi for Allied paper of Biotechnology Department, **Allied VII - Python Programming (21BTU20)** of the UG Programme for the students admitted during the academic year 2021 - 2022 & onwards was approved.
37. The Syllabi for Allied paper of Biotechnology Department, **Allied VIII - Practical IV - Python Programming (21BTU23)** of the UG Programme for the students admitted during the academic year 2021 - 2022 & onwards was approved.
38. The above points are discussed and approved by the member of Board of Studies in Department of Computer Science on 14.07.2022.

  
 Name & Signature of the Chairman (With seal)

  
 Co-ordinator  
 Curriculum Development Cell  
 Hindusthan College of Arts & Science,  
 Coimbatore - 641 023.

  
**Dr. R. Rangaraj**  
 M.Sc.(CS), M.Phil., Ph.D., M.Sc(Psy).  
 Professor & Head,  
 PG & Research Dept. of Computer Science,  
 Hindusthan College of Arts & Science,  
 Coimbatore - 641 023.

**Enclosures:****1. For B.Sc. CS (I& II semester) for the students admitted during the academic year 2022-2023**

Semester No	Subject Code	Track-1	Subject Code	Track -2
I	22CEU01	Programming with C	22CEU01	Programming with C
	22CEU02	Computer System Architecture	22CEU02	Software Foundation Program Using C++
	22CEU03	<b>Practical – I :</b> Programming using C	22CEU03	<b>Practical – I :</b> Programming using C
II	22CEU05	Python Programming	22CEU05	Python Programming
	22CEU06	Data Structures and Algorithms	22CEU06	Data Visualization
	22CEU07	<b>Practical – II :</b> Programming using Python	22CEU07	<b>Practical – II :</b> Programming using Python
	22CEU08	Computer Installation and Service	22CEU08	Computer Installation and Service

**2. For B.Sc. CS (III & IV semester) for the students admitted during the academic year 2021-2022**

Semester No	Subject Code	Track-1	Subject Code	Track -2
III	21CEU11	Programming with JAVA	21CEU11	Programming with JAVA
	21CEU12	Software Engineering	21CEU12	Design Thinking
	21CEU13	<b>Practical – III :</b> Programming using JAVA	21CEU13	<b>Practical – III :</b> Programming using JAVA
	21CEU14	<b>Practical – IV : Web</b> Design Lab	20CEU14	<b>Practical – IV : Web</b> Design Lab
	21CEU15	Computer Networks	21CEU15	Computer Networks
	21CEU17	Relational Database Management System	21CEU17	Relational Database Management System



IV	21CEU18	Operating System	21CEU18	Clean Coding & DevOps
	21CEU19	<b>Practical V : RDBMS Applications</b>	21CEU19	<b>Practical V : RDBMS Applications</b>
	21CEU20	<b>Practical VI : Software Testing Lab</b>	21CEU20	<b>Practical VI : Software Testing Lab</b>
	21CEU22A	<b>Elective I: Artificial Intelligence and Expert Systems</b>	21CEU22A	<b>Elective I: Artificial Intelligence and Expert Systems</b>
	21CEU22B	<b>Elective I: Software Testing</b>	21CEU22B	<b>Elective I: Software Testing</b>

3. For B.Sc. CS (V & VI semester) for the students admitted during the academic year 2020-2021

Semester No	Subject Code	Track-1	Subject Code	Track -2
V	20CEU20	.NET Programming	20CEU20	.NET Programming
	20CEU21	Data Mining	20CEU21	AI Analyst
	20CEU22	<b>Practical - VII: Programming using .NET</b>	20CEU22	<b>Practical - VII: Programming using .NET</b>
	20CEU23A	<b>Elective I : Internet of Things</b>	20CEU23A	<b>Elective I : Internet of Things</b>
	20CEU23B	<b>Elective I : Cloud Computing</b>	20CEU23B	<b>Elective I : Cloud Computing</b>
	20CEU23C	<b>Elective I : Big Data Analytics</b>	20CEU23C	<b>Elective I : Big Data Analytics</b>
	20CEU24	<b>Practical - VIII : PHP and R Programming</b>	20CEU24	<b>Practical - VIII: Development of Machine Learning Models</b>
VI	20CEU25	Open Source Tools	20CEU25	Open Source Tools
	20CEU26A	<b>Elective II : Artificial Intelligence and Expert Systems</b>	20CEU26A	<b>Elective II : Artificial Intelligence and Expert Systems</b>
	20CEU26B	<b>Elective II : Network Security and Cryptography</b>	20CEU26B	<b>Elective II : Network Security and Cryptography</b>

20CEU26C	<b>Elective II : Compiler Design</b>	20CEU26C	<b>Elective II : Compiler Design</b>
20CEU27	<b>Practical - IX : Open Source Tools</b>	20CEU27	<b>Practical - IX : Open Source Tools</b>
20CEU28A	<b>Elective III : Animation Techniques</b>	20CEU28A	<b>Elective III : Animation Techniques</b>
20CEU28B	<b>Elective III : Multimedia and its Applications</b>	20CEU28B	<b>Elective III : Multimedia and its Applications.</b>
20CEU28C	<b>Elective III : E-Commerce</b>	20CEU28C	<b>Elective III : E-Commerce</b>
20CEU29	<b>Practical - X : Animation Techniques in Multimedia</b>	20CEU29	<b>Practical - X : Animation Techniques in Multimedia</b>
20CEU30	<b>Project Work</b>	20CEU30	<b>Project Work</b>

### PG -M.Sc. (Computer Science)

The following resolutions were made in the BOARD OF STUDIES meeting held on 14.07.2022 at 10.30am in the Department of Computer Science through offline mode.

1. The Syllabi of I & II semester of PG (M.Sc. CS) programme for the students admitted during the academic year 2022-2023 and onwards were approved.

Semester No.	Subject Code	Approved Title (2021-2022)	Subject Code	Replaced Title (2022-2023)
I	21CEP01	Mobile Application Development	22CEP01	Web Programming Using OpenSource Technologies
	21CEP05	<b>Practical I:</b> Mobile Application Programming	22CEP05	<b>Practical I:</b> Web application Programming
	21CEP06	<b>Practical II:</b> Java Programming	22CEP06	<b>Practical II:</b> Object-Oriented Programming
II	21CEP10	Web Programming Using OpenSource Technologies	22CEP10	Mobile Application Development
	21CEP13	<b>Practical IV:</b> Web Programming	22CEP13	<b>Practical IV:</b> Mobile Application Programming

2. The Syllabi of III& IV semester of PG (M.Sc. CS) programme for the students admitted during the academic year 2021-2022 and onwards were approved.

Semester No.	Subject Code	Approved Title (2020-2021)	Subject Code	Replaced Title (2021-2022)
III	20CEP18A	<b>Elective - I</b> (A) Distributed Computing	21CEP20	<b>Elective-I/DSE-I-</b> Cloud Computing & Distributed systems
	20CEP18B	<b>Elective - I</b> (B) Web Technology	21CEP21	<b>Elective-I/DSE-II-</b> Research Methodology
IV	20CEP22A	<b>ELECTIVE II</b> A) Business Intelligence	21CEP23	<b>Elective-I/DSE-III-</b> Social Network
	20CEP22B	<b>ELECTIVE II</b> B) E-Commerce	21CEP24	<b>Elective-I/DSE-IV-</b> Virtual Reality

3. The **Scheme of Examination** of the Choice Based Credit System (CBCS) and Learning Outcomes based Curriculum Framework (LOCF) for various courses and if the students who are all completed the NPTEL courses before **Semester-III**, they can avail exemption from appearing exams of **DSE-III & DSE - IV** in **FAST TRACK SYSTEM** were discussed and resolved for the PG (M.Sc.CS) Students admitted from the **academic year 2022-2023** and onwards.
4. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **M.Sc. CS –Web Programming Using Open Source Technologies (22CEP01)** for the academic year **2022– 2023 Batch**.
5. The BOS of Department of Computer Science discussed and resolved to rename and modify the syllabus of **M.Sc. CS – Practical-II Java Programming(22CEP06)** to **Practical-II Object Oriented Programming(22CEP06)** for the academic year **2022– 2023**.
6. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **M.Sc. CS – Machine learning & Robotics (22CEP11)** for the academic year **2022– 2023**.
7. The BOS of Department of Computer Science discussed and resolved to include the new course **Virtual Reality (22CEP15)** in the **M.Sc. CS Programme for III semester** from the academic year **2022-2023**.
8. The BOS of Department of Computer Science discussed and resolved to include the new course **Programming in Virtual Reality (22CEP18)** in the **M.Sc. CS Programme for III semester** from the academic year **2022-2023**.
9. The updating in the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Course Outcomes (COs) were discussed and approved.
10. It is resolved that changes are recommended in the scheme of evaluation for the M.Sc.CS students from the academic year **2022-2023** and onwards.
11. Additional names for the panel of question paper setters and evaluators were included and it was approved

Name & Signature of the Chairman (With seal)

**Dr.R.Rangaraj**

M.Sc.(CS), M.Phil., Ph.D., M.Sc(Psy).  
Professor & Head,  
PG & Research Dept. of Computer Science,  
Hindusthan College of Arts & Science,  
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