	Dr.N.G.P. ARTS AND SCIENCE COLLEGE (An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) Approved by Government of TamilNadu 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
		14th

Department of Computer Science with Data Analytics

Board of Studies Meeting

The minutes of the 14th meeting of the Board of Studies held on 02.04.2026 at 10.00 am.

Members Present:

S.No.	Name	Category
1.	Dr. V. Pream Sudha Professor and HoD Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Chairman
2.	Dr.K. Manikandan Associate Professor & HoD Dept of Computer Science PSG College of Arts and Science Coimbatore Email:prof.k.manikandan@gmail.com Mobile No : 9443179433	University Nominee
3.	Dr.J. Chandra Professor Dept of Computer Science Christ University, Bengaluru Email:chandra.j@christuniversity.in Mobile No : 9886306307	Subject Expert
4.	Mr.Nallaperumal Thanthondri Director-Product Customization Cantier Systems, Coimbatore Email : nalla@cantier.com Mobile No: 9894241104	Industry Expert
5.	Mr.Santhosh Kumar.S Associate Data Engineer Cloud Destinations, Coimbatore Email:santhosh.sadaiyappan@gmail.com Mobile No:6383172044	Alumni
6.	Dr.Kuppuchamy.D. Associate Professor and Head Department of Tamil	Co-opted Member

7.	Dr.A.Hazel Verbina Professor and HoD Department of English	Co-opted Member
8.	Dr.R.Sowrirajan Assistant Professor and Head Department of Mathematics	Co-opted Member
9.	Dr.D.Parasakthi Professor and Head Department of Commerce	Member
10.	Dr.A.C.Sountharraj	Member
11.	Dr.R.Suganthi	Member
12.	Dr.V.Sangeetha	Member
13.	Ms. C. Karpagam	Member
14.	Dr.V.Santhalakshmi	Member
15.	Mrs.R.Ranjani	Member
16.	Ms.S.Govardhini	Member
17.	Mr.C.Anbarasan	Member
18.	Ms. A. Roselin	Member
19.	Ms.M.Anitha	Member
20.	Ms.S.Shri Tharani	Member
21.	Ms.M.Preethi	Member
22.	Mr.Bharath	Student Representative

The HoD and Chairman of the Department of Computer Science with Data Analytics welcomed and introduced all the members and requested for their continuous support, contribution for the development of academic standard and enrichment of the syllabus.

The chairman informed the inability of the following member to attend the meeting and requested to grant leave of absence.

1. Dr.V.Kumutha - Subject Expert

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

Item 14.1: To review and approve the minutes of the previous meeting held on 12.11.2025.

The chairman of the Board presented the minutes of the previous meeting held on 12.11.2025 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 12.11.2025.

Item 14.2: To consider and approve the scheme and syllabi for I semester for the students admitted during the academic year 2026-27.

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 and unanimously decided to adopt the syllabi with the following changes.

New Courses Introduced

B.Sc. Computer Science with Data Analytics

Semester	Course Code	Course	Reason
III	26DAU3CM	Statistical Analysis with R	To facilitate the practical application of statistical techniques for accurate and meaningful data interpretation.
VI	26DAU6DD	Generative AI and Applications	To enable understanding of generative AI techniques and their applications in automation and content generation while preparing for emerging industry demands in data analytics.
VI	26DAU6DF	Graph Analytics	To analyze interconnected data for applications such as social networks and recommendation systems, aligning the curriculum with modern industry standards

M.Sc. Computer Science with Data Analytics

Semester	Course Code	Course	
I	26DAP1CC	Data Engineering	To enable understanding of data pipelines, storage, and processing frameworks for handling large-scale data efficiently.
II	26DAP2CD	Exploratory Data Analysis	To facilitate systematic exploration and summarization of data for pattern discovery and informed analysis.
III	26DAP3DA	Large Language Models	To provide in-depth knowledge of advanced AI models for text generation, analysis and intelligent automation

Resolution:

Resolved to approve the syllabus for the I semester for the students admitted during the academic year 2026 - 27.

Item 14.3: To consider and approve the syllabi for 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. The members deliberated in detail and unanimously decided to retain the existing syllabi of III Semester of UG and PG 2024-25 batch without any modifications.

After discussion the following resolution was passed.

Resolution:

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

Item 14.4: To consider and approve the syllabi for V semester for the 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. The members deliberated in detail and unanimously decided to adopt the syllabi with the following changes

After discussion the following resolution was passed.

B.Sc. Computer Science with Data Analytics

Course Code	Course	Change &Reason
24DAU5CB	Core: R Programming	Mr.Nallaperumal suggested to include AI assisted software development concepts in the V unit of R programming to enrich students knowledge in integrating AI tools for efficient coding and model deployment.
24DAU5SP	SEC Practical: Web Technology	Mr. Santhosh Kumar suggested to include programs using FastAPI to provide the skills in Python Framework for API development.

Resolution:

Resolved to approve the syllabus for the V semester for the students admitted during the academic year 2024 - 25.

Item 14.5: *To consider and approve the self study courses for the students admitted during the academic year 2025-26.*

Course Code	Course
25DAUSSA	Software Testing
25DAUSSB	Decision Support Systems
25DAPSSA	Business Analytics
25DAPSSB	Professional Ethics

Resolution:

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

Item 14.6: *To consider and approve Students Skill Development Course (SSDC)/ NPTEL Courses that are equivalent to course curriculum/Domain- Specific Courses.*

The board discussed the Students Skill Development Course (SSDC)

NPTEL/Swayam

- Business Intelligence and Analytics
- Fundamentals of Object-Oriented Programming
- Programming with Generative AI
- Natural Language Processing
- Introduction to Large Language Models
- Learning Analytic Tools

After discussion the following resolution was passed.

Resolution:

Resolved to approve Students Skill Development Course (SSDC)/ NPTEL courses that are equivalent to course curriculum/ Domain- Specific Courses.

Item 14.7: *To consider and approve the syllabi for Diploma in Data Science for the students admitted during the academic year 2026-27.*

The Chairman presented the detailed syllabus of the Diploma in Data Science for the students admitted during the academic year 2026- 27. The members deliberated in detail and unanimously decided to retain the existing syllabi without any modifications.

After discussion the following resolution was passed.

Resolution:

Resolved to retain the existing syllabus of 2025-26 batch without any modification for the students admitted during the academic year 2026-27.

Item 14.8: 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
Cloud Computing	Cloud Computing	V
Introduction to Machine Learning	Principles of Machine Learning Machine Learning	VI III (PG)

Item 14.9: 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.

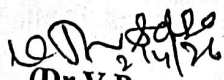
The Chairman presented the panel of examiners for Question paper setting, Question paper Scrutiny, conduct and evaluation of practical and theory examinations and the same shall be submitted to CoE for the odd semester of the academic year 2026-27.

Resolution:

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

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. V. Pream Sudha, Head and Chairman- Computer Science with Data Analytics BoS.

Date:02.04.2026


(Dr. V. Pream Sudha)
BoS Chairman/HoD
Department of Computer Science with Data Analytics
Dr. N. G. P. Arts and Science College
Colombatore - 641 048

Faculty: Computer Science with Data Analytics Board: CSDA

Programme: UG

Semester: V

Course Code/ Name: 25DAU5CB - CORE: R Programming

Unit	Existing	Changes
1.	<p>Introduction Evolution of R – Features of R – Design of the R System - Limitations of R – R Resources – Interactive Mode – Batch Mode – Entering Input – R Objects –Data in and out of R – Dates and Times in R – Subsetting R Objects Managing Data Frames with dplyr package- Data Frames- dplyr package- dplyr grammar Installing dplyr - functions – select - filter - arrange - rename - mutate - group by - Data Types - Variables - Constants - Operators - if- if...else - Switch – For Loops – Nested For Loops – While Loops – Repeat Loops – Next – Break – Functions: Arguments – Return Values – Functions as a Arguments : Anonymous and Properties of Functions – Argument order and Named Arguments</p>	
2.	<p>Data Objects in R Scalars, Vectors, Arrays, and Matrices - Adding and Deleting Vector Elements – Length of a vector – Matrices and Array as vectors – Common vector operations - Matrices: Matrix Operations - Applying Functions to Matrix Rows and Columns - List: List Operations - Data Frames: Creating Data Frames – Merging Data Frames – Applying Functions to Data Frames - Factors: Factors and Levels – Common functions used with Factors</p>	
3.	<p>Working with Data in R Saving - Loading and Editing the Data: Entering Data – Importing data from a File – Exporting data Objects –Data Extract from CSV and Excel File - Preparing Data: Combining Data Sets – Transformation: Reassigning Variables – Transform Functions – Applying functions to each elements of an object</p>	
4.	<p>Data Visualization in R R Graphics: Line Graph - Scatter Plot – Bar Charts – Pie Charts – Box Plots - Histogram - Customizing the Charts: Common Arguments to Chart Functions – Graphical Parameters - Basic Graphic Functions: Points – Lines – Curve – Text – Title – Legend – Box – Axis –R Statistics: Mean -Median- Mode-Linear Regression</p>	
5.		<p>AI Assisted Software Development Prompt Engineering Best Practices and Challenges- Designing Effective Prompts for Code Generation –Crafting Prompts for Debugging and Error Resolution-Data Preprocessing with AI - Data Cleaning and Transformation with AI tools - Automated Feature Selection Techniques-Visualizing data insights from AI Libraries- Visualizing correlation and feature relationship with AI Assistance- Visualizing feature importance- Creating dashboards for interactive visualization with AI Assistance</p>

PERCENTAGE OF SYLLABUS REVISED: 20%
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 with Data Analytics Board: CSDA

Programme: UG

Semester: V

Course Code/ Name: 25DAU5SP - CORE: Web Designing

Unit	Existing	Changes
1.	Create a HTML Document using Basic HTML tab	
2.	Design a set of social media icons using HTML and CSS	Program to perform data aggregation and return the summary using Fast API end Point
3.	Create a HTML documents using a List Attributes	
4.	Create a HTML document to display a class time table using < table> tag	
5.	Create a HTML document to display mouse over effect on image using CSS	
6.	Create an animated search bar that glows when focused using java script	
7.	Create a web page containing a clock using java script	
8.	Create a web page to display an order form using java script and DHTML	
9.	Create a CGPA calculator in web browser using HTML, CSS, java script using PHP	
10.	Create a dynamic to do list where user can Add, edit, and delete tasks using PHP	
11.	Create a file and write into the data in file using PHP	
12.	Create a file and uploading using PHP and script	Program to upload a CSV file, process the data and return the results using Fast API

PERCENTAGE OF SYLLABUS REVISED: 20%

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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Faculty of Computer Science Department of Computer Science with Data Analytics 14th Board of Studies Meeting

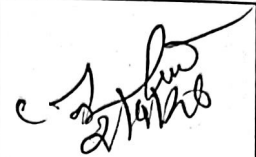

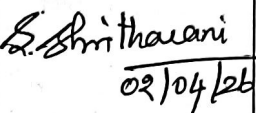
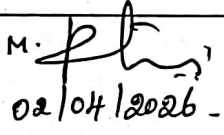
Date: 02.04.2026

Time: 10.00A.M


Venue: Seminar Hall III

S.No.	Name and Designation of the Member	Position	Signature
1.	Dr. V. Pream Sudha HoD Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Chairman	
2.	Dr. K. Manikandan Professor & HoD Dept of Computer Science PSG College of Arts and Science Coimbatore Email : prof.k.manikandan@gmail.com Mobile No : 9443179433	Member (Subject Expert) Nominated by Vice Chancellor	
3.	Dr. J.Chandra Professor Department of Computer Science Christ University, Bengaluru Email : chandra.j@christuiversity.in Mobile No : 9886306307	Member (Subject Expert) Nominated by Academic Council	Online
4.	Dr.Kumutha.V Assistant Professor, Department of Computer Science Avinashilingam University Email : kumutha_cs@avinuty.ac.in Mobile No: 9843289697	Member (Subject Expert) Nominated by Academic Council	Absent
5.	Mr.NallaperumalThanthondri Director-Product Customization Cantier Systems, Coimbatore Email : nalla@cantier.com Mobile No: 9894241104	Member (Industrial Expert)	
6.	Mr.SantoshKumar.S Associate Data Engineer Cloud Destination Coimbatore Email : santhosh.sadaiyappan@gmail.com Mobile No : 9751718120	Alumni	
7.	Dr. N. Kuppuchamy D. HoD Department of Tamil Dr. N.G.P. Arts and Science College Coimbatore	Co-opted Member (Tamil)	

8.	Dr.A.HazelVerbina HoD Department of English Dr. N.G.P. Arts and Science College Coimbatore	Co-opted Member (English)	<i>Humm</i> 2/9/26
9.	Dr. R. Sowrirajan HoD Department of Mathematics Dr. N.G.P. Arts and Science College Coimbatore	Co-opted Member (Mathematics)	<i>R. Sowrirajan</i>
10.	Dr.D.Parasakthi HoD Department of Commerce Dr. N.G.P. Arts and Science College Coimbatore	Co-opted Member (Commerce)	<i>Dr. D. Parasakthi</i> 2/14/26
11.	Bharath P (24UGCDA00031) II B.Sc. CSDA A	Student Representative	<i>Bharath P</i> 02/04
12.	Dr. A C Sountharraj Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	<i>A C Sountharraj</i>
13.	Dr.R.Suganthi Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	<i>R. Suganthi</i> 2/14/26
14.	Dr.V.Sangeetha Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	<i>V. Sangeetha</i> 2/14/26
15.	Ms. C. Karpagam Department of CS with Data Analytics Dr. N.G.P. Arts and Science College, Coimbatore	Member	<i>C. Karpagam</i> 2/14/26
16.	Dr.V.Santhana Lakshmi Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	<i>V. Santhana Lakshmi</i> 2/14/26
17.	Mrs.R.Ranjani Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	<i>R. Ranjani</i> 2/14/26
18.	Ms.S.Govardhini Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	<i>S. Govardhini</i> 2/14/26

19.	Mr.C.Anbarasan Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	 2/4/26
20.	Ms. A. Roselin Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	 2/4/26
21.	Ms.M.Anitha Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	— Absent —
22.	Ms.S.Shri Tharani Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	 02/04/26
23.	Ms.M.Preethi Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	 02/04/2026 -

Date :02.04.26


(Dr.V.Pream Sudha)
BoS Chairman/HoD
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