

**DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING
NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI - 642001**

**2nd BOARD OF STUDIES MEETING IN THE DEPARTMENT OF OF COMPUTER SCIENCE WITH
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

Date: 24.06.2023 Time: 10.00 A.M to 2.00 P.M

Agenda

BoS / CT11.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in offline mode
BoS / CT11.2	:	Confirmation of the Minutes of the 2 nd / Previous meeting of Board of studies in offline mode held on 24.06.2023 and Action taken report of 2 nd meeting of Board of studies
BoS / CT11.3	:	11.3.1 Syllabus of I B.Sc., COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING for semester I to VI under Regulation 2023-2026 Batch.
		11.3.2 Syllabus of Value added course
BoS / CT11.4	:	Suggestion given by BOS Members

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI
DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE
LEARNING

MINUTES OF BOS MEETING

The 2nd Meeting of the Board of studies of the DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING was held on **24.06.2023** at 10.00 a.m. in Offline mode

1. The following members were present:

Dr.S.NIRAIMATHI Head of the Department Department of COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING NGMCollege,Pollachi	Chairman
DR.B.AZHAGUSUNDARI Associate Professor Department of computer SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING NGM College, Pollachi	Internal Members
Dr. D.Sathiya Srinivas M.Sc.,M.Phil.,Ph.D., Prinicipal, Paavendhar College of Arts and Science, Manivizhundhan South Athur TK., Salem Dist.,	University Nominee

	Dr.N.Sudha Associate Professor Department of Computer Science Bishop Appasamy College Of Arts And Science Coimbatore	Academic Experts & Academic Auditor
	Senthil Kumar Dhandapani Vice President - Research & Development, Head - India Solution Center SymphonyRetailAI Greater Bengaluru Area	Industry Expert
	Dr.N.Kumaresh Associate Professor & Head Department of Artificial Intelligence & Machine Learning Dr. N.G.P College of Arts and Science Coimbatore	Subject Expert

K. Srinivasan

HoD

K. Srinivasan
CDC Co-ordinator

K. SRINIVASAN, M.C.A.,
Co-ordinator
Curriculum Development Cell (CDC)
NGM College (Autonomous)
Pollachi - 642 001.

Dr. R. Muthukumar
COE

Dr. R. Muthukumar
PRINCIPAL

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Dr. R.MANICKA CHEZIAN, M.Sc.,M.S.,Ph.D.,
Controller of Examinations
NGM College (Autonomous)
POLLACHI - 642 001.

BoS/ Department of COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING 11.3

BoS/ Department of COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING 11.3.1

I B.Sc. COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

(I to II SEMESTER)

- Core Papers are renamed as CC (Course Code)
- Elective Courses are renamed as DSE (Discipline Specific Elective)
- All Allied Courses rename as GE (Generic Elective): Allied.
- SEC (Skill Enhancement Course) were Introduced in Semester II, IV, V and VI.
- AECC (Ability Enhancement Compulsory Course) were introduced in Semester I and II.

SEMESTER I

The following papers from B.Sc., COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, were accepted by the experts fully without further suggestions:

- 23UAI101 – Core Course I – Programming in C
- 23UAI102 – Core Course II – Digital Fundamentals and Computer Organization
- 23UAI1A1/23UAI1A2 – Generic Elective I - Allied I – Mathematics I – Introduction to Linear Algebra/ Discrete Mathematics
- 23UAI103 – Core Course Lab- I – Programming in C
- 23EVS201- AECC-I: Environmental Studies.

SEMESTER II

The following papers from B.Sc. COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, were accepted by the experts fully without further suggestions:

- 23UAI204 – Core Course III – JAVA Programming
- 23UAI205 – Core Course IV – Operating System
- 23UAI206 – Core Course Lab II – JAVA Programming Lab
- 23UAI2A1/ 23UAI2A2- Generic Elective II - Allied II – Mathematics II-Probability & Statistics / Optimization

- Techniques23EVS201 – Ability Enhancement Compulsory Course AECC I: Environmental Studies
- 23UAI2S1/23UAI2S1 - Skill Enhancement Course SEC I – Naan Mudhalvan: Advanced Excel / Professional Skills - This new paper was introduced as per suggestions of CDC and Subject Expert. (Additionally added this SEC paper in new Scheme Format, given by CDC Department.)

These changes have been made effect for the students admitted in 2023-2026 with SEMESTER NO. I TO II accordingly.

BoS/. COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING 12.4 SUGGESTIONS GIVEN BY THE BoS MEMBERS

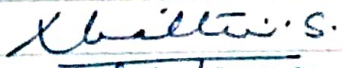
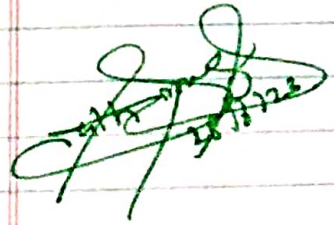
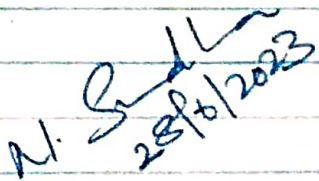
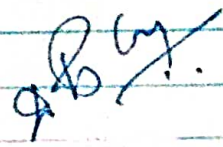
12.4.1: Introduce papers related to research and methodologies

12.4.2: Introduce papers related to AI problem solving task

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

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

a) The syllabus of First Year . COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING under Regulation 2023.

Sl NO	MEMBERS	SIGNATURE
1.	Dr. S. Niraimathi (CHAIRMAN) Head of the Department	 28/06/2023
2.	Dr. D. Sathiyar Srinivas Principal, Paavendhar College of Arts and Science, Salem. (UNIVERSITY NOMINEE)	
3.	Dr. N. Kumarash Associate Professor and Head Department of Artificial Intelligence & Machine Learning Dr. N.G.P College of Arts and Science, Coimbatore (SUBJECT EXPERT)	 28/6/2023
4.	Dr. N. Sudha Associate Professor Department of Computer Science, Bishop Appasamy College of Arts and Science, Coimbatore (ACADEMIC AUDITOR)	 28/6/2023
5.	Senthil Kumar Dhandapani. Vice President - Research & Development, Head - India Solution Center	

SI-NO	MEMBERS	SIGNATURE
	Symphony Retail AI Greater Bengaluru Area. (INDUSTRY EXPERT)	
6.	Dr. B. Azhagusundari Associate Professor, Department of Artificial Intelligence & Machine Learning, N.G.M. College, Pollachi.	

ANNEXURE I

Minutes of the 2nd / Previous Meeting – Action Taken Report

S.No	Suggestion given by expert members	Action taken
1.	Industry Demand AI papers has been introduced	Reviewed and Implemented
2.	Concept based and real time AI lab exercises has been introduced in all practical papers	Implemented
3.	Advanced learning course papers were introduced	Implemented
4.	Guide lines for project has been designed	Implemented



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List of Courses having focus on local, national, regional and global developmental needs offered by the Department of Computer Science with Artificial Intelligence and Machine Learning

Department of Computer Science with Artificial Intelligence and Machine Learning						
Programme: Department of Computer Science With Artificial Intelligence And Machine Learning						Year:2023
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
23 UAI 101	Core Course - I : Programming in C				✓	In order to enable the students use the computers effectively in problem solving, this course offers the modern programming Language C along with exposition to various applications of computers.
23 UAI 102	Core Course - II: Data Structures and Applications			✓		This course has been designed to make the students know about the fundamental principles of data structures and fill The bridge between application needs and the capabilities of the underlying data structures

23UAI1A1	Generic Elective I - Allied I – Mathematics I – Introduction to Linear Algebra				✓	Mathematics is the foundation upon which Computer Science is built. It depicts how to use linear structures Apply matrices in the study of AI related problems
23UAI1A2	Generic Elective I - Allied I – Discrete Mathematics	✓		✓		Discrete mathematics is the mathematical language of computer science. Concepts and notations from discrete mathematics are useful in studying and describing objects and problems in all branches of computer science, such as computer algorithms, programming languages, cryptography, automated theorem proving, and software development.
23UAI204	Core Course III: Java Programming				✓	This course develop necessary skills in students to apply object oriented programming techniques in java so that the students will be able to develop complete applications using core java.

23UAI205	Core Course IV – operating system			✓	✓	Students understand the way of organizing operating system and how effectively it can be used. Students will be able to solve the issues related to operating system and help to solve real time issues.
23UAI2A2	Allied II : Mathematics II – Operations Research				✓	Optimization techniques and to solve many practical problems in inventory control and capital budgeting problem and Queuing theory update the knowledge for all the three needs . Use as an analytical method of problem-solving and decision making in the management of organizations

23UAI2A1	Generic Elective II - Allied II – Probability & Statistics				✓	Draw statistical inference in the field of data analysis. Statistics is used in monitoring and improving the quality of products and processes within a business organization. Statistical analysis is essential for the development of social science theories, being used to test their validity through a robust analysis of real-world data.
23UAI2S1	Skill Enhancement Course SEC I: Advanced Excel	✓				MS Excel is an international business management tool that is used for performance review and decision making. Students get a hands-on training experience for what is now considered a mandatory employability skill

23EVS101	Ability Enhancement Compulsory Course AECC I: Environmental Studies		✓		✓	Appreciate the ethical, cross cultural and historical context of environmental issues and the links between human and natural systems.
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Khilnani S.

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**List of Courses having focus on Employability/ Entrepreneurship/ Skill development
offered by the Computer Science with Artificial Intelligence and Machine Learning**

Computer Science with Artificial Intelligence and Machine Learning						
Programme: B.Sc Computer Science with Artificial Intelligence and Machine Learning					Year:2023 – 2024	
Course Code	Course Title	Employability (EM) / Entrepreneurship (EN) / Skill Development (SD)			Focus	Year of Introduction
		EM	EN	SD		
23UAI101	CC I: Programming in C	✓			Focusing on expanding programming Knowledge	2023
23UAI1A2	GE I – Allied I: Mathematics - I: Discrete Mathematics				Focusing on Discrete mathematics is the mathematical language of computer science.	2023

23UAI2A2	GE II – Allied II: Mathematics II – Operations Research / Probability & Statistics			✓	Focusing on Optimization techniques and to solve many practical problems in inventory control and Linear programming problems Focusing the fundamentals concepts of probability and statistical problem.	2023
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Chaitanya S
HoD

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Percentage of Revision of B.Sc., Computer Science with Artificial Intelligence and Machine Learning Syllabus under Regulation 2023

BSc Computer Science with Artificial Intelligence and Machine Learning							
S.No	Course Code	Course Title	Change Details	% of Changes	Content Deleted	Content Updated	Reason for Change
							Subject Expert / Course Teacher / Alumni Opinion
1.	23UAI101	CC I: Programming in C	New Paper	100%	Contents not deleted	New Syllabus introduced in Semester I as CDC directed	As Board members suggested
2.	23UAI102	CC 2: Data Structures and Applications	New paper	100%	Contents not deleted	New Syllabus introduced in Semester I as CDC directed	As Subject Expert suggested
3.	23UAI2S1	Skill Enhancement Course SEC I – Naan Mudhalvan: Advanced Excel	New Paper	100%	Contents not Deleted	New Syllabus introduced in Semester II as CDC directed	As Board members suggested

4.	22UAI1A2	Generic Elective II - Allied II – Mathematics I- Discrete Mathematics	New Paper	100%	Contents not Deleted	New Syllabus introduced in Semester I as CDC directed	As Subject Expert suggested
5.	22UAI2A2	Generic Elective II - Allied II – Mathematics II- Probability & Statistics	New Paper	100%	Contents not Deleted	New Syllabus introduced in Semester II as CDC directed	As Subject Expert suggested
6.	22UAI308	Core Course V – Database Management Concepts	New paper	100 %	Contents not Deleted	New Syllabus introduced in Semester II as CDC directed	As Board members suggested
7.	23UAI205	Core Course IV: Operating System	New paper	100 %	Contents not Deleted	New Syllabus introduced in Semester II as CDC directed	As Subject Expert suggested

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