

**Department of Information Technology**

**MINUTES OF THE TENTH BOARD OF STUDIES MEETING**

**Venue:** CSE Lab-3

**Date & Time:** 12.12.2023 & 11:45 AM

The 10<sup>th</sup> Meeting of the Board of studies of the Department of Information Technology was held on 12<sup>th</sup> December, 2023 at 11.45 AM in the CSE – Lab 3 of the Francis Xavier Engineering College through Hybrid mode.

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

Meeting was convened under the Chairmanship of **Dr.G.Aravind Swaminathan, HOD/CSE**

**MEMBERS PRESENT**

S.No	Name	External / Internal Members
1	<b>Dr.G.Aravind Swaminathan.</b> Prof & Head Department of Computer Science and Engineering, Francis Xavier Engineering College Tirunelveli.	Chairman
2	<b>Dr J.B. Shajilin Loret</b> Professor & Head Department of Information Technology, Francis Xavier Engineering College Tirunelveli.	HOD – IT
3	<b>Dr. C.Senthil Kumar,</b> Associate Professor, Department of Computer Science and Engineering, Thiagarajar College of Engineering, Madurai.	External – Anna University Nominee
4	<b>Dr.E.Illavarasan,</b> Professor, Department of Computer Science and Engineering, Puducherry Technological University, Pondicherry – 605014.	External – Academic Expert

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5	<b>Dr.D.Murugan,</b> Professor, Department of Computer Science and Engineering, Manonmanium Sundaranar University, Tirunelveli - 627012	External - Academic Expert
6	<b>Mr.Prabagar Ramamurthy</b> Head,Information Security Management, Tata Consultancy Services, 1/G1,Sipcot,IT Park, Siruchery, Chennai -600006	External - Industrial Expert
7	<b>Mr.Abishek Stephen</b> Senior Backend Engineer, Turing,Palo Alto, California, USA	External - Alumni
8	<b>Dr. L R Priya,</b> Professor/Academics	Internal
9	<b>Dr. Rajakumar M</b> COE & Professor/ECE	Internal
10	<b>Dr. M Caroline Viola Stella Mary,</b> Prof& ERP /IT	Internal
11	Mr. G.Prince Devaraj, Associate Prof / IT	Internal
12	Dr T C Subbulakshmi, Asso. Prof/IT	Internal
13	Mr. AntoTheepak T, Asso. Prof/IT	Internal
14	Ms Agnes Joshy S AP/IT	Internal
15	Dr.A.Jainul Fathima, AP / IT	Internal
16	Ms.Nishan A H, AP / IT	Internal
17	Ms. S.S Deepthi, AP/IT	Internal
17	Ms.T.Nancy Lydia, AP /IT	Internal
18	Ms.P.Sathya AP/IT	Internal
19	Mr. Richard Singh Samuel, AP/IT	Internal
20.	Ms.R Shirly Myrtle, AP/IT	Internal
21.	Ms.Jean Celia Grace, AP/IT	Internal
22.	Ms.Arunadevi, AP/IT	Internal
23.	Ms.Agnes, AP/IT	Internal

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### MINUTES OF MEETING

BOS Chairman Prof. **Dr. G. Aravind Swaminathan** welcomed the members of the Board of Studies. **Dr. J.B Shajilin Loreet - HoD / IT** highlighted the importance of the 10<sup>th</sup> board of Studies meeting. She requested the University Nominee and other Expert members to give valuable suggestion from the outcome of R-2021 measures to plan for UG/PG 2024 regulation.

Prof. Dr. J B. Shajilin Loreet, HOD/IT welcomed the Board of Studies external members University Nominee, Expert members, an Industry member and an alumnus of the college. The HOD - IT outlined the agenda for discussion in the meeting.

#### **Agenda:**

<b>Item No.</b>	<b>Particulars</b>
Item: 10.1	9 <sup>th</sup> BOS Minutes and Action Taken report of 9 <sup>th</sup> Board of Studies
Item: 10.2	Outcome of R-2021 measures
Item 10.3	Planning for UG/PG 2024 regulation
Item 10.4	NPTEL Courses
Item: 10.5	Others

#### **Item 10.1 Action Taken report of 9<sup>th</sup> Board of Studies**

- The HOD - IT presented the corrections incorporated in the regulation 2021 curriculum and syllabus based on the valuable suggestions given by university nominee and industry experts in the 9<sup>th</sup> BOS.

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S.No	Suggestions	Action Plan	Reflection in the Curriculum
1.	<b>21IT6602: Network and Information Security</b> , the panel suggested to include the updated edition books	As per the suggestion given, updated the recent text books.	Pg. No : 222
2	<b>21IT6601: Internet of Things</b> , suggested including the theoretical part for the concepts of Wi-Fi and Bluetooth module. Pre-requisite should be added	Pre-requisite has been added.  The theoretical <b>concept for Wi-Fi and Bluetooth has been included in the syllabus.</b>	Pg. No : 226
3	<b>21IT6701: Network Programming</b> , the experts suggested to bring Unix Standards topic at the end of the Unit I. They insisted to reframe Unit IV.	As per the suggestions of the expert members, reframed the topics of Unit IV and rearranged the topics of Unit I.	Pg. No : 281
4	<b>21IT6702: Statistical Analytics using R</b> , the members suggested updating the text books within last 5 years.	As per the instruction received in the 9 <sup>th</sup> BOS, the text <b>books have</b> been updated.	Pg. No : 284
5	<b>21IT6704: Multimedia Systems and Technologies</b> ,	According to the suggestions of 9 <sup>th</sup> BOS,	Pg. No : 290



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	the expert members suggested to include the case studies regarding the training phase of AI image recognition. They also suggested updating the recent text books.	the case studies relevant to the AI Image Recognition has been included and updated the recent text books.	
6	<b>21IT6705: Edge and Fog Computing</b> , the experts insisted to include the edge devices and also to replace the topics Dockers and edge cloud architecture	On the basis of the suggestion received the topics such as <b>Dockers and Edge cloud architecture</b> has been removed and included the concepts of edge devices.	Pg. No : 293
7	<b>21IT6710: Ethical Hacking</b> , the expert members suggested to include WPA, N-map, kali-Linux which is an updated one	As specified, included the preferred topics such as WPA, Nmap, and the updated version of Kali Linux in the syllabus.	Pg.No : 311
8	<b>21IT6711: Computer Modeling and Animation</b> , the panel members suggested to include Ray-tracing concepts within the syllabus	In accord with the suggestions given, included the concept of Ray-tracing.	Pg. No : 314
9	<b>21IT6713: Wireless Communication</b> , the board	Incorporated the replacement of wireless	Pg. No : 321

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	members suggested to include the wireless security concepts instead of the Equalization and Diversity	security concepts instead of equalization and diversity, by following the suggestions given in the 9 <sup>th</sup> BOS.	
10	<b>21IT7705: Agile Methodologies and DEVOPS,</b> the experts suggested to include the concept of web hook.	According to the suggestion given, included the concept of web hook in the syllabus.	Pg. No : 352
11	<b>21IT7707: Internet Security,</b> the expert members suggested to remove the topics such as secure coding practice and input validation, security testing techniques. They recommended including WRAF.	In accordance to the suggestion given by the expert members of 9 <sup>th</sup> BOS, the insisted topics have been removed and included WRAF.	Pg. No : 359
12	<b>21IT7710: Next Generation Networks,</b> the experts suggested including the concepts of Optimal Networks and SDN (Software Define Networks) in Unit III.	As per the suggestions given in the 9 <sup>th</sup> BOS, the concepts of Optimal Networks and SDN has been included to the Unit III.	Pg. No : 368
13	<b>21IT7714: Cloud Security,</b> the expert members suggested	According to the suggestions of the Board	Pg. No : 381

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	to change topics the secure cloud software testing of Unit I, Autonomic Security of Unit II and IBM Security of Unit IV .	Members, revised the specified topics.	
14	<b>High Performance Networks</b> , the expert members suggested revising the contents.	As per the suggestion given by the expert members, the syllabus of the course has been revised and reframed.	Pg. No : 336

- **For 21IT7707: Internet Security**, in accordance to the suggestion given by the expert members of 10<sup>th</sup> BOS, they insisted to include WAF in 5<sup>th</sup> unit.

### Item 10.2 Outcome of R-2021 measures

- HOD IT presented, the details of students undergone Industrial Training/Internship and credit transfer.
- HOD IT presented that, 55 Students have undergone **Industry Supported Course** and has been successfully **benefitted through the credit transfer** privilege of the academic regulation. The Board members acknowledged the successful completion of the Industry Supported Course and its impact on students academic growth
- In order to meet with the objective of integrating industry expertise into the academic curriculum of Regulation 2021, the department has planned to give the **Industry Supported Course** with the two Theory cum Practical - Professional Core courses facilitated by distinguished industry experts. The courses, complementing the Regulation 2021 syllabus, will also feature hands-on training sessions conducted by the industry professionals. The specifics of these courses are as follows:

**Course: 21IT4603 - DATABASE SYSTEMS**

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**Course: 21IT6601 - INTERNET OF THINGS**

- These courses aims to enrich the academic experience by providing students with practical insights and skills directly from industry practitioners, thereby bridging the gap between academic learning and industry demands.
- She presented the details of **credit transfer through NPTEL course**. 3 students of 2019-2023 batch has been successfully completed the NPTEL courses with high score, by which they have replaced the open elective course through the approval of DCC Member for the credit transfer registration of students. Whereas in the subsequent batches 2020-2024 and 2021-2025, only 3 students have been undergone the NPTEL Course successfully.
- The target has been fixed towards the increase of credit transfer beneficiaries to motivate at-least 50 students towards the process.
- HOD IT presented the **Skill Based Value Added Courses for Regulation 2021** and elaborated the plan of the upcoming skill courses and recorded that the previous skill based value added courses for 60 hours has been successfully completed with the massive effort of the trainers, where the students will be getting added 2 credits through each skill course.

SKILL CODE	SKILL NAME	SEMESTER	CONTACT PERIODS	CREDIT
21FCIT01	Computer Hardware Mantling and Dismantling	1	6	-
21FCIT02	Animation Tool : CANVA,FIGMA	1	6	-
21MSIT03	Boot Camp on Data Analysis Tools	2	60	2
21MSIT04	Programming Boot Camp in Linux Environment	3	60	2



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21MSIT05	Programming Boot Camp in Advanced Algorithms	4	60	2
21MSIT06	Full Stack Development	5	60	2
21MSIT07	Placement Fit Training – Level 1	6	60	2
21MSIT08	Placement Fit Training – Level 2	7	60	2

- The HOD – IT presented the details of **Minor Specialization Degree**, including the number of students who have undergone course is specified along with the distribution across different disciplines for certain regulations.
- In the Regulation 2019, 23 students have been benefitted through the Data Science - Minor Specialization/ Honors Degree from various departments. As the minor specialization has been given as an inter-disciplinary, 20 students from Information Technology, 1 student from Computer Science and Engineering and the 2 students from Civil Engineering got benefitted.
- In Regulation 2021, 20 students from Information Technology, 22 students from Computer Science and Engineering, 4 students from Computer Science and Business Systems and 2 students from Electrical and Electronics Engineering are pursuing the minor specialization course.
- HOD IT presented that the department is targeting to give the flavor of Data Science – minor course to all the eligible students having more than 7.5 CGPA without any backlogs.
- She presented the importance of the Industrial mentorship for the final year project work. For the Regulation 2021, it has been decided to encourage the students to complete their final year project work in the Industries with the support of Industry mentors.

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- HOD IT presented the hardware requirements with specifications for setting-up a **New Lab** as the department has increased the intake from 60-120 from the Academic Year 2023-2024.

<b>No of System needed</b>	60 (Double Intake from Academic year 2023 -2024)
<b>Work station</b>	One High configuration Workstation NVIDIA QUADRO GP100, 128 GB RAM
<b>Processor</b>	Core i7 with 16gb RAM and 1 TB hard disk
<b>AWS Account</b>	1 for Department
<b>Power BI Account</b>	1 for Department

- The BoS Board Members approved the requirements as it is a computer allied program, and which is required to meet the social trends in the industrial world.
- The HOD IT exposed the need of **Lab up-gradation of existing lab**. It is planned to update the existing Research lab and OS lab with the specification of Core i7 with 16GB RAM and 1 TB hard disk.

#### Item 10.3 Planning for UG/PG 2024 regulation

- In order to improve the quality of education, and focus on the inter-disciplinary learning and global competitiveness also to align with the industry skills and technological advancements, it has been planned for the Regulation 2024 for the upcoming Academic Year 2024-2025.

#### Item 10.4 NPTEL COURSES

- HOD IT presented the list of NPTEL courses for the Academic Year 2023 - 2024 Even Semester with their durations. The Board members approved the same. The suggested NPTEL courses list is as follows,

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COURSE ID	COURSE NAME	DURATION
noc24-cs01	Foundations of Cryptography	12 Weeks
noc24-cs04	Privacy and Security in Online Social Media	12 weeks
noc24-cs05	Basics of Computational Complexity	12 Weeks
noc24-cs07	Secure Computation: Part I	12 Weeks
noc24-cs14	Artificial Intelligence: Knowledge Representation And Reasoning	12 Weeks
noc24-cs27	Foundations of Cyber Physical Systems	12 Weeks
noc24-cs29	Getting Started with Competitive Programming	12 Weeks
noc24-cs33	Introduction to Embedded System Design	12 Weeks
noc24-cs40	Object Oriented System Development Using UML, Java And Patterns	12 Weeks
noc24-cs44	Programming in Modern C++	12 Weeks
noc24-cs34	Introduction To Industry 4.0 And Industrial Internet Of Things	12 Weeks
noc24-cs65	Business Intelligence & Analytics	12 Weeks

*G. Aravind Swaminathan*  
15/12/2023

**Board Chairman**

Dr. G. Aravind Swaminathan

HOD/CSE

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SCREEN SHOTS



 GPS Map Camera

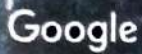
Tirunelveli, Tamil Nadu, India

Francis Xavier Engineering College, 103/G2, By pass Road, Vannarpet, Tirunelveli, Tamil Nadu 627003

Lat 8.719563°

Long 77.720209°

12/12/23 11:35 AM GMT +05:30

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## Department of Information Technology

ATTENDANCE FOR THE TENTH BOARD OF STUDIES MEETING HELD ON  
12<sup>th</sup> DECEMBER 2023 AT 11:45 AM  
VENUE: CSE LAB 3 (NETWORKS LAB)

S.No	Name	External / Internal Members	Signature
1	<b>Dr.G. Aravind Swaminathan.</b> Prof & Head Department of Computer Science and Engineering, Francis Xavier Engineering College Tirunelveli.	Chairman	 12/12/2023
2	<b>Dr. J.B. Shajilin Loret</b> Associate Professor & Head Department of Information Technology, Francis Xavier Engineering College Tirunelveli	HoD - IT	 12/12/23
3	<b>Dr. C. Senthil Kumar,</b> Associate Professor, Department of Computer Science and Engineering, Thiagarajar College of Engineering, Madurai.	External – Anna University Nominee	
4	<b>Dr.E.Illavarasan,</b> Professor, Department of Computer Science and Engineering, Puducherry Technological University, Pondicherry – 605014.	External – Academic Expert	
5	<b>Dr.D.Murugan,</b> Professor, Department of Computer Science and Engineering, Manonmanium Sundaranar University, Tirunelveli – 627012	External – Academic Expert	
6	<b>Mr.Prabagar Ramamurthy</b> Head, Information Security Management, Tata Consultancy Services, 1/G1, Sipcot, IT Park, Siruchery, Chennai - 600006	External – Industrial Expert	

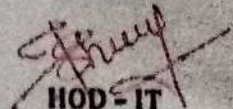
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7	<b>Mr. Abishek Stephen</b> Senior Backend Engineer, Turing, Palo Alto, California, USA	External – Alumni	<i>Abishek</i>
8	Dr. L R Priya Professor/Academics	Internal	<i>L R Priya</i>
9	Dr. Rajakumar M COE & Professor/ECE	Internal	<i>Rajakumar</i>
10	Dr. M Caroline Viola Stella Mary, Prof/IT	Internal	<i>M Caroline</i>
11	Mr. G. Prince Devaraj, Associate Prof / IT	Internal	<i>G. Prince</i>
12	Dr. T. C Subbulakshmi, Asso. Prof/IT	Internal	<i>T. C Subbulakshmi</i>
13	Mr. Anto Theepak T, Asso. Prof/IT	Internal	<i>Anto Theepak</i>
14	Dr. A. Jainul Fathima, AP / IT	Internal	<i>A. Jainul</i>
15	Ms Agnes Joshy S AP/IT	Internal	<i>S Joshy</i>
16	Ms. T. Nancy Lydia, AP / IT	Internal	<i>T. Nancy</i>
17	Ms. Nishan A H, AP / IT	Internal	<i>Nishan</i>
18	Ms. P Sathya, AP/IT	Internal	<i>P Sathya</i>
19	Mr. Richard Singh Samuel, AP/IT	Internal	<i>Richard</i>
20	Ms. R Shirly Myrtle, AP/IT	Internal	<i>R Shirly</i>
21	Ms. Jean Celia Grace, AP/IT	Internal	<i>Jean</i>
22	Ms. Arunadevi, AP/IT	Internal	<i>Arunadevi</i>
23	Ms. Agnes, AP/IT	Internal	<i>Agnes</i>

Annexure - I

Minutes of 10<sup>th</sup> Board of Studies Meeting - Action Taken Report

S.No	Suggestions	Action Plan	Reflection in the Curriculum
1.	21IT7707: Internet Security, they insisted to include WAF in 5 <sup>th</sup> Unit.	As per the suggestion given, included the topic.	Pg.No : 360

  
HOD - IT