Nineth Board Of Studies Meeting

Department of MCA

Francis Xavier Engineering College, Vannarpettai,

Tirunelveli – 627 003

(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.francisxavier.ac.in



Aprology 12/19/201.

9thBoard of Studies Meeting in the Department of MCA

AGENDA

BoS / MCA 9.1: Welcome address and Opening Remarks by Chairman of Computer Science Department on behalf of Board of studies in the Department of MCA

BoS / MCA 9.2: Confirmation of the Minutes of the 8th meeting of Board of studies in the Department of MCA held on 25.02.2023 and Action taken report of 8th meeting of Board of studies

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

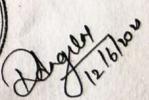
- 9.3.1 Refinement of Course outcomes of Laboratory courses
- 9.3.2 Inclusion of Value Added Courses
- 9.3.3 MCA Curriculum and Syllabus PG 2021 under R2021
- 9.3.4 NPTEL Courses

BoS / MCA 9.4: Suggestions given by the BOS Members

BoS / MCA 9.5: Any other items for discussion

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Francis Xavier Engineering College, Tirunelveli

Department of Computer Applications

MINUTES OF THE MEETING

The 9th Meeting of the Board of studies of the MCA Department was held on 12.06.2023@ 9.30 am through blended mode:

Meeting Link: 9th BOS MEETING

Monday, June 12,2023 · 9:45am - 1:15pm

Time zone: Asia/Kolkata

Google Meet joining info

Video call link: https://meet.google.com/vbe-yisq-ych

Or dial: (US) +1 510-456-0348 PIN: 648 125 051#



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The following members were present:

- 1. Mr. G. Aravind Swaminathan, Prof & Head, CSE, BoS Chairman
- 2. Mrs. D.Angeline Ranjithamani, AP & Head MCA Department
- 3. Dr. C. Senthil Kumar, Asso. Prof/CSE, TCE, Anna University Nominee
- 4. Dr. E. Ilavarasan, Prof./CSE, PEC, Other University Nominee
- 5. Dr. D. Murugan, Prof./CSE, MS University, Other University Nominee
- 6. Mr.PrabagarRamamurthy, Head, Information Security Management, Tata Consultancy Services, Industry Expert
- 7. Mr.AbishekStephen,Senior Backend Engineer,Turing,Palo Alto, California,USA,Alumni Expert
- 8. Mr. A. Arul Amalraj, AP / MCA
- 9. Mrs. G. Durgaveni, AP/MCA
- 10. Mr. M. Esakkiraj, AP/MCA
- 11. Mrs. M.K. Subbulakshmi, AP/MCA
- 12. Mrs. Annie Rose Nirmala, HOD/MBA
- 13. Mr. A. Santiago Stephen, AP/MATHS
- 14. Mrs. Shala F John, AP/ENGLISH

BoS / MCA 9.1: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES OF COMPUTER SCIENCE DEPARTMENT ON BEHALF OF DEPARTMENT OF MCA

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

BoS / MCA 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 the8thAcademic Council.

Annexure I: Action Taken Report

BoS / MCA 9.3.1: TO CONFIRM AND APPROVE the Refinement of Course outcomes of Laboratory courses

✓ RESOLVED TO APPROVE CO – PO mapping, Course Outcomes, Weightage of syllabus
and the course will be handled by the staff members of MCA Department

BoS / MCA 9.3.2: TO CONFIRM AND APPROVE the Inclusion of Value Added Courses

✓ RESOLVED TO APPROVE the syllabus for JavaScript for Web Development, Automation Testing tools, Cloud Platforms, MVC Framework, Data Analytic Tools, Intelligent Sys-

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tems and Data Analysis, Node.js and Express.js Essentials, Angular for Modern WebDevelopment and Cross-Platform Mobile Development with React Native, Credit distribution, CO – PO mapping, Course Outcomes, Weightage of syllabus and the course will be handled by the staff members of MCA department under the guidance of industry experts (Annexure – II)

BoS / MCA 9.3.3: TO CONFIRM AND APPROVE the 2021 MCA Curriculum for Regulation 2021

RESOLVED TO APPROVE the syllabus for the 2021 MCA Curriculum for Regulation 2021, Credit distribution, CO – PO mapping, Course Outcomes, Weightage of syllabus

BoS / MCA 9.3.4: TO CONFIRM AND APPROVE the newly added NPTEL Courses

✓ RESOLVED TO APPROVE the syllabus Credit distribution, CO – PO mapping, Course Outcomes, Weightage of syllabus (Annexure – III)

BoS / MCA 9.4: Suggestions Given by the Members

- ✓ Prerequisite for the value added course 21CA1V03 Cloud platforms can be redefined and the objective for "pay-as-you-go" can be eliminated as it will not work in free subscription in addition AWS can be included in web resources
- ✓ The expert members suggestion incorporating the following amendments in the concerned courses
 - 21MA1258 Mathematical foundations of Computer Applications, topics like K-Map can be added
 - 21CA1101 Data Structures, LeetCode can be included in Web resources
 - 21CA1103 Operating system, case studies like Windows 11, Linux can be incorporated
 - 21CA1105 Web Front End Essentials, topics like CSS Flexbox (Flexible Box) and jquery deferred and promise need to added
 - 21CA1913 Communication and soft skill laboratory, Email etiquette can be taught to the students
 - 21CA2101 Programming with Java, Latest version can be used for laboratories so that the students can learn lambda features in java
 - 21CA2104 Web Application Development Framework, Latest version can be used in Hibernate, MongoDB not needed
 - 21CA3102 Mobile Application Development Kotlin can be incorporated to interoperate fully with Java, and the JVM version of Kotlin's standard library depends on the Java Class Library
 - 21CA3913 Miniproject, Open source software Postman can be used to design, build, test and iterate the APIs

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- 21CA2205 Real time Embedded System, Heat distribution can be taught to the students effectively
- 21CA2206 Software Project Management topics like Risk management can be included
- 21CA3201 Ecommerce and Business Intelligence, include Product Market Fit as an additional topic
- 21CA3204 Adhoc and sensor networks, Error detection mechanism can be incorp orated
- 21CA3210 Enterprise Resource planning, Financial Management and Logistic management topics can be added
- 21CA2B01 Database Management Systems, contents for FAT 32, NTFS can be added
- 21CA2B02 Object Oriented Programming using C++, stopics like Solid Principles can be added

BoS / MCA 9.5: Any other items for discussion

The members had a brainstorming discussion, deliberation and interaction among themselves. After discussion, productive suggestions were incorporated appropriately in the 2021MCA Curriculum and Syllabi.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- Incorporation of NPTEL courses, Credit distribution, CO PO mapping, Course Outcomes, Weightage of syllabus
- 2. Incorporation of Value-Added courses, Credit distribution, CO PO mapping, Course Outcomes; Weightage of syllabus

Mrs. D. Angeline Ranjithamani,AP & HOD thanked all the members for their kind cooperation and the meeting came to an end.

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Attendance Sheet External Members:

S. No.	Name	Signature
1	Dr. C. Senthil Kumar, Asso. Prof/CSE Thiyagarajar College of Engineering, Anna University Nominee	Chart
2	Dr. E. Ilavarasan, Prof./CSE, Pondicherry Engineering College Other University Nominee	0.12
3	Dr. D. Murugan, Prof./CSE Manonmaniam Sundaranar University Other University Nominee	\$-15x
4	Mr.Prabagar Ramamurthy Head,Information Security Management, Tata Consultancy Services, Industry Expert	AS
5	Mr.Abishek Stephen Senior Backend Engineer, Turing,Palo Alto, California,USA Alumni Expert	delin.



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Internal Members Present:

S. No.	Name of the Internal Members	Signature
1	Dr. Aravind Swaminathan, HOD/CSE	1 Talans
2	Mrs. D. Angeline Ranjithamani,AP & HOD/MCA	Darguet 10/00
3	Mr. A. Arul Amalraj, AP / MCA	111/1/20
4	Mrs. G. Durgaveni, AP/MCA	Brot 123
5	Mrs. K. Dhamayanthi,AP/MCA	K. Dhoron Distolos
6	Mr. M. Esakkiraj, AP/MCA	H. Orizions
7	Mrs. M. K. Subbulakshmi,AP/MCA	Ne. Subbulkelan
8	Mrs. Annie Rose Nirmala, HOD/MBA	Q OSTIWES
9	Mr. A. Santiago Stephen, AP/MATHS	Calales
10	Mrs. Shala F John, AP/ENGLISH	12/6/23

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CHAIRMAN BOARD OF STUDIES

Annexure 1

Eighth Board of Studies Meeting Action Taken Report

The following are the suggestions given by the Members of the Board of Studies to incorpora te in the curriculum and syllabi

Suggestions

- The course outcomes for the laboratory courses can be redefined with higher order knowledge outcome
- Courses on Emerging technologies can be opted for completing NPTEL courses

Action Taken

Emerging technologies included in NPTEL

S.No	Recommendations from Expert Members	Amendments incorporated and approved by 8th Academic Council meeting dated on 23.03.2023				
1	Outcome can be redefined: Page No. 26 Able to define the basic concepts of User Interface design HTML 5 Able to demonstrateweb pages using HTML and CSS. Able to perform the embedded dynamic scripting on client side Internet Programming Able to illustrate JavaScript to access and use web services for dynamic content using AJAX, JSON Able to demonstrate a dynamic web page us-	Updated: Page No.28 Summarize the concepts and architecture of the World Wide Web. Develop a basic website using HTML and Cascading StyleSheets. Write functions to embed dynamic scripting on client side Internet Programming Design rich client presentation using Bootstrap Develop jquery in dynamic web page.				
ż	Outcome can be redefined:Page No. 28 Able to demonstrate with the various skills of data structures and their applications. Able to perform the linear, nonlinear and tree data structures. Able to illustrate the operations of linear data structures-List, Stack and Queue Able to perform the various sorting techniques using quick and merge sort. Able to report the shortest path using the	Updated: Page No. 31 Demonstrate with the various skills of data structures and their applications. Summarize the linear, nonlinear and tree data structures. Identify the operations of linear data-List, Stack and Queue. Develop the sorting techniques. Solve the shortest path using the Djisktra algorithm.				
3	Outcome can be redefined:Page No.37 Able to testserver side programming. Able to performPHP Basic syntax for variable types and calculations and creating conditional structures. Able to demonstratethe storing of data in arrays. Able to perform PHP built-in functions and custom functions. Able to report the creation of an application of their own	Updated :Page No.40 Write functions for server side programming. Build a solution for complex problem Solve storing of data in arrays. Construct PHP built-in functions and custom functions. Develop a PHP application				
4	Outcome can be redefined: Able to define programs using basic programming constructs. Able to demonstrate window based GUI applications using applets. Able to perform applications using collection	Updated :Page No:59 Write a program using basic programming constructs. Develop a java program with Java spring classes. Write a program with collection classes.				

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	classes. Able to perform backend and front end technologies in appropriate application. Able to demonstrate features of advanced java in web development.	Build an application which performs CRUD operations. Demonstrate features of advanced java in web development.
5	Outcome can be redefined: Page No:67 Able to understand various architectures for IoT. Able to understand various protocols for IoT. Able to create a portable IoT using Rasperry Pi. Able to apply case studies in real world applications. Able to present a comparative study of the cloud architectures	Updated: Page No:81 To design an IoT simple platform with ARDUINO. To create a web server using NODE MCU and ESP Module. To design Web page and control Home Appliances through Wi-Fi. To write a program using Node MCU to read and update sensor data over cloud. To create a twitter app on thingspeak.
6	Outcome can be redefined:Page No:83 Able to understand the installation and configuration of Android application development tools. Able to design and develop user Interfaces for the Android platform. Able to apply Java programming concepts to Android application development. Able to implement new technologies and business trends impacting mobile applications.	Updated: Page No:84 Understand the installation and configuration of Android application development tools. Design and develop user Interfaces for the Android platform. Apply Java programming concepts to Android application development. Implement new technologies and business trends impacting mobile applications. Differentiate the characterization and architecture of mobile applications.





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S.	Course	List of Value Added Courses						
No	Code tical Courses	Course Name	Cat ego ry	Contact Periods	L	Т	P	(
1	21CA1V01				1			
2	21CA1V02	Javascript for Web Development	VA	2	0	0	2	1
3	21CA1V03	ration Testing tools	VA	2	0	0	2	1
4	21CA2V01	Cloud Platforms	VA	2	0	0	2	1
5	21CA2V02	MVC Framework	VA	2	0	0	4	2
		Data Analytic Tools	VA	2	0	0	4	2
7	21CA2V03	Intelligent Systems and Data Analysis	VA	2	0	0	4	2
-	21CA3V01	Node.js and Express.js Essentials	VA	2	0	0	2	1
8	21CA3V02	Angular for Modern Web Develop- ment	VA	2	0	0	2	1
9 21CA3V03		Cross-Platform Mobile Develop- ment with React Native	VA	2.	0	0	2	1

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Newly Added NPTEL Courses

S.NO	COURSE CODE	COURSE NAME	NO. OF WEEKS		
1	noc23-cs117	Introduction To Game Theory And Mechanism Design	12 weeks		
2	noc23-cs127	Cyber Security and Privacy	12 weeks		
3	noc23-cs99	Python For Data Science	12 weeks		

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