



6th BOARD OF STUDIES MEETING MINUTES

FXEC\CS&BS\2023-2024\BOS-6

Activity Code: ACT/23-24/004788

Mode: Hybrid

Venue: CSE Lab-3

Google Meet link: <https://meet.google.com/frw-kxjy-eaj>

Date & Time: 12.12.2023 & 10:00 AM

AGENDA

BoS/CSBS 6.1: Welcome address and Opening Remarks given by the Chairman, Board of Studies in the Department of Computer Science and Engineering.

BoS/CSBS 6.2: Confirmation of the minutes from the 5th Board of Studies meeting in the Department of Computer Science and Engineering, which was held on 06.12.2023 and Action taken report of 5th meeting of Board of studies

BoS /CSBS 6.3: Business brought forward by the Chairman, Board of Studies

6.3.1 Industrial Training/Internship and credit transfer

6.3.2 Industry Supported Courses

6.3.3. Value Added Courses

6.3.4. Online NPTEL Course for Credit Transfer

6.3.5. Mandatory Value Added Courses

6.3.6. Minor/ Specialization Degree details

6.3.7. Lab Upgradation and Lab Approval

BoS / CSBS 6.4: Suggestions given by the BOS Members



DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS MINUTES OF THE MEETING

The 6th Meeting of the Board of studies of the Department of Computer Science and Business Systems was held on 12th December, 2023 at 10 A.M.

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,
Tirunelveli

2. University Nominee

Dr.C. Senthil Kumar,
Associate Professor,
Department of Computer Science and Engineering,
Thiagarajar College of Engineering.

3. Academic Experts

Dr.E.Ilavarasan
Professor/CSE,
Pudhucherry Technological University (Formally Pondicherry Engineering
College),
Pondicherry- 605014.

4. **Dr.D Murugan**

Professor/CSE,
Manonmaniam Sundaranar University,
Tirunelveli-627012

5. Industrial Experts

Mr.Prabagar Ramamurthy
Head,Information Security Management,
Tata Consultancy Services,
1/G1,Sipcot,IT Park,
Siruchery,
Chennai -600006

6. Alumni Members

Mr.Abishek Stephen
Senior Backend Engineer,
Turing,
Palo Alto, California,USA



7. Internal Members

S.No	List of Staff Members	Designation
1.	Dr.S.Gomathi	Professor/ CSBS
2.	Mrs.G.Vijaya Rani	Assistant Professor/ CSBS
3.	Mrs.M.Yasmin	Assistant Professor/ CSBS
4.	Mrs.A.Anitha	Assistant Professor/ CSBS
5.	Mrs.M.Deepa	Assistant Professor/ CSBS
6.	Ms. A Arthy , AP/ CSBS	Assistant Professor/ CSBS

Board of Studies Meeting started with a prayer by **Dr.G.Aravind Swaminathan**, Professor/Head and, Dr.G.Aravind Swaminathan welcomed the gathering.

BoS / CSBS 6.1: WELCOME ADDRESS AND OPENING REMARKS GIVEN BY THE 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 6th Board of Studies and thanked each of them for sparing their valuable time to attend the meeting.

BoS /CSBS 6.2: TO CONFIRM THE MINUTES OF FIFTH BOS MEETING HELD ON 12.06.2023

The minutes of the FIFTH Board of Studies meeting held on 12.06.2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 6th Academic Council.

(Action taken report enclosed in Annexure I)

BoS / CSBS 6.3: BUSINESS BROUGHT FORWARD BY THE CHAIRMAN, BOARD OF STUDIES

BoS / CSBS 6.3.1 Industrial Training/Internship and credit transfer

- ✓ The Outcome of the students' undergone industrial training / Internship and credit transfer were presented by Head of the Department.
- ✓ It is presented that 61 students of 21-25 batch have completed 4 weeks internship Programme and 19 students from III CSBS students were doing paid internship.



BoS / CSBS 6.3.2: TO CONFIRM AND APPROVE the Industry Supported Course

- ✓ **To confirm and approve the Industry Supported course** - the syllabus was presented by the HOD/CSBS (Syllabus of Industry Supported Course list is enclosed in Annexure II)
- ✓ It has been proposed that RedHat Linux will be offered as an Industry supported course for the VI Semester students and the syllabus got approved.
- ✓ IoT and its applications will be planned to offer by Bevywise Technologies, Bangalore and Full Stack Development will be planned to offer by Vodafone, Chennai for the upcoming semester students.

BoS / CSBS 6.3.3: Value Added Skill Courses

- ✓ The list of **Value Added Skill Course** was presented by the HOD/CSBS (Value Added Skill Course list enclosed in Annexure III) and got approval from the committee members.

BoS / CSBS 6.3.4: TO CONFIRM AND APPROVE the NPTEL Courses

- ✓ The list of NPTEL Course for credit transfer was presented by the HOD/CSBS (NPTEL course list enclosed in Annexure V)

BoS / CSBS 6.3.5: Mandatory Value Added Courses

- ✓ The Outcome of the student undergone Mandatory Value Added Courses were presented by the Head of the Department (Mandatory Value Added Skill Course list enclosed in Annexure IV).

BoS / CSBS 6.3.6: Minor / Specialization Courses

- ✓ The Outcome of the students undergone Minor/ Specialization Courses were presented by the Head of the Department.
- ✓ Under **Specialization in Big data Analytics** 20 III CSBS students (21- 25 Batch) were pursuing minor courses in Big data Analytics and Data Science.
- ✓ In the forthcoming semester (2023-24 even), 22 students are willing to pursue minor Course.

BoS / CSBS 6.3.7: Lab Upgradation and Lab Approval

- ✓ Based on the R-2021 outcomes it is identified that a new lab has to be established to look forward the industry need, Department of CSBS have planned to upgrade Business Analytics lab (Statistical data Analysis) with the Software requirements and tools such as Hadoop, Anaconda, R Studio, Tableau



BoS / CSBS 6.4: Suggestions Given by the Members

6.4.1 Committee Members suggested to add Competitive programs in the NPTEL list.

6.4.2 For the Industry supported course 21CS5701 – Red Hat Certified System Administration the committee members suggested to rename the course title as **Linux System Administration**

6.4.3. For the course 21CS5701 committee members suggested to swap the Unit 1 & Unit 2

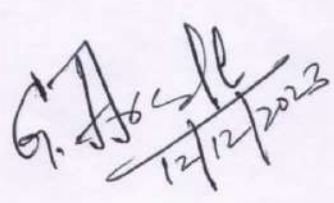

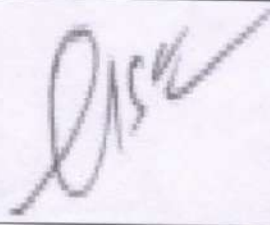
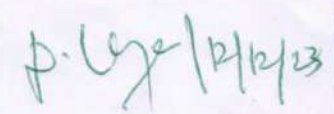


6.4.4. For the course 21CS5701, advised to include the topic Cron.

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

G. Aravind Swaminathan
15/11/2023
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	 12/12/2023
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, Thiagarajar College of Engineering.	
3	Two experts in the subject from outside the college nominated by the Academic Council	Dr.E.Illavarasan Professor/CSE, Pudhucherry Technological University(Formerly Pondicherry Engineering College), Pondicherry- 605014.	
		Dr.D.Murugan Professor/CSE, Manonmanium Sundaranar University, Tirunelveli-627012	
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	
5	Meritorious aluminous nominated by the Principal	Mr.Abishek Stephen Senior Backend Engineer, Turing, Palo Alto, California, USA	



S.No	List of Staff Members	Designation	Signature
1.	Dr.S.Gomathi	Professor/ CSBS	<i>S. S. Jay</i> 12/12/23
2.	Mrs.G.Vijaya Rani	Assistant Professor/ CSBS	<i>[Signature]</i> 12/12/23
3.	Mrs.M.Yasmin	Assistant Professor/ CSBS	<i>M. G</i> 12/12
4.	Mrs.A.Anitha	Assistant Professor/ CSBS	<i>[Signature]</i> 14/12/23
5.	Mrs.M.Deepa	Assistant Professor/ CSBS	<i>[Signature]</i> 12/12/23
6.	Ms. A. Arthy	Assistant Professor/ CSBS	<i>[Signature]</i> 12/12/23

Members Absent - Nil.



Annexure - I

Minutes of 5th Board of Studies Meeting - Action Taken Report

S.No	Suggestions	Action Plan	Reflection in the Curriculum
1.	For the course 21CB6703-Marketing Analytics, for Unit 5 the Title - CUSTOMER ANALYTICS were advised to be modified as ERP Security Issues.	Corrected and Implemented	Curriculum Page No 278
2.	For the course 21CB6603 - Legal Aspects of Information Security, for Unit 2 & 5 Contents need to be revisited and the laboratory tools such as Wireshark, Nessus were suggested to be added.	Corrected and Laboratory tools were included.	Curriculum Page No.251
3.	For the subject 21CB6705- Mobile Application Development, Prerequisite of the subject was suggested to be updated and the tool KOTLIN was suggested to be added.	KOTLIN is added as a tool and the prerequisite of the course were added.	Curriculum Page No.284
4.	For the subject 21CB7601 - Machine Learning for Finance. It is advised to change the subject name as Machine Learning in Finance.	Corrected and Implemented	Curriculum Page No.300
5.	For the subject 21CB7703- Entrepreneurship Development, committee members suggested to add Government Policies for startup in Unit IV.	Corrected and updated	Curriculum Page No. 316
6.	For the subject 21CB7705 - Predictive Analytics for Business, were advised to be reframed as Computational Finance and Modeling.	Reframed and implemented	Curriculum Page No. 330
7.	For the subject 21CB1V01 - IT Software Solutions for Business using Power BI, advised to add Prerequisite for the course.	Incorporated	Curriculum Page No.344
8.	For the subject 21CB5V01 - Mobile Application Development using Flutter it is advised to add Prerequisite for the course.	Incorporated	Curriculum Page No. 352



Annexure II

RH199	RedHat Certified System Administration - RHEL v9	L	T	P	C
Preamble		2	0	2	3
<p>This course Red Hat Certified System Administrator (RHCSA) has proven the skills and knowledge required in Red Hat Enterprise Linux environments. Red Hat Certified System Administrator (RHCSA) is able to perform the following tasks: Understand and use essential tools for handling files, directories, command-line environments, and documentation. Create simple shell scripts.</p>					
Prerequisites for the course					
<ul style="list-style-type: none"> Nil 					
Objectives					
<ul style="list-style-type: none"> To introduce the key role of an Linux Operating system To Emphasize the importance of Server Management concepts of an Enterprise Linux Operating system To Realize the significance of Software repositories and management To understand the commands for processes, files and its operations. To insist the File system Management of a Linux Operating system Comprehend the need of Security vulnerability and explore the Containerized platform offered by the Linux Operating system 					
UNIT I	INTRODUCTION LINUX OS	6			
<p>Introduction - Access Systems and Obtaining Support- Edit Text Files from the Shell Prompt- Configure SSH Key-based Authentication- Get Help From Red Hat Customer Portal- Detect and Resolve Issues with Red Hat Insights-manage Files from the Command Line -Describe Linux File System Hierarchy Concepts - Make Links Between Files- Match File Names with Shell Expansions</p>					
SUGGESTED ACTIVITIES:					
<ul style="list-style-type: none"> Quiz: Describe Linux File System Hierarchy Concepts 					
SUGGESTED EVALUATION METHODS:					
<ul style="list-style-type: none"> Assessments with MCQ 					
UNIT II	Managing User , group accounts and files	6			
<p>Manage Local Users and Groups - Describe User and Group Concepts- Gain Superuser Access- Manage Local User Accounts- Manage Local Users and Groups- Manage Local User Accounts- Managing user password- Control Access to Files- Manage File System Permissions from the Command Line- Manage Default Permissions and File Access.</p>					
SUGGESTED ACTIVITIES:					
<ul style="list-style-type: none"> Quiz: Describe User and Group Concepts 					
SUGGESTED EVALUATION METHODS:					
<ul style="list-style-type: none"> Assignment on Local and Global user , user accounts and File system permission 					



UNIT III	SECURITY IN LINUX	6
Manage SELinux Security- Change the SELinux Enforcement Mode- Control SELinux File Contexts- Adjust SELinux - Policy with Booleans- Tune System Performance- Kill Processes - Monitor Process Activity- Adjust Tuning Profiles - Influence Process Scheduling - Schedule Future Tasks - Schedule Recurring User Jobs - Manage Temporary Files.		
SUGGESTED ACTIVITIES: <ul style="list-style-type: none"> • Activity of securing the file • Working with files, process and scheduling. 		
SUGGESTED EVALUATION METHODS: Assignment on files and process		
UNIT IV	Software Repositories and File Systems	6
Install and Update Software Packages - Register Systems for Red Hat Support - Register Systems for Red Hat Support- Install and Update Software Packages with DNF - Enable DNF Software Repositories - Manage Basic Storage - Add Partitions, File Systems, and Persistent Mounts- Manage Storage Stack - Create and Extend Logical Volumes - Manage Layered Storage- Identify Automatically Started System Processes- Control System Services- Reset the Root Password- Repair File System Issues at Boot.		
SUGGESTED ACTIVITIES: <ul style="list-style-type: none"> • Team projects can be given as demo • Quiz: Register Systems 		
SUGGESTED EVALUATION METHODS: <ul style="list-style-type: none"> • MCQ assessment • Assinemet on " Working with repositories and File system concepts". 		
UNIT V	CONTAINERS and FIREWALLS	6
Analyze and Store Logs - Describe System Log Architecture- Review Syslog Files- Review System Journal Entries- Preserve the System Journal - Maintain Accurate Time-Manage Networking- Validate Network Configuration -Configure Networking from the Command Line -Edit Network Configuration Files-Access Network-Attached Storage -Manage Server Firewalls -Container Concepts -Deploy Containers -Manage Containers as System Services.		
SUGGESTED ACTIVITIES: <ul style="list-style-type: none"> • Need for organization wide standards adoption of firewalls. • Learning software tools. 		
SUGGESTED EVALUATION METHODS: <ul style="list-style-type: none"> • Working with containers and firewalls. • Assignment on selection of appropriate containers for any software development. 		
Suggestive Assessment Methods		Total Periods
		45
Continuous Assessment Test (20 Marks)	Formative Assessment Test (20 Marks)	End Semester Exams (60 Marks)



1. DESCRIPTIVE QUESTIONS	1.ASSIGNMENT 2. ONLINE MCQ 3.PROBLEM-SOLVING ACTIVITIES	1. DESCRIPTIVE QUESTIONS
Course Outcomes		
Upon completion of the course, the students will be able to:		
<p>CO1: Understand the need of a Linux Operating system, basic commands and process management functions.</p> <p>CO2: Apply the concept creating user and group account.</p> <p>CO3: Understand the commands for working with process and file system in linux.</p> <p>CO4: Apply the File system concepts and significance of Software repositories and management.</p> <p>CO5: Apply the concept of containers for different applications.</p>		
Text Books		
<p>1. Rhcsa Red Hat Enterprise Linux 8: Training and Exam Preparation Guide sa Red Hat Enterprise Linux 8: Training and Exam Preparation Guide ,ASGHAR GHORI,first Edition.</p>		
Reference Books		
Web Resources		
<ul style="list-style-type: none"> • www.redhat.com • https://www.youtube.com/watch?v=TmrS7FhaaRA&list=PLlr7wO747mNrUoTuXhZ0REJw3hL4oWvLm 		



Annexure - III
Value Added Skill Courses

S.No	Course Code	Course Name	Category	Contact Periods	L	T	P	C
1	21CB1V01	IT Software Solutions for Business Using Power BI	VAC	2	0	0	4	2
2	21CB2V02	Predictive Analytics In Digital Marketing	VAC	2	0	0	4	2



Annexure - IV
Mandatory Value Added Skill Courses

S.No	Skill Code	Skill Name	Semester	Contact Periods	C
1.	21CB1SK01	Working with Multimedia Softwares	01	60	2
2.	21CB2SK01	Front End Web Development	02	60	2
3.	21CB3SK01	Data Visualization Using Tableau	03	60	2
4.	21CB4SK01	Business Analytics with R Studio	04	60	2
5.	21CB5SK01	Data Exploration Using Python	05	60	2



Annexure - V

LIST OF NPTEL COURSES

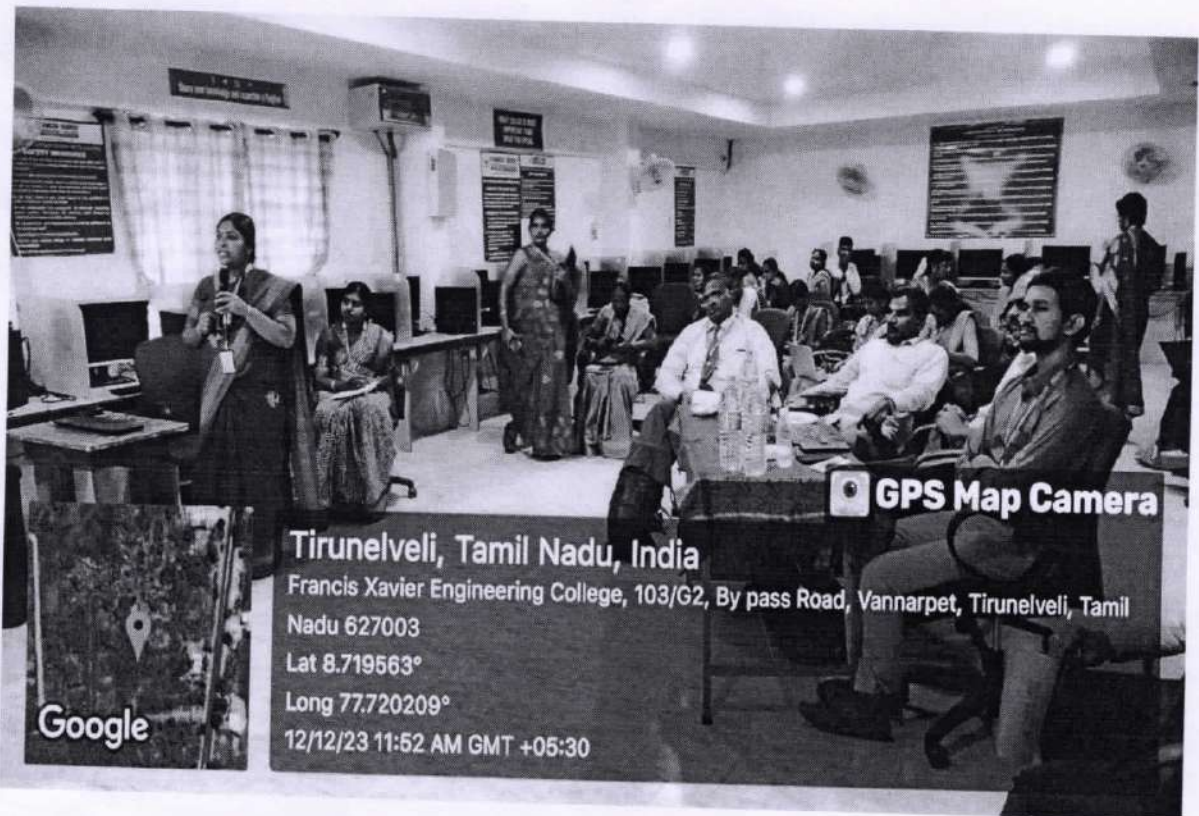
S.NO	COURSE NAME	COURSE ID	DURATION
1	Privacy and Security in Online Social Media	noc24-cs04	12 Weeks
2	Blockchain and its Applications	noc24-cs15	12 Weeks
3	Cloud Computing	noc24-cs17	12 Weeks
4	Introduction To Internet Of Things	noc24-cs35	12 Weeks
5	Natural Language Processing	noc24-cs39	12 Weeks
6	Reinforcement Learning	noc24-cs52	12 Weeks
7	Deep Learning - IIT Ropar	noc24-cs59	12 Weeks
8	Business Intelligence & Analytics	noc24-cs65	12 Weeks
9	Competitive Programming	noc24-cs29	12 Weeks

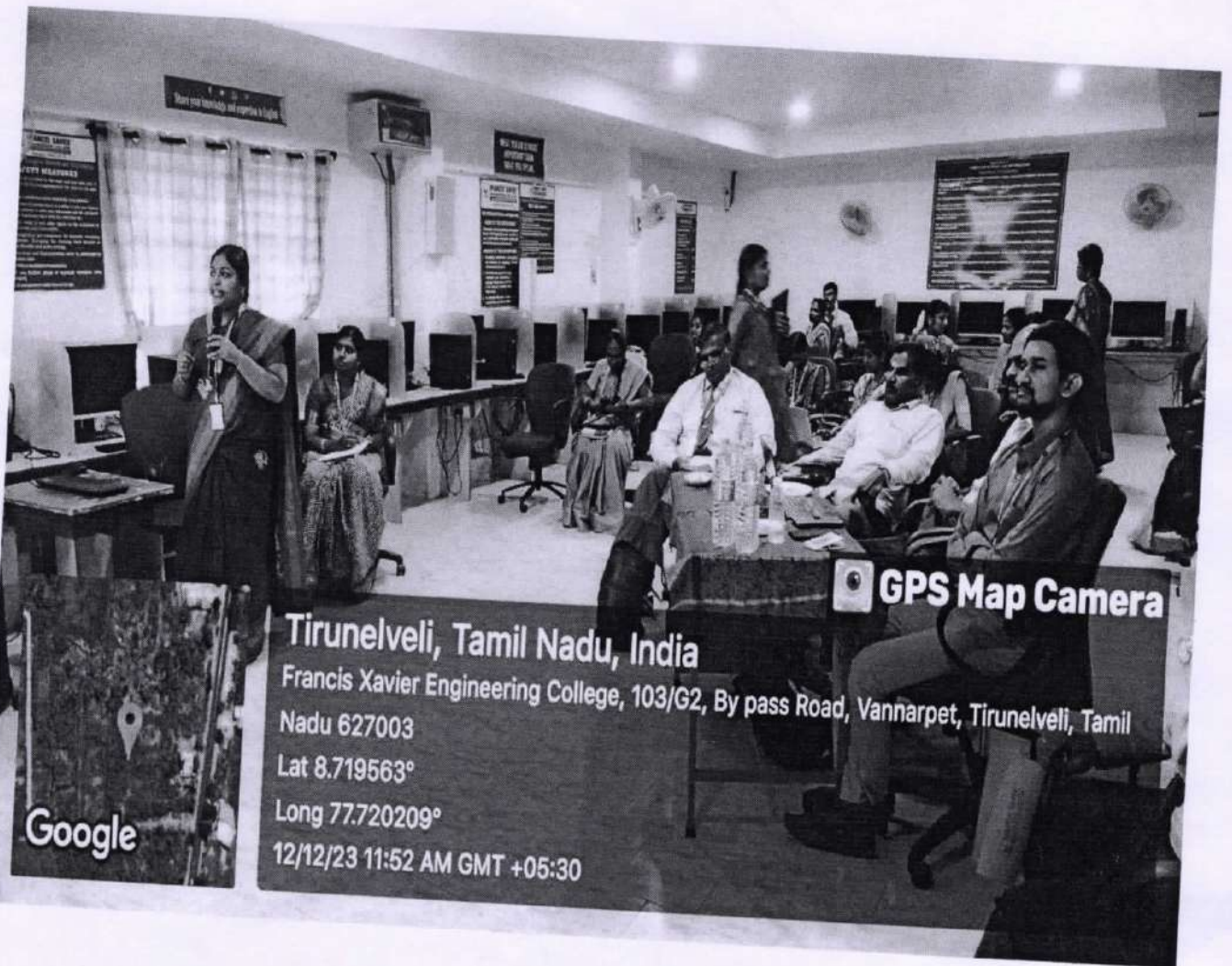


Department of Computer Science and Business Systems
SCREEN SHOTS & GEO TAG PHOTOS

Venue: Lab-3

Date & Time: 12.12.2023 & 10:00 AM





Tirunelveli, Tamil Nadu, India

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