



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 (3rd Cycle- 3.64 CGPA)
Dr. N.G.P.-Kalapatti Road, Coimbatore-641048, Tamil Nadu, India
Web: www.drngpasc.ac.in | Email: info@drngpasc.ac.in | Phone: +91-422-2369100

BoS

5th

Department of Computer Science with Cyber Security

Board of Studies Meeting

The 5th board of studies meeting was held on 06.04.2026 at 10.00 a.m. in AV room. (A1 Block)

Members Present:

S.No.	Name	Category
1.	Dr. V. Shobana	Chairman
2.	Dr. K. Preetha, Assistant Professor & Head, Department of Computer Science with Cyber Security, Vellalar College for Women, Erode.	University Nominee
3.	Dr. Shina Sheen, Professor and Head, Department of Applied Mathematics and Computational Sciences, PSG College of Technology, Coimbatore.	Subject Expert
4.	Dr. Ambili. P. S. Associate Professor, School of Computer Science and Applications, Reva University, Bengaluru.	Subject Expert
5.	Mr. Ajith. M, Senior Manager Malabar Group Calicut, Kerala.	Industry Expert
6.	Dr. N. Kuppuchamy	Co-opted Member
7.	Dr. A. Hazel Verbina	Co-opted Member
8.	Dr. R. Sowrirajan	Co-opted Member
9.	Dr. V. Malathi	Member
10.	Mr. C. Sasthikumar	Member
11.	Ms. M. Nagarani	Member
12.	Ms. J. Jelina	Member
13.	Ms. Mirulashini Thangavelu III B.Sc. CS CY	Student Representative

The HoD and Chairman of the Department of Computer Science with Cyber Security 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. Shina Sheen- Subject Expert
2. Dr. Ambili P.S. - Subject Expert

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

Item 5.1: *To review and approve the minutes of the previous meeting held on 11.11.2025.*

The chairman of the Board presented the minutes of the previous meeting held on 11.11.2025 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 11.11.2025.

Item 5.2 *To approve the scheme, regulations and syllabus for the I Semester for the students admitted in UG from academic year 2026-27 onwards.*

The chairman presented the detailed scheme and syllabus for the I semester for the students admitted during the academic year 2026-27. The members deliberated in detail about the modification required. After discussion it is unanimously decided to adopt the following changes.

New Courses Introduced

Semester	Course Code	Course Name	Reasons
V	26CYU5DB	Threat Hunting	<ul style="list-style-type: none"> • To actively defend systems against modern cyber threats
VI	26CYU6DB	Cyber Threat Intelligence	<ul style="list-style-type: none"> • To equip with the knowledge to understand, predict and defend against modern cyber threats.
VI	26CYU6DE	Malware Analysis	<ul style="list-style-type: none"> • To understand how real-world threats operates and spreads.
VI	26CYU6SP	SOC & Threat Monitoring Lab	<ul style="list-style-type: none"> • To provide practical exposure to monitor systems, detect attacks and respond in real time.

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

Resolution:

Resolved to approve the above modifications and adopt the revised syllabus for the students admitted during the academic year 2026-27.

Item 5.3: To review and approve the syllabus for the III Semester for the students admitted during the academic year 2025-26.

The Chairman presented the detailed syllabus for the III semester for the students admitted during the academic year 2025-26.

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

Resolution:

Resolved to retain the existing syllabus of 2024 batch for the students admitted during the academic year 2025-26.

Item 5.4: To review and approve the syllabus for the V Semester for students admitted during the academic year 2024-25.

The Chairman presented the detailed syllabus for the V semester for the students admitted during the academic year 2024-25.

Changes Made:

Course Code	Course Name	Changes & Reason
24CYU5CB	Secure Software Engineering	Mr. Ajith suggested to incorporate security coding in OWASP in unit V.
24CYU5GA	Basics of Cyber Security	Unit V has been revised with social engineering attacks to have a basic understanding of how different attacks happens online.

GE Offered:

Course Code	Course	Department
24CYU5GA	Basics of Cyber Security	To all UG Programme (other than Computer Science)

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

Resolution:

Resolved to approve the above modifications and adopt the revised syllabus for the students admitted during the academic year 2024-25.

Item 5.5: To consider and approve the self-study course offered in III semester for the students admitted during academic year 2025-26.

Course Code	Name of the Course
25CYUSSA	Web Essentials
25CYUSSB	Digital Marketing

The board discussed and approved the existing self-study courses offered in III semester for the students admitted during academic year 2025-26.

Resolution:

Resolved to approve the self-study course offered in III semester for the students admitted during academic year 2025-26.

Item 5.6: *To review and approve the Student Skill Development Courses (SSDC) / NPTEL courses that are equivalent to course curriculum / Domain-Specific Skill Courses*

The board discussed and approved the following Student Skill Development Course

Swayam/ NPTEL

1. Cyber Security and Privacy
2. Joy of Computing using Python
3. Object Oriented Programming with C++
4. Cloud Computing
5. Ethical Hacking
6. Software Engineering
7. Cyber Security
8. C and CPP
9. Linux
10. Python 3.4.3

Resolution

Resolved to approve the above Student Skill Development Courses.

Item 5.7: *To consider and approve the Diploma Course on Cyber Security offered by Bharathiar University during the academic year 2026-27*

The board discussed the syllabus of Diploma Course on Cyber Security and the following resolution was passed.

New Course Introduced

Diploma in Cyber Security		
Course Code	Course Name	Changes & Reason
26DCY1P	Network Analysis	<ul style="list-style-type: none"> • To have practical knowledge on simulation of network topologies and analyzing network packets for possible attacks. • Mr. Ajith suggested to differentiate HTTP and HTTPs attacks. • Course has been replaced by Network Security to meet the current trends in Cyber Security

Changes Made

Course Code	Course Name	Changes & Reason
26DCY1A	Fundamentals of Cyber Security	<ul style="list-style-type: none"> • Mr. Ajith suggested to add recent attacks in cyber security like remote access trojans and attack kill chain.
26DCY1Q	Offensive and Defensive Security	<ul style="list-style-type: none"> • Dr. Preetha suggested to incorporate Enumeration of services and analyzing application access logs.

Resolution:

Resolved to approve the above changes and adopt the revised syllabus of Diploma in Cyber Security for the academic year 2026-27.

Item 5.8: *To approve the panel of examiners for question paper setting and evaluation of answer scripts for the odd semester of the academic year 2026-27.*

The Chairman presented the panel of examiners for question paper setting, question paper scrutiny, conduct of practical and theory examination and evaluation, the same shall be submitted to CoE for the odd semester of the academic year 2026-27.

Resolution:

Resolved to approve the panel of examiners for Question paper setting, Question paper Scrutiny and conduct of practical and theory examinations and evaluation for the odd semester of the academic year 2026-2027.

Item 5.9: *To consider and approve any other item brought forward by the Chairman and the members of the board.*

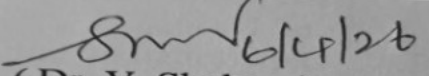
The board discussed and approved the courses offered by NPTEL that are equivalent to the courses offered in the curriculum in the V and VI semesters.

NPTEL Courses	Equivalent Courses	Semester
Software Engineering	Secure Software Engineering	V
Cryptography and Network Security	Network Security and Cryptography	V
Ethical Hacking	Ethical hacking and System Defense	VI
Blockchain and its Applications	Block Chain Technology	VI

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 closed with a formal vote of thanks proposed by Dr. V. Malathi, Associate Professor, Department of Computer Science with Cyber Security.

Date:06.04.2026

(Dr. V. Shobana)


(Dr. V. Shobana)
BoS Chairman / HoD
Dept. of Computer Science with Cyber Security
Dr. N.G.P. Arts and Science College
Coimbatore - 641 048.

Syllabus (New Course)

Faculty: Computer Science

Board: Computer Science with Cyber Security

Programme: B.Sc. Computer Science with Cyber Security

Semester: I

Course Code/ Name: 26CYU1CA / COMPUTER ORGANIZATION AND ARCHITECTURE

Unit	Contents
I	Digital Logic Circuits Digital Computers-Logic Gates- Boolean Algebra: Boolean Function-Boolean Expression-DeMorgans Theorem-Complement of a function- Map Simplification: Product of Sums Simplification-Don't Care Conditions.
II	Combinational and Sequential Circuits Combinational Circuits: Half Adder-Full Adder- Sequential Circuits: Flip Flops: SR, JK, T, Edge Triggered. Digital Components: Integrated Circuits-Decoders-Encoder-Multiplexer-Registers- -Demultiplexer.
III	Data Representation Number Systems: Decimal-Binary-Octal-Hexadecimal-Conversion. Complements: r-1 s complements, r's complements - subtraction of unsigned numbers – Arithmetic Addition – Arithmetic Subtraction – Other binary codes.
IV	Computer Organization Instruction codes – Computer registers – Computer instructions – Timing and control – Instruction Cycle –Input -Output configuration – input-output instructions – Program interrupt – interrupt cycle
V	Memory Organization Central Processing Unit: Instruction formats and Addressing Modes. Memory Hierarchy – Main Memory – Auxillary Memory – Associative memory – Cache memory.

PERCENTAGE OF SYLLABUS REVISED: 100%

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 Science with Cyber Security

Programme: B.Sc. Computer Science with Cyber Security

Semester: V

Course Code/ Name: 24CYU5GA / BASICS OF CYBER SECURITY

Unit	Existing	Changes
I	<p>Introduction Introduction: Professional software development-Software engineering ethics-Software processes: Software process models-Process activities-The rational unified process.</p>	<p>Introduction Introduction: Professional software development-Software engineering ethics-Software processes: Software process models-Process activities-The rational unified process.</p>
II	<p>Agile software development and Requirements engineering Agile methods-Plan-driven and agile development-Extreme Programming-Agile project management-Scaling agile methods. Requirements Engineering: Functional and non-functional requirements-Requirements specification, validation and management.</p>	<p>Agile software development and Requirements engineering Agile methods-Plan-driven and agile development-Extreme Programming-Agile project management-Scaling agile methods. Requirements Engineering: Functional and non-functional requirements-Requirements specification, validation and management.</p>
III	<p>System modeling Context models-Interaction models: Use case modeling-Sequence diagrams -Structural models: Class Diagrams-Generalization-Aggregation -Behavioral models: Data-driven modeling - Event-driven modeling - Model-driven engineering: Model-driven architecture-Executable UML.</p>	<p>System modeling Context models-Interaction models: Use case modeling-Sequence diagrams -Structural models: Class Diagrams-Generalization-Aggregation -Behavioral models: Data-driven modeling - Event-driven modeling - Model-driven engineering: Model-driven architecture-Executable UML.</p>
IV	<p>Software testing Introduction-Development testing: Unit Testing-Component Testing-System Testing-Test-driven development-Release testing: Requirements-based testing Scenario testing -Performance testing -User testing.</p>	<p>Software testing Introduction-Development testing: Unit Testing-Component Testing-System Testing-Test-driven development-Release testing: Requirements-based testing Scenario testing -Performance testing -User testing.</p>
V	<p><u>Dependability and security</u> <u>Dependability properties-Availability and reliability-Safety-Security-Risk-driven requirements specification-Safety Specification-Security specification</u></p>	<p>Social Engineering Attacks Phishing – Pretexting - Baiting - Quid Pro Quo - Tailgating / Piggybacking - Impersonation - Dumpster Diving-Scareware-Vishing – Smishing - Social Media Exploitation - Case Study of attacks.</p>

PERCENTAGE OF SYLLABUS REVISED: 20%
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 checked="" type="checkbox"/>	Intellectual Property Rights	<input checked="" type="checkbox"/>	Gender Sensitization
<input checked="" type="checkbox"/>	Social Awareness/ Environment	<input checked="" type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics

Syllabus (New Course)

Faculty: Computer Science

Board: Computer Science with Cyber Security

Programme: Diploma in Cyber Security

Course Code/ Name: 26DCY1P / NETWORK ANALYSIS

Unit	Contents
1.	Practice building a network using basic Network topology concepts.
2.	Simulate a bus topology by connecting multiple PCs using a single backbone cable.
3.	Create a ring topology to observe the data flow in a looped network.
4.	Simulate a mesh network by interconnecting each router to every other router.
5.	Design a hierarchical tree topology to demonstrate various levels of network devices.
6.	Capture live network packets using Wireshark.
7.	Analyze HTTP & HTTPS request and response packets.
8.	Perform DNS query and response analysis.
9.	Study TCP three-way handshake (SYN, SYN-ACK, ACK).
10.	Analyze ICMP packets using the ping command.

PERCENTAGE OF SYLLABUS REVISED: 100%

Syllabus (Revision)

Faculty: Computer Science

Board: Computer Science with Cyber Security

Programme: B.Sc. Computer Science with Cyber Security

Course Code/ Name: 26DCY1A / FUNDAMENTALS OF CYBER SECURITY

Unit	Existing	Changes
I	<p>Information Security</p> <p>Information Security: Introduction – Definition of Security - Importance of information security - Threats of information system: Security Threat Supply - Threat Agents - Threat Motivation-Threat intent - Information Assurance – Cyber Security and Security Risk</p>	<p>Information Security</p> <p>Information Security: Introduction – Definition of Security - Importance of information security - Threats of information system: Security Threat Supply - Threat Agents - Threat Motivation-Threat intent - Information Assurance – Cyber Security and Security Risk</p>
II	<p>Application Security</p> <p>Application Security: Introduction - Database Security - E-Mail Security - Internet Security- Data Security considerations - Security Technology - Intrusion Detection - Access Control.</p>	<p>Application Security</p> <p>Application Security: Introduction - Database Security - E-Mail Security - Internet Security- Data Security considerations - Security Technology - Intrusion Detection - Access Control.</p>
III	<p>Security Threats</p> <p>Introduction to Security Threats: Virus – Worms - Trojan Horse – Bombs – Trap Door- E-mail Spoofing - E-mail Virus: Virus Life-Cycle - How Virus Works - Macro Viruses- Malicious software</p>	<p>Security Threats</p> <p>Introduction to Security Threats: Virus – Worms - Trojan Horse – Bombs – Trap Door- E-mail Spoofing - E-mail Virus: Virus Life-Cycle - How Virus Works - Macro Viruses- Malicious software</p>
IV	<p>Threats to E- Commerce</p> <p>Security Threats to E- Commerce: Electronic Payment System - Credit/Debit Cards - Smart Cards - E-Money - Electronic Fund Transfer - E-commerce Business Model - E-Commerce Advantages and Disadvantages - E-commerce Security Systems</p>	<p>Threats to E- Commerce</p> <p>Security Threats to E- Commerce: Electronic Payment System - Credit/Debit Cards - Smart Cards - E-Money - Electronic Fund Transfer - E-commerce Business Model - E-Commerce Advantages and Disadvantages - E-commerce Security Systems</p>
V	<p>Development of Secure Information System</p> <p>Introduction – Importance of Information System Security – Developing Secure Information System – Key Elements of an Information Security Policy – Information System Development Life Cycle – Securing our network – Securing our host</p>	<p>Social Engineering Attacks</p> <p>Phishing – Pretexting - Baiting - Quid Pro Quo - Tailgating / Piggybacking - Impersonation - Dumpster Diving-Scareware-Vishing – Smishing - Social Media Exploitation - Case Study of attacks.</p>

PERCENTAGE OF SYLLABUS REVISED: 25%
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 checked="" type="checkbox"/> Intellectual Property Rights	<input checked="" type="checkbox"/> Gender Sensitization
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ATTENDANCE FOR FIFTH BOARD OF STUDIES MEETING

Faculty: Faculty of Computer Science

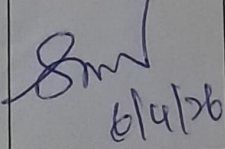
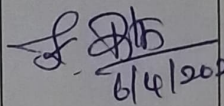
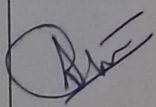
Board: Computer Science with Cyber Security

VENUE : AV Room (A1 block)

DATE : 06.04.2026

TIME : 10.00 a.m.

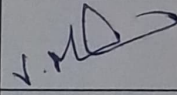
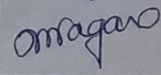
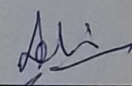
The following members were present for the Board of Studies Meeting

S.NO.	NAME	DESIGNATION	SIGNATURE
1.	Dr. V. Shobana Professor & Head Department of Computer Science with Cyber Security, Dr.N.G.P. Arts and Science College, Coimbatore.	Chairman	 6/4/26
2.	Dr. K. Preetha Assistant Professor & Head, Department of Computer Science with Cyber Security, Vellalar College for Women, Erode.	Member - VC Nominee	 6/4/2026
3.	Dr. Shina Sheen Professor and Head, Department of Applied Mathematics and Computational Sciences, PSG College of Technology, Coimbatore.	Member - Subject Expert	ABSENT
4.	Dr. Ambili. P.S Associate Professor, School of Computer Science and Applications, Reva University, Bengaluru.	Member - Subject Expert	ABSENT
5.	Mr. Ajith. M Senior Manager, Information Security Malabar Group, Calicut Kerala.	Member - Industrial expert	

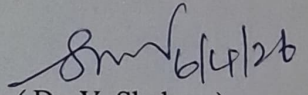


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S.NO.	NAME	DESIGNATION	SIGNATURE
6.	Dr. N. Kuppuchamy Professor & Head	Co-opted Member (Tamil)	
7.	Dr. A. Hazel Verbina Professor & Head	Co-opted Member (English)	
8.	Dr. R. Sowrirajan Associate Professor & Head	Co-opted Member (Mathematics)	ABSENT
9.	Dr. V. Malathi Associate Professor	Member	
10	Mr. C. Sastikumar Assistant Professor	Member	
11	Ms. M. Nagarani Assistant Professor	Member	
12	Ms. J. Jelina Assistant Professor	Member	
13	Ms. Mirulashini Thangavelu III B.Sc. CS CY	Student Representative	

Date: 06.04.2026


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