



**4<sup>th</sup> BOARD OF STUDIES MEETING MINUTES**

FXEC\CS&BS\2022-2023\BOS-4

Activity Code: ACT/22-23/01196

Mode: Hybrid

Venue: Lab-3

Google Meet link: <https://meet.google.com/pyj-mgfo-fdw>

Date & Time: 25.02.2023 & 02:00 PM

**AGENDA**

BoS/CSBS 4.1: Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Computer Science and Engineering

BoS/CSBS 4.2: Confirmation of the Minutes of the 3<sup>rd</sup> meeting of Board of studies in the department of Computer Science and Engineering held on 18.08.2022 and Action taken report of 3<sup>rd</sup> meeting of Board of studies

BoS /CSBS 4.3: Business brought forward by the Chairman, Board of Studies

4.3.1 Curriculum & Syllabus for R2021 B.E Computer Science and Business Systems  
(5<sup>th</sup> Semester)

4.3.2 Professional Electives I, II and Open Elective I

4.3.3 Value Added Courses and Mandatory Courses

4.3.4 NPTEL Courses

BoS / CSBS 4.4: Suggestions given by the BOS Members

BoS / CSBS 4.5: Any other items for discussion



**DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS  
MINUTES OF THE MEETING**

The 4<sup>th</sup> Meeting of the Board of studies of the Department of Computer Science and Business Systems was held on 25<sup>th</sup> February 2023 at 2 pm.

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.  
**Dr.D Murugan**  
Professor/CSE,  
Manonmanium Sundaranar University,  
Tirunelveli-627012
4. Industrial Experts  
**Mr.B.Durgasanth**  
Technical Lead,  
Rishon Communication Technologies,  
Tirunelveli
5. Alumni Members  
**Mr.A.Alan Selva Denis**  
Technical Lead,  
HCL Technologies,  
Chennai-600119





## 6. 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.	Ms.D.Monica Seles	Assistant Professor/ CSBS

**Members Absent** - Mrs.G.Vijaya Rani, Assistant Professor/ CSBS

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

### **BoS / CSBS 4.1: 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 4th Board of Studies and thanked each of them for sparing their valuable time to attend the meeting.

### **BoS /CSBS 4.2: TO CONFIRM THE MINUTES OF THIRD BOS MEETING HELD ON 18.08.2022**

The minutes of the third Board of Studies meeting held on 18.08.2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 7<sup>th</sup> Academic Council.  
(Action taken report enclosed in Annexure I)

### **BoS / CSBS 4.3: Business brought forward by the Chairman, Board of Studies**

#### **BoS / CSBS 4.3.1: TO CONFIRM AND APPROVE the Vision , Mission , PEO, PSO Curriculum & (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Semester)**

- ✓ Syllabus for R2021 B.E Computer Science and Business Systems 8 Semesters Curriculum and 5 Semesters Syllabus were framed and it was presented by the HOD/ CSBS



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

**BoS / CSBS 4.3.2: TO CONFIRM AND APPROVE the Professional Electives I and II and Open Electives**

- ✓ **The Professional Electives I and II, Open Elective I** and their syllabus was presented by the HOD/CSBS (Professional Electives I and II, Open Elective I list enclosed in Annexure II and III)

- ✓ RESOLVED TO APPROVE the **Professional Electives I and II and Open Elective I**

**BoS / CSBS 4.3.3: TO CONFIRM AND APPROVE the Value Added Courses and Mandatory skill Courses**

- ✓ **The Value Added Courses, Mandatory Skill Courses** and their syllabus was presented by the HOD/CSBS( Value Added Courses, Mandatory Skill Courses list enclosed in Annexure IV)

- ✓ RESOLVED TO APPROVE the **Value Added Courses and Mandatory Skill Courses**

**BoS / CSBS 4.3.4: TO CONFIRM AND APPROVE the NPTEL Courses**

The Expert members suggested providing provision to take NPTEL Online Courses from 4<sup>th</sup> semester onwards. (NPTEL course list enclosed in Annexure V)

- ✓ RESOLVED TO APPROVE the NPTEL Courses

**BoS / CSBS 4.4: Suggestions Given by the Members**

**R2021 B.E Computer Science and Business Systems**

- 4.4.1 21CS5602-Computer Networks Course the Course Outcomes and the CO Vs PO Mapping must be revisited
- 4.4.2 21CS5611- Computer Networks Laboratory, Simulation experiments need to be modified
- 4.4.3 CO Vs PO Mapping must be checked for all the subjects .
- 4.4.4 It is recommended to include IOT applications for the Elective course Introduction to IoT.





- 4.4.5 Elective Course-Advanced Social, text and media analytics title should be changed as Social, text and media analytics.
- 4.4.6 Elective Course- Blockchain and Distributed Technologies title should be changed as Blockchain Technologies.

**BoS / CSBS 4.5: Any other items for discussion**

- 4.5.1 Professional Electives I and II course Syllabus was presented and the expert members approved the same
- 4.5.2 Open Elective I Syllabus was presented and the expert members approved the same.
- 4.5.3 Value Added course Syllabus for R2021 such as Business Analytics using Power BI and Predictive Analytics in Digital Marketing was presented and the expert members approved the same.
- 4.5.4 Mandatory Skill Course Syllabus for R2021 such as Data Visualization using Tableau, Business Analytics with R Studio and Data Exploration using Python was presented and the expert members approved the same.

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

S. G. G. G.  
28/2/23

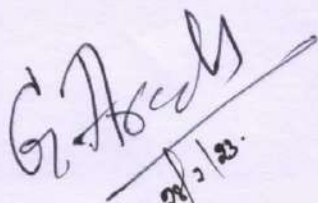

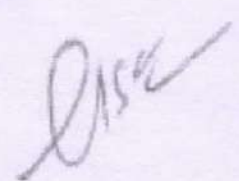
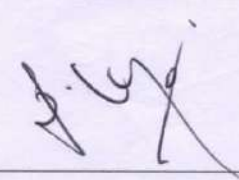


**Dr.S.GOMATHI, M.E.,Ph.D.,**  
Professor and Head  
Department of Computer Science  
and Business Systems  
Francis Xavier Engineering College,  
Tirunelveli

G. Aravind Swaminathan  
28/2/23  
CHAIRMAN  
BOARD OF STUDIES

**Dr. G. Aravind Swaminathan, B.E., M.E., Ph.D.,**  
Professor and Head,  
Department of Computer Science and Engineering,  
Francis Xavier Engineering College,  
Tirunelveli - 627003.



### Attendance Sheet Table of Members:

S. No	Members as per UGC Norms	Members Nominated	Signature
1	Head of the Department concerned (Chairman)	<b>Dr.G.Aravind Swaminathan,</b> Professor/Head, Department of Computer Science and Engineering, Francis Xavier Engineering College, Tirunelveli	
2	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	<b>Dr.C. Senthil Kumar,</b> 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	<b>Dr.E.Illavarasan</b> Professor/CSE, Pudhucherry Technological University(Formerly Pondicherry Engineering College), Pondicherry- 605014.	
		<b>Dr.D Murugan</b> Professor/CSE, Manonmanium Sundaranar University, Tirunelveli-627012	
4	One representative from industry/corporate sector/allied area relating to placement	<b>Mr.B.Durgasanth</b> Senior Software Development, Rishon Communication Technologies, Tirunelveli	
5	One Post Graduate meritorious aluminous nominated by the Principal	<b>Mr.A.Alan Selva Denis</b> Technical Lead, HCL Technologies, Chennai-600119	





S.No	List of Staff Members	Designation	Signature
1.	Dr.S.Gomathi	Professor/ CSBS	<i>S. G. Gomathi</i> 25/2/23
2.	Mrs.G.Vijaya Rani	Assistant Professor/ CSBS	Absent
3.	Mrs.M.Yasmin	Assistant Professor/ CSBS	<i>M. C</i> 27/2/23
4.	Mrs.A.Anitha	Assistant Professor/ CSBS	<i>A. Anitha</i> 27/2/23
5.	Ms.D.Monica Seles	Assistant Professor/ CSBS	<i>M. D. Monica Seles</i> 27/2/23



## Annexure - I

### Minutes of 3<sup>rd</sup> Board of Studies Meeting - Action Taken Report

S.No	Suggestions	Action Plan	Reflection in the Curriculum
1.	Suggested regarding the 21CB3603 -Computer Organization in Third Semester to be converted as Theory Cum Practical	The Course is converted as Digital Principles and Computer Organization (Theory Cum Practical )	Page No:116
2.	Suggested to have Scenario based Lab questions to be included in the Lab Syllabus	Scenario based Lab programming questions are added in the Lab Syllabus	All the lab Courses
3.	Suggested to have NPTEL courses from the Fourth Semester so that the credit transfer can be done from the Fifth Semester	Provision is provided to take NPTEL courses from the Fourth Semester so that the credit transfer is done from the Fifth Semester	Fifth Semester
4.	Suggested to check the CO,PO & PSO Mapping on the core Engineering Courses	Corrected and Implemented	All the Core Courses





## Annexure - II

### List of Professional Elective Courses

S.No	Course Code	Course Name	Semester	L	T	P	C	Stream/Domain
<b>Professional Elective I</b>								
1	21CS5701	Big Data Technologies and Analytics	5	3	0	0	3	Data Analytics
2	21CB5702	Introduction to Data Science and Business Analytics	5	3	0	0	3	Business Analytics
3	21CB5703	Marketing Research	5	3	0	0	3	Business Management
4	21CB5704	Cloud application Development	5	3	0	0	3	Full Stack Development
<b>Professional Elective II</b>								
1	21CB5705	Data Mining for Business Intelligence	5	3	0	0	3	Data Analytics
2	21CB5706	Enterprises Systems	5	3	0	0	3	Business Analytics
3	21CB5707	Micro and Macro Economics	5	3	0	0	3	Business Management
4	21CB5708	Web Technologies	5	3	0	0	3	Full Stack Development



### Annexure - III

#### List of Open Elective Courses

S.No	Course Code	Course Name	Sem	L	T	P	C	Offered By
<b>Open Elective</b>								
1	21CB5801	Digital Forensics	5	3	0	0	3	CSBS
2	21CB5802	Big Data Technologies	5	3	0	0	3	CSBS
3	21CB5803	Cloud, Microservices and Applications	5	3	0	0	3	CSBS
4	21CB5804	Network Science and Applications	5	3	0	0	3	CSBS
5	21CB5805	Analytics of Things	5	3	0	0	3	CSBS
6	21CB6801	Basics of Digital Forensics	6	3	0	0	3	CSBS
7	21CB6802	Privacy and Security in IoT	6	3	0	0	3	CSBS
8	21CB6803	Fundamentals of Fog and Edge Computing	6	3	0	0	3	CSBS
9	21CB6804	IoT Architectures and Protocols	6	3	0	0	3	CSBS
10	21CB7801	Business process management	7	3	0	0	3	CSBS
11	21CB7802	Software Design Architecture	7	3	0	0	3	CSBS
12	21CB7803	Human Computer Interaction	7	3	0	0	3	CSBS
13	21CB7804	Game Programming	7	3	0	0	3	CSBS





## Annexure - IV

### LIST OF VALUE ADDED COURSES

S.No	Course Code	Course Name	Contact Periods	L	T	P	C
1	21CBXV01	Business Analytics using Power BI	4	0	0	4	2
2	21CBXV02	Predictive Analytics in Digital Marketing	4	0	0	4	2

### LIST OF MANDATORY COURSES

.No	Course Code	Course Name	Semester	L	T	P	C
1	21CBSK201	Data Visualization using Tableau	2	0	0	4	2
2	21CBSK301	Business Analytics with R Studio	3	0	0	4	2
3	21CBSK401	Data Exploration using Python	4	0	0	4	2



## Annexure - V

### LIST OF NPTEL COURSES - 2022-2023 EVEN

S.NO.	COURSE NAME	REGISTRATION LINK	DURATION	START DATE	END DATE	COURSE TO BE REPLACED
1	Ethical Hacking	<a href="https://onlinecourses.nptel.ac.in/noc23_cs44">https://onlinecourses.nptel.ac.in/noc23_cs44</a>	12 Weeks	23.01.23	14.04.23	Blockchain Technologies
2	Social Networks	<a href="https://onlinecourses.nptel.ac.in/noc23_cs19">https://onlinecourses.nptel.ac.in/noc23_cs19</a>	12 Weeks	23.01.23	14.04.23	Social Media Network Analytics
3	Data analytics with python	<a href="https://onlinecourses.nptel.ac.in/noc23_cs08">https://onlinecourses.nptel.ac.in/noc23_cs08</a>	12 Weeks	23.01.23	14.04.23	Big Data Technologies and Analytics
4	Reinforcement Learning	<a href="https://onlinecourses.nptel.ac.in/noc23_cs23">https://onlinecourses.nptel.ac.in/noc23_cs23</a>	12 Weeks	23.01.23	14.04.23	Predictive Analytics for Business
5	Natural Language Processing	<a href="https://onlinecourses.nptel.ac.in/noc23_cs">https://onlinecourses.nptel.ac.in/noc23_cs</a>	12 Weeks	23.01.23	14.04.23	Intelligent Systems and Techniques





**Annexure - VI**

**Specialization/ Minor Courses**

**B.Tech. - Computer Science and Business Systems**

**R2021 - Specialization in Big data Analytics**

S.No	Course Code	Course Name	L	T	P	C	H
<b>Theory Course</b>							
1	21CB4S01	Big Data Frameworks	3	0	0	3	3
		Elective	3	0	0	3	3
<b>Theory cum Practical Courses</b>							
1	21CB5S01	Mining Massive Data	2	0	4	4	4
3	21CB6S03	Big data computing for Business Analytics	2	0	4	4	4
<b>Practical Course</b>							
1.	21CB8S11	Project work	0	0	8	4	8
<b>Total</b>			<b>10</b>	<b>0</b>	<b>16</b>	<b>18</b>	<b>22</b>
<b>Elective Courses</b>							
1	21CB7S01	Exploratory Data Analysis	3	0	0	3	3
2	21CB7S02	Information Visualization	3	0	0	3	3
3	21CB7S03	Predictive Analytics in Business	3	0	0	3	3

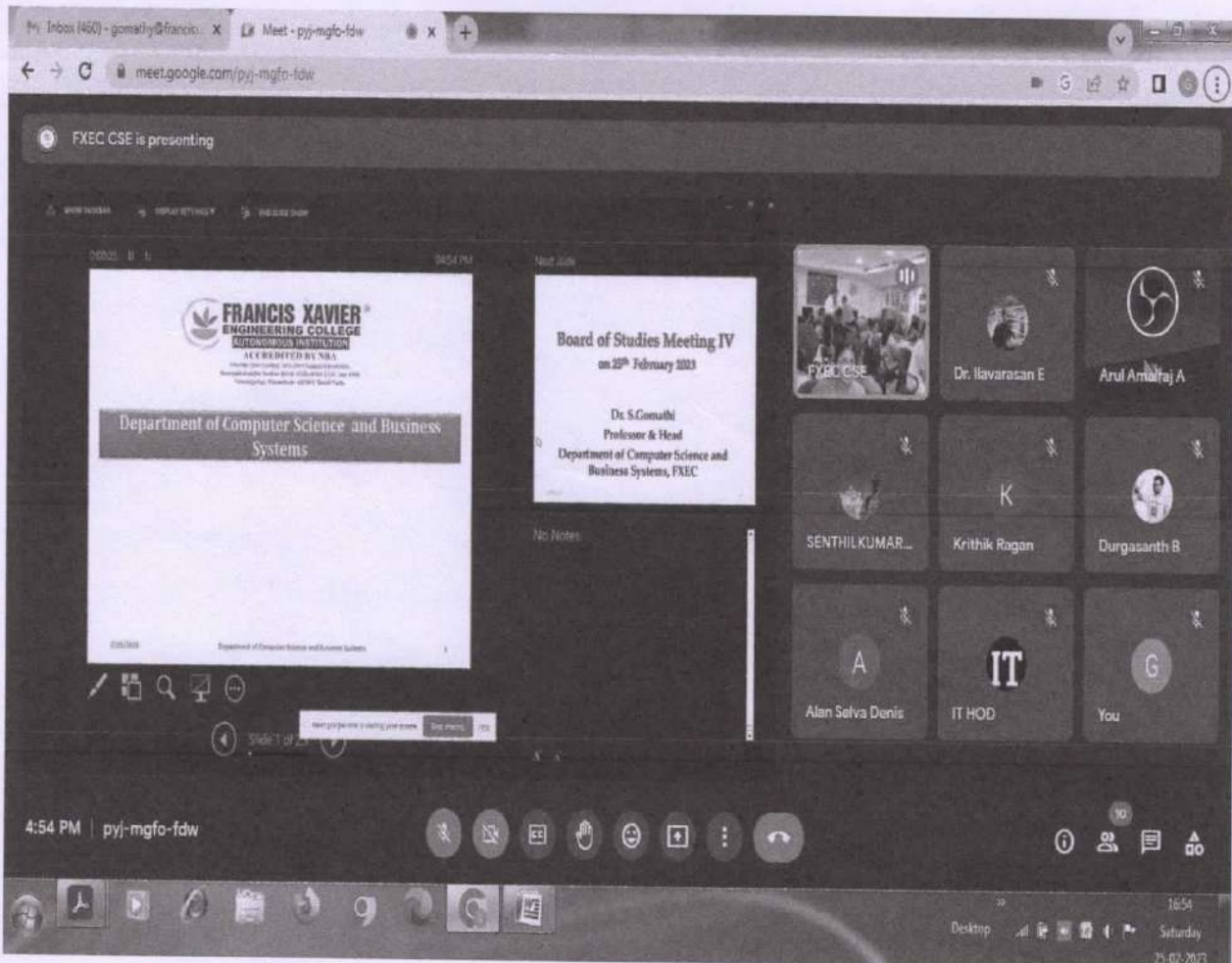


## 4th BOS Meeting :

### Department of Computer Science and Business Systems

Venue: Lab-3

Date & Time: 25.02.2023 & 02:00 PM





FXEC CSE is presenting

B.Tech CSBS CURRICULUM R2021

Sl. No	CATEGOR Y	CREDITS PER SEMESTER								TOTAL CREDITS	CREDITS IN %
		I	II	III	IV	V	VI	VII	VIII		
1	HSSM	3	2	3	3					11	6.70%
2	BS	12	4	4						20	12.19%
3	ES	5	15							20	12.19%
4	PC			16	15	11	12			57	40.85%
5	PE					6	6	6		18	10.55%
6	OE						3	3		9	5.48%
7	EEC			1	4	1	3			10	11.58%
TOTAL		20	21	24	22	23	23	21	10	164	100%

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FXEC CSE is presenting

B.Tech CSBS CURRICULUM R2021 SEM-5

Sl. No	Course Code	Course Name	Category	Credits Available	L	T	P	E
1	21010001	Entrepreneurial Studies	PC	3	3	3	3	3
2	21010002	Introduction to Enterprise Systems	PC	3	3	3	3	3
3	21010003	Computer Networks	PC	3	3	3	3	3
4	21010004	Professional Elective-I	PE	3	3	3	3	3
5	21010005	Professional Elective-II	PE	3	3	3	3	3
6	21010006	Open Elective-I	OE	3	3	3	3	3
7	21010007	Soft Skills/Internship	EEC	1	3	3	3	3
Practical Course								
1	21010008	Computational Statistics Laboratory	PC	4	0	0	0	4
2	21010009	Computer Networks Laboratory	PC	4	0	0	0	4
Total				27	15	15	15	23

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