	<b>Dr. N.G.P. ARTS AND SCIENCE COLLEGE</b> (An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) Approved by Government of Tamil Nadu and Accredited by NAAC A++ Grade (3 <sup>rd</sup> Cycle- 3.64 CGPA) Dr. N.G.P.-Kalapatti Road, Coimbatore-641048, Tamil Nadu, India Web: www.drnpgpasc.ac.in   Email: <a href="mailto:info@drnpgpasc.ac.in">info@drnpgpasc.ac.in</a>   Phone: +91-422-2369100	BoS
		21st

**Board of Studies Meeting**  
**Department of Computer Technology**

The minutes of the 21<sup>st</sup> meeting of the Board of Studies held on 1.4.2026 at 10.00 am.

**Members Present:**

S.NO.	NAME	Category
1.	Dr. M. Rathi, Professor and Head	Chairman
2.	Dr. G. Sumalatha, Assistant Professor, Department of Computer Technology and Data Science, Sri Krishna Arts and Science College, Coimbatore.	VC Nominee
3.	Dr. S. Chandia, Assistant Professor, M.Sc Decision and Computing Sciences Coimbatore Institute of Technology, Coimbatore.	Subject Expert
4.	Dr. P.Vijayakumar, Assistant Professor, Department of Computer Applications, Kongu Engineering College, Erode.	Subject Expert
5.	Mrs. Saranya Ramakrishnan, Staff Programme Manager, Kovai.Co, Coimbatore	Industry Expert
6.	Mr. Siddhartha VJ, Senior Test Analyst, Cognizant Technology Solutions, Coimbatore.	Alumni
7.	Dr. N. Kuppuchamy Associate Professor and Head, Department of Tamil	Co-opted Member
8.	Dr.A.Hazel Verbina, Professor and HoD Department of English	Co-opted Member
9.	Dr. R. Sowrirajan, Assistant Professor and Head Department of Mathematics	Co-opted Member
10.	Mr.G. Vishnudev II CT A	Member
11.	Dr.B.Leelavathi, Professor	Member
12.	Dr. T. R. Anand, Associate Professor	Member
13.	Dr. C. Mohanapriya, Associate Professor	Member
14.	Dr. V. Manimekalai, Associate Professor	Member
15.	Mrs. P. Vanitha, Assistant Professor	Member

16.	Mrs. K. Vanitha, Assistant Professor	Member
17.	Dr. D. Geethamani, Assistant Professor	Member
18.	Mr. R. Vijay Anand, Assistant Professor	Member
19.	Mrs. I. Ajitha, Assistant Professor	Member
20.	Ms. S. Leena Sylviya, Assistant Professor	Member

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

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

1. Dr. S. Chandia, Subject Expert, Coimbatore Institute of Technology, Coimbatore.
2. Mrs. Saranya Ramakrishnan, Industry Expert, Kovai.Co, Coimbatore.

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

#### **Item 21.1**

*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 a brief discussion the following resolution was passed.

#### **Resolution:**

**Resolved to approve the minutes of the previous meeting held on 11.11.2025.**

#### **Item 21.2:**

*To review and approve the Regulation, Scheme and Syllabi for the I Semester for the students admitted in UG during the academic year 2026-27.*

The chairman of the board presented the detailed scheme and syllabi for the I Semester for the students admitted in UG during the academic year 2026-27.

#### **New Courses Introduced:**

Sem	Course Code	Course	Changes and Reason
III	26PYU3IA	Embedded Systems	To develop skills in microcontrollers and real-time applications, addressing current industry demand in IoT and automation domains.

V	26ITU5CB	Full Stack Development	To meet industry needs by developing comprehensive competencies in front-end, back-end and database-driven application development.
VI	26CTU6DF	DevOps Fundamentals	To align with industry practices by developing skills in CI/CD, automation, version control and deployment pipelines.

The members deliberated in detail and approved the scheme and syllabus.

After discussion the following resolution was passed.

**Resolution:**

**Resolved to approve the regulation, scheme and syllabus for the I Semester for the students admitted during the academic year 2026-27.**

**Item 21.3:**

*To review and approve the Scheme and Syllabi for the III Semester for the students admitted in UG during the academic year 2025-26.*

The chairman of the board presented the detailed scheme and syllabi for the III Semester for the students admitted in UG during the academic year 2025-26.

After discussion the following resolution was passed.

**Resolution:**

**Resolved to retain the existing syllabus of 2024-25 batch without any modifications for the students admitted during the academic year 2025-26.**

**Item 21.4:**

*To review and approve the Scheme and Syllabi for the V Semester for the students admitted in UG during the academic year 2024-25.*

The chairman of the board presented the detailed scheme and syllabi for the V Semester for the students admitted in UG during the academic year 2024-25.

The board suggested to include the following courses.

**New Course introduced:**

Course Code	Course Name	Changes and Reason
24CTU6SP	Network Programming and Simulation	Dr. Nandhakumar suggested to introduce this course in Semester VI to address the gap in practical networking skills essential for industry readiness.

**Changes Made:**

Course Code	Course Name	Changes and Reason
24CTU5CA	Software Engineering	Dr. G. Sumalatha suggested to include AI-assisted software development practices for code generation and testing in Unit V.

**GE Course Offered:**

Course Code	Course Name
24CTU5GA	Web Development Essentials

After discussion the following resolution was passed.

**Resolution:**

Resolved to approve the scheme and syllabi with the above modifications for the V semester for the students admitted during the academic year 2024-25.

**Item 21.5**

*To review and approve the syllabus of the self-study courses offered during III Semester for the students admitted during the academic year 2025-26.*

**Self-study Courses Offered:**

Course Code	Course
25CTUSSA	Multimedia and Animation
25CTUSSB	Social Networking

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

After discussion, the following resolution was passed.

**Resolution:**

Resolved to approve the self-study courses for the students admitted during the academic year 2025-26.

**Item 21.6:**

*To review and approve the Student Skill Development Courses (SSDC) / NPTEL courses equivalent to course curriculum / Domain Specific Skill Courses.*

The board discussed and approved the following SSDC courses.

**NPTEL/SWAYAM:**

- Introduction to Internet of Things
- Cyber Security and Privacy
- Cloud Computing
- Fundamentals of Object-Oriented Programming
- Data Analytics with Python
- Computer Networks
- Java Programming
- Introduction to Artificial Intelligence

**Resolution:**

**Resolved to approve the Student Skill Development Courses (SSDC) / NPTEL courses equivalent to course curriculum / Domain Specific Skill Courses**

**Item 21.7:**

*To approve the panel of examiners*

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

**Resolution:**

**Resolved to approve the panel of examiners for the odd semester during the academic year 2026-27.**

**Item 21.8:**

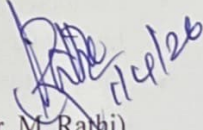
*To consider and approve any other item brought forward by the Chairman and the members of the board.*

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
Cyber Security and Privacy	Cyber Security and Ethics	V
Introduction to IoT	Fundamentals of Internet of Things	VI
Cloud Computing	Cloud Computing and Virtualization	VI
Blockchain and its Applications	Blockchain Technology Essentials	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 was closed with a formal vote of thanks proposed by Dr. M. Rathi, Chairman - Department of Computer Technology.

Date: 01.04.2026

  
(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**

**Programme: B.Sc.**

**Course Code/ Name: 24CTU5CA – Software Engineering**

**Board : Computer Technology**


**Semester: V**

Unit	Existing	Changes
1.	Introduction to Software Engineering Software Engineering: Introduction - Components of Software - Role of Software - Phases of Software - Characteristics of Software - Changing nature of Software - Software Myths - Generic view of Software Engineering - Role of Management Software Engineering - Software Process - Process Models - Software Product. Requirements Engineering: Principles: Requirements Engineering - Importance of requirements - Types of requirements - Steps Involved. Modeling: Analysis modeling - Structured analysis - Object Oriented analysis.	
2.	Design and Architectural Engineering Design and Architectural Engineering: Design process and concepts - Basic issues in Software Design - Characteristics of a good design - Software Design and Software Engineering - Function-Oriented System vs Object-Oriented System - Modularity, Cohesion, Coupling, Layering. User Interface Design: Concepts - Elements - Designing the User Interface	
3.	Software Coding & Metrics Software Coding: Programming Principles - Programming Guidelines - Coding Conventions - Key Concepts. Software Metrics and Estimation: Introduction - Measurement - Metrics - Lines of Code - Function Point Count. <del>Software Estimation: Definition - Importance of Accurate Estimation - Efforts and Duration - Estimation Process.</del>	
4.	Software Testing Software Testing: A Strategic Approach to Software Testing - Strategic Issues - Test Strategies for Conventional Software - Validation Testing - System Testing. Testing Conventional Applications: White-Box Testing - Basis Path Testing - Control Structure Testing - Black-Box Testing. <del>Testing Web Applications: Testing Concepts for WebApps - The Testing Process - Content Testing - User Interface Testing - Component-Level Testing - Configuration Testing - Security Testing - Performance Testing.</del>	
5.	<del>Test Automation and Software Maintenance</del> <del>Software Testing Plan and Test Case Preparation: Introduction - Test Plan - Test Case. Test Automation: Expectations from Test Automation - Limitations - Automation Strategy - Automation Frameworks - Automation Metrics. Software Maintenance: Introduction - Maintenance Activities - Maintenance Process - Maintenance Cost - Maintenance Strategies.</del>	AI Assisted Software Development Generative AI - Benefits - Drawbacks - Code suggestions - Compilers Vs AI assisted tools - The Prompt - Instructions - Best Practices - AI Assisted Programming Tools - Coding - Debugging - Testing. Case study: AI tools in Software Development.

**PERCENTAGE OF SYLLABUS REVISED: 18%**

**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

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		21 <sup>st</sup>

### ATTENDANCE OF THE TWENTY FIRST BOARD OF STUDIES MEETING

Faculty: Computer Science

Board: Computer Technology

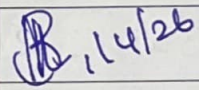
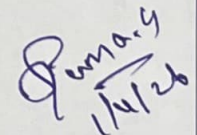
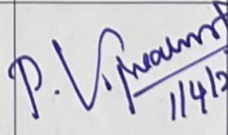

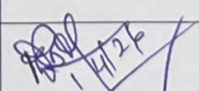
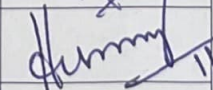
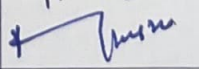
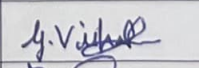

VENUE: Room No. C1 – 305

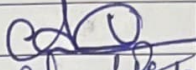
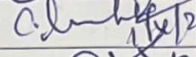

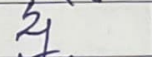

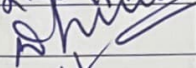
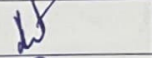
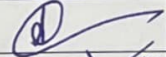
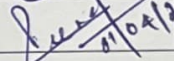
Date: 01/04/2026

Time: 09.30 am


The following members were present for the Board of Studies meeting.

**Members Present:**

S.NO.	NAME	DESIGNATION	Signature
1.	Dr. M. Rathi, Professor and Head	Chairman	 1/4/26
2.	Dr. G. Sumalatha, Assistant Professor, Department of Computer Technology and Data Science, Sri Krishna Arts and Science College, Coimbatore.	Member (Subject Expert) (Nominated by Vice-Chancellor)	 1/4/26
3.	Dr. S. Chandia, Assistant Professor, M.Sc Decision and Computing Sciences Coimbatore Institute of Technology, Coimbatore.	Member (Subject Expert) (Nominated by Academic Council)	Absent
4.	Dr. P. Vijayakumar, Assistant Professor, Department of Computer Applications, Kongu Engineering College, Erode.	Member (Subject Expert) (Nominated by Academic Council)	 1/4/26
5.	Mrs.Saranya Ramakrishnan Staff Program Manager Kovai.co, Coimbatore.	Member (Industry Expert) (Nominated by Academic Council)	Absent
6.	Mr. Siddhartha VJ, Senior Test Analyst, Cognizant Technology Solutions, Coimbatore.	Member (Subject Expert) (Nominated by Academic Council)	
7.	Dr. N. Kuppuchamy Associate Professor and Head	Member	 1/4/26
8.	Dr. A. Hazel Verbina, Professor and HoD	Member	 1/4/26
9.	Dr. R. Sowrirajan, Assistant Professor and Head	Member	
10.	Mr.G. Vishnudev II CT A	Member	
11.	Dr.B.Leelavathi, Professor	Member	

12.	Dr. T. R. Anand, Associate Professor	Member	
13.	Dr. C. Mohanapriya, Associate Professor	Member	 14/4/26
14.	Dr. V. Manimekalai, Associate Professor	Member	 14/4/26
15.	Mrs. P. Vanitha, Assistant Professor	Member	
16.	Mrs. K. Vanitha, Assistant Professor	Member	 14/4/26
17.	Dr. D. Geethamani, Assistant Professor	Member	
18.	Mr. R. Vijay Anand, Assistant Professor	Member	
19.	Mrs. I. Ajitha, Assistant Professor	Member	
20.	Ms. S. Leena Sylviya, Assistant Professor	Member	 14/4/26

Date : 01.04.26

  
(Dr. M. Rathi)

BoS Chairman/HoD  
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