

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

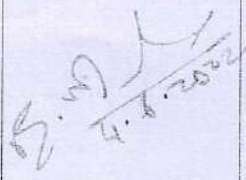
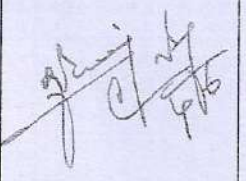
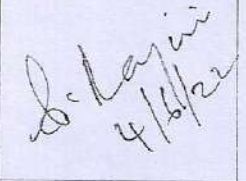
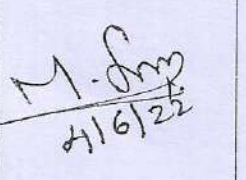
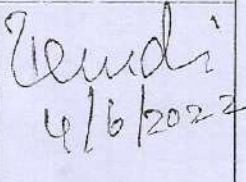
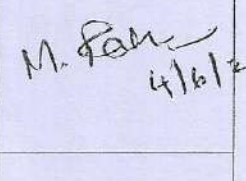
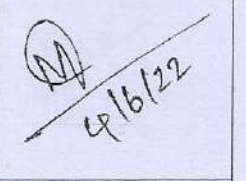
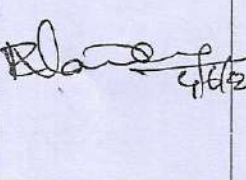
POLLACHI

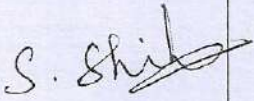
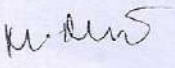
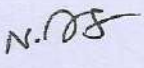
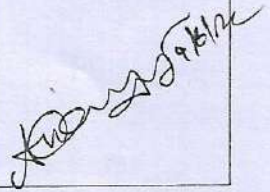
DEPARTMENT OF COMPUTER SCIENCE

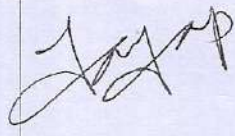
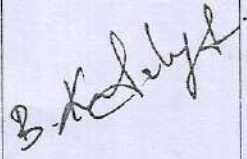
MINUTES OF BOS MEETING

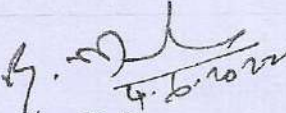
The 22nd Meeting of the Board of studies of the COMPUTER SCIENCE was held on 04.06.2022 at 10.00 AM in the COMMON RESEARCH CENTER, DEPARTMENT OF COMPUTER SCIENCE, NALLAMUTHU GOUNDER MAHALINGAM COLLEGE, POLLACHI

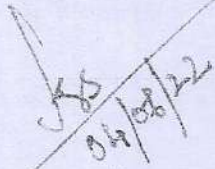
S.No	NAME	DESIGNATION	SIGNATURE
1	Dr. Antony Selvadoss Thanamani, Associate Professor and Head, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Chairman	ABSENT
2	Dr.R.A.Roseline, Associate Professor and Head, Department of Computer Science, Govt.Arts College , Coimbatore	University Nominee	ATTENDED THROUGH ONLINE MODE
3	Dr. K.Karthikeyan, Assistant Professor and Head, Department of Computer Science, Puratchi Thalaivi Amma Govt.Arts & Science College, Palladam	Academic Expert	G. Karthikeyan 4/6/22
4	Dr. A.Anbarasi, Assistant Professor, Department of Computer Science, LRG Govt.Arts College for Women, Tirupur	Academic Auditor	A. Anbarasi 4/6/2022
5	Mr. V.Bharathan, Wipro Limited, Bangalore - 560037	Industrial Expert	V. Bharathan
6	Mr. N.Dhanabal, Tata Consultancy Service Limited, Kochi - 682042	Alumni Representative	N. Dhanabal

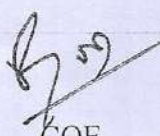
7	Dr.R.Manicka Chezian, Associate Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	 4/6/22
8	Mr.K.Srinivasan, Associate Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	 4/6/22
9	Dr.Aruchamy Rajini, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi- 642001	Internal Member	 4/6/22
10	Dr.M. Sakthi, Associate Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	 4/6/22
11	Dr.E.Ramadevi, Associate Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College,, Pollachi-642001	Internal Member	 4/6/2022
12	Dr.R.Rathamani, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi- 642001	Internal Member	 4/6/22
13	Ms.M.Malathi, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	 4/6/22
14	Dr.R.Nandhakumar, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	 4/6/22

15	Ms.M.Dhavapriya, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
16	Ms S.Sharmila, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
17	Ms N.Yasodha, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
18	Ms M.Meena Kiruthika, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
19	Ms S.S. Shanthi, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
20	Mr N.Arul Kumar, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
21	Mr N. Karthikeyan, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
22	Dr A.Kanagaraj, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	

23	Ms P.Jaya Priya, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
24	Ms G.Angayarkanni, Assistant Professor, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001	Internal Member	
25	Ms B.KouslayaDevi, Meritorious Student in Computer Science, Department of Computer Science, Nallamuthu Gounder Mahalingam College, Pollachi-642001.	Student Representative	


HoD


CDC Co-ordinator


COE


PRINCIPAL

PRINCIPAL
N.G.M. COLLEGE, POLLACHI

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

**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI**

22nd Board of Studies Meeting in the Department of Computer Science

Date & Time: 04.06.2022 at 10.30 AM

Agenda

BoS / CS22.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the DEPARTMENT OF COMPUTER SCIENCE
BoS / CS22.2	:	Confirmation of the Minutes of the 22 nd Previous meeting of Board of studies in the DEPARTMENT OF COMPUTER SCIENCE held on 04.06.2022 and Action taken report of 11 th meeting of Board of studies
BoS / CS22.3	:	22.3.1 Syllabus of BSc COMPUTER SCIENCE under Regulation 2022
	:	Any other Discussions if any
BoS / CS22.4	:	Suggestion given by BOS Members
BoS / CS22.5	:	Any other items

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

POLLACHI

DEPARTMENT OF COMPUTER SCIENCE

MINUTES OF BOS MEETING

The 22rd Meeting of the Board of studies of the Department of Computer Science was held on 04.06.2022 at 10.30 a.m. in the Common Research Center, Nallamuthu Gounder Mahalingam College, Pollachi.

1. The following members were present:

1	Dr. R. Manicka chezian Associate Professor	Internal Members
2	Mr. K. Srinivasan Associate Professor	
3	Dr. Aruchamy Rajini Assistant Professor	
4	Dr. M. Sakthi Associate Professor	
5	Dr. E. Ramadevi Associate Professor	
6	Dr. R. Rathamani Assistant Professor	
7	Ms. M. Malathi Assistant Professor	
8	Dr. R. Nandhakumar Assistant Professor	
9	Ms. M. Dhavapriya Assistant Professor	
10	Ms. S. Sharmila Assistant Professor	
11	Ms. N. Yasodha Assistant Professor	
12	Ms. M. Meena Kiruthika Assistant Professor	
13	Mr. N. Arul Kumar Assistant Professor	
14	Mr. N. Karthikeyan Assistant Professor	
15	Dr. A. Kanagaraj Assistant Professor	
16	Ms. P. Jaya Priya Assistant Professor	
17	Ms. G. Angayarkanni Assistant Professor	

BoS/CS12.1 WELCOME ADDRESS AND OPENING REMARKS

Dr.R.Manicka chezian, The Internal Member of BoS, Department of Computer Science welcomed and introduced the members of 22nd Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS/CS 12.2 TO CONFIRM THE MINUTES OF 21st BOS MEETING HELD ON 22.05.2021.

The minutes of the 21st Board of Studies meeting held on 22.05.2021 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 21st Academic council.

Action Taken Report (Enclosed in Annexure I)

BoS/CS 12.3.1

BSc COMPUTER SCIENCE (I to VI SEMESTER)

The Following Papers from B. Sc Computer Science were accepted by the experts without no modification:

Course Code	Course Name
22UCS102	Core II: Digital Computer fundamentals and organization
22UCS1A2	Allied -1: Advance Mathematics and Applied Statistics Level-II
22UCS205	Core IV: Data and File Structure
22UCS2A1/ 22UCS2A2	Allied -2:Discrete Mathematics Level-I Allied-2:Discrete Mathematical Structure Level-II
22UCS308	Core VI: Relational Database Management System
22UCS309	Core VII: System Software and Operating System
22UCS3A3	Allied -3 : Computer Based Optimization Techniques
22UCS311	Core Lab IV: Programming Lab in RDBMS
22UCS3N1 / 22UCS3N2	Non-Major Elective Paper-I Photoshop Lab/ Advanced Applications in MS Excel Lab
22UCS412	Core VIII: Python Programming
22UCS413	Core IX: Open Source Technologies

22UCS414	Core X: Data Communication and Computer Networks
22UCS415	Core Lab V: Programming Lab using Python
22UCS416	Core Lab VI: Web Programming using Open Source Technologies
22UCS4N1 / 22UCS4N2	Non-Major Elective Paper-II Flash Lab/ Internet Services and Applications Lab
22UCS517	Core XI: Linux and Shell Programming
22UCS519	Core XIII: Cyber Security
22UCS5E1	Data mining and Warehousing
22UCS5E2	Data Engineering with Google Cloud
22UCS5E3	Mobile Application Development
22UCS520	Core Lab VII: Linux: shell and Socket Programming Lab
22UCS5S1	Word Press
22UCS5S2	Dream Weaver
22UCS5S3	Quantitative Aptitude Skills
22UCS622	Core XIV: R Programming(SEP)
22UCS6E4	Artificial Intelligence and Machine Learning
22UCS6E5	Front End Development with React
22UCS6E6	MongoDB
22UCS6E7	Information Retrieval
22UCS6E8	HTML, Javascript and JQuery for Web Designing
22UCS6E9	Angular NodeJS
22UCS624	Core Lab IX: R Programming Lab
22UCS625	Core Lab X: Advanced Applications in MS Excel Lab
22UCS6A L	Advanced Learner Course - II (Optional) - Self Study
22UCS6S4	Joomla
22UCS6S5	Macromedia Director
22UCS6S6	Advanced Soft Skills

The presented syllabus was accepted by the experts and a few suggestions were given as follows:

Course Code	Course Name	Reason for adding New Courses
22UCS101	Computing Fundamentals and C Programming	Based on the Students Feedback.
22UCS204	C++ Programming	Based on the Students Feedback.
22UCS307	Java Programming	Based on the Students Feedback.

New Courses Added in

Course Code	Course Name	Reason for adding New Courses
22UCS1A1	Allied1- Mathematics(Statistical Methods and Linear Algebra)	Feedback from Faculty
22UCS518	Android Programming	Feedback from Faculty
22UCS521	Programming Lab in Android	Feedback from Faculty
22UCS3VA	Google Workspace	Suggested by CDC
22UCS623	Internet of Things	Feedback from Faculty

To fulfill the needs Advanced Learners new courses were introduced and as follows

Course Code	Course Name
22UCS5AL	Robotic Process and Automation
22UCS6AL	Advanced Data Analysis using R

These changes have been made effect for the students admitted in 2022 with Semesters I to VI accordingly.

The board of studies has approved the Syllabi pattern of the first two Semesters for the two newcourses

1. B.Sc Computer Science with Artificial Intelligence & Machine Learning

2. B.Sc Computer Science with Data Analytics

for the forth-coming Academic year (2022).

The Scheme of Syllabus for B.Sc Computer Science with Artificial Intelligence & Machine Learning and B.Sc Computer Science with Data Analytics for the first two semesters has been attached

BoS/CS12.4 SUGGESTIONS GIVEN BY THE BoS MEMBERS

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

- a) It is Suggested to replace Mathematics I Syllabus due to Highly Enrichment of the Syllabus also to complete Syllabus in Stipulated Hours
- b) If any Student completed Online Courses in MOOC, NPTEL, E-Patahshala, TCS ION etc, the Course Credit can be included in existing Credit and Students can opt out equivalent credit course in the existing elective course.
- c) In IV semester Mini Project should be Included, and that project is based on Open Source Technology

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

**DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL
INTELLIGENCE & MACHINE LEARNING**

I & II Semester

The following papers for B.Sc Computer Science with AI & ML was accepted by the Experts members of the Board

Course Code	Course Name
22UAI01	Core I: Java Programming
22UAI102	Core II: Industry 4.0
22UAI1A1	Allied-1: Introduction to linear algebra
22UAI103	Core Lab I: Programming Lab in Java
22UAI204	Core III: Programming in Python
22UAI205	Core IV: Data Structures & Algorithms
22UAI2A1	Allied 2 : Optimization techniques
22UAI206	Core Lab II: Programming Lab in Python
22UAI207	Capstone Project - 1



HOD

Dr.S.Niraimathi

Dr. S. NIRAIMATHI, M.C.A., M.Phil., Ph.D.,
Associate Professor & Head,
Department of Computer Science with AI & ML
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Principal

Dr. R. MUTHUKUMARAN
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PRINCIPAL
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Coimbatore District

**DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL
INTELLIGENCE & MACHINE LEARNING**

I Semester

Course Code	Title of the Paper	Curricula relevant to local, regional, national and global needs				
		Local	Regional	National	Global	Rationale
22UAI01	Core I: Java Programming			✓	✓	Java Programming has been accepted as universal Web designing & Programming Language and it finds its foray into IT Industry in Regional, Local & Global Scenario
22UAI02	Core II: Industry 4.0			✓	✓	Industry 4.0 lays the foundation for Artificial Intelligence, Machine Learning, Data Analytics & IoT which is the need of the hour in the IT Arena
22UAI1A1	Allied-1: Introduction to linear algebra	✓	✓	✓	✓	Lays the foundation for Mathematical theorems for problem solving in the AI & ML Domain
22UAI103	Core Lab I: Programming Lab in Java			✓	✓	This course Equips the students to become a cutting edge Professionals both regionally and Globally

II Semester

Course Code	Title of the Paper	Curricula relevant to local, regional, national and global needs				
		Local	Regional	National	Global	Rationale
22UAI204	Core III: Programming in Python			✓	✓	Python has been proved to be the implementation tool for the AI, ML, Data Science Domain which includes an array of Employability capabilities in the Regional and Global Arena
22UAI205	Core IV: Data Structures & Algorithms			✓	✓	The basic Data structures and algorithms forms the basis for the abstract concepts which would have be implemented in the higher level languages
22UAI2A1	Allied 2 : Optimization techniques	✓	✓	✓	✓	Optimization problems have been used in performance Metrics of various optimizations problems in AI, ML and Data Analytics
22UAI206	Core Lab II: Programming Lab in Python			✓	✓	This course provides a hands on Session on the algorithms in AI, ML and Data science libraries
22UAI207	Capstone Project - 1			✓	✓	Mainly focused to bring out the budding feature of an Entrepreneur



HOD

Dr.S.Niraimathi

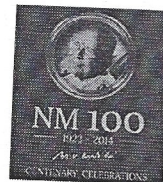
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NGM COLLEGE, POLLACHI
DEPARTMENT OF COMPUTER SCIENCE WITH
ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
Semester I and II -- 2022-2023



Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill

Course Code	Title of the Paper	
Semester I		
22UHN101/	Hindi Paper-I/	
22UFR101	French Paper-I	
22UEN101	English Paper-I	
22UDA101	Core I: Java Programming	Employability
22UAI102	Core II: Industry 4.0	Skill development
22UAI1A1	General Elective-1: Introduction to Linear Algebra	Skill development
22UAI103	Core Lab I: Programming Lab in Java	Employability
22HEC101	Human Excellence: Personal Values & SKY Yoga Practice - 1	
22UHR101	Human Rights in India	
Semester II		
22UTL202/	Tamil Paper-II/	
22UHN202	Hindi Paper-II/	
22UFR202	French Paper-II	
22UEN202	English Paper - II	
22UAI204	Core III: Programming in Python	Employability
22UAI205	Core IV: Data Structures & Algorithms	Skill development
22UAI2A1	General Elective 2 : Optimization techniques	Skill development
22UAI206	Core Lab II: Programming Lab in Python	Employability, Entrepreneurship
22UAI207	Capstone Project - 1	
22HEC202	Human Excellence: Family Values & SKY Yoga Practice-2	
22EVS201	Environmental Studies	
	Extension Activities (NSS, NCC, Sports & Games)	
	Online Course (MOOC/NPTEL/SWAYAM) Optional	
22CMM201	Manaiyiyal Mahathuvam - I	
22CUB201	Uzhavu Bharatham - I	
22VAD201	Department Specific Value-Added Course	Employability, Entrepreneurship

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**DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL
INTELLIGENCE & MACHINE LEARNING**

I & II Semester

The following papers for B.Sc Computer Science with AI & ML was accepted by the Experts members of the Board

S.No	Course Code	Course Name	% of changes	Contents deleted	Contents updated	Reasons for change
1	22UAI01	Core I: Java Programming	100			
2	22UAI102	Core II: Industry 4.0	100			
3	22UAI1A1	Allied-1: Introduction to linear algebra	100			
4	22UAI103	Core Lab I: Programming Lab in Java	100			
5	22UAI204	Core III: Programming in Python	100			

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