

Dr. N.G.P. ARTS AND SCIENCE COLLEGE (An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100 BoS

15th

MINUTES OF THE FIFTEENTH BOARD OF STUDIES MEETING

Faculty: Computer Science

Board: Information Technology

The Meeting of Board of Studies (BoS) was held as given below:

Name of the Body	Board of Studies (BoS)
Department	Information Technology
Meeting No.	15
Date and Time	10.06.2023 @ 10.00 a.m.
Venue	C1-201
Members Attended	The details are given in the ANNEXURE -I

	AGENDA
01	Discussion on UG Curriculum for Batch 2022-25 adopting R4 guidelines
02	Discussion on syllabus for Part III - Core Courses for Third semester UG 2022-25
02	Batch
03	Discussion on syllabus for Part III – Inter Disciplinary Course (IDC) offered by
	Department of Commerce Accounting & Taxation for 2022-25 Batch
04	Discussion on Part I (Tamil/Hindi/French/Malayalam) for Third semester offered by
	Language department for 2022-25 Batch
05	Discussion on Part II (Professional English) offered by English department for Third
	semester for 2022-25 Batch
06	Discussion on syllabus following R5 Regulations for Part III – Core Courses for first semester UG -2023-26 Batch
07	Discussion on syllabus for Part III – Inter Disciplinary Course (IDC)offered by Department Mathematics for 2023-26 Batch
	Discussion on syllabus for Part III- Inter disciplinary Course (IDC) offered to Clinical
08	Laboratory Technology for 2023-26 Batch
	Discussion on syllabus Part I (Tamil/Hindi/French/Malayalam) offered by Language
09	Department for 2023-26 Batch
	Discussion on Part II (Professional English) offered by English Department for 2023-
10	26 Batch
11	Discussion on Part IV (AECC) Environmental Studies for 2023-26 Batch
	Discussion on Fart IV (ALCC) Environmental Studies for 2023-20 Daten
12	Discussion on credits for Part V Extension Activity for 2023-26 Batch
13	Discussion on Value Added Certificate Courses (VACC) for 2023-26 Batch
13	Discussion on value Audeu Certificate Courses (VACC) for 2023-20 Batch
14	Any other matters





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

15th

BoS

MINUTES OF THE FOURTEENTH BOARD OF STUDIES MEETING

Faculty: Computer Science

Board: Information Technology

The Chairman of BoS welcomed all the Panel members for the meeting. The items listed in the agenda were taken for discussion.

The following are the minutes of the meeting:

Item-01	Discussion on UG Curriculum for Batch 2022-25 adopting R4 guidelines		
Discussion	 Under regulation R4, Part I Tamil, Part II English are included in the curriculum for Third and Fourth semesters. The unified syllabus framed by designated departments were approved by their respective BoS. The UG Curriculum for Batch 2022-25 was presented for discussion. 		
Resolution	The Board unanimously approved the curriculum.		
Item-02	Discussion on syllabus for Part III – Core Courses for Third semester UG 2022- 25 Batch		
Discussion	 224CA1A3CA: Database Management Systems The unified syllabus approved by Board of Studies in Computer Applications was placed for endorsement. 224CT1A3CA: Java Programming (Embedded Course) The unified syllabus approved by Board of Studies in Computer Technology was placed for endorsement. 224CS1A3CA: Operating Systems The unified syllabus approved by Board of Studies in Computer Science was placed for endorsement. 224CS1A3CA: Operating Systems The unified syllabus approved by Board of Studies in Computer Science was placed for endorsement. 224IT1A3SP: SQL and PL/SQL Dr. Vadivel suggested to add report creation using SQL 		
Resolution	The Board approved the syllabus.		
Item -03	Discussion on syllabus for Part III – Inter Disciplinary Course (IDC) offered by Department of Commerce Accounting and Taxation for the UG 2022-25 batch		
Discussion	 225AT1A3IA - Business Accounting The unified syllabus approved by the Board of Studies in Department of Commerce Accounting and Taxation was placed for endorsement. 		
Resolution	The Board approved the syllabus.		
Item -04	Discussion on Part I (Tamil/Hindi/French/Malayalam) for Third semester offered by Language department for 2022-25 Batch		
Discussion	 221TL1A3TA - Part I: Tamil-III/221TL1A3HA - Hindi-III / 221TL1A3MA - Malayalam – III/221TL1A3FA - French-III. The unified syllabus approved by the Board of Studies in Languages were placed for endorsement 		
Resolution	The Board approved the syllabus.		





BoS

Dr. N.G.P. ARTS AND SCIENCE COLLEGE (An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

15th

Item-05	Discussion on Part II (English) offered by English department for Third semester for UG 2022-25 Batch	
Discussion	 221EL1A3EA: Part II:English II The unified syllabus approved by the Board of Studies in English was placed for endorsement 	
Resolution	The Board unanimously approved the syllabus.	
Item -06	Discussion on syllabi following R5 Regulations for Part III – Core Courses for first semester UG -2023-26 Batch	
Discussion	 234AI1A1CA: Problem Solving and Programming in C The Syllabus approved by the Board Members 234IT1A1CA: Digital Computer Fundamentals The Syllabus approved by the Board Members 234IT1A1CP: Programming in C The Syllabus approved by the Board Members 	
Resolution	The Board approved the syllabus.	
Item -07	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Mathematics for UG 2023-26 Batch	
Discussion	 232MT1A1IE - Numerical Methods and Statistics Syllabus approved by the Mathematics BoS 	
Resolution	The Board approved the syllabus.	
Item -08	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered to Department of Clinical Laboratory Technology for UG 2023-26 Batch	
Discussion	 234IT1A1IA/Basics of Information Technology - I B.Sc. (CLT) The Syllabus approved by the Board Members 	
Resolution	The Board unanimously approved the syllabus.	
Item -09	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language Department for 2023-26 Batch	
Discussion	 231TL1A1TA - Part I: Tamil-I/ 231TL1A1HA - Hindi-I/231TL1A1FA - French-I: / 231TL1A1MA - Malayalam – I respectively The unified syllabus approved by the Board of Studies in Languages were placed for endorsement 	
Resolution	The Board approved the same.	
Item -10	Discussion on Part II (English) offered by department of English for 2023-26 Batch	
Discussion	 231EL1A1EA: Part II: English I The unified syllabus approved by the Board of Studies in English was placed for endorsement 	
Resolution	The Board unanimously approved the syllabus.	





Item -11	Discussion on Part IV (AECC) Environmental Studies for 2023-26 Batch		
Discussion	 233MB1A1AA: Environmental Studies The unified syllabus approved by the Board of Studies in Microbiology was placed for endorsement 		
Resolution	The Board approved the same.		
Item -12	Discussion on credits for Part V Extension Activity for 2023-26 Batch		
Discussion	One credit to be awarded for participation in YRC/RRC/NSS/NCC/RRC/Yoga/Sports/Clubs		
Resolution	The Board approved the same		
Item -13	Discussion on Value Added Certificate Courses (VACC) for 2023-26 Batch		
Discussion	The course titled "Cloud Services" to be offered for 2023-26 batch was discussed		
Resolution	The Board approved the same.		
Item-14	Any other matters		
Discussion	• The board members discussed and recommended the Panel of Examiners		
Resolution	The Board approved the same.		

The Chairman of Board of Studies (BoS) thanked all the members for their active participation and providing their valuable suggestions.

Date: 10.06.2023

(Dr. A. Adhiselvam)





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100 BoS

15th

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Course Code / Name: 224CA1A3CA / Database Management Systems Semester: III

Unit	Existing	Changes
Ι	Database concepts Introduction to databases – Conventional file processing – Purpose of database system – Characteristics of database approach – Advantages of using DBMS – Database concept and architecture – Data Abstraction – Database Models – Instances and Schema – Data Independence – Schema Architecture – Components of a DBMS – Database Languages – Database Manager – Database Administrator – Database Users.	
Π	Relational Database Database Concepts: A Relational approach: Database – Relational Data Model – Integrity Rules – Theoretical Relational Languages. Database Design: Data Modeling and Normalization: Data Modeling – Anomalies in a database – Functional dependencies – Database Design – Normal forms: First normal form – Second normal form–Third normal form- Boyce – Codd Normal form – Fourth Normal form –Fifth Normal form- De - normalization.	Oracle9i Table Types – Spooling – Error codes.
III	ORACLE 9i Oracle9i: An Introduction – SQL. Oracle Tables: DDL : Naming Rules and conventions – Data Types – Constraints – Creating Oracle Table – Displaying Table Information – Altering an Existing Table – Dropping, Renaming, Truncating Table. Data Management and Retrieval:Data Management and Retrieval: DML – adding, updating and deleting a record– Arithmetic Operations – restricting Data with WHERE clause – Functions and Grouping: Built-in functions – Grouping Data. Multiple Tables: Joins - Set operations.	Sorting – Revisiting Substitution Variables – DEFINE command – CASE structure.
IV	PL/SQL PL/SQL: History – Fundamentals – Block Structure – Data Types –Declaration – Bind variables – Substitution Variables – Printing – Arithmetic Operators. Control Structures and Embedded SQL: Control Structures – Nested Blocks – SQL in	Comments –SELECTFOR UPDATE – WHERE CURRENT OF clause





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

15th

BoS

	PL/SQL – Data Manipulation – Transaction Control	
	statements.	
	PL/SQL Cursors, Exceptions, PL/SQL Named	
	Blocks: PL/SQL Cursors and Exceptions: Cursors –	
	Implicit & Explicit Cursors and Attributes – Cursor	
	FOR loops – Exceptions – Types of Exceptions.	
	PL/SQL Named Blocks: Procedures – Functions –	
	Packages – Triggers.	
	Database Security	PL/SQL Composite Data Types
	Database Security, Integrity Control: Security and	PL/SQL Composite Data Types: Records –
V	Integrity threats – Defense mechanisms –	Tables – arrays.
	Transaction and concurrency control mechanisms-	
	Database recovery management.	

PERCENTAGE OF SYLLABUS REVISED :13 %

COURSE FOCUSES ON:

\checkmark	Skill Development	Entrepreneurial Development
\checkmark	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100 BoS

15th

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Semester: III

Course Code / Name: 224CT1A3CA / JAVA PROGRAMMING (New Course- Embedded)

Unit	Course Content
Ι	Class and Methods Object Oriented Programming - Data types, Variable, Arrays, and Constants - Operators - Control statements. Class, Members, and Methods - Class instantiation - Access modifiers - Method overloading - Constructors - Static members and methods. 1. Program to implement method overloading 2. Program to understand the usage of constructor. 3. Program to demonstrate static members and methods
П	Inheritance Inheritance: Basics - Types - Super keyword - Method overriding - Abstract class - Final methods and classes - Interfaces. 4.Program to illustrate different types of inheritance 5.Program to implement method overriding 6.Program to demonstrate abstract class.
III	Packages, Exceptions, and Strings Java built-in packages - User defined packages - Exception handling fundamentals - Built- in exceptions - User-defined exceptions - String handling using String, StringBuffer, and StringBuilder classes 7.Program to create user-defined package 8.Program to implement exception handling. 9.Program to apply string handling functions.
IV	Multithreading and Collections Multithreading: Thread Life Cycle - Thread Creation - Thread Priorities. Collections: ArrayList, Stack, Queue, LinkedList 10. Program to demonstrate multithreading. 11. Program to implement collections. Swing and JDBC
V	 Basics of Swing - Difference between AWT and Swing - Common Swing controls - Event handling - Java DataBase Connectivity (JDBC) 12. Develop a Swing application to manipulate student database records





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

15th

BoS

PERCENTAGE OF SYLLABUS REVISED :100 %

COURSE FOCUSES ON:

\checkmark	Skill Development	Entrepreneurial Development
\checkmark	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values Ethics





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

15th

BoS

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Course Code / Name: 224IT1A3SP: SQL and PL/SQL

Semester: III

S.No	Existing	Changes
1	Program to implement Classes and methods	
2	Program to demonstrate OOP concepts	
3	Program to demonstrate multithreading	
4	Program to implement packages and Exception Handling	
5	Program to use JDBC	
6	Program to perform on RMI and Java	
7	Implementation of DDL commands with Constraint and DML commands.	
8	Program to implement WHERE, ORDER By clause and grouping functions.	Program to implement aggregate functions
9	Implementation of joins and operators	
10	Implementation of PL/SQL program with cursors and exceptions.	Program to implement Group By & having clause, Order by clause, Indexing and Views
11	Implementation of SQL Triggers.	
12	Program to create an application for student information to insert, delete, and update records in database	Program to prepare report using PL/SQL

PERCENTAGE OF SYLLABUS REVISED: 25%

COURSE FOCUS ON:

Skill Development Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

15th

BoS

Annexure I



Faculty: Faculty of Computer Science

Board: Information Technology

VENUE : CI	1 Block C201
------------	--------------

DATE : 10.06.2023

TIME : 10.00 AM

The following members were present for the 15th Board of Studies Meeting

S.NO.	. NAME	DESIGNATION	SIGNATURE
1.	Dr.A.Adhiselvam Associate Professor & Head (i/c) Department of Information Technology Dr.N.G.P. Arts and Science College Coimbatore-641048	Chairman	1 metro
2.	Dr. R. Vadivel Associate Professor Department of Information Technology Bharathiar University Coimbatore - 641 046.	Member (Subject Expert) (Nominated by Vice Chancellor)	6/06/20
3.	Dr. Prashant R. Nair Associate Professor Computer Science Engineering School of Engineering Amrita Vishwa Vidyapeetham Amritanagar, Ettimadai Coimbatore-641 112.	Member (Subject Expert) (Nominated by Academic Council)	Pro 00 10/6/2
4.	Dr.T.S. PradeepKumar Professor School of Computing Science and Engineering Vellore Institute of Technology Vandalur Kelambakkam Road, Chennai 600 048.	Member (Subject Expert) (Nominated by Academic Council)	- ABSENT-
5.	Mr.R. J. Senthil Kumar Founder Director – Sprout Solutions Private Limited 14, Light House Road R.S. Puram, Coimbatore -641 001.	Member (Industrial expert)	2 Junto
i.	Mr.K.Karthik Project Lead KGISL Saravanampatti, Coimbatore-641 035	Alumni	K. Kueth



Cont...



(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64 CGPA) Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100 BoS

15th

	Dr. N.G.P. AR [*] (An Autonomous Inst. Approved by Government of Tamil Dr. N.G.PKalapatt Websile: www.drugpasc.ac
·······	

Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (1^{et} Cycle 3 64 CGPA) Dr. N.G.P.-Kalapatti Road, Coimbatore 641 048, Tamil Nadu, India Website: www.drngpasc.ac.in | Email: info@drngpasc.ac.in | Phone: +91-422-2369100

S.NO.	NAME	DESIGNATION	SIGNATURE
7	Dr. N. Kuppuchamy	Co-opted Member (Tamil)	- POUL 123
8	Dr. R. Vithya Prabha Professor & Head	Co-opted Member (English)	R.N-1016123
9	Dr. R. Sowrirajan Assistant Professor & Head	Co-opted Member (Mathematics)	p Towns
10	Mr.M.Sedhuvügnesh III B.Sc. IT	Student Representative	MSchVy-1
11	Dr.K.Santhi Professor	Member	K. Orth ; 161 23
12	Dr.J.Savitha Professor	Member	Julis 10/0/2
13	Dr.K.Thenmozhi Associate Professor	Member	9. 01 plot
14	Mrs.P.Menaka Assistant Professor(SG)	Member	P.C. 106223
15	Mr.B.M.Rajesh Assistant Professor	Member	Burke 1016/23.
16	Dr.B.Sivaranjani Assistant Professor	Member	B. Smololald.
17	Dr.N.Vanitha Associate Professor	Member	South at inthe
18	Dr.R.Praba Assistant Professor	Member	R. P. S. Jouh

Date: 10.06.2023

amet (Dr. A.Adhiselvam)6[=3 airman/HOD

Bos Chairman/HOD Department of Information Technology Dr K.G.P. Arts And Science College Celmbatore - 641 048

