	Dr. N.G.P. ARTS AND SCIENCE COLLEGE (An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) Approved by Government of Tamil Nadu and Accredited by NAAC A++ Grade (3 rd Cycle- 3.64 CGPA) Dr. N.G.P.-Kalapatti Road, Coimbatore-641048, Tamil Nadu, India Web: www.dmgpsc.ac.in Email: info@dmgpsc.ac.in Phone: +91-422-2369100	BoS
		16th

Board of Studies Meeting

Department of Computer Technology

The minutes of the 16th meeting of Board of Studies held on 17.10.2023 at 10.00 am at the Innovation Center.

Members Present:

S.No.	Name	Category
1	Dr. M. Rathi	Chairman
2	Dr. P.B. Pankajavalli	University Nominee
3	Dr. V. Radha	Subject Expert
4	Mr. R. Gopinath	Industrial Expert
5	Mrs. M. Reshma	Alumni
6	Dr. R. S. Padmapriya	Member
7	Mr. T. R. Anand	Member
8	Dr. V. Manimekalai	Member
9	Dr. B. Leelavathi	Member
10	Dr. M. Aruna	Member
11	Mrs. I. Ajitha	Member
12	Dr. N. Kuppuchamy	Co-opted Member
13	Dr. R. Vidya Prabha	Co-opted Member
14	Dr. R. Sowrirajan	Co-opted Member
15	Ms. M. Madhushree	Student Representative

The HoD and Chairman of the department of Computer Technology welcomed and introduced all the members and appreciated them for their continuous support, contribution for the development of academic standard and enrichment of the syllabus.

Further, Chairman informed the inability of the following members to attend the meeting and requested to grant leave of absence.

1. Dr. L. Dhanabal – Subject Expert

The items of the agenda were taken one by one for discussion and the following resolutions were passed.

Item 16.1

To review and approve the minutes of the previous meeting held on **10.06.2023**.

The chairman of the Board presented the minutes of the previous meeting held on **10.06.2023** and requested the members to approve. After brief discussion the following resolution was passed

Resolution:

Resolved to approve the minutes of the previous meeting held on 10.06.2023.

Item 16.1(a): To consider and approve the syllabi for II semester for the students admitted during the academic year 2023-24.

The chairman presented the detailed scheme and syllabus for the II semester for the students admitted from the academic year 2023-24 onwards. The board members unanimously approved the syllabus for second semester without any changes.

After discussion the following resolution was passed.

Resolution:

Resolved to approve the syllabus for the II semester for the students admitted from the academic year 2023-24 onwards.

Item 16.1(b) :To consider and approve the changes, if any, in the syllabi for IV semester for the students admitted during the academic year 2022-23.

The Chairman presented the detailed syllabus for the IV semester for the students admitted from the academic year 2022-23 onwards. The details of changes made also presented as follows:

Changes Made:

B.Sc. Computer Technology		
Course	Code	Reason
Computer Networks	224CT1A4CA	Unit III: To include internet control protocols like ICMP and ARP for network diagnostics.
Web Application Development	224CT1A4CB	Unit III: To include web development tools for rapid prototyping

New Courses Introduced:

Course	Code	Reason
Python Programming (Embedded)	224CA1A4EP	Latest programming language which is used in research and development
Social Media Marketing (IDC)	225BI1A4IB	To learn online advertising through social media platforms and understand Search engine optimization to target audience.

Courses Removed

Course	Code	Reason
C# .Net Programming	194CT1A4CA	Web Application development is offered in IV semester
Programming in C#.NET and RDBMS	194CT1A4CP	Web Programming is offered in IV semester
Relational Database Management System	204CT1A4CB	Offered in III semester

IDC Offered

Course	Code	Department
Cyber Security	224CT1A4IB	B.Com (PA)

After discussion the following resolution was passed with the above changes and modifications.

Resolution:

Resolved to approve the syllabus for the IV semester for the students admitted from the academic year 2022-23 onwards.

Item 16.2: To approve the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-24.

The Chairman presented the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-24.

Resolution:

Resolved to approve the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-2024.

Item 16.3: To consider and approve any other item brought forward by the Chairman and the members of the board.

No other item was brought forward.

Finally the Chairman thanked all the members for their cooperation and contribution in enriching the syllabus with active participation in the meeting and sought the same spirit in the future also. The meeting was closed with formal vote of thanks proposed by Dr. M. Rathi, Head and Chairman- Computer Technology BoS.

Date: 17.10.23


(Dr. M. Rathi)

BoS Chairman/HoD
Department of Computer Technology
Dr. N. G. P. Arts and Science College
Coimbatore – 641 048

Syllabus Revision

Faculty: Computer Science

Board: Computer Technology

Programme: Computer Technology

Semester: IV

Course Code/ Name: 224CT1A4CA – Computer Networks

Unit	Existing	Changes
I	Data Communication and Transmission Methods 10 h Introduction to Data Communications and Networking: Data Communications Protocols – Standards – Signal propagation – Analog and Digital Signals – Bandwidth of a Signal Analog and Digital Transmission Methods: Analog Signal, Analog Transmission – Digital Signal, Digital Transmission – Digital Signal, Analog Transmission – Analog Signal, Digital Transmission – Baud Rate	
II	Modes of Data Transmission and Multiplexing: Parallel and Serial Communication – Asynchronous, Synchronous and Isochronous Communication – Simplex, Half duplex, Full-duplex Communication. Multiplexing: Frequency Division Multiplexing – Time Division Multiplexing – Statistical Time Division Multiplexing – Wavelength Division Multiplexing. Transmission Errors: Introduction – Error Classification - Types of Error. Error Detection: Checksum – Vertical Redundancy Check – Longitudinal Redundancy Check – Cyclic Redundancy Check. Transmission Media: Guided Media, Unguided Media.	
III	Network Topologies: Mesh, Star, Tree, Ring, Bus. Switching Techniques: Circuit Switching, Message Switching, Packet Switching. Routing Algorithms: Routers and Routing – Factors affecting Routing Algorithms - Routing Algorithms: Distance Vector Routing - Link State Routing. Network Protocols and OSI Model: Protocols in Computer Communications – OSI Model – OSI Layer Function	Software-Defined Networking: The SDN Control Plane - The SDN Data Plane. The Network Layer in the Internet: The IP Version 4 Protocol - IP Addresses - IP Version 6
IV	Integrated Services Digital Network (ISDN): ISDN Architecture – ISDN interfaces. Internetworking Concepts: Introduction – The Problems in Internetworking - Internetworking Devices - Repeaters – Bridges – Routers – Gateways. Introduction to TCP / IP: Introduction - TCP/IP Basics – Example - Address Resolution Protocol – Reverse Address Resolution Protocol – Internet Control Message Protocol.	TCP Sliding Window - TCP Congestion Control
V	TCP & UDP: Features of TCP - Relationship between TCP and IP - Ports and Sockets - TCP connections - What makes TCP Reliable - TCP Packet Format. User Datagram Protocol (UDP): UDP - UDP Packet - Difference between UDP and TCP – Domain Name System (DNS) – Electronic Mail (Email) – File Transfer Protocol (FTP).	The World Wide Web: architectural Overview - HTTP and HTTPS - Content Delivery Networks - Peer-to-Peer Networks.

PERCENTAGE OF SYLLABUS REVISED: 8.2%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/> Skill Development	<input type="checkbox"/> Entrepreneurial Development
<input checked="" type="checkbox"/> Employability	<input type="checkbox"/> Innovations
<input type="checkbox"/> Intellectual Property Rights	<input type="checkbox"/> Gender Sensitization
<input type="checkbox"/> Social Awareness/ Environment	<input type="checkbox"/> Constitutional Rights/ Human Values/ Ethics

Syllabus Revision

Faculty: Computer Science

Board: Computer Technology

Programme: Computer Technology

Semester: IV

Course Code/ Name: 224CT1A4CB – Web Application Development

Unit	Existing	Changes
I	Web Basics: Internet - Intranet - WWW - Static and Dynamic Web Page - Web Clients Web Servers HTML: HTML structure – Basic HTML elements: Paragraphs- Headings – Lists – Links – Images – Divs and Spans – Semantic Elements – Tables - Forms – Frames	
II	CSS structure: Example – Selectors – Pseudo classes – Pseudo elements – CSS cascade hierarchy - Using CSS to size and space elements – Text formatting: Font - Color -Text shadow – Position - Display – Navigation bar – HTML forms. Bootstrap: Introduction – Grid	Responsive web design - Web development tools.
III	Javascript: Introduction – Variables – Operators – Global Variables – Document Object Model – Expressions – Conditionals – Looping – Functions - Objects – Arrays. jQuery: Introduction – Syntax – jQuery Selectors – Events	
IV	XML : Introduction – XML structure – XML Elements – First Document – Organizing XML data – Creating Well formed XML – Attributes – Namespaces – DTDs and Validation – Adding DTDs to your documents – Understanding DTD entities – XML Style Sheet basics – CSS via XML – XML Schema – Comparing DTD with Schema	JavaScript Events: Registering event handlers - onload and onmouse events - Form processing events.
V	PHP: Introduction – Structure of PHP – Expressions – Operators – Conditionals – PHP functions – Including and Requiring files – Arrays. Accessing MySQL using PHP: Querying a MySQL database with PHP – Practical MySql	AJAX: Introduction - Web applications vs AJAX applications - RIAs with AJAX - XMLHttpRequest object - using XML and DOM - Creating AJAX enabled application Case Study: Web Application Development using APEX

PERCENTAGE OF SYLLABUS REVISED: 7.3%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/> Skill Development	<input checked="" type="checkbox"/> Entrepreneurial Development
<input checked="" type="checkbox"/> Employability	<input checked="" type="checkbox"/> Innovations
<input type="checkbox"/> Intellectual Property Rights	<input type="checkbox"/> Gender Sensitization
<input type="checkbox"/> Social Awareness/ Environment	<input type="checkbox"/> Constitutional Rights/ Human Values/ Ethics

Syllabus Revision

Faculty: Computer Science

Board: Computer Technology

Programme: Computer Technology

Semester: IV

Course Code/ Name: 224CT1A4SP – Web Programming

Ex. No	Existing	Changes
1.	Design a simple web page using HTML lists.	Design a webpage to play a promotion video
2.	Create a web page using HTML tables.	Design a web page to submit an application form.
3.	Create image gallery with CSS.	Demonstrate the usage of internal and external style sheet using CSS.
4.	Create different types of shadow effects to text using CSS.	Design a webpage to illustrate positioning and layout options using CSS.
5.	Create a responsive web page using Bootstrap Grid.	
6.	Create a JavaScript program using functions.	
7.	Create a web page using jQuery Selectors.	JavaScript program to print squares and cubes of numbers from 1 to 10.
8.	Validate an XML program using DTD.	JavaScript program to illustrate the onload and onmouseover events
9.	Create an XML program with Extensible Style Sheet.	JavaScript program to design a login form and validate the credential patterns.
10.	Create a program in PHP to upload a file.	
11.	Create a program in PHP to add 2 numbers using functions.	
12.	Create, Insert and Select records to/from a table using PHP and MySQL	Fetch information from an XML file with AJAX

PERCENTAGE OF SYLLABUS REVISED: 66%

COURSE FOCUSES ON:

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<input checked="" type="checkbox"/> Employability	<input checked="" type="checkbox"/> Innovations
<input type="checkbox"/> Intellectual Property Rights	<input type="checkbox"/> Gender Sensitization
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ATTENDANCE OF THE SIXTEENTH BOARD OF STUDIES MEETING

Faculty: Computer Science

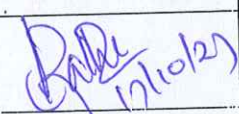
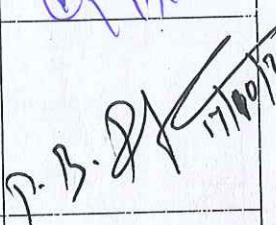
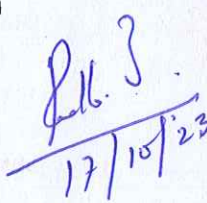
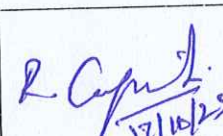

Board: Computer Technology

VENUE : Innovation Lab

DATE : 17.10.2023

TIME : 10:00 a.m.

The following members were present for the Board of Studies meeting

S.NO.	NAME	DESIGNATION	SIGNATURE
1.	Dr. M. Rathi Associate Professor and Head	Chairman	 17/10/23
2.	Dr. P. B. Pankajavalli Assistant Professor Department of Computer Science Bharathiar University, Coimbatore-46	Member (Subject Expert) (Nominated by Vice Chancellor)	 17/10/2023
3.	Dr. V. Radha Professor, Department of Computer Science School of Physical Sciences and Computational Sciences Avinashilingam Institute for Home Science and Higher Education for Women Coimbatore- 641043	Member (Subject Expert) (Nominated by Academic Council)	 17/10/23
4.	Dr. L. Dhanabal Associate Professor, Department of MCA Kumaraguru College of Technology Athipalayam Rd, Chinnavedampatti Coimbatore- 641049	Member (Subject Expert) (Nominated by Academic Council)	- ABSENT -
5.	Mr. R. Gopinath Software Engineer Tech Mahindra, TidelPark, Coimbatore	Member (Industrial expert)	 17/10/23
6.	Ms. M. Reshma Senior Software Testing Engineer Wipro Technologies, Tidel Park, Coimbatore.	Alumni	 17/10/23

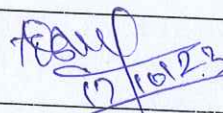
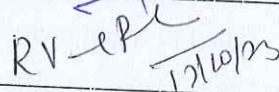
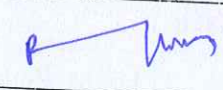
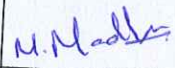
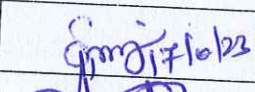

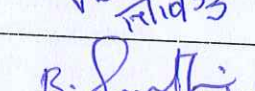
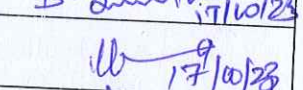

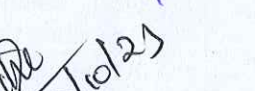
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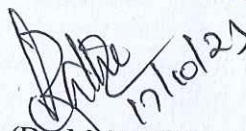


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S.NO.	NAME	DESIGNATION	SIGNATURE
8.	Dr. N. Kuppuchamy	Co-opted Member (Tamil)	 17/10/23
9.	Dr. R. Vidhya Prabha	Co-opted Member (English)	 17/10/23
10.	Dr. R. Sowrirajan	Co-opted Member (Mathematics)	
11.	Ms. M. Madhusree	Student Representative	
12.	Dr. R. S. Padmapriya Assistant Professor (SG)	Member	
13.	Mr. T. R. Anand Assistant Professor	Member	
14.	Dr. V. Manimekalai Assistant Professor	Member	
15.	Dr. B. Leelavathi Associate Professor	Member	
16.	Dr. M. Aruna Assistant Professor	Member	
17.	Mrs. I. Ajitha Assistant Professor	Member	

Date : 17.10.2023


(Dr. M. Rathi)

BoS Chairman/HoD
Department of Computer Technology
Dr. N. G. P. Arts and Science College
Coimbatore - 641 048

