



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
27.05.2023 at 10.00 AM**

Ref. No: COMP / BoS 2022-2023 / XVI

Members List

J. Anto Hepzie Bai	-	Chairperson & Head, Dept. of Computer Science, Holy Cross College, Nagercoil
Dr. S. P. Victor	-	University Nominee, Department of Computer Science St. Xavier's College, Palayamkottai – 627002.
Dr. K. Pazhani Kumar	-	Subject Expert, Department of Computer Science & Head, S.T. Hindu College, Nagercoil-2.
Dr. G. Suganthi	-	Subject Expert, Department of Computer Science & Head, Women's Christian College, Nagercoil-1.
Mr. Paul Raj	-	CEO, Infinisol Technology Pvt. Ltd Bangalore.
Ms. A. Akkanisha	-	Alumni, II MCA (St. Xavier's Catholic College of Engineering), Chungankadai.
Mrs. N.Nithila	-	Member, Holy Cross College, Nagercoil
Dr. F. Fanax Femy	-	Member, Holy Cross College, Nagercoil
Dr. S. Immaculate Shyla	-	Member, Holy Cross College, Nagercoil
Mrs. V. R. Bithiah Blessie	-	Member, Holy Cross College, Nagercoil

Agenda

1. Prayer
2. Welcome by the Chairperson
3. Reading of the minutes of the previous meeting
4. Introduction of UG School
5. Revamping / Revision of curriculum for UG with PEOs, POs, PSOs and COs.
6. Revision of syllabus for UG Semester I and II
7. Ratification of curriculum structure 2020-23
8. Syllabus for Value Added Courses
9. Introduction of PG School

10. Revamping / Revision of curriculum for PG with PEOs, POs, PSOs and COs.
11. Revision of syllabus for PG Semester I and II
12. Classification of New Courses / Multidisciplinary / Industry 4.0
13. Classification of courses as Employability / Entrepreneurship / Skill Development
14. Classification of courses as Local / National / Regional / Global
15. Classification of courses as Crosscutting Issues Gender Equity / Environment and Sustainability / Human Values / Professional Ethics / Indian Knowledge System
16. Recommendation of books and journals for UG and PG
17. Suggestion for innovative teaching and evaluation techniques for UG and PG
18. Conduct of seminars / workshops in collaborations with Government Agents / Universities / NGOs.
19. New measures to be undertaken by the department
20. Feedback and action taken
21. Next meeting of BoS
22. Any other

The Board of Studies meeting commenced with a silent prayer. 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, J. Anto Hepzie Bai, 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 23.05/03: Reading of the Minutes of the previous meeting held on 02.12.2021 & 07.10.2022

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 23.05/04: Approval of the UG School of Computing Sciences

The BoS members approved the Mathematics, Computer Science and Fashion Designing departments as School of Computing Sciences.

Item 03/BOS 23.05/05: Approval of Revamping / Revision of Curriculum for UG with PEOs, POs, PSOs and COs

The Bos members approved the PEOs, POs, PSOs and COs after discussion for the courses in Sem I and Sem II for UG Programme.

Programme Educational Objectives (PEOs)

PEOs	Upon completion of B.A/B.Sc. degree programme, the graduates will be able to	Mission addressed
PEO 1	apply appropriate theory and scientific knowledge to participate in activities that support humanity and economic development nationally and globally, developing as leaders in their fields of expertise.	M1& M2
PEO 2	inculcate practical knowledge for developing professional empowerment and entrepreneurship and societal services.	M2, M3, M4 & M5
PEO 3	pursue lifelong learning and continuous improvement of the knowledge and skills with the highest professional and ethical standards.	M3, M4, M5 & M6

Programme Outcomes (POs)

POs	Upon completion of B.Sc. Degree Programme, the graduates will be able to:	Mapping with PEOs
PO1	obtain comprehensive knowledge and skills to pursue higher studies in the relevant field of science.	PEO 1
PO2	create innovative ideas to enhance entrepreneurial skills for economic independence.	PEO 2
PO3	reflect upon green initiatives and take responsible steps to build a sustainable environment.	PEO 2
PO4	enhance leadership qualities, team spirit and communication skills to face challenging competitive examinations for a better developmental career.	PEO 1 & PEO 3
PO5	communicate effectively and collaborate successfully with peers to become competent professionals.	PEO 2 & PEO 3
PO6	absorb ethical, moral and social values in personal and social life leading to highly cultured and civilized personality	PEO 2 & PEO 3
PO7	participate in learning activities throughout life , through self-paced and self-directed learning to develop knowledge and skills.	PEO 1 & PEO 3

Programme Specific Outcomes (PSOs)

PSOs	Upon completion of the B.Sc. Computer Science Programme, the graduates will be able to:	Mapping with POs
PSO – 1	obtain sufficient knowledge and skills enabling them to undertake further studies in Computer Science and its allied areas on multiple disciplines linked with Computer Science.	PO1
PSO – 2	evaluate and apply emerging technologies in computer science to develop innovative solutions for real-world problems	PO2
PSO – 3	develop a range of generic skills helpful in team building, problem solving, technical ability, employment, internships, communication and societal activities.	PO4 & PO7

PSO – 4	communicate effectively, work collaboratively, and demonstrate ethical and professional attitudes in diverse settings.	PO5 & PO6
PSO – 5	sensitize various economic issues related to Development, Growth, International Economics, Sustainable Development and Environment	PO3

TANSCHÉ syllabus with prime focus on LOCF with CBCS is implemented. LOCF is an initiative to create positive improvement in the Higher Education which aims to equip students with knowledge, skills, values, attitudes, leadership readiness/ qualities and life-long learning.

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

**UG Course Structure
Distribution of Hours and Credits**

Curricular Courses

Course	S I	S II	S III	S IV	S V	S VI	Total	
							H	C
Part I Language	6 (3)	6 (3)	6 (3)	6 (3)			24	12
Part II English	6 (3)	6 (3)	6 (3)	6 (3)			24	12
Part III Core Course	5(5)	5(5)	5(5)	5(5)	5(4) + 5(4)	6(5)+6(4)	78	69
Core Lab Course	5(5)	5(5)	5(5)	5(5)	5(4)	6(4)		
Project					5(4)			
Elective /Discipline Specific Elective Courses	4 (3)	4 (3)	4 (3)	4 (3)	4 (3)+ 4 (3)	5 (3)+ 5(3)	34	24
Part IV								
Non-major Elective Course	2 (2)	2 (2)	-	-	-	-	4	4
Skill Enhancement Course	-	2 (2)	1 (1) 2 (2)	1 (1) 2 (2)	-		8	8
Foundation Course	2(2)	-	-	-	-	-	2	2
Value Education	-	-	-	-	2 (2)	-	2	2
Summer Internship /Industrial Training					(2)			2
Environmental Studies	-	-	1	1 (2)	-	-	2	2
Extension activity	-	-	-	-	-	(1)	-	1
Professional Competency Skill						2 (2)	2	2
Total	30(23)	30(23)	30(22)	30 (24)	30 (26)	30 (22)	180	140

Total number of Hours = 180

Co-curricular Courses

Course	S I	S II	S III	S IV	S V	S VI	Total
LST (Life Skill Training)	-	(1)	-	(1)			2
Skill Development Training (Certificate Course)	(1)						1
Field Project		(1)					1
Specific Value-added Course	(1)		(1)				2
Generic Value-added Course				(1)		(1)	2
MOOC		(1)		(1)		(1)	3
Student Training Activity: Clubs & Committees / NSS				(1)			1
Community Engagement Activity: RUN				(1)			1
Human Rights Education					(1)		1
Gender Equity Studies						(1)	1
Total							15

Courses Offered

Semester I

Course	Course Code	Title of the Course	Credits	Hours/Week
Part I	TU231TL1	Language: Tamil French	3	6
	FU231FL1			
Part II	EU231EL1	English	3	6
Part III	SU231CC1	Core Course I: Python Programming	5	5
	SU231CP1	Core Lab Course I: Python Programming Lab	5	5
	SU231EC1	Elective Course I: Numerical Methods	3	4
Part IV	SU231NM1	Non Major Elective NME I: Office Automation	2	2
	SU231FC1	Foundation Course: Problem Solving Techniques	2	2
Total			23	30

Semester II

Course	Course Code	Title of the Course	Credits	Hours/Week
Part I	TU232TL1	Language: Tamil French	3	6
	FU232FL1			
Part II	EU232EL1	English	3	6
Part III	SU232CC1	Core Course II: Data Structure and Algorithms	5	5
	SU232CP1	Core Lab Course II: Data Structure and Algorithms Lab	5	5
	SU232EC1	Elective Course II: Discrete Mathematics	3	4
Part IV	SU232NM1	Non Major Elective NME II: Introduction to HTML	2	2
	SU232SE1	Skill Enhancement Course SEC - I: Advanced Excel	2	2
Total			23	30

Semester III

Course	Course Code	Title of the Course	Credits	Hours/Week
Part I	TU233TL1	Language: Tamil French	3	6
	FU233FL1			
Part II	EU233EL1	English	3	6
Part III	SU233CC1	Core Course III: Microprocessor and Microcontroller	5	5
	SU233CP1	Core Lab Course III: Microprocessor and Microcontroller Lab	5	5
	SU233EC1	Elective Course III: Robotics & its Applications	3	4
Part IV	SU233SE1	Skill Enhancement Course SEC - II: (Entrepreneurial Skills): Web Designing	1	1
	SU233SE2	Skill Enhancement Course SEC - III: Quantitative Aptitude	2	2
	UG234EV1	Environmental Studies	-	1
Total			22	30

Semester IV

Course	Course Code	Title of the Course	Credits	Hours/Week
Part I	TU234TL1	Language: Tamil French	3	6
	FU234FL1			
Part II	EU234EL1	English	3	6
Part III	SU234CC1	Core Course IV: Java Programming	5	5
	SU234CP1	Core Lab Course IV: Java Programming Lab	5	5
	SU234EC1	Elective Course IV: Big Data Analytics	3	4
Part IV	SU234SE1	Skill Enhancement Course SEC – IV (Entrepreneurial Skills): UNIX Programming	1	1
	SU234SE2	Skill Enhancement Course SEC - V: Multimedia Systems	2	2
	UG234EV1	Environmental Studies	2	1
		Total	24	30

Semester V

Course	Course Code	Title of the Course	Credits	Hours/Week
Part III	SU235CC1	Core Course V: Software Engineering	4	5
	SU235CC2	Core Course VI: Database Management System	4	5
	SU235CP1	Core Lab Course V: Database Management System Lab	4	5
	SU235PW1	Core Project	4	5
	SU235DE1	Discipline Specific Elective Course I: (a) Cloud Computing	3	4
	SU235DE2	Discipline Specific Elective Course I: (b) Computational Intelligence		
	SU235DE3	Discipline Specific Elective Course I: (c) Quantum Computing		
	SU235DE4	Discipline Specific Elective Course II: (a) Virtual Reality	3	4
	SU235DE5	Discipline Specific Elective Course II: (b) Image Processing		
	SU235DE6	Discipline Specific Elective Course II: (c) Data Mining and Warehousing		

Part IV	SU235VE1	Value Education	2	2
	SU235SI1 / SU235IT1	Summer Internship/Industrial Training	2	-
		Total	26	30

Semester VI

Course	Course Code	Title of the Course	Credits	Hours/Week
Part III	SU236CC1	Core Course VII: Computer Networks	5	6
	SU236CC2	Core Course VIII: .NET Programming	4	6
	SU236CP1	Core Lab Course VI: .NET Programming Lab	4	6
	SU236DE1	Discipline Specific Elective Course III: a) IOT and its Applications	3	5
	SU236DE2	Discipline Specific Elective Course III: b) Natural Learning Processing		
	SU236DE3	Discipline Specific Elective Course III: c) Artificial Intelligence		
	SU236DE4	Discipline Specific Elective Course IV: a) Cryptography	3	5
	SU236DE5	Discipline Specific Elective Course IV: b) Network Security		
	SU236DE6	Discipline Specific Elective Course IV: c) Information Security		
	SU236EA1	Extension Activity	1	-
	SU236PS1	Professional Competency Skill Enhancement Course: PHP Programming	2	2
		Total	22	30
TOTAL			140	180

Item 04/BOS 23.05/06: Approval of Revision of syllabus for UG Semester I and II

The BoS members approved the courses in Semester I and Semester II for UG Programme. The course Python Programming and Advanced Excel was included in the syllabus based on the feedback from the students and Alumni.

Item 05/BOS 23.05/07: Ratification of Curriculum Structure 2020-23

Ratification in 2020-23 structure with changes in Semester IV/V to introduce mandatory Internship/ Field visit (Case Study)/ Field Project with 1 extra credit based on the feedback received from the students.

Item 06/BOS 23.05/08: Approval of Syllabus for Value Added Courses

Specific Value-added Courses (SVC): Specific Value-added courses are offered in Semesters I, III and V, where students have to undergo the courses offered by the department.

Semester	Course Code	Title of the course	Total hours
I	SU231V01	Procedural Language	30
I	SP231V01	Website Creation	30
III	VASC209	ASP.NET Programming	30
III	VASC2011	AI Tools	30
V	VASC2010	Hadoop	30

Generic Value-added Courses (GVC): Generic Value-added courses are offered in Semesters II, IV and VI, where students can choose from the courses offered by the institution.

The BoS members approved the syllabus for the Generic and Specific value-added courses.

Item 07/BOS 23.05/9: Approval of the PG School of Computing Sciences

The BoS members approved the Mathematics and Computer Science departments as School of Computing Sciences.

Item 08/BOS 23.05/10: Approval of Revamping / Revision of Curriculum for PG with PEOs, POs, PSOs and COs

The BoS members approved the PEOs, POs, PSOs and COs after discussion for the Papers in Sem I and Sem II for PG Programme.

Programme Educational Objectives (PEOs)

PEO	Upon completion of M.Sc Computer Science Degree Programme, the graduates will be able to:	Mapping with Mission
PEO-1	apply scientific and computational technology to solve socio ecological issues and pursue research.	M1, M2
PEO-2	continue to learn and advance their career in industry both in private and public sectors	M4 & M5

PEO-3	develop leadership, teamwork, and professional abilities to become a more cultured and civilized person and to tackle the challenges in serving the country.	M2, M5 & M6
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Programme Outcomes (POs)

PO	Upon completion of M.Sc. Degree Programme, the graduates will be able to:	Mapping with PEOs
PO1	apply their knowledge, analyze complex problems, think independently, formulate and perform quality research.	PEO1 & PEO2
PO2	carry out internship programmes and research projects to develop scientific and innovative ideas through effective communication.	PEO1, PEO2 & PEO3
PO3	develop a multidisciplinary perspective and contribute to the knowledge capital of the globe.	PEO 2
PO4	develop innovative initiatives to sustain ecofriendly environment	PEO1, PEO 2
PO5	through active career, team work and using managerial skills guide people to the right destination in a smooth and efficient way.	PEO 2
PO6	employ appropriate analysis tools and ICT in a range of learning scenarios, demonstrating the capacity to find, assess, and apply relevant information sources.	PEO1, PEO 2 & PEO3
PO7	learn independently for lifelong to execute professional, social and ethical responsibilities promoting sustainable development.	PEO3

Programme Specific Outcomes (PSOs)

PSO	Upon completion of M.Sc. Degree Programme, the graduates will be able to:	Mapping with POs
PSO 1	apply profound knowledge to analyze and design software and systems containing hardware and software components of varying complexity.	PO1
PSO 2	apply mathematical model, algorithmic principles, and computer science theory in the design of real-time applications	PO2
PSO 3	apply knowledge of computing to produce effective designs and solutions for specific problems.	PO4 & PO7
PSO 4	identify, analyze, design, optimize and implement system solutions using appropriate algorithms of varying complexity.	PO5 & PO6
PSO 5	work in multidisciplinary teams in small- and large-scale projects by utilizing modern software tools and emerging technologies to develop complex products for the societal needs.	PO3

TNSCHE syllabus with prime focus on LOCF with CBCS is implemented. LOCF is an initiative to create positive improvement in the Higher Education which aims to equip students with knowledge, skills, values, attitudes, leadership readiness/ qualities and life-long learning.

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

PG Course Structure
Distribution of Hours and Credits

Curricular Courses

Course	SEMESTER				Total	
	I	II	III	IV	Hours	Credits
Core Course – Theory	6(5) + 6(4) +	6(5)+ 6(5)+	6(5) + 6(5) + 6(5) +	6(5) + 6 (5)	74	58
Core Course -Lab	5(3)	6(4)	6 (4) 3 (3)			
Elective Course	5 (3) + 5 (3)	4 (3) + 4 (3)	-	4 (3) -	22	15
Elective Lab Course	3(2)				3	2
Core Project		-		10 (7)	10	7
Skill Enhancement Course		4 (2)	3 (2)	4 (2)	11	6
Internship/ Industrial Activity			(2)		-	2
Extension Activity				(1)	-	1
Total	30 (20)	30 (22)	30 (26)	30 (23)	120	91

Co-curricular Courses

Course	SEMESTER				Total
	I	II	III	IV	Credits
Life Skill Training –I	-	(1)	-	-	1
Life Skill Training –II	-	-	-	(1)	1
Field Project	(1)		-		1
Specific Value-Added Courses	(1)		(1)		2
Generic Value-Added Courses		(1)		(1)	2
MOOC		(1)		(1)	2
Community Engagement Activity (UBA)		(1)			1

Total Number of Hours = 120

Total Number of Credits = 91 + (10)

Co-curricular courses are mandatory and conducted outside the regular working hours.

**Courses Offered
Semester I**

Course Code	Title of the Course	Credits	Hours / Week
SP231CC1	Core Course I: Analysis & Design of Algorithms	5	6
SP231CC2	Core Course II: Object Oriented Analysis and Design & C++	4	6
SP231CP1	Core Lab Course I: Algorithm and OOPS Lab	3	5
SP231EC1	Elective Course I: a) Python Programming	3	5
SP231EC2	Elective Course I: b) Multimedia and its Applications		
SP231EC3	Elective Course I: c) Embedded System		
SP231EC4	Elective Course II: a) Advanced Software Engineering	3	5
SP231EC5	Elective Course II: b) Internet of Things		
SP231EC6	Elective Course II: c) Critical Thinking, Design Thinking and Problem Solving		
SP231EP1	Elective Lab Course I: Python Programming Lab	2	3
	Total	20	30

Semester II

Course Code	Title of the Course	Credits	Hours / Week
SP232CC1	Core Course III: Data Mining and Warehousing	5	6
SP232CC2	Core Course IV: Advanced Java Programming	5	6
SP232CP1	Core Lab Course II: Advanced Java Programming Lab	4	6
SP232EC1	Elective Course III: a) Advanced Operating Systems	3	4
SP232EC2	Elective Course III: b) Mobile Computing		
SP232EC3	Elective Course III: c) Block Chain Technology		
SP232EC4	Elective Course IV: a) Artificial Intelligence & Machine Learning	3	4
SP232EC5	Elective Course IV: b) Web Services		

SP232EC6	Elective Course IV: c) Robotic Process Automation for Business		
SP232SE1	Skill Enhancement Course I :Practical: Data Mining Lab using R	2	4
	Total	22	30

Semester III

Course Code	Title of the Course	Credits	Hours / Week
SP233CC1	Core Course V: Digital Image Processing	5	6
SP233CC2	Core Course VI: Cloud Computing	5	6
SP233CC3	Core Course VII: Network Security and Cryptography	5	6
SP233CC4	Core Course VIII: Data Science & Analytics	4	6
SP233CP1	Core Lab Course III: Digital Image Processing Lab using MATLAB	3	3
SP233SE1	Skill Enhancement Course II: Practical: Cloud Computing Lab	2	3
SP233IS1	Internship/ Industrial Activity	2	-
	Total	26	30

Semester IV

Course Code	Title of the Course	Credits	Hours / Week
SP234CC1	Core Course IX: Big Data Analytics	5	6
SP234CC2	Core Course X: Web Application development & hosting Practical	5	6
SP234EC1	Elective Course V: a) Dot Net Programming	3	4
SP234EC2	Elective Course V: b) Advanced Machine Learning Technologies		
SP234EC3	Elective Course V: c) Soft Computing		
SP234PW	Core Project	7	10
SP234SE1	Skill Enhancement Course III: Professional Competency Skill	2	4
SP234EA1	Extension Activity	1	-
	Total	23	30
	TOTAL	91	120

Item 9/BOS 23.05/11: Approval of Revision of syllabus for PG Semester I and II

The Board of Studies members approved the papers in Semester I and Semester II for PG Programme. The courses were included based on the needs and feedback of the Alumni, stakeholders and the student representatives.

Item 10/BOS 23.05/12: Classification of New Courses / Multidisciplinary / Industry 4.0**UG**

Sl.No	Semester	Course Code	Course Title	New Courses	Multidisciplinary	Industry 4.0
1	I	SU231CC1	Core Course I: Python Programming	✓		✓
2	I	SU231CP1	Core Lab Course I: Python Programming Lab	✓		✓
3	I	SU231EC1	Elective Course I: Numerical Methods	✓		
4	I	SU231NM1	Non Major Elective NME I: Office Automation	✓	✓	
5	I	SU231FC1	Foundation Course: Problem Solving Techniques	✓		
6	II	SU232CC1	Core Course II: Data Structure and Algorithms	✓		
7	II	SU232CP1	Core Lab Course II: Data Structure and Algorithms Lab	✓		
8	II	SU232EC1	Elective Course II: Discrete Mathematics	✓		
9	II	SU232NM1	Non Major Elective NME II: Introduction to HTML	✓	✓	
10	II	SU232SE1	Skill Enhancement Course SEC - I: Advanced Excel	✓		

PG

Multidisciplinary courses - Nil

Sl. No	Semester	Course Code	Course Title	New Courses	Industry 4.0
1	I	SP231CC1	Core Course I: Analysis & Design of Algorithms	✓	
2	I	SP231CC2	Core Course II: Object Oriented Analysis and Design & C++	✓	

3	I	SP231CP1	Core Lab Course I: Algorithm and OOPS Lab	✓	
4	I	SP231EC1	Elective Course I: (a) Python Programming	✓	✓
5	I	SP231EC2	Elective Course I: (b) Multimedia and its Applications	✓	
6	I	SP231EC3	Elective Course I: (c) Embedded System	✓	
7	I	SP231EC4	Elective Course II: (a) Advanced Software Engineering	✓	✓
8	I	SP231EC5	Elective Course II: (b) Internet of Things	✓	✓
9	I	SP231EC6	Elective Course II: (c) Critical Thinking, Design Thinking and Problem Solving	✓	
10	I	SP231EP1	Elective Lab Course I: Python Programming Lab	✓	✓
11.	II	SP232CC1	Core Course III: Data Mining and Warehousing	✓	✓
12.	II	SP232CC2	Core Course IV: Advanced Java Programming	✓	
13.	II	SP232CP1	Core Lab Course II: Advanced Java Programming Lab	✓	
14.	II	SP232EC1	Elective Course III: (a) Advanced Operating Systems	✓	
15.	II	SP232EC2	Elective Course III: (b) Mobile Computing	✓	
16.	II	SP232EC3	Elective Course III: (c) Block Chain Technology	✓	✓
17.	II	SP232EC4	Elective Course IV: (a) Artificial Intelligence & Machine Learning	✓	✓
18.	II	SP232EC5	Elective Course IV: (b) Web Services	✓	

19.	II	SP232EC6	Elective Course IV: (c) Robotic Process Automation for Business	✓	✓
20.	II	SP232SE1	Skill Enhancement Course I: Practical: Data Mining Lab using R	✓	✓

Item 11/BOS 23.05/13: Classification of courses as Employability / Entrepreneurship / Skill Development
UG

Sl.No	Semester	Course Code	Course Title	Employability	Entrepreneurship	Skill Development
1.	I	SU231CC1	Core Course I: Python Programming	✓		
2.	I	SU231CP1	Core Lab Course I: Python Programming Lab	✓		
3.	I	SU231EC1	Elective Course I: Numerical Methods			✓
4.	I	SU231NM1	Non Major Elective NME I: Office Automation	✓		
5.	I	SU231FC1	Foundation Course: Problem Solving Techniques	✓	✓	✓
6.	II	SU232CC1	Core Course II: Data Structure and Algorithms	✓	✓	✓
7.	II	SU232CP1	Core Lab Course II: Data Structure and Algorithms Lab	✓	✓	✓
8.	II	SU232EC1	Elective Course II: Discrete Mathematics			✓
9.	II	SU232NM1	Non Major Elective NME II: Introduction to HTML			✓
10.	II	SU232SE1	Skill Enhancement Course SEC - I: Advanced Excel	✓	✓	✓

PG

Sl. No	Semester	Course Code	Course Title	Employability	Entrepreneurship	Skill Development
1.	I	SP231CC1	Core Course I: Analysis & Design of Algorithms	✓		✓

2.	I	SP231CC2	Core Course II: Object Oriented Analysis and Design & C++	✓	✓	✓
3.	I	SP231CP1	Core Lab Course I: Algorithm and OOPS Lab	✓		✓
4.	I	SP231EC1	Elective Course I: (a) Python Programming	✓		✓
5.	I	SP231EC2	Elective Course I: (b) Multimedia and its Applications		✓	✓
6.	I	SP231EC3	Elective Course I: (c) Embedded System	✓	✓	
7.	I	SP231EC4	Elective Course II: (a) Advanced Software Engineering	✓	✓	✓
8	I	SP231EC5	Elective Course II: (b) Internet of Things	✓		✓
9	I	SP231EC6	Elective Course II: (c) Critical Thinking, Design Thinking and Problem Solving		✓	✓
10	I	SP231EP1	Elective Lab Course I: Python Programming Lab	✓		✓
11.	II	SP232CC1	Core Course III: Data Mining and Warehousing	✓	✓	✓
12.	II	SP232CC2	Core Course IV: Advanced Java Programming			✓
13.	II	SP232CP1	Core Lab Course II: Advanced Java Programming Lab			✓
14.	II	SP232EC1	Elective Course III: (a) Advanced Operating Systems	✓	✓	✓
15.	II	SP232EC2	Elective Course III: (b) Mobile Computing	✓	✓	✓
16.	II	SP232EC3	Elective Course III: (c) Block Chain Technology	✓	✓	✓
17.	II	SP232EC4	Elective Course IV: (a) Artificial Intelligence & Machine Learning	✓	✓	✓
18.	II	SP232EC5	Elective Course IV: (b) Web Services	✓		✓
19.	II	SP232EC6	Elective Course IV: (c) Robotic Process Automation for Business	✓		✓
20.	II	SP232SE1	Skill Enhancement Course I: Practical: Data Mining Lab using R			✓

Item 12/BOS 23.05/14: Classification of Courses as Local / National / Regional / Global

UG

Sl. No	Semester	Course Code	Course Title	Local	National	Regional	Global
1	I	SU231CC1	Core Course I: Python Programming				✓
2	I	SU231CP1	Core Lab Course I: Python Programming Lab				✓
3	I	SU231EC1	Elective Course I: Numerical Methods	✓	✓	✓	
4	I	SU231NM1	Non Major Elective NME I: Office Automation	✓			
5	I	SU231FC1	Foundation Course: Problem Solving Techniques	✓	✓		
6	II	SU232CC1	Core Course II: Data Structure and Algorithms	✓	✓	✓	✓
7	II	SU232CP1	Core Lab Course II: Data Structure and Algorithms Lab	✓	✓	✓	✓
8	II	SU232EC1	Elective Course II: Discrete Mathematics		✓		
9	II	SU232NM1	Non Major Elective NME II: Introduction to HTML	✓			✓
10	II	SU232SE1	Skill Enhancement Course SEC - I: Advanced Excel	✓	✓	✓	✓

PG

Sl. No	Semester	Course Code	Course Title	Local	National	Regional	Global
1	I	SP231CC1	Core Course I: Analysis & Design of Algorithms	✓	✓		✓
2	I	SP231CC2	Core Course II: Object Oriented Analysis and Design & C++		✓	✓	✓
3	I	SP231CP1	Core Lab Course I: Algorithm and OOPS Lab			✓	

4	I	SP231EC1	Elective Course I: (a) Python Programming				✓
5	I	SP231EC2	Elective Course I: (b) Multimedia and its Applications				✓
6	I	SP231EC3	Elective Course I: (c) Embedded System			✓	
7	I	SP231EC4	Elective Course II: (a) Advanced Software Engineering		✓		✓
8	I	SP231EC5	Elective Course II: (b) Internet of Things				✓
9	I	SP231EC6	Elective Course II: (c) Critical Thinking, Design Thinking and Problem Solving	✓	✓		
10	I	SP231EP1	Elective Lab Course I: Python Programming Lab				✓
11	II	SP232CC1	Core Course III: Data Mining and Warehousing	✓	✓	✓	✓
12	II	SP232CC2	Core Course IV: Advanced Java Programming				✓
13	II	SP232CP1	Core Lab Course II: Advanced Java Programming Lab	✓	✓		
14	II	SP232EC1	Elective Course III: (a) Advanced Operating Systems	✓	✓	✓	✓
15	II	SP232EC2	Elective Course III: (b) Mobile Computing	✓	✓	✓	✓
16	II	SP232EC3	Elective Course III: (c) Block Chain Technology	✓	✓	✓	✓
17	II	SP232EC4	Elective Course IV: (a) Artificial Intelligence & Machine Learning	✓	✓	✓	✓
18	II	SP232EC5	Elective Course IV: (b) Web Services	✓	✓	✓	✓
19	II	SP232EC6	Elective Course IV: (c) Robotic Process Automation for Business	✓	✓	✓	✓
20	II	SP232SE1	Skill Enhancement Course I: Practical: Data Mining Lab using R				✓

Item 13/BOS 23.05/15: Classification of Courses as Crosscutting Issues Gender Equity / Environment and Sustainability / Human Values / Professional Ethics / Indian Knowledge System

UG

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

PG

The Core Course I: Analysis & Design of Algorithms (SP231CC1) in Semester I is classified as Crosscutting Issue, Professional Ethics.

Item 14/BOS 23.05/16: Recommendation of books and journals for UG and PG

1. Refer UGC Care List Journals and IEEE papers to the PG students for better teaching and learning techniques.
2. Board suggests to use the text books and reference books given in the TANSICHE structure for UG programme.

Item 15/BOS 23.05/17: Suggestions for innovative teaching and evaluation techniques for UG and PG

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

1. Internal evaluation based on class room assessments such as Quizzes, Kahoot, Moodle, Google classroom.
2. Use of the participative learning techniques like Blended Class room, Peer teaching, Flip Class, Group discussion, Case study.

Item 16/BOS 23.05/18: Conduct of seminars / workshops in collaborations with Government Agents / Universities / NGOs

The BoS members suggested conducting workshops on Hardware Training, Internet of Things, and Robotics. They also suggested to conduct seminars on current trending technologies.

Item 17/BOS 23.05/19: New Measures to be undertaken by the department

The BoS members suggested to have MoU with an industry and to develop a software for the institution.

Item 18/BOS 23.05/20: Feedback and Action Taken

Stakeholders	Feedback Received	Action Taken
Students	Need materials for study	Provided
Parents	Add special training programmes	Many value added courses were conducted
Teachers	More entrepreneurial courses should be included.	Increased the number of courses.
Alumni	Text books should be updated	Implemented
Employers	Job oriented courses can be introduced	More employability related courses are included in the new curriculum.
Academic Peers	Appreciated the syllabus	-

Feedback from student representatives

Update the syllabus with current trend technologies. The textbooks should be updated. Conduct many workshops, seminars, hardware training courses to update the skills and knowledge.

B. Ancie Moul 

R. Rofeena 




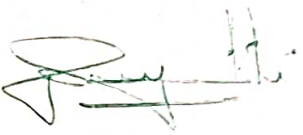
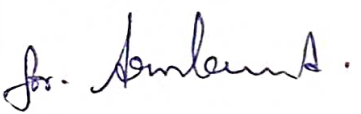



Item 19/BOS 23.05/21: Next meeting of the BoS

The members of the board suggested to have the next meeting of BoS in the month of April, 2024. The meeting ended at 1:30 pm.

Item 20/BOS 23.05/22: Any other

Nil

Details of Board Members with their Signature

Name of the Members	Designation	Signature
J. Anto Hepzie Bai	Assistant Professor & Head, Department of Computer Science Holy Cross College (Autonomous) Nagercoil	
Dr. S. P. Victor	Associate Professor, Department of Computer Science St.Xavier's College Palayamkottai	
Dr. K. Pazhani Kumar	Head, Department of Computer Science S.T. Hindu College Nagercoil	
Dr. G. Suganthi	Associate Professor & Head, Department of Computer Science Womens Christian College Nagercoil	
Mr. Paul Raj	CEO, Infinisol Technology Pvt. Ltd Bangalore.	
Ms. A. Akkanisha	Alumni, II MCA, (St.Xaviers Catholic College of Engineering)	
Mrs. M. Nithila	Assistant Professor	M. Nithila David
Dr. F. Fanax Femy	Assistant Professor	
Mrs. V.R. Bithiah Blessie	Assistant Professor	
Dr.S.Immaculate Shyla	Assistant Professor	