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)
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BoS

11th

Board of Studies Meeting

Department of Computer Science with Data Analytics

Date : 05.11.2024, 11.30 am at AV Hall (A1 218).

Members Present:

S.No.	Name	Category
1.	Dr. V. Pream Sudha	Chairman
2.	Dr. J. Satheeshkumar Associate Professor Department of Computer Applications Bharathiar University	University Nominee
3.	Ms.Jennifer Xavier Analytics Manager Loyalytics Consulting Bengaluru	Industry Expert (online)
4.	Mr. A. M. Sabarish	Alumni
5.	Dr. A.C. Sountharraj	Member
6.	Dr.R. Suganthi	Member
7.	Ms. C. Karpagam	Member
8.	Mrs. S. Shenbaha	Member
9.	Mrs.R.Ranjani	Member
10.	Ms.S.Govardhini	Member
11.	Mr.C.Anbarasan	Member
12.	Dr. V.Sangeetha	Member
13.	Mr.Prem Kumar.S	Member
14.	Ms. A. Roselin	Member
15.	Dr. R. Sowrirajan	Co-opted Member
16.	Dr. Hazel Verbina	Co-opted Member
17.	Dr. N. Kuppuchamy D	Co-opted Member
18.	Ms.Indra ((232DA009)	Student Representative- PG

The HoD and Chairman of the department of CS with Data Analytics 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. Malar B - Subject Expert
2. Dr. S. Bharathidason - Subject Expert

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

Item 11.1

To review and approve the minutes of the previous meeting held on 02.04.2024.

The chairman of the Board presented the minutes of the previous meeting held on **02.04.2024** 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 02.04.2024.

Item 11.2: *To consider and approve the scheme, regulation and syllabi for II semester for the students admitted during the academic year 2024-25.*

The chairman presented the detailed scheme and syllabus for the II semester for the students admitted from the academic year 2024-25 onwards. *The members deliberated in detail and approved the syllabus with the following changes.*

Changes Made:

M.Sc. Computer Science with Data Analytics : 1

M.Sc. Computer Science with Data Analytics		
Course Code	**Course**	**Reason**
24DAP2CA	Core: Artificial Intelligence	Mrs.Jennifer Xavier suggested to add Generative AI and Reinforcement Learning in Unit V to gain a competitive edge in the job market

New Courses Introduced:

M.Sc. Computer Science with Data Analytics : 2

M.Sc. Computer Science with Data Analytics		
Course Code	**Course**	**Reason**
24DAP2CD	Core: Advanced Database Management Systems	To provide a comprehensive understanding of column, document, graph databases to handle the complex data and design applications
24DAP2CQ	Core Practical: Advanced Database Management Systems	To provide skills in managing complex data using NoSQL, in-memory databases and parallel processing systems.

Courses Removed:

M.Sc. Computer Science with Data Analytics: 2

M.Sc. Computer Science with Data Analytics		
Course Code	**Course**	**Reason**
234DA2A2EC	EDC: Digital Marketing Analytics	Introduced Mathematical Foundations of Data Science which is highly relevant for analytics.
234DA2A2CQ	Core Practical: Data Mining	Data Mining Algorithms and Techniques are incorporated in R for Data Analytics Lab

EDC Offered

Course Code	Course	Department
24DAP2EA	Business Analytics	M.Com, M.Com IB, M.Com CA, M.Com CS
24DAP2EB	Foundations of Data Analytics	M.Sc. Mathematics

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

Resolution:

Resolved to approve the syllabus for the II semester for the students admitted from the academic year 2024-25 onwards.

Item 11.3 : To consider and approve the changes, if any, in the syllabi for IV semester for the students admitted during the academic year 2023-24.

The Chairman presented the detailed syllabus for the IV semester for the students admitted from the academic year 2023-24 onwards. *The members deliberated in detail and approved the syllabus with the following changes.*

IDC Offered

Course Code	Course	Department
234DA1A4IA	Introduction to Data Science	B.Sc. Mathematics

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 2023-24 onwards.

Item 11.4 :*To consider and approve the changes, if any, in the syllabi for VI semester for the students admitted during the academic year 2022-23.*

The Chairman presented the detailed syllabus for the VI semester for the students admitted from the academic year 2022-23 onwards. *The members deliberated in detail and approved the syllabus with the following changes.*

Changes Made: 2

B.Sc. Computer Science with Data Analytics		
Course Code	**Course**	**Reason**
224DA1A6DA	DSE: Principles of Internet of Things	Dr. J. Satheesh Kumar suggested to include domain specific applications of IoT in Unit V to gain knowledge about the various real-world utility of IoT. The board suggested to rename the course title "Internet of Things" to "Principles of Internet of Things"
224DA1A6CB	Core: Principles of Machine Learning	Ms. Jeniffer Xavier suggested to include the concepts of Quantum computing to solve complex problems faster than classical methods. The board suggested to rename the title "Machine Learning" to "Principles of "Machine Learning"

New Courses Introduced:3

B.Sc. Computer Science with Data Analytics		
Course Code	**Course**	**Reason**
224DA1A6CA	Core: Next Generation Databases	To provide students with the expertise to design, implement scalable and secure databases enabling industry readiness
224DA1A6DB	DSE: Foundations of Deep Learning	To impart a comprehensive understanding of algorithms and architectures in deep learning to align with industry demands. Experts suggested to rename the course title "Deep Learning" to "Foundations of Deep Learning".
224DA1A6DD	DSE: Edge computing and Analytics	To equip students with the skills for edge, cloud and hybrid environments. Experts suggested to rename the course title "Edge computing "to "Edge computing and Analytics".

Courses Removed: 2

B.Sc. Computer Science with Data Analytics		
Course	**Code**	**Reason**
204DA1A6DC	DSE: Human Computer Interaction	To enhance the focus on analytics, Human Computer Interaction has been replaced with the advanced course "Deep Learning"
194DA1A6DF	DSE: Predictive Analytics	The concepts and methodologies of predictive analytics are included in the course Machine Learning

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

Resolution:

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

Item 11.5 : *To consider and approve the courses offered by NPTEL that are equivalent to courses offered in the curriculum in the III and V semester.*

The board discussed the courses offered by NPTEL that are equivalent to the courses offered in our curriculum in the III semester for the UG, PG students admitted for the academic year 2024-25 and V semester for the students admitted for the academic year 2023-24.

Resolution:

Resolved to approve the courses that are equivalent to courses offered by NPTEL in the curriculum.

Item 11.6: *To consider and approve the self-study course offered in III semester for the students admitted in UG, PG from academic year 2024-25 onwards.*

The board discussed and approve the existing self-study courses offered in III semester for the students admitted in UG, PG from academic year 2024-25 onwards.

Resolution:

Resolved to approve the self-study course offered in III semester for the students admitted in UG, PG from academic year 2024-25 onwards.

Item 11.7: *To approve the panel of examiners for question paper setting and evaluation of answer scripts for the even semester during the academic year 2024-2025.*

The Chairman presented the panel of examiners for question paper setting, question paper scrutiny and conduct of practical and theory of examination are submitted to CoE for exam related work.

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 2024-2025.

Item 11.8: 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. V. Pream Sudha, Head and Chairman- Computer Science with Data Analytics BoS.

Date : 05.11.2024

Signature

Syllabus Revision

Faculty: Computer Science with Data Analytics Board: CSDA

Programme: PG **Semester: II**

Course Code/ Name: 24DAP2CA – Core: Artificial Intelligence

Unit	Existing	Changes
1	Intelligent Agents and Search Strategies Foundations of Artificial Intelligence - Intelligent Agents: Agents and Environments- Structure of Agents – Problem Solving: Problem Solving Agents- Problem Formulation - Uninformed Search Strategies: Breadth-First Search – Depth-First Search – Depth-Limited Search – Iterative Deepening Depth-First Search – Bidirectional Search - Comparing Uninformed Search Strategies- Case Study on Intelligent Agents	
2	Heuristic and Classical Search Greedy Best-First Search – A * Search – Memory-Bounded Heuristic Search – Heuristic Functions – Local Search Algorithms – Hill Climbing Search – Simulated Annealing – Genetic Algorithms – Online Search Agents and Unknown Environments: Online Search Problems - Online Search Agents - Online Local Search –Learning in Online Search- Case Study on Online Search Agents	
3	Constraint Satisfaction Problems Introduction: Constraint Satisfaction Problems (CSP): Backtracking search for CSP-Local Search for CSP - Structure of Problems - Adversarial Search: Introduction – Games – Optimal Decision in Games - The Min Max Algorithm – Alpha–Beta Pruning – Games that Include an Element of Chance: Card Games- Case Study on Optimal Decision in Games	
4	Knowledge Representation and Reasoning Knowledge Based Agents – Logic – Propositional Logic: Syntax – Semantics – A simple knowledge base – Inference – Equivalence, Validity and Satisfiability –Reasoning Patterns in Propositional Logic: Resolution – Forward and Backward Chaining - First Order Logic: Syntax and Semantics of First Order Logic – Using First Order Logic - Case Study on Knowledge Based Agents	
5	~~Applications of Analytics and AI~~ ~~Exponential Technologies Underpinned by Analytics and AI: Beating Cyberattacks with Analytics-Connected Car Technology Reshaping Automotive Industry-IoT Analytics: Extracting Value and Transforming Business- Cryptocurrency Analytics: Deep Insights into the new Asset Class -Chatbots: The Protege of AI and Analytics- Case Study on Artificial Intelligence in Tesla~~	Reinforcement Learning, Generative AI Reinforcement Learning: Introduction, Passive Reinforcement Learning, Active Reinforcement Learning, Applications -Generative AI: Key Generative AI Models, Use Cases – Prompt Engineering: Need, Types, Applications- Addressing AI Ethics and Bias, Challenges

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUSES ON: Skill Development

Syllabus Revision

Faculty: Computer Science with Data Analytics Board: CSDA

Programme: PG **Semester: II**

Course Code/ Name: 24DAP2CD - Core: Advanced Database Management Systems

Unit	Course Contents
I	Parallel and Distributed Systems: Centralized Database Systems - Server system architectures - Parallel systems - Distributed Systems - Transaction Processing in Parallel and Distributed Systems - Cloud-Based Services - Data Partitioning - Dealing with Skew in Partitioning - Replication - Parallel Indexing - Distributed File Systems
II	Parallel and Distributed Query Processing: Parallel Sort - Parallel Join - Other Operations - Parallel Evaluation of Query Plans - Query Processing on Shared - Memory Architectures - Query Optimization for Parallel Execution - Parallel Processing of Streaming Data - Distributed Query Processing - Distributed Transactions
III	MongoDB: Concepts of NoSQL database - Types of NoSQL database - MongoDB: Features, Architecture, difference from other databases, core concepts, collections, documents -Storage engines: Types, In-memory storage engine, Comparison - Locks: Types, Operations - Administering MongoDB - Shell methods: Connection, Database, Collection methods - Data types
IV	MongoDB operations: MongoDB CRUD operations- Intermediate concepts: Atomicity, Consistency - Distributed operations and queries – MongoDB Indexes: Benefits, Creation, Types, Properties - Query selectors - Projection operators - Aggregation - MongoDB Compass - Replication: Replica sets, Heartbeats - Sharding: Sharded Clusters, Shard Key
V	Specialty Databases: Object based Databases – Complex Data Types-Object Relational Mapping-XML: Structure of XML Data - Querying and Transformation- Application Programming Interface-Storage - XML applications-Spatial and Temporal Data Mobility: Time in databases - Spatial and Geographic Data- Multimedia Databases

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON: Skill Development

Syllabus Revision

Faculty: Computer Science with Data Analytics Board: CSDA

Programme: PG **Semester: II**

Course Code/ Name: 24DAP2CQ- Core Practical: Advanced Database Management Systems

S.No	List of Experiments
1	Demonstrate parallel processing of aggregation, filter, sort, joins
2	Demonstrate vertical, horizontal partitioning of a table
3	Implement CRUD operations in MongoDB
4	Demonstrate indexing and sorting in MongoDB
5	Demonstrate Aggregation pipelines in MongoDB
6	Demonstrate filtering using Query Selectors
7	Demonstrate transformations in MongoDB
8	Demonstrate spatial data processing in MongoDB
9	Demonstrate multimedia data processing in MongoDB
10	Create and query Time series collections in MongoDB

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON: Skill Development

Syllabus Revision

Faculty: Computer Science with Data Analytics Board: CSDA

Programme: UG **Semester: VI**

Course Code/ Name: 224DA1A6CA - Core: Next Generation Databases

Unit	Course Contents
I	Introduction Database revolutions: First, second and third generation - Big Data Revolution - Scaling web 2.0 : Sharding, CAP Theorem - Databases of Future: Consistent Models, Schema, Database Languages, Storage, Data Format: JSON, BSON - Convergent Databases - Disruptive Database Technologies - NoSQL databases- NoSQL APIs
II	Document and Graph Databases Document databases : Introduction - XML and XML Databases : XML Tools and Standards, XML Databases- JSON Document Databases: JSON and Ajax - JSON Databases-Data Models in Document Databases - MemBase and CouchBase -Graph Databases: Introduction - RDBMS patterns for Graphs -Property Graphs and Neo4j - Gremlin - Graph Database Internals -Graph Compute Engines
III	Column and Key-Value Databases Introduction – Data Warehousing Schemas- The Columnar Alternative- Column Database Architectures- In-Memory Databases - Distributed Database Patterns: Distributed Relational Databases- Non-Relational Distributed Databases - Cassandra - HBase- Amazon Dynamo
IV	MongoDB Introduction to MongoDB: Need for MongoDB - MongoDB Vs Relational Database Management Systems – MognoDB Sharding and Replication - Data Types – MongoDB Query Language - Getting Data into MongoDB – Database Operations: Create – Update – Read – Delete – Querying
V	Advanced MongoDB Indexing - Aggregation – Introduction to Map-Reduce Programming: Mapper - Reducer-Combiner – Partitioner - Searching – Sorting – Compression – Sharding-Comparing Relational databases with NoSQL stores

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

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

Syllabus Revision

Faculty: Computer Science with Data Analytics Board: CSDA

Programme: UG **Semester: VI**

Course Code/ Name: 224DA1A6CB – Core: Principles of Machine Learning

Unit	Existing	Changes
1	Introduction to Machine Learning Introduction - Types of Machine Learning: Supervised, Unsupervised and Reinforcement - Applications of Machine Learning – Machine Learning Activities- Basic Types of Data in Machine Learning – Exploring Structure of Data- Data quality and Remediation– Data Pre-Processing	Quantum Computing: Need - States of a Quantum system, Measurement, Operations
2	Feature Engineering, Modeling and Evaluation Introduction to Feature Engineering – Feature Transformation – Feature Subset Selection - Selecting a model – Training a model : Hold Out method – K fold Cross validation Method – Model Representation and Interpretability – Evaluating Performance of the model – Improving Model Performance	
3	Supervised Learning : Classification, Regression Introduction to Supervised learning – Classification Model – Classification learning steps: k – nearest neighbour – Decision Trees –Random Forest Model – Support Vector Machines- Regression: Introduction - Simple Linear Regression, Multiple linear Regression, Logistic Regression	
4	Unsupervised Learning : Clustering, Association Rules Introduction – Supervised Vs Unsupervised learning- Applications of Unsupervised learning – Clustering: Types of Clustering – Partitioning methods- K-Medoids – Hierarchical clustering – DBSCAN –Finding patterns using Association rule : Association rule - Apriori algorithm	
5	~~Deep Learning~~ ~~Introduction – Exploring the Artificial Neuron – Types of Activation Functions – Architectures of Neural Networks – Learning Process in ANN – Backpropagation – Deep learning: Shortcomings of Feature Selection – Vanilla Deep neural network issues – Filters and Feature maps – Convolutional layer~~	Neural Networks Introduction – Applications –Neural Model : Single-Input – Transfer Functions – Multiple Input Neuron - Network Architecture – Layers of Neuron – Perceptron: Hamming Network : Feed forward Layer – Recurrent Layer – Hopfield Network - Perceptron Learning Rule – CNN, RNN

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUSES ON:

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

Syllabus Revision

Faculty: Computer Science with Data Analytics Board: CSDA

Programme: UG **Semester: VI**

Course Code/ Name: – 224DA1A6DA-DSE: Principles of Internet of Things

Unit	Existing	Changes
1	Introduction Introduction of IoT -Genesis of IoT -IoT and Digitization - IoT Impact - Convergence of IT and OT - IoT Challenges - IoT Network Architecture and Design - Scale - Security - Constrained Devices and Networks - Data - Legacy Device Support	
2	Architectures IoT Architectures: one M2M(Machine to Machine) IoT Standardized Architecture -IoT World Forum (IoTWF) Standardized Architecture - Core IoT Functional Stack -IoT Network management Sub layer - IoT Data Management and Functional Stack - Fog computing - Edge Computing	
3	Smart Objects in IoT Sensors - Actuators - Smart Objects: Definition - Trends in Smart Objects – Sensor Network: Wireless Sensor Networks. Connecting smart objects: Communications Criteria - Range - Frequency - Power Consumption- Topology – Constrained Devices - Constrained Node Networks - Data rate, Throughput, Latency	
4	Data Analytics for IoT and Security Introduction: Structured Versus Unstructured Data - Data in Motion Versus Data at Rest - IoT Data Analytics - IoT Data Analytics Challenges - Security : Security Frameworks for IoT - Privacy in IoT networks - IoT Characteristics and reliability -Addressing reliability	
5	Applications Introduction : Sensors -Gateway - The Gateway: Hardware - Software - Internet of Vehicles(IoV) : Basics of IoV - Characteristics and Challenges - ~~Enabling Technologies - Cloud Based Smart facilities and Management - Architecture for smart facility management~~	Domain Specific IoTs – Home, City, Environment, Energy, Retail, Logistics, Agriculture, Industry, health and Lifestyle - Case Study

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUSES ON:

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

Syllabus Revision

Faculty: Computer Science with Data Analytics **Board: CSDA**

Programme: UG **Semester: VI**

Course Code/ Name: 224DA1A6DB - DSE: Foundations of Deep Learning

Unit	Course Contents
I	An Introduction to Neural Networks Introduction - Single Computational Layer - The Base Components of Neural Architectures - The Importance of Nonlinearity - Advanced Architectures and Structured Data - Backpropagation in Computational Graphs - Backpropagation in Neural Networks - The Vector-Centric View of Backpropagation - Tuning and Preprocessing
II	Regularization and Optimization Parameter Norm Penalties - Norm Penalties as Constrained Optimization - Regularization and Under-Constrained Problems - Dataset Augmentation - Noise Robustness - Early Stopping - Dropout - Optimization: How Learning Differs from Pure Optimization - Challenges in Neural Network Optimization
III	Convolutional Neural Networks Introduction- The Basic Structure of a Convolutional Network: Padding - Strides - The ReLU Layer - Pooling - Fully Connected Layers - The Interleaving between Layers - Hierarchical Feature Engineering - Training a Convolutional Network - Backpropagating Through Convolutions - Convolution/Backpropagation as Matrix Multiplications - Data Augmentation - Case study
IV	Recurrent Neural Networks Introduction - The Architecture of Recurrent Neural Networks - Language Modeling Example of RNN - Backpropagation Through Time - Bidirectional Recurrent Networks - Multilayer Recurrent Networks - Echo-State Networks - Long Short-Term Memory (LSTM) - Gated Recurrent Units (GRUs)
V	Graph Neural Networks Introduction: The General Framework -The Neighborhood Function - Graph Convolution Function - Graph SAGE- Handling Edge Weights - Handling New Vertices - Handling Relational Networks - Directed Graphs - Gated Graph Neural Networks - Comparison with Image Convolutional Networks - Back propagation in Graph Neural Networks

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
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Syllabus Revision

Faculty: Computer Science with Data Analytics **Board: CSDA**

Programme: UG **Semester: VI**

Course Code/ Name: 224DA1A6DD – DSE: Edge Computing and Analytics

Unit	Course Contents
I	Edge Computing Edge Computing Definition: Introduction to Edge Computing Scenario - Edge computing purpose and definition - Edge computing use cases- Hardware architectures- Platforms-Edge vs Fog Computing - Communication Models - Edge, Fog and M2M.
II	Edge computing essentials Introduction - Edge Devices- Edge Server Cluster- Cloud Server - Background Essentials: IoT Devices- Mobile Phone-Based Sensors- Medical Sensors- Neural Sensors- Environmental and Chemical Sensor- Edge Computing Simulators- Edge Cloud Sim
III	Edge Data Analytics Types of Data Analytics - Edge Data Analytics- Machine Learning-Model Building - Performance Evaluation -Potential of Edge Analytics- Machine Learning for Edge Devices- Edge Analytics: Case Study
IV	Edge Data security Data Security - Data Confidentiality- Identity-Based Encryption- Attribute-Based Encryption- Authentication- Single-Domain Authentication- Cross-Domain Authentication- Handover Authentication. Privacy-Preserving Schemes: Data Privacy- Location Privacy- Identity Privacy- Edge-Based Attack Detection and Prevention.
V	Edge to Cloud interfacing Implementation of Microcomputer and device Interfacing- Edge to Cloud Protocols - MQTT: Overview - publish - subscribe- Architecture details - state transitions- packet structure- data types - communication formats - MQTT 3.1.1 working example - Industrial, Commercial IoT and Edge - Edge computing and solutions

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
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Faculty of Computer Science
Department of Computer Science with Data Analytics
11th Board of Studies Meeting

Venue: AV Hall (A1-218) Date: 05.11.24 Time: 11.30A.M

S.No.	Name and Designation of the Member	Position	Signature
1.	Dr. V. Pream Sudha HoD I/C Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Chairman	
2.	Dr. J. Satheeshkumar Associate Professor Department of Computer Applications Bharathiar University Coimbatore	Member (Subject Expert) Nominated by Vice Chancellor	5/11/24
3.	Dr. Malar B Professor Department of Applied Mathematics and Computational Sciences PSG College of Technology Coimbatore	Member (Subject Expert) Nominated by Academic Council	ABSENT
4.	Dr. S. Bharathidason Professor & Head Department of Computer Science Loyola College Chennai	Member (Subject Expert) Nominated by Academic Council	ABSENT
5.	Ms.Jennifer Xavier Analytics Manager Loyalytics Consulting, Kalyan Nagar, Bengaluru-560043, Karnataka, India	Member (Industrial Expert)	ONLINE
6.	Mr. A. M. Sabarish Associate Data Engineer Cloud Destination, Coimbatore	Alumni	
7.	Dr. N. Kuppuchamy HoD Department of Tamil Dr. N.G.P. Arts and Science College, Coimbatore	Co-opted Member (Tamil)	05/11/24

8.	Dr.A.Hazel Verbina HoD Department of English Dr. N.G.P. Arts and Science College, Coimbatore	Co-opted Member (English)	
9.	Dr. R. Sowrirajan HoD Department of Mathematics Dr. N.G.P. Arts and Science College, Coimbatore	Co-opted Member (Mathematics)	
10.	Dr.D.Parasakthi HoD Department of Commerce Dr. N.G.P. Arts and Science College, Coimbatore	Co-opted Member (Commerce)	
11.	Indra S (232DA009) II M.Sc. CSDA	Student Representative	
12.	Dr. A C Sountharraj Department of CS with Data Analytics Dr. N.G.P. Arts and Science College, Coimbatore	Member	
13.	Dr.R. Suganthi Department of CS with Data Analytics Dr. N.G.P. Arts and Science College, Coimbatore	Member	
14.	Dr.V.Sangeetha Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	
15.	Ms. C. Karpagam Department of CS with Data Analytics Dr. N.G.P. Arts and Science College, Coimbatore	Member	
16.	Mr. S.Prem Kumar Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	
17.	Mrs. S. Shenbaha Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	
18.	Mrs.R.Ranjani Department of CS with Data Analytics Dr. N.G.P. Arts and Science College, Coimbatore	Member	

19.	Ms.S.Govardhini Department of CS with Data Analytics Dr. N.G.P. Arts and Science College, Coimbatore	Member	
20.	Mr.C.Anbarasan Department of CS with Data Analytics Dr. N.G.P. Arts and Science College, Coimbatore	Member	
21.	Ms. A. Roselin Department of CS with Data Analytics Dr. N.G.P. Arts and Science College Coimbatore	Member	

Date : 5/11/2024

(Dr.V.Pream Sudha)

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

Academic Council
CHAIRMAN
Dr.N.G.P. Arts and Science College