

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

POLLACHI

PG DEPARTMENT OF COMPUTER SCIENCE

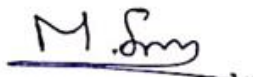
MINUTES OF BOS MEETING

The 14th Meeting of the Board of studies of the PG Department of Computer Science was held on 24/06/2023 at 10.00 a.m. in the Nallamuthu Gounder Mahalingam College, Palaghat Road, Pollachi.

1. The following members were present:

S.NO.	MEMBERS	SIGNATURE
1.	CHAIRMAN: DR. M. SANTHI	M. S. 24/6/23
2.	UNIVERSITY NOMINEE DR. P. BALAMURUGAN Assistant Professor, Department of Computer Science, Govt. Arts College, Coimbatore.	Belant 24/6/2023
3.	ACADEMIC EXPERT DR. M. MAYILVAKKANAM Associate Professor, Department of Computer Science, PSC College of Arts & Science, Coimbatore - 641046.	shv 24/6/23
4.	ACADEMIC AUDITOR DR. N. SASTREKHA Assistant Professor, Department of Computer Science, Vidhyasagar College of Arts & Science, Udumalpet - 642122	N S 24/6/2023
5.	INDUSTRIAL EXPERT MR. S. SARAVANAPPAH Assistant Consultant - Technical Manager, cloud Architect - Google cloud, Tata consultancy services, Buito, Ecuador.	S. Saravanan 24/6/2023

S. NO.	MEMBERS	SIGNATURE
6	ALUMNI REPRESENTATIVE Mr. H. PRAKASH Software Engineer, Wipro Technologies Bangalore	K. Prasad
7	Dr. M. Rathamani	M. Rathamani 24/6/23
8	Dr. R. Rupa	Absent
9	S. S. SHAWNT	S. S. Shawnt
10.	STUDENT REPRESENTATIVE Ms. R. DEEPIKA	R. Deepika


CHAIRMAN

Dr. M. SAKTHI, M.A., M.Phil., Ph.D.,
Associate Professor & Head
PG Department of Computer Science
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PRINCIPAL

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PG DEPARTMENT OF COMPUTER SCIENCE

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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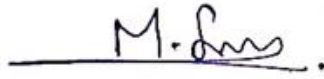
14th Board of Studies Meeting in the PG Department of
Computer Science

Date & Time: 24th June 2023, 10.00 A.M

Agenda

BoS / CS 14.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the PG Department of Computer Science
BoS / CS 14.2	:	Confirmation of the Minutes of the 13 th / Previous meeting of Board of studies in the PG Department of Computer Science held on 4th June 2022 and Action taken report of 14 th meeting of Board of studies
BoS / CS 14.3	:	13.3.1 Syllabus of I MSc COMPUTER SCIENCE under Regulation 2022
		13.3.2 Syllabus of II MSc COMPUTER SCIENCE under Regulation 2022
		Any other Discussions if any
BoS / CS 14.4	:	1. BOS Members suggested to remove the course Data Mining and Warehousing instead of that new course Data Mining using R (22PCS102) has been introduced in first semester. 2. Advanced Java Programming (22PCS104) has been moved from second semester to first semester and Advanced Database Management (22PCS209) has been moved from first semester to second semester. 3. Elective I: Mobile Computing was removed. Network Security & Cryptography (22PCS1E3) from third semester has been moved to first semester as Elective. Block chain security concept has been added to the existing syllabus. 4. Pilot Project-I (22PCS317) has been moved from second semester to third semester. 5. New course Full Stack Web Development (22PCS312) has been introduced in third semester.

		6. Digital Image Processing (22PCS314) Unit 1 has been changed. MATLAB added to Unit 1. 7. Elective III: Data Science was removed. Instead of that Natural Language Processing and Text Analytics (22PCS3E2) has been introduced.
BoS / CS 14.5	:	1. Value Added Course Virtual Reality introduced in our syllabus.



HOD

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 Associate Professor & Head
 PG Department of Computer Science
 NGM College, Pollachi - 642 001.



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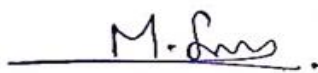
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BoS/CS14.1 WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE PG DEPARTMENT OF COMPUTER SCIENCE

Dr.M.Sakthi, The Chairman, BoS of the PG Department of Computer Science welcomed and introduced the members of 14th Board of Studies and thanked each one of them for sparing their valuable time to attend the meeting.

BoS/CS 14.2 TO CONFIRM THE MINUTES OF 13th BOS MEETING HELD ON 04.06.2022. The minutes of the 14th Board of Studies meeting held on 24.06.2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 14th Academic council.

~ Action Taken Report (Enclosed in Annexure 1)



HOD

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M.Sc COMPUTER SCIENCE (I to IV SEMESTER)

The Following Papers from MSc Computer Science were accepted by the experts without modification:

- 23PCS101 – Design & Analysis of Algorithms
- 23PCS102- Data Mining using R Tool
- 23PCS104 – Advanced Java Programming
- 23PCS105 – Programming Lab I: Design & Analysis of Algorithms
- 23PCS206 – Android Programming
- 23PCS207 - Cloud Computing
- 23PCS208 - Big Data Analytics
- 23PCS209 - Advanced Database Management System
- 23PCS210 - Programming Lab II: Android Programming
- 23PCS2N1 - Non Major Elective I: Web Designing Lab
- 23PCS2N2 - Advanced Internet Technologies Lab
- 23PCS311 - Internet of Things
- 23PCS312- Full Stack Web Development
- 23PCS313 - Python Programming
- 23PCS314- Digital Image processing
- 23PCS315 - Programming Lab III: Internet of Things
- 23PCS3P1 - Pilot Project – I
- 23PCS3E1 - Elective III: Artificial Intelligence & Machine Learning
- 23PCS3E2 - Elective III: Robotic Process Automation for Business
- 22PCS4P2 - Project Work and Viva-Voce

The following courses were revised with major / minor modifications

- 23PCS103 – Advanced Operating System
- 23PCS1E1 – Elective I: Software Project Management
- 23PCS1E2 – Elective I: Software Engineering and Testing
- 23PCS1E3 - Elective I: Object Oriented Analysis and Design with UML
- 23PCS2E1 - Elective II: Advanced Networks
- 23PCS2E2 - Elective II: Wireless Networks

Course Removed:

- 23PCS316- Programming Lab IV: Digital Image Processing using MATLAB
- 23PCS1E3 – Elective I: Network Security & Cryptography

New Course Added:

The following papers from M.Sc COMPUTER SCIENCE were accepted by the experts fully without further suggestions

- 23PC2E3- Elective II: Mobile Computing
- 23PCS3E2 - Elective III: Data Science

BoS/CS14.4 SUGGESTIONS GIVEN BY THE BoS MEMBERS

14.4.1: It is suggested to introduce the more case studies in Data Mining using R Tool in I Semester.

14.4.2: It is suggested to revamp the Advanced DBMS syllabus and to introduce SQL and Cassandra in II Semester.

14.4.3: It is suggested to change the content and include Devops in Advanced Java Programming course in I Semester.

14.4.4: It is suggested to replace Data Science course with Natural Language Processing and Text Analytics as Elective course in III Semester.

14.4.5: It is suggested to include Linux Case studies in Advanced Operating System in I semester.

14.4.6: It is suggested to Block chain security should be added to value added course.

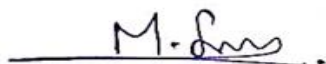
14.4.7: It is suggested to put syllabus with sub-content and detailed manner.

14.4.8: It is suggested to introduce multi Cloud, AWS login, Azure, Teraforms, real time hands on sessions to be inserted in Cloud Computing in III Semester.

14.4.8: It is suggested to make the students do courses in Udemy, NPTEL, SWAYAM etc. in the Core papers

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.



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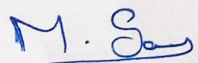
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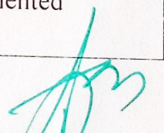
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ANNEXURE I

Minutes of the 13th / Previous Meeting – Action Taken Report

S.No	Suggestion given by expert members	Action taken
1	To Remove the Course Data Mining and Warehousing, and instead Data Mining using R has been introduced.	Reviewed and Implemented
2	To introduce the new courses Full Stack Web Development in III Semester.	Implemented
3	To replace Mobile Computing course with Network Security & Cryptography as Elective course in II Semester.	Implemented
4	To replace Data Science course with Natural Language Processing and Text Analytics as Elective course in III Semester.	Implemented
5	To move Advanced Java Programming from II Semester to I Semester and Pilot Project-I from II Semester to III Semester.	Implemented
6	To include data plotting and visualization techniques in Python Programming.	Implemented
7	To introduce Elective – II Mobile Computing as a new paper	Implemented
8	To introduce Virtual Reality as Value Added Course.	Implemented
9	To introduce Software Engineering and Testing as a new paper	Implemented
11	To introduce Elective-III Data Science as a new paper	Implemented
12	To introduce Elective-III Robotic Process Automation for Business as a new paper	Implemented


CHAIRMAN


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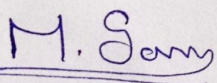
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Action Taken Report – Based on Feedback on Curriculum -2023-2024

S.No	Stackholder	Suggestions Given by Stakeholder	Action Taken
1.	Industry Expert	To Remove the Course Data Mining and Warehousing, and instead Data Mining using R has been introduced. To introduce the new courses Full Stack Web Development in III Semester.	Reviewed and Implemented in the Batch Syllabus 2023-2025
2.	University Nominee	To replace Mobile Computing course with Network Security & Cryptography as Elective course in II Semester.	Implemented Batch Syllabus 2023-2025
3.	Faculty	To introduce Elective – II Mobile Computing as a new paper. To introduce Software Engineering and Testing as a new paper.	Implemented Batch Syllabus 2023-2025
4.	Alumni Nominee	To introduce Elective-III Data Science as a new paper To introduce Elective-III Robotic Process Automation for Business as a new paper	Implemented Batch Syllabus 2023-2025



BoS Chairman

Dr. M.SAKTHI, M.Sc., M.Phil., Ph.D.,
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Principal
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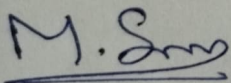
**List of Courses having focus on local, national, regional and global developmental needs offered
by the M.Sc Computer Science**

PG COMPUTER SCIENCE						
Programme: M.Sc Computer Science						Year: 2023
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
23PCS101	Design & Analysis of Algorithms	✓				It helps to design and analyze the logic on how the program will work before developing the actual code for a program
23PCS102	Data Mining using R Tool		✓			Extract valuable information from available data, uncovering patterns and finding anomalies and relationships in large datasets
23PCS103	Advanced Operating System		✓			An operating system can manage how to divide the program so that it runs on more than one processor at a time
23PCS104	Advanced Java Programming		✓			Provides libraries to understand the concept of Client-Server architecture for web-based applications
23PCS206	Android Programming				✓	Address the business requirements and build new applications or services for smart devices
23PCS207	Cloud Computing				✓	Provides flexible resource allocation on demand with the promise of realizing

						elastic, Internet-accessible, computing on a pay-as-you-go basis
23PCS208	Big Data Analytics				✓	Leads to smarter business moves, more efficient operations
23PCS209	Advanced Database Management System				✓	Provides a centralized view of data that can be accessed by multiple users, from multiple locations, in a controlled manner
23PCS311	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.
23PCS312	Full Stack Web Development				✓	Provides an unparalleled freedom to simultaneously work on the front- and backend, faster development and delivery
23PCS313	Python Programming				✓	Most accessible programming languages available because it has simplified syntax
23PCS314	Digital Image Processing		✓			Extract from an image quantitative information that is not readily apparent to the eye, and to calibrate an image in photometric or geometric terms
23PCS1E1	Software Project Management	✓				Important role in an organization by giving insights into project progress,

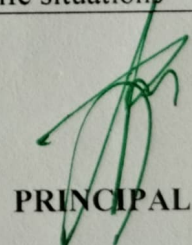
						performance, and inventory tracking
23PCS1E2	Software Engineering and Testing	✓				Application of principles used in the field of engineering, which usually deals with physical systems, to the design, development, testing and deployment of software systems
23PCS2E3	Mobile Computing				✓	A stable and efficient network security system is essential to protecting client data
23PCS2E1	Advanced Networks		✓			Share information effortlessly, increasing productivity and efficiency, other benefits include cost-effectiveness, storage efficiency, flexibility, and data security
23PCS2E2	Wireless Networks				✓	Plays a key role in today's communications, and new forms of it will become central to emerging technologies including robots, drones, self-driving vehicles and new medical devices
23PCS2E3	Object Oriented Analysis and Design with UML	✓				Helps to visualize, specify, construct, and document the artifacts of an object-oriented system
23PCS3E1	Artificial Intelligence & Machine Learning				✓	Makes it possible for machines to learn from experience, adjust to new inputs and perform human-like

						tasks
23PCS3E2	Natural Language Processing and Text Analytics				✓	Helps to analyze the data collected from various sources, such as social media profiles, customer surveys, employee surveys, and other feedback tools and
23PCS3E3	Robotic Process Automation for Business				✓	Automate various supply chain processes, including data entry, predictive maintenance and after-sales service support
23PCS3P1	Pilot Project – I				✓	Enables to manage the risk of a new idea and identify any deficiencies before substantial resources are committed
23PCS4P2	Project Work and Viva-Voce				✓	Explore the various functional areas and analyze how theoretical concepts taught are applied in real life situations



CHAIRMAN

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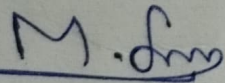
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22PCS104	Advanced Java Programming		✓			Provides libraries to understand the concept of Client-Server architecture for web-based applications
22PCS206	Android Programming				✓	Address the business requirements and build new applications or services for smart devices
22PCS207	Cloud Computing				✓	Provides flexible resource allocation on demand with the promise of realizing

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22PCS208	Big Data Analytics				✓	Leads to smarter business moves, more efficient operations
22PCS209	Advanced Database Management System				✓	Provides a centralized view of data that can be accessed by multiple users, from multiple locations, in a controlled manner
22PCS311	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.
22PCS312	Full Stack Web Development				✓	Provides an unparalleled freedom to simultaneously work on the front- and backend, faster development and delivery
22PCS313	Python Programming				✓	Most accessible programming languages available because it has simplified syntax
22PCS314	Digital Image Processing		✓			Extract from an image quantitative information that is not readily apparent to the eye, and to calibrate an image in photometric or geometric terms
22PCS1E1	Advanced Networks		✓			Share information effortlessly,

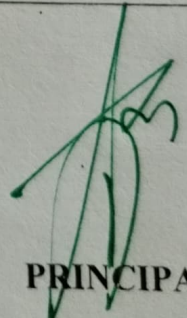
						increasing productivity and efficiency, other benefits include cost-effectiveness, storage efficiency, flexibility, and data security
22PCS1E2	Wireless Networks				✓	Plays a key role in today's communications, and new forms of it will become central to emerging technologies including robots, drones, self-driving vehicles and new medical devices
22PCS1E3	Network Security & Cryptography				✓	A stable and efficient network security system is essential to protecting client data
22PCS2E1	Software Project Management	✓				Important role in an organization by giving insights into project progress, performance, and inventory tracking
22PCS2E2	Software Engineering and Testing	✓				Application of principles used in the field of engineering, which usually deals with physical systems, to the design, development, testing and deployment of software systems
22PCS2E3	Object Oriented Analysis and Design with UML	✓				Helps to visualize, specify, construct, and document the artifacts of an object-oriented system
22PCS3E1	Artificial Intelligence				✓	Makes it possible for machines to

	& Machine Learning					learn from experience, adjust to new inputs and perform human-like tasks
22PCS3E2	Natural Language Processing and Text Analytics				✓	Helps to analyze the data collected from various sources, such as social media profiles, customer surveys, employee surveys, and other feedback tools and
22PCS3E3	Robotic Process Automation for Business				✓	Automate various supply chain processes, including data entry, predictive maintenance and after-sales service support
22PCS3P1	Pilot Project – I				✓	Enables to manage the risk of a new idea and identify any deficiencies before substantial resources are committed
22PCS4P2	Project Work and Viva-Voce				✓	Explore the various functional areas and analyze how theoretical concepts taught are applied in real life situations



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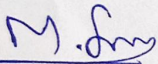
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**List of Courses having focus on employability/ entrepreneurship/ skill development offered by
the M.Sc Computer Science**

PG COMPUTER SCIENCE						
Programme: M.Sc Computer Science					Year: 2023	
Course Code	Course Title	Employability (EM) / Entrepreneurship (EN) / Skill Development (SD)			Focus	Year of Introduction
		EM	EN	SD		
23PCS101	Design & Analysis of Algorithms			✓	Algorithm Design	2010
23PCS102	Data Mining using R	✓			Data Analyst	2022
23PCS103	Advanced Operating System	✓			Operating System Cert/Qual Engineer	2010
23PCS104	Advanced Java Programming			✓	Java Web Developer	2014
23PCS206	Android Programming	✓			Android Developer	2014
23PCS207	Cloud Computing			✓	Cloud Administrator	2020
23PCS208	Big Data Analytics	✓			Data Architect	2016
23PCS209	Advanced Database Management System	✓			Database Management	2018
23PCS311	Internet of Things		✓		IoT Architect	2017
23PCS312	Full Stack Web Development	✓			Full Stack Web Developer	2022
23PCS313	Python Programming			✓	Python Developer	2019
23PCS314	Digital Image Processing			✓	Image Processing Engineer	2013
23PCS1E1	Advanced Networks	✓			Network Architect	2010
23PCS1E2	Wireless Networks			✓	Network Engineer	2021

23PCS1E3	Mobile Computing			✓	Software Engineer	2023
23PCS2E1	Software Project Management	✓			Project Manager	2021
23PCS2E2	Software Engineering and Testing	✓			Software Engineer	2021
23PCS2E3	Object Oriented Analysis and Design with UML	✓			System Analyst	2021
23PCS3E1	Artificial Intelligence & Machine Learning	✓			AI Data Analyst, Machine Learning Engineer	2021
23PCS3E2	Data Science	✓			Data Analyst	2023
23PCS3E3	Robotic Process Automation for Business		✓		Business Automation	2021
23PCS3P1	Pilot Project – I		✓		Android App Developer	2015
23PCS4P2	Project Work and Viva-Voce		✓		Software Developer	2010



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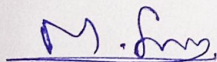

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22PCS102	Data Mining using R	✓			Data Analyst	2022
22PCS103	Advanced Operating System	✓			Operating System Cert/Qual Engineer	2010
22PCS104	Advanced Java Programming			✓	Java Web Developer	2014
22PCS206	Android Programming	✓			Android Developer	2014
22PCS207	Cloud Computing			✓	Cloud Administrator	2020
22PCS208	Big Data Analytics	✓			Data Architect	2016
22PCS209	Advanced Database Management System	✓			Database Management	2018
22PCS311	Internet of Things		✓		IoT Architect	2017
22PCS312	Full Stack Web Development	✓			Full Stack Web Developer	2022
22PCS313	Python Programming			✓	Python Developer	2019
22PCS314	Digital Image Processing			✓	Image Processing Engineer	2013
22PCS1E1	Advanced Networks	✓			Network Architect	2010

22PCS1E2	Wireless Networks			✓	Network Engineer	2021
22PCS1E3	Network Security & Cryptography			✓	Cyber Security Engineer	2018
22PCS2E1	Software Project Management	✓			Project Manager	2021
22PCS2E2	Software Engineering and Testing	✓			Software Engineer	2021
22PCS2E3	Object Oriented Analysis and Design with UML	✓			System Analyst	2021
22PCS3E1	Artificial Intelligence & Machine Learning	✓			AI Data Analyst, Machine Learning Engineer	2021
22PCS3E2	Natural Language Processing and Text Analytics	✓			Data Analyst	2022
22PCS3E3	Robotic Process Automation for Business		✓		Business Automation	2021
22PCS3P1	Pilot Project – I		✓		Android App Developer	2015
22PCS4P2	Project Work and Viva-Voce		✓		Software Developer	2010



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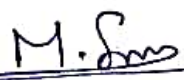


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Percentage of Revision of M.Sc Computer Science Syllabus under Regulation 2022

PG COMPUTER SCIENCE							
S.No	Course Code	Course Title	Change Details	% of Changes	Content Deleted	Content Updated	Reason for Change
							Subject Expert / Course Teacher / Alumni Opinion
1	22PCS102	Data Mining using R	New	100%	New	New	Subject Expert
2	22PCS1E3	Elective I: Network Security & Cryptography	Unit-IV	10%	NIL	Block chain Security	Subject Expert
3	22PCS312	Full Stack Web Development	New	100%	New	New	Subject Expert, Alumni Opinion
4	22PCS314	Digital Image Processing	Unit-I	10%	NIL	MATLAB: Introduction-Basic features, Starting, Quitting, Creating variables.	Subject Expert
5	22PCS3E2	Elective III: Natural Language Processing and Text Analytics	New	100%	New	New	Subject Expert
6		Virtual Reality	New	100%	New	New	New Subject based on Current Needs



CHAIRMAN

Dr. M.SAKTHI, M.Sc., M.Phil., Ph.D.,
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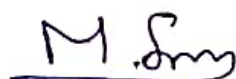
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PG COMPUTER SCIENCE							
S.No	Course Code	Course Title	Change Details	% of Changes	Content Deleted	Content Updated	Reason for Change
							Subject Expert / Course Teacher / Alumni Opinion
1	23PCS2E3	Data Science	New	100%	New	New	Subject Expert
2	23PCS3E2	Mobile Computing	New	100%	New	New	Subject Expert
2	23PCS103	Advanced Operating System	Unit-V	10%	NIL	Case study	Subject Expert
3	23PCS1E1	Elective I: Software Project Management	NIL	NIL	NIL	SWAPED From II SEMESTER to FIRST SEMESTER	Subject Expert, Alumni Opinion
4	23PCS1E2	Elective I: Software Engineering and Testing	NIL	NIL	NIL	SWAPED From II SEMESTER to FIRST SEMESTER	Subject Expert
5	23PCS1E3	Elective I: Object Oriented Analysis and Design with UML	NIL	NIL	NIL	SWAPED From II SEMESTER to FIRST SEMESTER	Subject Expert
6	23PCS2E1	Elective II: Advanced	NIL	NIL	NIL	SWAPED From I SEMESTER	Subject Expert

		Networks				to II SEMESTER	
	23PCS2E2	Elective II: Wireless Networks	NIL	NIL	NIL	SWAPED From I SEMESTER to II SEMESTER	Subject Expert
	23PCS2E3	Elective II: Robotic Process Automation for Business	NIL	NIL	NIL	SWAPED From I SEMESTER to II SEMESTER	Subject Expert



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