



**Department of Computer Science
Holy Cross College (Autonomous)**

**Nationally Re-Accredited with A+ by NAAC (CGPA 3.35-IV Cycle),
Nagercoil-629004, Kanyakumari District, Tamil Nadu, India.**



**Minutes of the Board of Studies meeting of the Department of Computer Science held on
05.02.2021 at 11.00 AM via Google Meet**

Ref. No: COMP / BoS 2020-2021 / XIII

Members:

- | | | |
|----------------------------|---|---|
| Sr. Jothi Antony | - | Chairperson & Head of the Department,
Dept. of Computer Science, Holy Cross College, Nagercoil |
| Dr. D. Glory Ratna Mary | - | University Nominee, Department of Computer Science & Head,
Women's Christian College, Nagercoil - 4. |
| Dr. A. John Christopher | - | Subject Expert, Department of Computer Science,
S.T. Hindu College, Nagercoil-2. |
| Mrs. V. Mageshwari | - | Subject Expert, Department of Information Technology & Head,
Fatima College(Autonomous),Madurai-18. |
| Mrs. Asha William | - | Industrialist, Director, Creative Technologies,
Velachery, Chennai-42 |
| Ms. S. Pamina | - | Alumni, Software Tester, UST.com
Bangalore |
| Mrs. J. Anto Hepzie Bai | - | Member, Holy Cross College, Nagercoil |
| Ms. V. Abisha | - | Member, Holy Cross College, Nagercoil |
| Mrs. V. R. Bithiah Blessie | - | Member, Holy Cross College, Nagercoil |
| Mrs. Pillai Archana | - | Member, Holy Cross College, Nagercoil |

Agenda

1. Prayer
2. Welcome by the Chairperson
3. Reading of the minutes of the previous meeting
4. Restructuring / Revision of Curriculum of UG
5. UG Syllabus for Semester III and IV

6. Classification of New Courses
7. Classification of courses as Employability / Entrepreneurship / Skill Development
8. Classification of courses as Local / National / Regional / Global
9. Classification of courses as Crosscutting Issues Gender Equity / Environment and Sustainability / Human Values / Professional Ethics
10. Conduct of UG Practical Examination
11. Recommendation of books and journals for UG
12. Conduct of seminars / workshops in collaborations with Government Agents / Universities / NGOs.
13. Suggestion for innovative teaching and evaluation techniques for UG
14. New measures to be undertaken by the department
15. Feedback and action taken
16. Next Meeting of BoS
17. Any other

The Board of Studies meeting commenced with a prayer by Mrs.V. Abisha. The members of the board, the Chairperson, University Nominee, Subject experts, Industrialist, Alumna and faculty of the Department, were present for the meeting.

Chairperson's Address

The Chair Person and Head of the Department, Sr.Jothi Antony, welcomed the members and introduced them while briefing on the agenda for the conduct of this meeting. The following items in the Agenda were discussed by the members of the Board.

Item 01/BoS 21.02/03: Reading of the minutes of the previous meeting held on 24.01.2020

Mrs. J. Anto Hepzie Bai read the minutes of the previous meeting which was approved by the members after incorporating the modifications/suggestions given by the Academic council.

Item 02/BoS 21.02/04: Approval of Restructuring/Revision of curriculum of UG

The overall structure of the curriculum framed in 2020 was accepted by the board with the following modifications.

- (i) The Core and Elective courses were revised and modified for III and IV Semesters.
- (ii) The 4 hours of NMEC are reduced to 2 hours because of the introduction of compulsory Professional English Course for I to IV Semesters.

Courses offered for the students of B.Sc., Computer Science are given in the following structure

**Course Structure
Distribution of Hours and Credits**

Course	Sem. I	Sem.II	Sem.III	Sem.IV	Sem.V	Sem.VI	Total	
							Hours	Credits
Part I–Language	6 (4)	6 (4)	-	-	-	-	12	8
Part II-English	6 (4)	6 (4)	-	-	-	-	12	8
Part-III								
Major Core - Theory	4(4)	4(4)	5(4)+ 5(4)+ 5(4)	5(5) + 5(5)	6(5) + 5(5)	5(5)+ 5(5)+ 5(5)	59	55
Major Core -Practical	4(2)	4(2)	4(2) 4(2)	4(2) 4(2)	6(3)	4(2) 4(2)	38	19
Elective	-	-	-	5(4)	5(4)	5(4)	15	12
Project	-	-	-	-	6(6)		6	6
Allied- Theory	4(3)	4(3)	5(3)	5(3)	-	-	18	12
Part IV								
Add on Course (Professional English)	2(2)	2(2)	2 (2)	2 (2)	-	-	8	8
Non-Major Elective	2 (2)	2 (2)	-	-	-	-	4	4
SEC (Skill Enhancement Course)	2 (2)	2 (2)	-	-		2 (2)	6	6
AEC (Ability Enhancement Course)					2(2)		2	2
Total	30(23)	30(23)	30(21)	30(23)	30(25)	30(25)	180	140
Non Academic Courses								
Part V								
FC –I (Values for Life)	-	(1)	-	-	-	-	-	1
FC– II (Personality Development)	-	-	-	(1)	-	-	-	1
FC–III (Human Rights Education)	-	-	-	-	(1)	-	-	1
FC –IV (Gender Equity Studies)	-	-	-	-	-	(1)	-	1

SLP-Community Engagement Course	-	-	(2)	-	-	-	-	2
SLP-Extension activity (RUN)			-	(2)				2
STP - Clubs & Committees / NSS	-	-	-	(2)	-	-	-	2

Total number of hours = 180

Total number of credits = 140+10

Non Academic Courses are Mandatory and conducted outside the regular working hours

Courses Offered

Semester	Course	Course Code	Title of the Paper	Hours / Week	Credits
I	Part I	TL2011/ FL2011	Language: Tamil/French	6	4
	Part II	GE2013	General English	6	4
	Part III	SC2011	Major Core I: Programming Concepts in C	4	4
		SC20P1	Major Practical I: C Programming	4	2
		SA2011	Allied I: Theory: Digital Principles and Applications	4	3
	Part IV	APS201	Add on Course: Professional English	2	2
		SNM201	Non Major Elective Course (NMEC): Internet and Web Designing with HTML	2	2
		SEC201 / SEC202	Skill Enhancement Course (SEC): Yoga / Computer Literacy	2	2
	Part V	VEC202	Foundation Course I: Values for Life	-	-
		STP204	Student Training Programme (STP): Clubs & Committees / NSS	-	-
II	Part I	TL2021/ FL2021	Language: Tamil/French	6	4
	Part II	GE2023	General English	6	4
	Part III	SC2021	Major Core II: Object Oriented Programming Using C++	4	4
		SC20P2	Major Practical II: C++ Programming	4	2
		SA2021	Allied II: Theory: Computer Organization and Architecture	4	3
	Part IV	APS202	Add on Course: Professional English	2	2
		SNM202	Non Major Elective Course (NMEC): Desktop Publishing using Scribus	2	2

		SEC201 / SEC202	Skill Enhancement Course (SEC): Yoga / Computer Literacy	2	2
	Part V	VEC202	Foundation Course I: Values for Life	-	1
		STP204	Student Training Programme (STP): Clubs & Committees / NSS	-	-
III	Part III	SC2031	Major Core III: Programming in Java	5	4
		SC2032	Major Core IV: Data Structures and Algorithms	5	4
		SC2033	Major Core V: Computer Networks	5	4
		SC20P3	Major Practical III: Java Programming	4	2
		SC20P4	Major Practical IV: Data Structure Using C++	4	2
		SA2031	Allied III: Theory: Numerical and Statistical Methods	5	3
	Part IV	APS203	Add on Course: Professional English	2	2
	Part V	VEC204	Foundation Course II: Personality Development	-	-
		STP204	Student Training Programme (STP): Clubs & Committees / NSS	-	-
		SLP201	Service Learning Programme (SLP): Community Engagement Course	-	2
SLP202		Service Learning Programme (SLP): Extension Activity (RUN)	-	-	
IV	Part III	SC2041	Major Core VI: UNIX and Shell Programming	5	5
		SC2042	Major Core VII: Relational Database Management Systems	5	5
		SC2043 SC2044 SC2045	Elective I: Software Engineering (a) System Administration and Maintenance (b) Software Testing	5	4
		SC20P5	Major Practical V: Shell Programming	4	2
		SC20P6	Major Practical VI: SQL and PLSQL	4	2
		SA2041	Allied IV: Theory: Discrete Mathematics	5	3
		Part IV	APS204	Add on Course: Professional English	2
	Part V	VEC204	Foundation Course II: Personality Development	-	1
		STP204	Student Training Programme (STP): Clubs & Committees / NSS	-	2
		SLP202	Service Learning Programme (SLP) Extension Activity (RUN)	-	2
V	Part III	SC2051	Major Core VIII: Web Technology	6	5
		SC2052	Major Core IX: Mobile Computing	5	5
		SC2053 SC2054 SC2055	Elective II: (a) Multimedia Systems (b) Microprocessor & Assembly Language Programming (c) Open Source Technology	5	4
		SC20P7	Major Practical VII: Web Technology Lab	6	3

		SC20PR	Project	6	6
	Part IV	AEC201	Ability Enhancement Course (AEC): Environmental Studies	2	2
	Part V	HRE205	Foundation Course III: Human Rights Education (HRE)	-	1
VI	Part III	SC2061	Major Core X: Programming in Python	5	5
		SC2062	Major Core XI: Computer Graphics	5	5
		SC2063	Major Core XII: Operating System	5	5
		SC2064 SC2065 SC2066	Elective III: IOT (a) Network Security (b) E-Commerce Technologies	5	4
		SC20P8	Major Practical VIII: Python Programming	4	2
		SC20P9	Major Practical IX: Computer Graphics	4	2
	Part IV	SSK206	Skill Enhancement Course (*SEC): PHP Programming	2	2
	Part V	GES206	Foundation Course IV: Gender Equity Studies (GES)	-	1
				TOTAL	180

Self-Learning – Extra Credit Courses

Semester	Course Code	Title of the Course	Hours / Week	Credits
III	SC20S1	Web Designing with HTML	-	2
IV	SC20S2	Maya	-	2

Item 03/BoS 21.02/05: Approval of UG Syllabus for Semester III and IV

The BoS members approved the Papers in Sem III and Sem IV for UG programme.

- i. The following courses during the III and IV semesters are revised/ modified based on the feedback from the students & Alumni.

Sl.No.	Semester	Paper Code	Paper Title	Changes	
				Removed (if any)	Addition (if any)
1	III	SC2031	Major Core III: Programming in Java	Stack class, Synchronization and Interthread concept	
2	III	SC2032	Major Core IV: Data Structures and Algorithms	Symbol Tables	Graphs
3	III	SA2031	Allied III: Theory: Numerical and Statistical Methods	Probability	Measures of central tendency: mean,

					median, mode (with frequency) Measures of dispersion: Range, Standard deviation, variance, quartile deviation
--	--	--	--	--	--

- ii. The Core paper 'Microprocessor and Assembly Language Programming' in Semester III is shifted to Semester V as Elective II and instead of this course 'Computer Networks' is introduced.
- iii. The Core Paper 'Web Programming' in Semester IV is removed and the course 'Unix and Shell Programming' is shifted from VI semester to IV semester.
- iv. The Core paper 'RDBMS with Oracle' in Semester IV has been changed to 'Relational Database Management Systems'.
- v. The Elective I 'System Analysis and Design' in Semester IV is removed and the course 'Software Engineering' is introduced.
- vi. The Oracle Lab is changed to SQL and PL/SQL.
- vii. The Allied course 'Operation Research' in Semester IV is removed and the course 'Discrete Mathematics' is introduced.

Item 04/BoS 21.02/06: Classification of New Courses

Sl.No	Semester	Course Code	Course Title	New Courses
1.	III	SC2031	Major Core III: Programming in Java	
2.	III	SC2032	Major Core IV: Data Structures and Algorithms	
3.	III	SC2033	Major Core V: Computer Networks	✓
4.	III	SC20P3	Major Practical III: Java Programming	
5.	III	SC20P4	Major Practical IV: Data Structure Using C++	
6.	III	SA2031	Allied III: Theory: Numerical and Statistical Methods	
7.	III	SC20S1	SLC: Web Designing with HTML	
8.	IV	SC2041	Major Core VI: UNIX and Shell Programming	
9.	IV	SC2042	Major Core VII: Relational Database Management Systems	✓
10.	IV	SC2043	Elective I: (a) Software Engineering	✓

11.	IV	SC2044	Elective I: (b) System Administration and Maintenance	✓
12.	IV	SC2045	Elective I: (c) Software Testing	✓
13.	IV	SC20P5	Major Practical V: Shell Programming	
14.	IV	SC20P6	Major Practical VI: SQL and PL/SQL	
15.	IV	SA2041	Allied IV: Theory: Discrete Mathematics	✓
16.	IV	SC20S2	SLC: Maya	

Item 05/BoS 21.02/07: Classification of courses as Employability/ Entrepreneurship / Skill Development

Sl.No	Sem ester	Course Code	Course Title	Employa bility	Entrepr eneursh ip	Skill Devel opme nt
1.	III	SC2031	Major Core III: Programming in Java	✓		✓
2.	III	SC2032	Major Core IV: Data Structures and Algorithms	✓	✓	✓
3.	III	SC2033	Major Core V: Computer Networks	✓		✓
4.	III	SC20P3	Major Practical III: Java Programming	✓		
5.	III	SC20P4	Major Practical IV: Data Structure Using C++	✓		
6.	III	SA2031	Allied III: Theory: Numerical and Statistical Methods	✓	✓	✓
7.	III	SC20S1	SLC: Web Designing with HTML			✓
8.	IV	SC2041	Major Core VI: UNIX and Shell Programming	✓		✓
9.	IV	SC2042	Major Core VII: Relational Database Management Systems	✓		✓
10.	IV	SC2043	Elective I: (a) Software Engineering	✓	✓	✓
11.	IV	SC2044	Elective I: (b) System Administration and Maintenance	✓		✓
12.	IV	SC2045	Elective I: (c) Software Testing	✓		
13.	IV	SC20P5	Major Practical V: Shell Programming	✓		

14.	IV	SC20P6	Major Practical VI: SQL and PL/SQL	✓		
15.	IV	SA2041	Allied IV: Theory: Discrete Mathematics	✓		✓
16.	IV	SC20S2	SLC: Maya		✓	✓

Item 06/BoS 21.02/08: Classification of courses as Local/ National / Regional / Global

Sl. No	Sem ester	Course Code	Course Title	Local	National	Regional	Global
1.	III	SC2031	Major Core III: Programming in Java		✓		✓
2.	III	SC2032	Major Core IV: Data Structures and Algorithms	✓	✓	✓	✓
3.	III	SC2033	Major Core V: Computer Networks		✓	✓	✓
4.	III	SC20P3	Major Practical III: Java Programming				✓
5.	III	SC20P4	Major Practical IV: Data Structure Using C++				✓
6.	III	SA2031	Allied III: Theory: Numerical and Statistical Methods	✓		✓	✓
7.	III	SC20S1	SLC: Web Designing with HTML	✓			✓
8.	IV	SC2041	Major Core VI: UNIX and Shell Programming	✓		✓	✓
9.	IV	SC2042	Major Core VII: Relational Database Management Systems	✓		✓	✓
10.	IV	SC2043	Elective I: (a) Software Engineering	✓	✓		✓
11.	IV	SC2044	Elective I: (b) System Administration and Maintenance	✓		✓	✓
12.	IV	SC2045	Elective I: (c) Software Testing	✓			✓
13.	IV	SC20P5	Major Practical V: Shell Programming				✓
14.	IV	SC20P6	Major Practical VI: SQL and PL/SQL				✓
15.	IV	SA2041	Allied IV: Theory: Discrete Mathematics	✓	✓		✓
16.	IV	SC20S2	SLC: Maya	✓			

Item 07/BoS 21.02/09: Classification of courses as Crosscutting Issues Gender Equity / Environment and Sustainability / Human Values / Professional Ethics

No Courses were classified as Crosscutting Issues- Gender Equity / Environment and Sustainability / Human Values / Professional Ethics.

Item 8/BoS 21.02/10: Conduct of UG practical exam during the even semester

From the feedback of the stakeholders, it is suggested by the Board of studies members to retain the existing pattern followed from 2007 onwards. (Practical exams are conducted in all the semesters)

Item 9/BoS 21.02/11: Recommendation of books and journals for UG

Board suggests to use the text books and reference books given in the TANSCHÉ structure for UG programme.

Item 10/BoS 21.02/12: Conduct of seminars / workshops in collaborations with Government Agents / Universities / NGOs

The BoS members suggested conducting workshop on Hardware Training, Current Trend Technologies.

Item 11/BoS 21.02/13: Suggestions for innovative teaching and evaluation techniques for UG

The BoS members suggested the following methodologies to enhance teaching, learning and evaluation.

1. To include Robotics in Innovative Teaching using teaching methodologies such as teamwork, project based learning, problem-solving learning, leadership and gaming technology.
2. Use of the participative learning techniques like Blended Class room, Peer teaching, Flip Class, Group discussion, case study.
3. Internal evaluation based on class room assessments such as Quizzes, Kahoot, Moodle

Item 12/BoS 21.02/14: New measures to be undertaken by the department

1. For I year

We are preparing the I year students to have in-depth study on programming language concepts

- Internship (HTML, Bootstrap, JQuery, Mysql, C#)

2. For Final year students

- Internship (Asp.Net, Model Binding, Mysql, C#)

Value Added Courses

1. I year – DCA-I
2. II year – DCA-II

Item 13/BoS 21.02/15: Feedback and Action Taken

Stakeholders	Feedback Received	Action Taken
Students	Reduce the syllabus	Syllabus were revised
Parents	Skill oriented courses can be included	Courses were included
Teachers	Syllabus is good	-
Alumni	New courses can be included	Included new courses
Academic Peers	Provide experiential learning	Industrial Visit were arranged

Feedback from student representatives

Reduce the syllabus for programming in Java. Include new courses in every 3 years. Include skill-oriented courses in the curriculum. Give many add-on courses to update the knowledge.

Akkanisha *Akkanisha*

Dharshini *Dharshini*

Item 14/BoS 21.02/16: Next Meeting of the BoS

The members of the board suggested to have the next meeting of BoS in the month of August, 2021. The meeting ended at 1 pm with the vote of thanks by Mrs.V.R.Bithiah Blessie.

Item 15/BoS 21.02/17: Any other

Nil

Details of Board Members with their Signature

Name of the Members	Designation	Signature
Sr.Jothi Antony	Assistant Professor and Head	<u>Sr. Jothi</u>
Dr. D. Glory Ratna Mary	Associate Professor and Head	<u>Dr. D. Glory Ratna Mary</u>
Dr.A. John Christopher	Associate Professor	<u>A John Christopher</u>
Mrs. V. Mageshwari	Associate Professor and Head	<u>Mageshwari</u>
Mrs. Asha William	Director, Creative Technologies Velachery	<u>Asha William</u>
Ms. S. Pamina	Software Tester(Alumni)	<u>Pamina</u>
\Mrs. J. Anto Hepzie Bai	Assistant Professor	<u>J. Anto Hepzie Bai</u>
Mrs. V. Abisha	Assistant Professor	<u>Abisha</u>
Mrs. V.R. Bithiah Blessie	Assistant Professor	<u>Bithiah Blessie</u>
Mrs. Pillai Archana	Assistant Professor	<u>Archana</u>