

Meeting of the Board of Studies in Computer Science

Date : 22ND MAY 2021 Venue : ONLINE – MICROSOFT TEAMS

Day: Saturday

Time : 10.00 A.M.

The Meeting of the Board of Studies in Computer Science – UG was held on Saturday, 22nd May 2021 at 10.00 a.m through online mode – Microsoft Teams.

OFFICIAL AGENDA

- The Syllabi and scheme of Examinations for UG Degree BSc. Computer Science Academic Year 2021 -24 was presented for discussion and scrutiny by the respective course teachers.
- The continuous Assessment programme for the candidates admitted during the Academic Year
 2021 -24 were revised as per the recommendations of the affiliating university Bharathiar
 University.
- 3. The Panel of Examiners for theory and practical Examinations were prepared.
- 4. The Academic Auditor has presented the outcome of the Academic Audit.
- The Course Outcome (CO) and Programme Outcome (PO) Mapping and Creation of Rubrics were recorded in each course as per the instructions from the Curriculum Development Council of NGM College.

Members Present

	Chairman
1.	Dr. Antony Selvadoss Thanamani, Associate Professor & Head, NGM College, Pollachi
	Members & External Experts
2.	Dr.A.Geetha, Associate Professor and Head, PG and Research, Department of
	Computer Science, Chikkanna Govt arts college Tirupur. geethagac07@gmail.com.
	9442919607. (Subject Expert)
3.	Dr. K Karthikeyan, Associate Professor and Head, Department of Computer Science,

Puratchi Thalaivi Amma Government Arts and Science College Palladam, gackarthi73@gmail.com 9842272503. (Subject Expert)

- Aarthy Thiyagarajan, Toshiba Software India Pvt Ltd, Bangalore. 9952812013. (Industrial Expert)
- 5. Rishop Babu, Optisol Business solutions, Chennai. (Industrial Expert)
- **6.** Dr.S.Kanchana Asssociate Professor Department of Computer Science, SRM Institute of Science & Technology, Kattankulathur, Chennai. Ph: 94444 68583 (Academic Auditor)
- 7. Dr. N. Raveendran, Scientist 'F', National Informatics Centre, New Delhi (Alumini)
- 8. Dr. R.Manicka Chezian, Associate Professor, NGM College, Pollachi
- 9. Thiru. K.Srinivasan, Associate Professor, NGM College, Pollachi
- 10. Dr. Aruchamy Rajini, Assistant Professor, NGM College, Pollachi
- 11. Ms. M. Malathi, Assistant Professor , NGM College, Pollachi
- 12. Dr. M. Sakthi, Associate Professor & Head (Self-Financing), NGM College, Pollachi
- 13. Dr. R. Nandhakumar, Assistant Professor, NGM College, Pollachi
- 14. Dr. R. Deepa, Assistant Professor, NGM College, Pollachi
- 15. Mrs. M. Dhavapriya, Assistant Professor, NGM College, Pollachi
- 16. Mrs S.Sharmila, Assistant Professor, NGM College, Pollachi
- 17. Mrs. N. Yasodha, Assistant Professor, NGM College, Pollachi
- 18. Mrs. M. Meena Kritihika, Assistant Professor, NGM College, Pollachi
- 19. Mrs. S. Shanthi, Assistant Professor, NGM College, Pollachi
- 20. Mr. N. Arul kumar, Assistant Professor, NGM College, Pollachi
- 21. Mr. N.Karthikeyan, Assistant Professor, NGM College, Pollachi
- 22. Dr. A. Kanagaraj, Assistant Professor, NGM College, Pollachi
- 23. Mrs. P.Jayapriya, Assistant Professor, NGM College, Pollachi
- 24. Mrs. S. Vallinayagam, Assistant Professor, NGM College, Pollachi
- 25. Mr. A. Muruganandham, Assistant Professor, NGM College, Pollachi

** BOS held through online mode hence no individual signatures were obtained





ANNEXURE I

Minutes of the 10th Meeting – Action Taken Report

S.No	Suggestion given by expert members	Action taken
1	Included case studies in Design and Analysis of	Reviewed and
	Computer Algorithms	Implemented
2	Included NoSQL concepts in Advanced Database Management System	Implemented
3	Introduced Big Data Analytics as a new paper	Implemented
4	Introduced Cloud Computing as a new paper	Implemented
5	Data Science	Implemented
6	AI & Machine Learning has been introduced in Elective-III	Implemented

HoD

Or. M.SAKTHI, M.Sc., M.Phil., Ph.D., Associate Professor & Head PG Department of Computer Science NGM College, Pollachi - 642 001.

List of Courses having focus on local, national, regionaland global developmental needs offered by the M.Sc Computer Science

P	12.7		PG COMI	PUTER SCI	LENCE	
Programme: N	M.Sc					Year: 2021
Course Code	Course Title		N	leed	Rationale	
-		Local	National	Regional	Global	1
21PCS101	Design & Analysis of Algorithm s	~				It also helps to design and analyze the logic on how the program will work before developing the actual code for a program
21PCS102	Data Mining and Warehousi ng		~	-	4.	extract valuable information from available data, uncovering patterns and finding anomalies and relationships in large datasets
21PCS103	Advanced Operating System		1			an operating system can manage how to divide the program so that it runs on more than one processor at a time
21PCS104	Advanced Database Managem ent System				~	provides a centralized view of data that can be accessed by multiple users, from multiple locations, in a controlled manner
21PCS206	Android Programm ing			n 2 M	✓ .	may need to address business requirements or build new services or businesses, or they may want to offer games and other types of content for users
21PCS207	Cloud Computin g				~	provides flexible resource allocation on demand with the promise of realizing elastic, Internet-accessible, computing on a pay-as-you-go basis.
21PCS208	Analytics				V.	leads to smarter business moves, more efficient operations
21PCS209	Advanced		\checkmark			provides libraries to understan the concept of Client-Server

	Java Programm ing					architecture for web- based applications
21PCS311	Internet of Things				~	have devices that self report in real-time, improving efficiency and bringing important information to the surface more quickly than a system depending on human intervention.
21PCS312	Network Security & Cryptogra phy				~	a stable and efficient network security system is essential to protecting client data
21PCS313	Python Programm ing				1	most accessible programming langua ges available because it has simplified syntax
21PCS314	Digital Image Processing	1	~			Extract from an image quantitative information that is not readily apparent to the eye, and to calibrate an image in photometric or geometric terms
21PCS1E1	Advanced Networks		V			enriches our understanding of phenomena such as riots, violence, and social and biological epidemics
21PCS2E1	Software Project Managem ent	~				important role in an organization by giving insights into project progress, performance, and inventory tracking
21PCS3E1	Artificial Intelligenc e & Machine Learning			·	~	makes it possible for machines to learn from experience, adjust to new inputs and perform human-like tasks
21PCS3E2					V .	Uses various statistical techniques to analyze and draw insights from the data. From data extraction, wrangling and pre-processing, a Data Scientis must scrutinize the data thoroughly

21PCS2P1	Pilot Project – I	 enables to mana new idea and id deficiencies before 	entify any ore substantial
21PCS4P2	Project Work and Viva-Voce	✓ resources are co explore the varia areas and analyz theoretical conce applied in real li	ous functional ze how epts taught are

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Dr. M.SAKTHI, M.Sc.M.Phil Porty

two Principal

Dr. M.SAKTIII, M.Scallin Associate Professor & Her PG Departist of Courses having focus on employability/ entrepreneurship/ skill development offered NGM College, Pollachi - 642 100 focus on employability/ entrepreneurship/ skill development offered

by the M.Sc Computer Science

	PG	COMPL	UTER SC	CIENCE		
Programme: M.Sc	>	Carl Marin			Year:2021	
Course Code	Course Title	Entrep	yability () reneurshi)evelopme	p(EN)/	Focus	Year of Introduction
and the second		EM	EM EN SD			
21PCS101	Design & Analysis of Algorithms			1	Algorithm Design	2010
21PCS102	Data Mining and Warehousing	1			Server Administration	2010
21PCS103	Advanced Operating System	~			Operating System Cert/Qual Engineer	2010
21PCS104	Advanced Database Management System	\checkmark			Database Management	2018
21PCS206	Android Programming		1		Android Developer	2014
21PCS207	Cloud Computing	-	-	. 1	Cloud	2020
21PCS208	Big Data Analytics	\checkmark			Administrator Data Architect	2016
21PCS209	Advanced Java Programming			~	Java Web Developer	2014

21PCS311	Internet of Things		\checkmark		Iot Architect	2017
21PCS312	Network Security & Cryptography		 Image: A second s	-	Cyber Security Engineer	2018
21PCS313	Python Programming			~	Python Developer	2019
21PCS314	Digital Image Processing			1	Image Processing Engineer	2013
21PCS1E1	Advanced Networks	\checkmark			Network Architect	2010
21PCS2E1	Software Project Management	\checkmark			Project Developer	2021
21PCS3E1	Artificial Intelligence & Machine Learning		\checkmark		Ai Data Analyst Machine Learning Engineer	2021
21PCS3E2	Data Science	\checkmark			Data Scientist	2021
21PCS2P1	Pilot Project – I		× .		Android App Developer	2015
21PCS4P2	Project Work and Viva-Voce		\checkmark		Software Developer	2010



S.No	Course Code	Title Details Changes		Reason for Change			
1	21PCS104	PCS104 Advanced Unit - 60% Transcation Database III,Unit- processing,Concurr Management IV,Unit-V ency control System techniques,Mongo		processing,Concurr ency control	Advanced SQL,NoSQL,Hybrid SQL	Subject Expert	
	21PCS206	Android Programmin g	Unit-V	10%	Nil .	Unit-V: Case Study: Android Operating System- Architecture, Security Challenges and Solutions.	Subject Expert
3	21PCS210 Programmin g Lab II: Android Programmin g		Programs for applications are newly added.	Subject Expert			
4	21PCS101	Analysis of Algorithms		Case study: Activity or Task Scheduling Problem- Median of the two sorted arrays- Sudoku	Subject Expert		
5	21PCS103	Advanced Operating System	New	100%	New	New	Subject Expert / Course Teacher
6	21PCS104	Advanced Database Management System	Unit - III,Unit- IV,Unit-V	60%	Transcation processing,Concurr ency control techniques, Mongo db,Neo4j.	Advanced SQL,NoSQL,Hybrid SQL	Subject Expert
7	21PCS105	Programmin g Lab I: Design & Analysis of Algorithms	Programs	20%	Basic Programs were removed.	New programs are added.	Subject Expert
8	21PCS1E1	Elective – I Advanced Networks	Unit-V	20%	MIME	Unit-V : Case Study - TCP/IP framework case study	Subject Expert / Course Teacher
9	21PCS1E2	Elective – I Wireless Networks	New	100%	New	New	
10	21PCS1E3	Elective – 1 Unit-V 10% Nil Unit - V: Wireless Mobile Computing Io% Nil Unit - V: Wireless Devices with Windows CE: Different Flavors of Windows CE – Windows CE		Course Teacher			
11	21PCS1N1	Non-Major	New	100%	New	Architecture. New	CDC

Pressure Network New New CDC 13 21PCS207 Cloud Computing New 100% New New Subject 14 21PCS208 Big Data Analytics New 100% New New New Subject 15 21PCS221 Elective - II Software Project New 100% New New New Subject Exper 16 21PCS222 Elective - II Software Project New 100% New New New Subject Exper 17 21PCS211 Non Major Elective II: Web New 100% New New Subject Exper 18 21PCS312 Non Major Elective II: Advanced Internet Technologies New 100% New New CDC instructions NME is introduced 19 21PCS312 Network V Unit Software Hill, Unit V 15% one Topic Key Cryptosystems: Pseudoradom Number Generation Based on an Asymmetric Cipher. Course Teacher 20 21PCS313 Python Programmin Software Lab Title, New 10% Nei Niil Data Ploting and Vizualization Techniqu es Course Teacher 21 21PCS3E1 Elective-III Network New 100% New New Subject Exper	10	- N.	Elective I : Multimedia Packages Lab					instructions NME is introduced
In ColoryComputingNew100%NewNewSubject Expert/Univer ity Nominee1421PCS208Big Data AnalyticsNew100%NewNewNewSubject Expert/Univer ity Nominee1521PCS2E1Elective - II ManagementNew100%NewNewNewSubject Expert/Univer ity Nominee1621PCS2E2Elective - II Software Engineering and Testing and Testing Lab (General Supportive - II)New100%NewNewNewSubject Expert/Univer1821PCS2N2Non Major Elective - IINew100%NewNewNewCDC instructions NME is introduced1921PCS312Network Sceurity & yUnit Unit-IV, Rest10%NewNewNewCourse Teacher2021PCS3E1Elective-III Programmin gTitle, Unit-IV, Text Books10%NewNewNewCourse Teacher2121PCS3E1Elective-III NewNew100%NewNewNewCourse Teacher2121PCS3E1Elective-III NewNilData Ploting and Vizualization Technique esCourse Teacher2121PCS3E1Elective-III NewNew100%NewNewNewSubject Expert/Univer	12	21PCS1N2	Desktop Publishing	New	100%	New	New	instructions NME is
14 21PCS208 Bg Data Analytics New 100% New New New Subject Expendence 15 21PCS2E1 Elective - II Software Project Management New 100% New New New Subject Expendence 16 21PCS2E2 Elective - II Software Engineering and Testing New 100% New New New Subject Expendence 17 21PCS2N1 Non Major Web Designing Lab (General Supportive - II) New 100% New New New CDC instructions NME is introduced 18 21PCS2N2 Non Major Elective II: Advanced Internet Technologies New 100% New New New CDC instructions NME is introduced 19 21PCS312 Network V Unit Network Unit Unit-IV, Text Books 10% New New New Course Pseudorandom Number Generation Based on an Asymmetric Cipher. Course Teacher 21 21PCS3E1 Elective-III Artificial Unit-IUT/Rest Books 100% New New New Subject Expert/Univer	13	21PCS207		New	100%	New	New	Expert/Univers
15 21PCS2E1 Elective - II Software Project Management. New 100% New New New Subject Expendence 16 21PCS2E2 Elective - II Software Engineering and Testing New 100% New New New Subject Expendence 17 21PCS2N1 Non Major Elective II: Web Designing Lab (General Supportive - II) New 100% New New New CDC instructions NME is introduced 18 21PCS2N2 Non Major Elective II: Advanced Internet Technologies Lab New 100% New New New CDC instructions NME is introduced 19 21PCS312 Network Security & Cryptograph y Unit Unit-IV, B 15% one Topic Key Cryptosystems: Pseudorandom Number Generation Based on an Asymmetric Cipher. Course Teacher 20 21PCS313 Python Programmin g Title, Unit-IV, Books 10% New Nei Data Ploting and VizualizationTechniqu es Course Teacher 21 21PCS3E1 Elective-III Artificial Interlutiverge New 100% New New New Subject Expert/Univer	14	21PCS208		New	100%	New	New	Subject Expert
16 21PCS2E2 Elective – II Software Engineering and Testing New 100% New New New Subject Expendence Subject Expendence Instructions 17 21PCS2N1 Non Major Elective II: Web Designing Lab New 100% New New New CDC instructions NME is introduced 18 21PCS2N2 Non Major Elective II: Advanced Internet Technologies Lab New 100% New New New CDC instructions NME is introduced 19 21PCS312 Network Security & Cryptograph y Unit III,Unit V Text Books 15% one Topic Key Cryptosystems: Pseudorandom Number Generation Based on an Asymmetric Cipher. Course Teacher 20 21PCS313 Python Programmin g Title, Unit-IV, g 10% Nil Data Ploting and VizualizationTechniqu es Course Teacher 21 21PCS3E1 Elective-III Artificial Internet New 100% New New New Subject Expert/Univer	4		Elective – II Software Project	New	100%	New	New	Subject Expert
17 21PCS2N1 Non Major Elective II: Web Designing Lab (General Supportive - II.) New 100% New New CDC instructions NME is introduced 18 21PCS2N2 Non Major Elective II: Advanced Internet Technologies Lab New 100% New New CDC instructions NME is introduced 19 21PCS312 Network Security & Cryptograph y Unit III,Unit V Cryptograph y 15% one Topic Key Cryptosystems: Pseudorandom Number Generation Based on an Asymmetric Cipher. Course Teacher 20 21PCS313 Python Pogrammin g Title, Books 10% Nil Data Ploting and VizualizationTechniqu es Course Teacher 21 21PCS3E1 Elective-III Artificial Intellimence New 100% New New New Subject Expert/Univer			Elective – II Software Engineering	New	100%	New	New	Subject Expert
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20 21PCS313 Python 11te, Programmin 10% Nil Data Ploting and VizualizationTechniqu es Course Teacher 21 21PCS3E1 Elective-III Artificial Intelligence New 100% New New Subject Expert/Univer			Network Security & Cryptograph		15%	one Topic	Pseudorandom Number Generation Based on an	
21 21PCS3E1 Elective-III New 100% New New Subject Artificial Intelligence			Programmin	Unit-IV, Text	10%	Nil	Data Ploting and VizualizationTechniqu	
& Machine Learning	21	21PCS3E1	Artificial Intelligence & Machine		100%	New	New	Subject Expert/Univers ity Nominee

22	21PCS3E2	Elective-III Data Science	New	100%	New	New	New Subject based on Current Needs
23	21PCS3E3	Elective-III Robotic Process Automation for Business	New	100%	New	New	New Subject based on Current Needs
24	21PCS3N1	Non Major Elective III: Visual Basic Lab (General Supportive - III)	New	100%	New	New	CDC instructions NME is introduced
25	21PCS3N2	Non Major Elective III:2D Animation Lab.	New	100%	New	New	CDC instructions NME is introduced

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HoD

Dr. M.SAKTHI, M.Sc.M.Phil. Ph D.

Associate Professor & Hea

PBercentage of Revision of M.Sc Computer Science Syllabus under Regulation 2021 - 2023 Batch NGM College, Pollachi - 642 001.

W.Su

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