

Accredited BY NBA | AICTE Sponsored Margdarshan Mentor Institution

DST-FIST Supported Institution | ISO 9001:2015 Certified

Recognized under Section 2(f) & 12(B) of the UGC Act, 1950

f/fxengg /fxengg /fx_ec /fxer /fxer /francisxavierengineeringcollege

Department of Computer Science and Engineering

9TH BOARD OF STUDIES MEETING

FXEC\CSE\2022-2023\BOS-9 Minutes
(Activity code: ACT/22-23/01595)

Mode: Hybrid

Venue: Lab-3

Google Meet link: https://meet.google.com/vbe-yisq-ych

Date & Time: 12.06.2023 & 10:00 AM

AGENDA

BoS/CSE 9.1: Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Computer Science and Engineering

BoS/CSE 9.2: Confirmation of the Minutes of the 8th meeting of Board of studies in the department of Computer Science and Engineering held on 25.02.2023 and Action taken report of 8th meeting of Board of studies (Annexure – I)

BoS /CSE 9.3: Business brought forward by the Chairman, Board of Studies

- 9.3.1 Curriculum & Syllabus for R2021 B.E Computer Science and Engineering (6th Semester & 7th Semester)
- 9.3.2 Curriculum & Syllabus (Professional Elective II, III, IV, V & VI) for R2021

 B.E Computer Science and Engineering
- 9.3.3 Curriculum & Syllabus (Open Elective-III & IV) for R2021 B.E Computer Science and Engineering
- 9.3.4 Curriculum for Tamil Courses (Annexure II)
- 9.3.5 Value Added Courses (Annexure III)
- 9.3.6 NPTEL Courses (Annexure IV)

BoS / CSE 9.4: Suggestions given by the BOS Members

BoS / CSE 9.5: Any other items for discussion

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING MINUTES OF THE MEETING

The 9th Meeting of the Board of studies of the Department of Computer Science and Engineering was held on 12th June 2023 at 10 am.

The following members were present:

1. Head of BOS

Prof. Dr.G.Aravind Swaminathan, Professor/Head, Department of Computer Science and Engineering, Francis Xavier Engineering College, Tirunelyeli

2. University Nominee

Dr.C. Senthil Kumar,

Associate Professor,

Department of Computer Science and Engineering,

Thiagarajar College of Engineering.

3. Academic Experts

Dr.E.llavarasan

Professor/CSE,

Pudhucherry Technological University (Formally Pondicherry Engineering College),

Pondicherry- 605014.

Dr.D Murugan

Professor/CSE,

Manonmanium Sundaranar University,

Tirunelveli-627012

4. Industrial Experts

Mr.Prabagar Ramamurthy

Head,

Information Security Management,

Tata Consultancy-Services,

1/G1,Sipcot,IT Park,

Siruchery,

Chennai -600006

5. Alumni Members

Mr.Abishek Stephen

Senior Backend Engineer,

Turing,

Palo Alto, California,

USA

· 6. Internal Members

S. No	Name of the Member	Designation		
1.	Dr.R.Ravi	Professor/CSE		
2.	Dr.S.Balaji	Professor/CSE,		
3.	Dr.C.Yesubai Rubavathi	Professor/CSE		
4.	Dr.Y. Harold Robinson	Professor/CSE		
5	Dr.E.Manohar	Assoc. Prof /CSE		
6.	Dr.R.Tino Merlin	Assoc. Prof / CSE		
7.	Mr.J.Zahariya Gabriel	AP/ CSE		
8.	Mrs.P.Brundha	AP/ CSE		
9.	Mrs.J.Priskilla Angel Rani	AP/CSE		
10.	Mr.K.Sivakumar	AP/ CSE		
. 11.	Mrs.N.RajaPriya	AP/ CSE		
12.	Mr.S.Malaiarasan	- AP/CSE		
13.	Mrs.P.Jenifer	AP/ CSE		
14.	Mrs.M.Sharon Nisha	AP/ CSE		
15.	Mr.M.Mukesh krishnan	AP/ CSE		
16.	Mrs.A.Muthu Lakshmi	AP/ CSE		
17.	Mrs.M.Bagya Lakshmi	AP/CSE ·		
18.	Mr.S.Sivaraj	AP/ CSE.		
19.	Mrs.D.Elizabeth Paulsyah	AP/ CSE		
20.	Mrs.J.Doulas	AP/ CSE		
21.	Mr.N.Raghavendran	AP/ CSE		
22.	Mrs.M.Mariammal	AP/ CSE		
23.	Mrs.B.Diviyapriya	AP/ CSE		
24.	Mrs.A. Euodial	AP/ CSE		

Members Absent - Nil

Board of Studies Meeting started with a prayer and welcome address by Mrs.J.Priskilla Angel Rani,AP/CSE

BoS /CSE 9.1: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Chairman, BOS of the Computer Science and Engineering welcomed and introduced the members of 9th Board of Studies and thanked each of them for sparing their valuable time to attend the meeting.

The Chairman presented the Vision, Mission, PEO and PSO of the Department for approval to the BoS Members

BoS /CSE 9.2: TO CONFIRM THE MINUTES OF EIGHTH BOS MEETING HELD ON 25.02.2023

The Minutes of the Eighth Board of Studies meeting held on 25.02.2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 8th Academic Council Meeting.

✓ Action Taken Report [Enclosed in Annexure I]

BoS / CSE 9.3: Business brought forward by the Chairman, Board of Studies

BoS / CSE 9.3.1: TO CONFIRM AND APPROVE the Curriculum & Syllabus (6th & 7th Semester) for R2021 B.E Computer Science and Engineering

The Curriculum and Syllabus of 6^{th} & 7^{th} Semester were framed and it was presented by the chairman BOS

The Course Outcomes and Mapping of CO Vs PO and CO Vs PSO was presented by the chairman BOS

✓ RESOLVED TO APPROVE the Curriculum & Syllabus for R2021 B.E Computer Science and Engineering

BoS / CSE 9.3.2: TO CONFIRM AND APPROVE the Curriculum & (Professional Elective - II, III, IV, V & VI) Syllabus for R2021 B.E Computer Science and Engineering

The Curriculum and Professional Elective Syllabus were framed and it was presented by the chairman BOS

The Course Outcomes and Mapping of CO Vs PO and CO Vs PSO was presented by the chairman BOS

✓ RESOLVED TO APPROVE the Curriculum & Syllabus for R2021 B.E Computer Science and Engineering

BoS / CSE 9.3.3: TO CONFIRM AND APPROVE the Curriculum & (Open Elective-III & IV) Syllabus for R2021

The Curriculum and Open Elective - III & IV Syllabus were framed and it was presented by the chairman BOS

The Course Outcomes and Mapping of CO Vs PO and CO Vs PSO was presented by the chairman BOS

✓ RESOLVED TO APPROVE the Curriculum & Syllabus for R2021 B.E Computer Science and Engineering

BoS / CSE 9.3.4: TO CONFIRM AND APPROVE the TAMIL Courses

The Tamil Courses has been proposed for 2 credits as follows.

Semester 1- one credit theory course

Semester 2 - one credit theory course

✓ RESOLVED TO APPROVE the Tamil Courses (Annexure II)

BoS / CSE 9.3.5: TO CONFIRM AND APPROVE the Value Added Courses

Value Added Courses

The Value Added Courses such as AngularJS Essentials, ReactJS Essentials, Kotlin Programming and Flutter Essentials.

In addition Cisco Certifications from CISCO Academy on Introduction to Cyber Security for First Semester, Cisco Certified Network Associate (CCNA) for Fourth Semester offered as part of R2019 is to be offered for R2021 and Certification on Python Essentials to be provided in the Fifth Semester for R2021 and Cloud Security in the Seventh Semester were presented by the chairman BOS

The Course Outcomes and Mapping of CO Vs PO and CO Vs PSO was presented by the chairman BOS

✓ RESOLVED TO APPROVE the Value Added Courses (Annexure – III)

BoS / CSE 9.3.6: TO CONFIRM AND APPROVE the NPTEL Courses

The List of NPTEL Online Courses to be opted for the students from 5th semester instead of Professional Elective Courses in the overall curriculum were discussed

✓ RESOLVED TO APPROVE the NPTEL Courses (Annexure – IV)

BoS / CSE 9.4: Suggestions Given by the Members

R2021 B.E Computer Science and Engineering: Semester - 6

- 9.4.1 In Professional Elective –II ,21CS6702 Java Enterprise Technologies, JDK 8 to JDK 11 Versions can be used
- 9.4.2 In Professional Elective –II ,21CS6703 Micro Controlled Based System Design, since Raspberry Pi is in demand, we can also use Nvidia Jetson Nano kit for developing embedded products
- 9.4.3 In Professional Elective II, 21CS6704- Wireless Network Technologies, Unit-3 4G Overview can be included in Unit-5 5G Communications can be included and also the concepts of WPA3 can be included
- 9.4.4 In Open Elective III, 21CS6801- Cloud Computing Technologies, Unit II & III is to be swapped and the concepts of Docker, Container, Hypervisor, kubernetes is to be included
- 9.4.5 In Open Elective III, 21CS6802 Web Technology Unit-I, web 3.0 version is to be included and in addition to JavaScript, Nodejs is also to be included. The Concept of json is also to be included
- 9.4.6 In Professional core, 21CS6602- Artificial Intelligence Practices, the concepts of Prompt Engineering and Chat GPT is to be included
- 9.4.7 In Open Elective III, 21CS6805 Cyber Security Essentials, the concepts of Asymmetric Encryption, Web Application Firewall (WAF) and Intrusion Prevention System(IPS) is to be added also in Unit-5 Network Time Security (NTS) is to be added

R2021 B.E Computer Science and Engineering: Semester - 7

- 9.4.8 In Professional Core, 21CS7601- Cloud Computing, Unit II & III is to be swapped and the concepts of Docker, Container, Hypervisor, kubernetes is to be included. In Unit-5, include the topics of Azure cloud, AWS Cloud and Power BI
- 9.4.9 In Professional Elective V, 21CS7706 Full Stack Application Development Recent Frameworks can be used
- 9.4.10 In Professional Elective VI, 21CS7708 Information Security, In Unit-IV the old ISO 27001/BS, ISO 27017, ISO 27018 is to be replaced with latest ISO 17799/BS 7799, VISA International Security Model can be replaced with Payment Card Industry Data Security Standard (PCIDSS), Intrusion Prevention System(IPS) can be added in Logical Design

- 9.4.11 In Open Elective IV, 21CS7805 Cyber Forensics, the syllabus is to be revised to litter manner
- 9.4.12 In Practical Courses, 21CS7611- Cloud Computing Laboratory, Windows 10 or 11 Version is to be installed. Installation of Docker from Dockerhub and creating Containers using Dockers and uploading the containers in cloud is to be done. Also Replace Private Cloud with Secure Cloud.

BoS / CSE 9.5: Any other items for discussion

9.5.1 Text Books and Reference Books can be of recent editions

Dr.G.Aravind Swaminathan, Professor/HOD thanked all the members for their kind cooperation and the meeting came to an end.

CHAIRMAN BOARD OF STUDIES

Attendance Sheet Table of Members:

S. No	Members as per UGC Norms	Members Nominated	Signature
1	Head of the Department concerned (Chairman)	Dr.G.Aravind Swaminathan, Professor/Head, Department of Computer Science and Engineering, Francis Xavier Engineering College, Tirunelveli	G, 2/6 /2003
2	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Dr.C. Senthil Kumar, Associate Professor, Department of Computer Science and Engineering,	Christan
3	Two experts in the subject from outside the college nominated	Dr.E.llavarasan Professor/CSE, Pudhucherry Technological University(Formally Pondicherry Engineering College), Pondicherry- 605014.	Dish
	by the Academic Council	Dr.D.Murugan Professor/CSE, Manonmanium Sundaranar University, Tirunelveli-627012	4.19°
4	One representative from industry/corporate sector/allied area relating to placement	Mr.Prabagar Ramamurthy Head, Information Security Management, Tata Consultancy Services, 1/G1,Sipcot,IT Park, Siruchery, Chennai -600006	ON:
. 5	One Post Graduate meritorious aluminous nominated by the Principal	Mr.Abishek Stephen Senior Backend Engineer, Turing, Palo Alto, California, USA	O Drive

S. No	Name of the Member	Designation	Signature
1.	Dr.R.Ravi	Professor/CSE	133
2.	Dr.S.Balaji	Professor/CSE	8.2
3.	Dr.C.Yesubai Rubavathi	Professor/CSE	gens
4.	Dr.Y. Harold Robinson	Professor/CSE	ymi
5.	Dr.E.Manohar	Assoc. Prof /CSE	Eu
6.	Dr.R.Tino Merlin	Assoc. Prof / CSE	(3)
7.	Mr.J.Zahariya Gabriel	AP/CSE	RO
8.	Mrs.P.Brundha	AP/ CSE	Bry.
. 9.	Mrs.J.Priskilla Angel Rani	AP/ CSE	A
10.	Mr.K.Sivakumar	AP/ CSE	3
11.	Mrs.N.RajaPriya	AP/ CSE	0
12.	Mr.S.Malaiarasan	AP/ CSE	4/1
13.	Mrs.P.Jenifer	AP/ CSE	- de
14.	Mrs.M.Sharon Nisha	AP/ CSE	about 1
15.	Mr.M.Mukesh krishnan	AP/ CSE	but
16.	Mrs.A.Muthu Lakshmi	AP/ CSE	dia
17.	Mrs.M.Bagya Lakshmi	AP/ CSE	The second
18.	Mr.S.Sivaraj	AP/ CSE	No.
19.	Mrs.D.Elizabeth Paulsyah	AP/ CSE	8
20.	Mrs.J.Doulas	AP/ CSE	ON.
21.	Mr.N.Raghavendran	AP/ CSE	de Trus
22.	Mrs.M.Mariammal	AP/ CSE	MAN
23.	Mrs.B.Diviyapriya	AP/ CSE	(B)
24.	Mrs.A. Euodial	AP/ CSE	A)

Annexure – I

Minutes of 8th Board of Studies Meeting – Action Taken Report

S.No	Suggestions	Action Plan	Reflection in the Curriculum		
1.	Suggested regarding the 21CS5602 - Computer Networks Course the Course Outcomes and the CO Vs PO Mapping must be revisited	Course Outcomes and the CO Vs PO Mapping corrected	Page No:176		
2.	Professional Elective-I, 21CS5703- IoT and its Applications Course, Sensors in IoT can be included	Included the topic in Unit-I Syllabus	Page No:197		
3.	Open Elective-1,21CS5801-Basics of Networking Course in Unit-1 Basics of Network such as Routers and Switches can be added	Included the topics in Unit-I Syllabus	Page No:208		
4.	Open Elective -I, 21CS5809- Digital Computer Organization Course, topics such as Pipeline, GPU and Parallel processing can be included.	Included the topics in the Unit –I,II & III	Page No:239		

Annexure - II

SEMESTER I

S. No	Course Code	Course Name	Category	Contact Periods	L	T	P	С
	ory Courses	potentia · On 18				Ι.		
1	21MA1201	Matrices and Advanced Calculus	BS	4	3	1	, 0	4
2	21PH1301	Physics for Engineers	BS	3	3	0	'0	, 3
3	21CY1401	Engineering Chemistry	BS	3	3	0	. 0	3
4	21CS1501	ES	3	2.	1	0 ,	3	
The	ory cum Pra	using C ctical Courses		- 1		' '		
1	21HS1101	English for Professional Communication	HSSM	4	2	0	1	3
Pra	ectical Course			•	_		4	2
1	21PY1311		BS	4	0	0	4	
2	Programming Practice Laboratory		. ES	4	0	0	4	2
M	andatory Cou		1977				0	1
1		0	HSSM	1	1_	0	0	
1	211131103	Total		26	14	2	,9	21

SEMESTER II

S.No	Course ·	Course Name	Category	Contact Periods	L	T	P ,	С
Theo	ry Courses					٠, ١	0	2
1	21HS2101	English for Technical Communication	HSSM	2 '	2	0	0	
2	21MA2201	Partial Differential Equation and Applications of Fourier Series	BS	4 .	3	1	0	4
3	21EE2503	Fundamentals of Electrical and Electronics Engineering	ES	. 3	3	0	0	3
Theo	ry cum Practi							
1	21CS2501	Introduction to Computing using Python	ES	5	3	0	2	4
2	21ME1513	Computer Aided Engineering Graphics	ES	5	3	0	,2	4
Prac	tical Courses							
1	21EE2511	Fundamentals of Electrical and Electronics Engineering Lab	ES	4	0,	0	4	2
2	21CS2312	Computer Hardware and Software Tools Laboratory	ES	4	0	0	4	2
Man	datory Course							
1	21GE2M01	Indian Constitution • and Cultural Heritage**	МС	2 .	2	0	0	0
2	21HS2103	Technology in Tamil Culture தமிழரும் தொழில்நுட்பமும்	HSSM	. 1	1	0	Ö	1
_		1	Total	30	17	1	12	22

Annexure - III
List of Value Added Courses (2022-2026)

S. No	Course Code	Course Name	SEM	Contact Periods	L	Т	Р ,	,C
1.	21CS2V01	AngularJS Essentials	II	60	0	0'	4	2
2.	21CS3V01	ReactJS Essentials	III	. 60	.0	0	4	2
3.	21CS4V01	Kotlin Programming	IV	60	0	0	4	2
4.	21CS5V01	Flutter Essentials	v	60	0	0	.4	2

Annexure - IV

LIST OF NPTEL COURSES LIST OF NPTEL COURSES - 2023-2024 ODD

s.NO	COURSE	COURSE NAME	DURATION (WEEKS)	COURSE STARTS	EXAM DATE	URL
1	noc23- cs110	Deep Learning IIT Ropar	12 Weeks	Jul 24, 2023	Oct 13, 2023	https://onlinecourses.nptel.ac.in /noc23_cs110/preview
2	noc23- cs103	Getting Started With Competitive Programming	12 Weeks	Jul 24, 2023	Oct 13, 2023	https://onlinecourses.nptel.ac.in/noc23_cs103/preview
3	noc23- cs104	Applied Accelerated Artificial Intelligence	12 Weeks	Jul 24, 2023	Oct 13, 2023	https://onlinecourses.nptel.ac.in /noc23_cs104/preview
4	noc23- cs117	Introduction to Game Theory and Mechanism Design	12 Weeks	Jul 24, 2023	Oct 13, 2023	https://onlinecourses.nptel.ac.in /noc23_cs117/preview
5	noc23- cs68	Advanced Distributed Systems	12 Weeks	Jul 24, 2023	Oct 13, 2023	https://onlinecourses.nptel.ac.in /noc23_cs68/preview
6	noc23- cs78	Programming In Modern C++	12 Weeks	Jul 24, 2023	Oct 13, 2023	https://onlinecourses.nptel.ac.in /noc23_cs78/preview
7	noc23- cs77	Computer Vision	12 Weeks	Jul 24, 2023	Oct 13, 2023	https://onlinecourses.nptel.ac.in /noc23_cs77/preview

Department of Computer Science and Engineering SCREEN SHOTS & GEO TAG PHOTOS

venue: Lab-3

Date & Time: 12.06.2023 & 10:00 AM











