DEPARTMENT OF INFORMATION TECHNOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

POLLACHI - 642001

14th Board of Studies Meeting in the Department of Information Technology

Date & Time: 04.06.2022 & 10 AM

Agenda

BoS / IT 14.1	:	Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Information Technology
BoS / IT 14.2	:	Confirmation of the Minutes of the 13th / Previous meeting of Board of studies in the Department of Information Technology held on 22.05.2021 and Action taken report of 13th meeting of Board of studies
BoS / IT 14.3	:	Syllabus of B.Sc. INFORMATION TECHNOLOGY under Regulation 2022-2023
		Any other Discussions if any
BoS / IT 14.4	:	Suggestion given by BOS Members
BoS / IT 14.5	:	Any other items

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
POLLACHI
DEPARTMENT OF INFORMATION TECHNOLOGY
MINUTES OF BOS MEETING

The 14th Meeting of the Board of studies of the DEPARTMENT OF INFORMATION TECHNOLOGY was held on 04.06.2022 at 10.00 a.m. in the DEPARTMENT, NALLAMUTHU GOUNDER MAHALINGAM COLLEGE, POLLACHI - 642001.

1. The following members were present:

1.	Mr. K. VIJAYAKUMAR Assistant Professor and Head	Chairman 4/6/2022
2..	Mr R. SEKAR Assistant Professor	Internal Members 04/06/22
3.	Mrs C. R. DURGADEVI Assistant Professor	4/6/22
4.	Mrs B. KALAISELVI Assistant Professor	4/6/22
5.	Mrs. V. PRABAVATHI Assistant Professor	04/06/22
6.	Mr. R. Boobathiraj Assistant Professor, Dept. of Computer Science – IT Dr. GRD College of Science, Coimbatore – 641 014. E-Mail: boobathi191@gmail.com Mobile No. : 99659 75295	University Nominee 04/06/22
7.	Dr. A. Poongodi Asst. Professor in Computer Science, Prof. Dhanapalan College of Arts and Science, Padur, Kelambakkam, Chennai. (Chennai University) E-Mail: poongodimca1979@gmail.com Mobile No.: 9710907426.	Academic Expert 4.6.22
8.	Mr. K. Tharunkumar Asst. Consultant TCS Software Company Ltd. Siruseri, Chennai. 603103. E-Mail: tharunkumar.k@tcs.com Mobile No.: 9843099886	Industrial Expert 04/06/22

9.	Mrs. D. Anitha, Technology Analyst, Infosys Limited, Bangalore. E-Mail: anitha.ngm@gmail.com Mobile No. 8861350678	Alumnus nominated by HoD 4/6/22.
10.	Dr. M. Anandhi Associate Professor in B.Sc. IT Cauvery College for Women, Annamalai Nagar. Trichy – 18. E-Mail: anandhia@yahoo.com Mobile No.: 97502 55226	Special Invitee (Subject Expert) 4/6/22
11.	Selvan V. VENKATESHPRABHU FINAL YEAR	Student Members V. Venkateshprabhu V. Jayalakshmi
12.	Selvi V. JAYALAKSHMI FINAL YEAR	

HoD | CDC Co-ordinator | COE | PRINCIPAL

K.VIJAYAKUMAR, MCA.,M.Phil.,
Head,Dept. of Information Technology,
NGM College (Autonomous),
POLLACHI - 642 001.

BoS/IT 14.1 WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF INFORMATION TECHNOLOGY. The Chairman. BoS of the Department of Information Technology 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/IT 14.2 TO CONFIRM THE MINUTES OF PREVIOUS BOS MEETING NO. BoS/IT 13.2 HELD ON 22.05.2021. The minutes of the BoS/IT 13.3 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 PREVIOUS ACADEMIC MEETING NO Academic council.

BoS/IT 14.3

The presented syllabus was accepted by the experts and a **few suggestions** were given as noted into 14.4.

BoS/IT 14.3.1

B.Sc. INFORMATION TECHNOLOGY (I & II SEMESTER)

The following papers from B.Sc. IT were accepted by the experts fully without further suggestions

1. 22UIT101 - Core - I : Programming in 'C'
2. 22UIT102 - Core - II : Computer System Architecture
3. 22UIT1A1 - Allied - I : Mathematics - I (Statistics)
4. 22UIT103 - Core Lab - I : Programming in 'C'
5. 22UIT204 - Core - III: Object Oriented Programming with Java
6. 22UIT205 - Core - IV: Data Structures
7. 22UIT2A2 - Allied - II: Mathematics II (Discrete Mathematics)
8. 22UIT206 - Core Lab - II: Programming in Java

BoS/IT 14.3.2

B.Sc. INFORMATION TECHNOLOGY (III & IV SEMESTER)

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

1. In (22UIT308) Core - VI : Relational Database Management System Text Book can be changed.
2. In (22UIT309) - Core - VII: Service Oriented Architecture Text book can be changed.
3. In (22UIT412) Core - VIII: Data Communication and Networks course TCP/IP Part-1 chapter can be included

The following papers fromB.Sc. IT were accepted by the experts fully without further suggestions:

1. 22UIT307 - Core - V: Operating Systems
2. 22UIT3A3 - Allied - III: Microprocessor and Assembly Language Programming
3. 22UIT310 - Core Lab - III: RDBMS
4. 22UIT311 - Core Lab - IV: Web Designing (HTML, CSS, JavaScript & Angular)
5. 22UIT3N11 / 22UIT3N12 - Non Major Elective - I: Social Networks / Non Major Elective - I: Hardware & Networking

6. 22VIT304 - Basics of Animation Technology
7. 22UIT413 - Core - IX: Advanced Java Programming
8. 22UIT4A4 - Allied - IV: Software Engineering
9. 22UIT415 - Core Lab - V: Programming in Advanced Java
10. 22UIT4N21 / 22UIT4N22 - Non Major Elective - II : Data Analytics / Computer Security
11. 22VIT404 - Basics of Block Chain Architecture

BoS/IT 14.3.3

B.Sc. INFORMATION TECHNOLOGY (V & VI SEMESTER)

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

1. In (22UIT5E12) Core Elective - I : Artificial Intelligence Unit 1 & V can be updated.

The following papers from B.Sc. IT were accepted by the experts fully without further suggestions:

1. 22UIT517 - Core -XI: Information Security
2. 22UIT518 - Core - XII: Skill Enhanced Course Open Source Methodologies
3. 22UIT5E11 / 22UIT5E13 - Core Elective - I: Data Mining and Analytics/ Core Elective - I: E-Commerce
4. 22UIT519 - Core Lab - VII: Open Source Methodologies
5. 22UIT520 - Core Lab - VIII : Software Testing Tools
6. 22UIT5S11 / 22UIT5S12- Skill Based Elective - I : Lab. Web Programming (PHP)/ Skill Based Elective - I : Lab. Web Programming (ASP.net)
7. 22UIT5AL1 - Advanced Learner Course - I Big Data Analytics (Optional)
8. 22UIT621 - Core - XIV : Skill Enhanced Course Python Programming
9. 22UIT6E31 / 22UIT6E32 / 22UIT6E33

   Core Elective - II : R Programming/
   Core Elective - II : Internet of Things/
   Core Elective - II : Block Chain Technology

10. 22UIT6E31/ 22UIT6E32/22UIT6E33

Core Elective - III : Mobile Computing/
Core Elective - III : Computer Graphics/
Core Elective - III : Cloud Computing

11. 22UIT622 - Core Lab - IX : Python Programming
12. 22UIT623 - Project
13. 22UIT6AL2 Advanced Learner Course - II R -Programming Lab. (Optional)
14. 22UIT6S21 / 22UIT6S22 - Skill Based Elective - II: - Lab. DTP Software (Photoshop)/ Skill Based Elective - II: - Lab. II DTP Software (CorelDraw)

The following courses were revised with major / minor modifications.

1. 22UIT5E12 - Artificial Intelligence
2. 22UIT308 - Relational Database Management System
3. 22UIT309 - Service Oriented Architecture

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

BoS/IT 14.4 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.

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 B.Sc. Information Technology under Regulation BoS/IT 14.3

14.4.1: Syllabus completely changed for RDBMS course in Third Semester

14.4.2: Syllabus completely changed for Service Oriented Architecture course in Third Semester

14.4.3: In Data communication and Networks course, TCP/IP PART I is mentioned instead of TCP/IP

14.4.4: In Artificial Intelligence course, Basic concepts are to be included in Unit I and in Unit V, few contents are updated

Members Present:

Chairman	
Mr. K. VIJAYAKUMAR Assistant Professor and Head	Sign
Internal Members	
Mr R. SEKAR Assistant Professor	Sign
Mrs C. R. DURGADEVI Assistant Professor	
Mrs B. KALAISELVI Assistant Professor	
Mrs. V. PRABAVATHI Assistant Professor	
University Nominee	
Mr. R. Boobathiraj Assistant Professor, Dept. of Computer Science – IT Dr. GRD College of Science, Coimbatore – 641 014 E-Mail: boobathi191@gmail.com Mobile No. : 99659 75295	Sign
Academic Experts	
Dr. A. Poongodi Asst. Professor in Computer Science, Prof. Dhanapalan College of Arts and Science, Padur, Kelambakkam, Chennai. (Chennai University) E-Mail: poongodimca1979@gmail.com Mobile No.: 9710907426.	Sign
Industrial Experts	
Mr. K. Tharunkumar Asst. Consultant TCS Software Company Ltd. Siruseri, Chennai. 603103. E-Mail: tharunkumar.k@tcs.com Mobile No.: 9843099886	Sign

Alumnus nominated by Principal / HoD	Sign
Mrs. D. Anitha, Technology Analyst, Infosys Limited, Bangalore. E-Mail: anitha.ngm@gmail.com Mobile No. 8861350678	4/6/22
Special Invitee (Subject Expert)	**Sign**
Dr. M. Anandhi Associate Professor in B.Sc. IT Cauvery College for Women, Annamalai Nagar. Trichy – 18. E-Mail: anandhia@yahoo.com Mobile No.: 97502 55226	4/6/22
Student Members	**Sign**
Selvan V. VENKATESHPRABHU FINAL YEAR	V. Venkateshprabhu
Selvi V. JAYALAKSHMI FINAL YEAR	V. Jayalakshmi

ANNEXURE I

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

S.No.	Suggestion given by expert members	Action taken
1	In (21UIT412) Core - VIII: Data Communication and Networks course TCP/IP and address classes can be included	Reviewed and Implemented
2	21UIT414 Core - X: Visual Programming	Implemented
3	21UIT416 Core Lab - VI: Visual Programming	Implemented
4	21UIT5E12 - Artificial Intelligence	Implemented
5	21UIT5S12 - Skill Based Major Elective - Lab. I Web Programming (ASP.NET)	Introduced & Implemented
6	21UIT621 - Core - XIV: Skill Enhanced Course Python Programming	Introduced & Implemented
7	21UIT622 - Core Lab - IX: Python Programming	Introduced & Implemented
8	21UIT6E21 - Core Elective - II: R Programming 21UIT6E22 - Core Elective - II: Internet of Things	Introduced & Implemented
9	21UIT6E23 - Core Elective - II: Block Chain Technology	Introduced & Implemented

HoD

K.VIJAYAKUMAR, MCA.,M.Phil.,
Head,Dept. of Information Technology,
NGM College (Autonomous),
POLLACHI - 642 001.

List of Courses having focus on local, national, regional and global developmental needs offered by the Department of Information Technology

Information Technology							
Programme: B.Sc. Information Technology							**Year 2022 - 2023**
Course Code	**Title of the Course**	**Need(s)**				**Rationale**	
		Local	**Regional**	**National**	**Global**		
22UIT101	Programming in 'C'			✓		To know well about the basic programming concepts	
22UIT102	Computer System Architecture	✓				To meet the requirements of appearing National Eligible Test (NET) and SET	
22UIT103	Lab. I - Programming in 'C'			✓		To know well about the basic programming skills	
22UIT1A1	Mathematics-I (Statistics)	✓		✓		To build the mathematical skills for programming	
22UIT204	Object Oriented Programming with Java			✓		To design and program standalone Java applications.	
22UIT205	Data Structures				✓	To solve problems using data structures and writing programs	
22UIT206	Lab. II - Programming in Java			✓		To design and program standalone Java applications.	
22UIT2A2	Mathematics II (Discrete Mathematics)		✓			To build the mathematic skills for programming	
22UIT307	Operating Systems		✓			To make the computer system convenient to use in an efficient manner	
22UIT308	Relational Database Management System			✓		To have a broad understanding of database concepts and database management system software.	

22UIT309	Service Oriented Architecture				✓	To provide a new way to design, develop, architect and consume software applications or components.
22UIT310	Lab. III RDBMS			✓		To know well about the basics of database programming.
22UIT311	Lab. IV Web Designing (HTML, CSS, JavaScript & Angular)	✓				To get better knowledge to build a website.
22UIT3A3	Microprocessor and Assembly Language Programming			✓		To meet the requirements of appearing National Eligible Test (NET) and SET
22UIT3N11	Skill Based Non-Major-I (Social Networks)	✓		✓	✓	To prepare students for evaluating the best social media platform(s) for their business
22UIT3N12	Skill Based Non-Major-I (Hardware &Networking)	✓		✓	✓	To understand and Identify the existing configuration of the computers & peripherals.
22UIT412	Data Communication and Networks				✓	To meet the requirements of appearing National Eligible Test (NET) and SET
22UIT413	Advanced Java Programming			✓		To learn test, and debug advanced-level Object-Oriented programs usi ng Java
22UIT414	Visual Programming			✓		Create and manipulate GUI components in C# .Net and VB.Net
22UIT415	Lab. V – Programming in Advanced Java			✓		To learn test, and debug advanced-level Object-Oriented programs usi ng Java

22UIT416	Lab. VI - Visual Programming	✓		✓		To Design and Implement Windows Applications using Windows Forms, Control Library, Advanced UI Programming & Data Binding concepts.
22UIT4A4	Software Engineering	✓	✓	✓	✓	This broad education is necessary to understand the High impact of software Engineering solutions in local and global, economic, environmental, and societal context
22UIT4N23	Skill Based Non-Major-II (Data Analytics)				✓	To Apply principles of Data Science to the analysis of business problems.
22UIT4N24	Skill Based Non-Major-II (Computer Security)			✓	✓	To prepare students with the technical knowledge and skills needed to protect and defend computer systems and networks.
22UIT517	Information Security				✓	To enhance the security of various components using algorithms globally
22UIT518	Open Source Methodologies			✓		To know about design and working principles of open source software.
22UIT5E11	Data Mining and Analytics				✓	Different types of organizations use the technology to harness the data and extract value from it.
22UIT5E12	Artificial Intelligence		✓	✓	✓	Learning and analyzing the Artificial Intelligence techniques and concepts helps in solving real world problems

22UIT5E13	E-Commerce	✓	✓	✓	✓	Utilizing this powerful E-commerce tools wisely has become eminently important for business-to-business (B2B) companies
22UIT519	Lab. VII - Open Source Methodologies			✓		To give practical knowledge on commands and editors available in linux platform.
22UIT520	Lab. VIII - Software Testing Tools			✓		Improves ability to use the techniques, skills, and to rapidly learn and apply emerging software testing technologies necessary for software development and usage.
22UIT5S11	Skill Based Major Elective - Lab. I Web Programming (PHP)	✓	✓			To get better knowledge to build a website.
22UIT5S12	Skill Based Major Elective - Lab. I Web Programming (ASP.NET)					To get better knowledge to build a website.
22UIT621	Python Programming				✓	Design and develop Python programs in the areas related to web design, cloud computing, IoT and data analytics.
22UIT6E21	R-Programming			✓	✓	Design and develop R programs in the areas related to web design, cloud computing, IoT and data analytics.
22UIT6E22	Internet of Things			✓	✓	The functional aspect of learning IoT is to unite every object of the world under one common infrastructure;
22UIT6E23	Block Chain Technology		✓	✓	✓	Ability to link knowledge of Computer Science with other auxiliary disciplines of study.

22UIT6E31	Mobile Computing	✓		✓		To enable the Students to learn mobile techniques such as 2G, 3G, 4G & 5G
22UIT6E32	Computer Graphics		✓		✓	To motivate Students about the Computer Graphics field because they want to understand how to build fascinating applications like online games.
22UIT6E33	Cloud Computing		✓	✓	✓	To enhance the effectiveness of various businesses using cloud storage globally
22UIT622	Lab. IX - Python Programming			✓		Design and develop Python programs in the areas related to web design, cloud computing, IoT and data analytics.
22UIT623	Project				✓	To give the practical knowledge on courses studied throughout and used to develop software.
22UIT6S23	Skill Based Major Elective - Lab. II DTP Software (CorelDraw)	✓	✓			Ability to become an entrepreneur in field of advertising and marketing
22UIT6S24	Skill Based Major Elective - Lab. II DTP Software (Photoshop)	✓	✓			To Demonstrate Photoshop related and transferable skills that are relevant to industry and employment opportunity

22/2/22

HoD

PRINCIPAL

K.VIJAYAKUMAR, MCA.,M.Phil.,
Head,Dept. of Information Technology,
NGM College (Autonomous),
POLLACHI - 642 001.

List of Courses having focus on employability/ entrepreneurship/ skill development offered by the Department of Information Technology

DEPARTMENT OF INFORMATION TECHNOLOGY						
PROGRAMME: B.Sc. IT					YEAR : 2022 - 2023	
COURSE	TITLE OF THE COURSE	EMPLOYABILITY (EM) / ENTREPRENUERSHIP (EN) / SKILL DEVELOPMENT(SD)			FOCUS	YEAR OF INTRODUCTION
		EM	EN	SD		
22UIT101	Programming in 'C'	✓	✓	✓	EM : Programming EN: Debugging SD: Problem Solving	2009
22UIT102	Computer System Architecture	✓	✓		EN : Logical Design EM : Model Formulation	2015
22UIT103	Lab. I - Programming in 'C'	✓	✓	✓	EM : Programming EN: Debugging SD: Problem Solving	2009
22UIT1A1	Mathematics – I (Statistics)			✓	SD: Problem Solving	2018
22UIT204	Object Oriented Programming with Java		✓	✓	EN: Application Development SD: OOP	2016
22UIT205	Data Structures			✓	SD: Memory Architecture	2009
22UIT206	Lab. II - Programming in Java			✓	EN: Application Development SD: OOP	2016
22UIT2A2	Mathematics – II (Discrete Mathematics)			✓	SD: Problem Solving	2019

22UIT307	Operating Systems		✓	✓	EM: Recent Platforms SD: System Structure	2012
22UIT308	Relational Database Management System	✓		✓	EM : Database concepts SD: Database Programming	2008
22UIT309	Service Oriented Architecture		✓		EM: Client server communication	2019
22UIT310	Lab. III – RDBMS	✓		✓	EM : Database concepts SD: Database Programming	2008
22UIT311	Lab. IV – Web Designing (HTML, CSS, JavaScript & Angular)	✓		✓	EM : Web Designing SD: Script programming	2019
22UIT3A3	Microprocessor and Assembly Language Programming			✓	SD : Hardware architecture	2008
22UIT3N1	Skill Based Non-Major- I (Social Networks)			✓	SD: Aware of social media	2019
22UIT3N2	Skill Based Non-Major- I (Hardware &Networking)	✓		✓	EM : Hardware service provider SD : Hardware architecture	2011
22UIT412	Data Communication and Networks	✓		✓	EM : Network Administration SD: Networking Concepts	2014
22UIT413	Advanced Java Programming	✓	✓	✓	EM : Application programmer EN: Application Development SD: Programming for web	2011
22UIT414	Visual Programming	✓		✓	EM: Software developer SD: Real time Application Development	2018

22UIT415	Lab. V – Programming in Advanced Java	✓	✓	✓	EM : Application programmer EN: Application Development SD: Programming for web	2011
22UIT416	Lab. VI - Visual Programming	✓		✓	EM: Software developer SD: Real time Application Development	2018
22UIT4A4	Software Engineering	✓		✓	EM: Software developer SD: Modular Programming using software models	2013
22UIT4N3	Skill Based Non-Major- II (Data Analytics)	✓		✓	EM: To become a Data Analyst SD : Learn how to analysis Data in large scale	2019
22UIT4N4	Skill Based Non-Major- II (Computer Security)	✓		✓	EM: Solving Security issues SD: Handle Security mechanisms	2011
22UIT517	Information Security	✓		✓	EM: Solving Security issues SD: Handle Security mechanisms	2018
22UIT518	Open Source Methodologies	✓		✓	EM : OS administration SD: Programming for Open source OS	2016

22UIT5E1	Data Mining and Analytics	✓	✓	✓	EM: To become a Data Analyst SD : Learn how to analysis Data in large scale	2018
22UIT5E2	Artificial Intelligence	✓	✓	✓	EM: Robotics designer SD: How to Apply AI in various domain	2012
22UIT5E3	E-Commerce		✓	✓	EN: E-Business SD: Electronic Trading	2014
22UIT519	Lab. VII - Open Source Methodologies	✓		✓	EM : OS administration SD: Programming for Open source OS	2016
22UIT520	Lab. VIII - Software Testing Tools	✓		✓	EM : Software tester SD: To learn testing tools	2014
22UIT5S11	Skill Based Major Elective - Lab. I Web Programming (PHP)	✓		✓	EM: Web Programmer SD: Web Designing	2013
22UIT5S12	Skill Based Major Elective - Lab. I Web Programming (ASP.NET)	✓		✓	EM: Web Programmer SD: Web Designing	2013
22UIT621	Python Programming	✓		✓	EM: Programmer SD: Develop new softwares using Python	2021
22UIT6E21	R Programming	✓	✓	✓	EM: Programmer SD: Develop new softwares using R	2021
22UIT6E22	Internet of Things	✓		✓	EM: Hardware Designer SD: Real time applications of IOT	2021
22UIT6E23	Block Chain Technology		✓	✓	EN: E-Business SD: Usage of Digital Money	2021

22UIT6E31	Mobile Computing	✓		✓	EM: Mobile Application Programmer SD; Learn Recent Mobile Technology	
22UIT6E32	Computer Graphics	✓		✓	EM: Game Programmer SD: Learn Graphics Programming	2008
22UIT6E33	Cloud Computing	✓	✓	✓	EM: EN: SD: Cloud web services	2013
22UIT622	Lab. IX – Python Programming	✓		✓	EM: Programmer SD: Develop new softwares using Python	2021
22UIT623	Project	✓	✓	✓	EN: Start an IT company SD: Learn to work with different tools and Technology	2013
22UIT6S23	Skill Based Major Elective - Lab. II DTP Software (CorelDraw)	✓	✓	✓	EM: Graphics Designer EN: Graphics Designer SD: Learn DTP Software	2019
22UIT6S24	Skill Based Major Elective - Lab. II DTP Software (Photoshop)	✓	✓	✓	EM: Graphics Designer EN: Graphics Designer SD: Learn DTP Software	2019

HoD

K.VIJAYAKUMAR, MCA.,M.Phil.,
Head,Dept. of Information Technology,
NGM College (Autonomous),
POLLACHI - 642 001.

PRINCIPAL

Percentage of Revision of Department of Information Technology Syllabus under Regulation 2022 – 2023

DEPARTMENT OF INFORMATION TECHNOLOGY							
S. No.	Course	Course Name	Changes Details	% of Changes	Content Deleted	Content Updated	Reason for Change
1	22UIT308	Relational Database Management System	Changed	100	Text Book can be changed		Course Teacher
2	22UIT309	Service Oriented Architecture	Changed	100	Text Book can be changed		Course Teacher
3	22UIT412	Data communication and Networks	Changed	0	-	Unit III. TCP/IP Part – I Instead of TCP/IP	Course Teacher
4	22UIT5E12	Artificial Intelligence	Changed	20	Unit I & V some contents removed.	Unit I & V some contents Updated	Subject Expert & Course Teacher

22/3/22

HoD

PRINCIPAL

K.VIJAYAKUMAR, MCA.,M.Phil.,
Head,Dept. of Information Technology,
NGM College (Autonomous),
POLLACHI - 642 001.