

**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 & B.Sc. COMPUTER SCIENCE WITH COGNITIVE SYSTEMS)**  
**(for the Academic year 2021-22)**  
**Attendance Report**


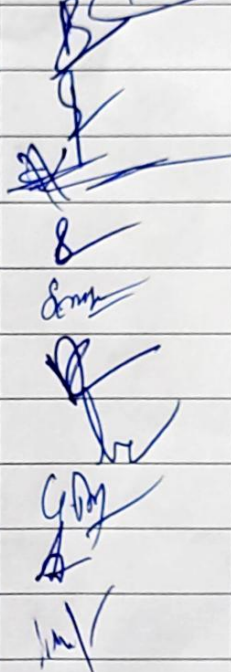
Date: 29.07.2021

Time: 11:00 AM

Mode: Online

Meeting Link: <https://meet.google.com/ojk-chcf-jfo>

**Courses: B.Sc. CS, M.Sc. CS & B.Sc. COMPUTER SCIENCE WITH COGNITIVE SYSTEMS**

	Name	Designation	Signature
Chairman	Dr.Rangaraj R	Professor & Head	
Members (Internal)	1. Mrs.T.Seeniselvi	Associate Professor	
	2. Mrs.K.Jeyalakshmi	Associate Professor	
	3 .Dr.A.Prakash	Professor	
	4 .Mrs. S.Sasikala	Asst. Professor	
	5. Mrs.M.Selvapriya	Asst. Professor	
	6. Mrs.B.Yazhini	Asst. Professor	
	7. Mr.K.S.Senthilkumar	Asst. Professor	
	8 .Mr.G.Ravishanker	Asst. Professor	
	9. Mrs.S.Lakshmi priya	Asst. Professor	
	10. Mrs V Deepa	Asst. Professor	
External (Subject Expert)	Dr. D. Francis Xavier Christopher, Director	School of Computer Studies, Rathavel Subramanian(RVS) College of Arts & Science, Sulur Coimbatore-641402. Mobile No:8883847551 Email: christopherd@rvsgroup.com	Online Mode

<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	Online Mode
<b>Industrial expert</b>	<b>Mr.RameshRajamani</b>	Director & CTO, Thicktower Intech Platform P Ltd, 127,2nd floor,West Sambhandham Road, RS Puram,Coimbatore - 641002, Mobile: 9500056756, Email: ramesh.rajamani@gmail.com	Online Mode
	<b>Mrs.Ramapriya B Sathish</b>	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:priya@adroittechnologies.in	Online Mode
<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: <a href="mailto:Sheik.185@gmail.com">Sheik.185@gmail.com</a>	Online Mode
<b>University Nominee</b>	Dr.M.Punithavalli	Professor, Dept.of Computer Applications, Bharathiar University, Coimbatore-641046 Mobile:9843281552 Email: punithavalli@buc.edu.in	Online Mode

## MINUTES OF BOARD OF STUDIES MEETING

The following resolutions were made in the BOARD OF STUDIES meeting held on 29.07.2021 at 11.00am in the PG & Research Department of Computer Science through online mode(<https://meet.google.com/ojk-chcf-jfo>).

1. The Syllabi of V& VI semester of the UG (B.Sc. CS) programme for the students admitted during the academic year 2019-2020 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 2020-2021 and onwards were approved.
3. The Scheme of Examination of the Choice Based Credit System (CBCS) and Learning Outcomes based Curriculum Framework (LOCF) for various courses were discussed and approved for the UG (B.Sc. CS) Students admitted from the academic year 2021-2022 and onwards.
4. The Syllabi of I & II semester of the UG (B.Sc. CS) programme for the students admitted during the academic year 2021-2022 and onwards were approved.
5. The Scheme of Examination of the Choice Based Credit System (CBCS) and Learning Outcomes based Curriculum Framework (LOCF) for various courses were discussed and approved for the UG (B.Sc. Computer Science with Cognitive Systems) Students admitted from the academic year 2021-2022 and onwards.
6. Syllabi of I & II semester of the UG (B.Sc. Computer Science with Cognitive Systems) programme for the students admitted during the academic year 2021-2022 and onwards were approved.
7. The Scheme of Examination of the Choice Based Credit System (CBCS) and Learning Outcomes based Curriculum Framework (LOCF) for various courses were discussed and approved for the UG (B.Sc. Computer Science with Cognitive Systems) Students admitted from the academic year 2020-2021 and onwards.
8. Syllabi of III & IV semester of the UG (B.Sc. Computer Science with Cognitive Systems) programme for the students admitted during the academic year 2020-2021 and onwards were approved.
9. The BOS of PG & Research Department of Computer Science discussed and resolved to modify the syllabus of B.Sc. CS - .NET Programming (19CEU20) from the academic year 2019- 2020 Batch .
10. The BOS of PG & Research Department of Computer Science discussed and resolved to modify the syllabus of B.Sc. CS - Practical -VII - Programming using .NET (19CEU22) which includes the programs with ASP.NET from the academic year 2019- 2020 Batch.
11. The BOS of PG & Research Department of Computer Science discussed and resolved to introduce the new course Elective III: Block Chain Technology (21CEU29C) in the B.Sc. CS Programme from the academic year 2021-2022 and onwards.



12. The BOS of PG & Research Department of Computer Science discussed and resolved to introduce the new course **Elective IV: Cyber Security (21CEU30C)** instead of the previous course **Elective IV: Network Security and Cryptography in the B.Sc. CS Programme** from the academic year **2021-2022** and onwards.

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
I	21CEU02	Computer System Architecture	21CEIU02	Software Foundation Program Using C++
II	21CEU06	Data Structures and Algorithms	21CEIU06	Data Visualization

13. Value added courses (Job Oriented Courses) UG (B.Sc. CS & B.Sc Computer Science with Cognitive Systems) were introduced as an extra credit courses for all semesters of the programme and evaluation pattern discussed and approved.

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	

14. 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.
15. The updating in the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Course Outcomes (COs) were discussed and approved.
16. It is resolved that changes are recommended in the new scheme of evaluation for the B.SC CS Track 1: Regular students, Track 2: Industry Integrated Course and B.Sc. Computer Science with Cognitive Systems students from the academic year 2021-2022 and onwards. No changes are recommended in the existing scheme of evaluation for the Courses offered by IBM in B.SC CS Track2 in the academic year 2021-2022 and onwards.
17. The Syllabi for Allied paper of Catering Science and Hotel Management Department, **Practical: VII Hospitality Information Systems(20CHU18)** of the UG Programme for the students admitted during the academic year 2020 - 2021 & onwards was approved.
18. The Syllabi for Allied paper of Biotechnology Department, **Allied IV - Python Programming (20BTU16)** of the UG Programme for the students admitted during the academic year 2020 - 2021 & onwards was approved.
19. The Syllabi for Allied paper of Biotechnology Department, **Allied Practical IV - Programming using Python lab (20BTU18)** of the UG Programme for the students admitted during the academic year 2020 - 2021 & onwards was approved.
20. It is resolved to introduce **Fast track system** for UG in the Sixth Semester for the students admitted during the academic year 2021 - 2022 & onwards was approved.
21. The above points are discussed and approved by the member of Board of Studies in PG & Research Department of Computer Science on 29.07.2021.



Enclosures:

1. For B.Sc. CS (I& II semester) for the academic year 2021-2022

Semester No	Subject Code	Track-1	Subject Code	Track -2
I	21CEU01	Programming with C	21CEU01	Programming with C
I	21CEU02	Computer System Architecture	21CEU02	Software Foundation Program Using C++
I	21CEU03	Practical - I : Programming using C	21CEU03	Practical - I : Programming using C
II	21CEU05	Python Programming	21CEU05	Python Programming
II	21CEU06	Data Structures and Algorithms	21CEU06	Data Visualization
II	21CEU07	Practical - II : Programming using Python	21CEU07	Practical - II : Programming using Python
II	21CEU08	Computer Installation and Service	21CEU08	Computer Installation and Service

2. For B.Sc. CS (III & IV semester) for the academic year 2020-2021

Semester No	Subject Code	Track-1	Subject Code	Track -2
III	20CEU09	Programming with JAVA	20CEU09	Programming with JAVA
III	20CEU10	Computer Networks	20CEU10	Computer Networks
III	20CEU11	Software Engineering	20CEU11	Design Thinking
III	20CEU13	Practical - III : Programming using JAVA	20CEU13	Practical - III : Programming using JAVA
III	20CEU14	Practical - IV : Web Design	20CEU14	Practical - IV : Web Design
IV	20CEU15	Relational Database Management System	20CEU15	Relational Database Management System
IV	20CEU16	Operating System	20CEU16	Clean Coding & DevOps
IV	20CEU17	Practical V : RDBMS Applications	20CEU17	Practical V : RDBMS Applications
IV	20CEU19	Practical VI : Software Testing	20CEU19	Practical VI : Software Testing

3. For B.Sc. CS (V & VI semester) for the academic year 2019-2020

S.No	Sem	Subject code	Title of the subject
1.	V	19CEU20	.NET Programming
2.	V	19CEU21	Data Mining
3.	V	19CEU22	Practical VII: Programming using .NET
4.	V	19CEU23A	Elective I : Internet of Things
5.	V	19CEU23B	Elective I : Cloud Computing
6.	V	19CEU23C	Elective I : Big Data Analytics
7.	V	19CEU24	Practical VIII : PHP and R Programming
8.	VI	19CEU25	Open Source Tools
9.	VI	19CEU26A	Elective II : Software Testing
10.	VI	19CEU26B	Elective II : Network Security and Cryptography
11.	VI	19CEU26C	Elective II : Artificial Intelligence and Expert Systems
12.	VI	19CEU27	Practical IX : Open Source Tools
13.	VI	19CEU28A	Elective III : Animation Techniques
14.	VI	19CEU28B	Elective III : Multimedia and its Applications
15.	VI	19CEU28C	Elective III : E-Commerce
16.	VI	19CEU29	Practical X : Animation Techniques in Multimedia
17.	VI	19CEU30	Project Work

1. For B.Sc. Computer Science with Cognitive Systems (I& II semester) for the academic year 2021-2022

S.No	Sem	Subject code	Title of the subject
1.	I	21TCU01	Operating System
2.	I	21TCU02	Practical – I Introduction to Worksheets
3.	I	21TCU03	Practical – II : Programming using Operating System
4.	II	21TCU05	Computer Networks
5.	II	21TCU06	Data Structure and Algorithms
6.	II	21TCU07	Practical – III : Programming using Computer Networks
7.	II	21TCU09	Computer Installation and Service

2. For B.Sc. Computer Science with Cognitive Systems (III & IV semester) for the academic year 2020-2021

S.No	Sem	Subject code	Title of the subject
1.	III	20TCU09	Infrastructure Management
2.	III	20TCU10	Python Programming
3.	III	20TCU11	Virtualization and Cloud Computing
4.	III	20TCU13	Practical – IV :Programming Lab Python
5.	III	20TCU14	Practical – V : Virtualization and cloud Lab
6.	IV	20TCU15	Database Management System
7.	IV	20TCU16	Process Management
8.	IV	20TCU17	Practical VI : DBMS Applications
9.	IV	20TCU19	Practical VII : Programming Lab - Devops Tools





PG -M.Sc.(Computer Science)

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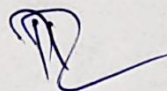
1. The Syllabi of III & IV semester of the **M.Sc. Computer Science (PG)** programme for the students admitted during the academic year 2020-2021 and onwards were approved.
2. The Scheme of examination of the Choice Based Credit System (CBCS) and Learning outcomes based Curriculum Framework (LOCF) for various courses were discussed for the students admitted from the academic year 2021-2022 and onwards.
3. The Syllabi of I & II semester of the **M.Sc. Computer Science (PG)** 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)
II	20CEP08	Open Source Database Management System	21CEP08	Advanced Network Technologies
II	20CEP11	Practical III: Open Source Database Management System	21CEP11	Practical III: Advanced Network Programming

4. Value added courses (Job Oriented Courses) were introduced as an extra credit courses for all semesters of the programme and evaluation pattern discussed and approved.

S.No	Subject code	Title of VAC course
1	A	Digital Marketing
2	B	SAP ERP Fundamentals
3	C	Digital Humanities
4	D	Master Web Designing in Photoshop
5	E	Cyber law
6	F	Web Services

5. Aptitude , Placement training and Internship / Institutional Training / Mini-Project and Student Development Record are introduced as Skill Enhancement Courses (SEC) and grades will be provided for each semester and to be approved.
6. The updating in the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Course Outcomes (COs) were discussed and approved.
7. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **M.Sc. CS- Advanced Software Engineering (21CEP03)** which includes the programs with Agile Methodology from the academic year **2021– 2022 Batch.**
8. The BOS of Department of Computer Science discussed and resolved to modify the syllabus of **M.Sc. CS- Research Methodology (20CEP20)** which includes the programs with Funding Proposal from the academic year **2020– 2021 Batch.**
9. The syllabi for Core Paper of Bio Technology Department **CORE : R Programming for Biologists(21BTP11)** of the PG Programme for the student admitted during the academic year 2021-2022 & onwards was approved.
10. It is resolved to introduce **Fast track system** for PG in the fourth semester for the students admitted during the academic year 2021 - 2022 & onwards was approved.
11. It is resolved that changes are recommended in the scheme of evaluation for the M.Sc. CS students from the academic year 2021-2022 and onwards.
12. Additional names for the panel of question paper setters and evaluators were included and it was approved



Enclosures:

1. For I & II semester for the academic year 2021-2022

S.No	Sem	Subject code	Title of the subject
1	I	21CEP01	Mobile Application Development
2		21CEP02	Analysis & Design of Algorithms
3		21CEP03	Advanced Java Programming
4		21CEP04	Advanced Software Engineering
5		21CEP05	<b>Practical I:</b> Mobile Application Programming
6		21CEP06	<b>Practical II:</b> Java Programming
7	II	21CEP07	Advanced Operating System
8		21CEP08	Advanced Network Technologies
9		21CEP09	Web Programming using Open source Technologies
10		21CEP10	Machine Learning & Robotics
11		21CEP11	<b>Practical III :</b> Advanced Network Programming
12		21CEP12	<b>Practical IV:</b> Web programming

2. For III & IV semester for the academic year 2020-2021


S.No.	Sem	Subject code	Title of the subject
1	III	20CEP13	Digital Image Processing
2		20CEP14	Data Mining & Warehousing
3		20CEP15	Internet of Things
4		20CEP16	<b>Practical V :</b> DIP Programming using MAT LAB
5		20CEP17	<b>Practical VI :</b> Programming the Internet of Things Lab
6		20CEP18A	<b>Elective - I :</b> (A) Distributed Computing
7		20CEP18B	<b>Elective - I :</b> (B) Web Technology
8		20CEP18C	<b>Elective - I:</b> (C) Data Analytics

9	IV	20CEP19	Big Data Analytics
10		20CEP20	Research Methodology
11		20CEP21	<b>Practical VII : Big Data Analytics Using R Tool</b>
12		20CEP22A	<b>ELECTIVE - II : (A) Business Intelligence</b>
13		20CEP22B	<b>ELECTIVE - II : (B) E-Commerce</b>
14		20CEP22C	<b>ELECTIVE II:C) Software Testing</b>
15		20CEP23	Project Work



PRINCIPAL

Hindusthan College of Arts and Science  
Hindusthan Gardens, Behind Nava India,  
Coimbatore - 641 028.

  
Name & Signature of the Chairman (With seal)

**Dr.R.Rangaraj**

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