Department of Artificial Intelligence and Machine Learning

Board of Studies Meeting

The minutes of the 6th meeting of Board of Studies held on 08.11.2024 at 11.30 a.m. at A1 Block -307.

Members Present:

S. No.	Name	Category
1	Dr. S. Saranya	Chairman
2	Dr. M. Punithavalli Professor Bharathiar University Coimbatore	VC Nominee
3	Dr. C. Kavitha Assistant Professor PSG College of Technology Coimbatore	Subject Expert
4	Dr. J. J. Adri Jovin Professor & COE Sri Ramakrishna Institute of Technology Coimbatore	Subject Expert
5	Mr. K. Anandakumar IoT Specialist Robert Bosch and Business Solutions Coimbatore	Industrial 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. N. Sathya	Member
10	Dr. P. Deepika	Member
11	Mrs. P. Shanthi	Member
12	Mrs. T. Hashni	Member
13	Ms. J. Vinitha	Member
14	Mr. A. S Hari Hara Sudan	Alumni
15	Ms. J. Sandra	Student Representative

The HoD and Chairman of the Department of Artificial Intelligence and Machine Learning 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.

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

Item 6.1: *To review and approve the minutes of the previous meeting held on* **04-04-2024.**

The chairman of the board presented the minutes of the previous meeting held on **04-04-2024** 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 04-04-2024.

Item 6.2: *To consider and approve the scheme, regulation and syllabi for II semester for the students admitted during the academic year 2024-2025.*

The chairman presented the detailed Scheme and Regulation for the students admitted from the academic year 2024-2025 and syllabi for the II semester.

After discussion the following resolution was passed.

Resolution:

Resolved to retain the existing syllabus of 2023-2024 batch without any modification for the students admitted during the academic year 2024-2025.

Item 6.3: *To consider and approve the syllabi for IV semester for the students admitted during the academic year 2023-2024.*

The Chairman presented the detailed syllabi for the IV semester for the students admitted during the academic year 2023-2024. The members deliberated in detail and unanimously decided to adopt the syllabi with the following changes.

Changes Made: -

Course Code	Course	Change & Reason
234AI1A4CB	Core VIII: Design and Analysis of Algorithms	Dr. C. Kavitha recommended to add "Coin-row Problem, Change-making Problem, Coin-collecting Problem" in Unit III to enrich problem solving skills to design efficient algorithms.

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

Resolution:

Resolved to approve the syllabus with the modifications adopted for the students admitted from the academic year 2023-2024.

Item 6.4: *To consider and approve the syllabi for VI semester for the students admitted during the academic year 2022-2023.*

The Chairman presented the detailed syllabi for the VI semester for the students admitted from the academic year 2022-2023. The members deliberated in detail and unanimously decided to adopt the syllabi.

Changes Made:

Course Code	Course	Change & Reason
224AI1A6SP	SEC Practical IV: NLP Using Python	Dr. M. Punithavalli recommended to incorporate programs on "Text Normalization, Part-of-Speech (POS) Tagging, Relation Extraction Algorithm, Topic Modeling" to foster innovative skills within real-world NLP applications in this rapidly evolving industry. The board suggested to change the course title as "Natural Language Processing using Python".
224AI1A6DB	DSE II: IoT and its Applications	The board suggested to change the course title as "Internet of Things and Smart Systems".

New Courses Introduced:

Course Code	Course	Change & Reason
224AI1A6CB	Core XIII: Cyber Security Essentials	To impart the fundamental knowledge of Cybersecurity and to apply security features in real-world applications.
224AI1A6DA	DSE II: Deep Learning Techniques	To enhance understanding of deep learning concepts for designing models that solve complex tasks effectively
224AI1A6DC	DSE II: Service Oriented Architecture	To impart knowledge on integrating diverse technologies and designing scalable systems that adapt to evolving business requirements
224AI1A6DD	DSE III: Fuzzy Logic and Neural Networks	To equip a comprehensive understanding of Fuzzy logic concepts and Neural Network techniques to design intelligent computational models.

224AI1A6DE	DSE III: Principles of Robotics	To provide a thorough understanding of designing and programming robotic systems to support real-world problems.
224AI1A6DF	DSE III: UI/UX Design	To inculcate knowledge of User Interface concept to design effective user interactive interface system. The board suggested to change the course title as "UI and UX Design".

Courses Removed: -

Course Code	Course	Change & Reason
214AI1A6DA	DSE II: Augmented Reality and Virtual Reality	The concepts and methodologies of Augmented Reality and Virtual Reality are included in the course Human Computer Interaction offered in Semester V.
214AI1A6DC	DSE II: Mobile and Pervasive Computing	The fundamental concept of Mobile and Pervasive Computing has been replaced with Internet of Things and its Applications to emphasize interconnected devices, expanding beyond mobile access to encompass a broad network of smart and autonomous systems.
214AI1A6DD	DSE III: Pattern and Anomaly Detection	Pattern and Anomaly Detection concepts are integrated into Deep Learning Techniques to strengthen analytics.
214AI1A6DE	DSE III: Computational Intelligence	The core concept of Computational Intelligence is included in the Foundations of Artificial Intelligence offered in Semester IV, Machine Learning and Deep Learning Techniques courses offered in Semester VI.
214AI1A6DF	DSE III: Wireless Networks	The concept of Wireless Networks has been incorporated in Computer Networks and Communications offered in Semester V.

After discussion the following resolution was passed.

Resolution:

Resolved to approve the syllabus with the modifications adopted for the students admitted from the academic year 2022-2023.

Item 6.5: *To consider and approve the courses offered by NPTEL that are equivalent to courses offered in our 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 students admitted for the academic year 2024-2025 and V semester for the students admitted for the academic year 2023-2024.

Resolution:

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

Item 6.6: *To consider and approve the self-study course offered in III semester for the students admitted in UG from academic year 2024-2025 onwards.*

The board discussed and approve the existing self-study courses offered in III semester for the students admitted in UG from academic year 2024-2025 onwards.

Resolution:

Resolved to approve the self-study course offered in III semester for the students admitted in UG from academic year 2024-2025 onwards.

Item 6.7: *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 6.8: To consider and approve any other item brought forward by the Chairman and the members of the board.

The board suggested to incorporate laboratory components for elective courses in future and impart the concept of Explainable AI and Generative AI to suit the current need of Industry.

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. S. Saranya, Chairman- Department of Artificial Intelligence and Machine Learning.

Date: 08.11.2024

Chairman 8/11/24

Dr. S SARANYA, M.Sc., M.C.A., M.Phil., Ph.D.
Assistant Professor & Head (I/c)
Dept. of Artificial Intelligence and Machine Learning
Dr. N.G.P. Arts and Science College (Autonomous)
Coimbatore - 641048.

Syllabus Revision

Faculty: Computer Science **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 234AI1A4CB - Design and Analysis of Algorithms **Semester: IV**

S. No.	Existing	Changes
1	Fundamentals of Algorithms: Notion of an Algorithm - Algorithmic Problem Solving - Problem Types - Analysis of Algorithm Efficiency - Analysis Framework - Empirical Analysis of Algorithms - Algorithm Visualization.	-
2	Brute Force and Divide and Conquer Techniques: Exhaustive Search - Traveling Salesman Problem - Knapsack Problem - Assignment problem - Divide and Conquer - Binary Tree Traversal - Strassen's Matrix Multiplication.	-
3	Dynamic Programming and Greedy Techniques: Knapsack problem and Memory functions - Warshall's and Floyd's Algorithm - Optimal Binary Search Trees - Greedy Technique: Prim's algorithm - Kruskal's Algorithm.	Coin-row problem - Change-making problem - Coin-collecting problem
4	Backtracking and Branch and Bound Methods: n-Queens problem - Hamiltonian Circuit Problem - Subset Sum Problem - Branch and Bound: Assignment problem - Knapsack Problem - Traveling Salesman Problem.	-
5	P, NP, and NP-Complete Problems: Approximation algorithms for NP-hard problems: Traveling Salesman problem - Knapsack problem.	-

PERCENTAGE OF SYLLABUS REVISED: 10 %

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 **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 224AI1A6SP - Natural Language Processing using Python

Semester: VI

S. No.	Existing	Changes
1	Program to Tokenize text in NLTK.	-
2	Program to Remove the Stop words in NLTK.	-
3	Program to perform Lemmatization.	-
4	Implement Stemming words.	-
5	Implement Word similarity in NLP.	-
6	Program to implement Entity extraction algorithm.	-
7	Demonstrate Sentiment Analysis in NLTK.	-
8	Program to create a text and convert it into Speech using functions.	-
9	Demonstrate Speech to text API.	-
10	Implement a simple Chatbot using NLTK.	-
11	Implement the Cloud NLP API in Google Cloud.	-
12	Program to filter the email in spam folder.	-
13		Implement Text Normalization.
14		Program to perform Part-of-Speech (POS) Tagging in NLP.
15		Demonstrate Relation extraction algorithm.
16		Implement Topic Modeling in NLP.

PERCENTAGE OF SYLLABUS REVISED: 25 %

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 **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 224AI1A6CB - Cybersecurity Essentials **Semester: VI**

Unit	Course Content
I	Cyber Space and Cybersecurity: Introduction - Standards and Best Practices - Standards for Information Security - ISO IEC 27000 - National Institute of Standards and Technology (NIST) Cybersecurity Framework - NIST Security Documents - Security Controls for Effective Cyber Defense - COVID5 for Information Security.
II	Information Security: Critical National Infrastructure - Confidentiality - Integrity - Availability Triad - Defensive Lifecycle - Intrusion and its types - Intrusion Detection System (IDS) - Characteristics - Types of Intrusion Detection System: Host based IDS, Network Based IDS - Intrusion Detection and Prevention Principles.
III	Cybercrime Source Identification Techniques: Cyber Forensic - Intrusion activities - Attribution and Traceback - Attribution Difficulty - Assumptions - IP address and Traceback mechanism - Classification of Traceback Schemes - Evaluation of IP Traceback Schemes - Active Response Characteristics - Sleepy Watermark Tracing.
IV	Stepping Stone Detection System: Accountability - Stepping Stones - Timing Based Stepping Stone Detection Approach - Brute Force Content Based Algorithm - Simple Content Based Algorithm - Anomaly Detection Techniques.
V	Infrastructural Vulnerabilities: Flooding Attacks: Commercial-Off-The-Shell (COTS) Software and Internet Security - Shortfalls in Internet Structure - Cooperative Intrusion Traceback and Response Architecture - Distributed Denial of Service (DDoS) Flooding Attacks - DDoS Attacks on OSI Layers - Cyberwar.

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 **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 224AI1A6DA – Deep Learning Techniques **Semester: VI**

Unit	Course Content
I	Machine Learning: Introduction- Traditional Computer Programming-Types of Machine Learning-Process of Machine Learning-Evaluating the model- Model Representation and Interpretability-Concept of Loss Functions-Limitation of Machine Learning.
II	Fundamentals of Neural Network: Biological Neuron-Exploring the Artificial Neuron-Implementation of Artificial Neural Network (ANN)-Types of Activation Functions-Architectures of Neural Network: Single Layer Feed Forward Network, Multi-layer Feed Forward ANN, Recurrent Network, Convolutional Network-Learning Process in ANN- Deep Neural Network.
III	Training Deep Neural Network: Deep L-Layer Neural Network-Notion of Forward and Backward Propagation-Initializing weights in Neural Network- Optimization Algorithms-Regularization-Normalization of Inputs.
IV	Convolutional Neural Network: Building blocks of Convolutional Neural Network (CNN): Kernel-Image Convolution- Pooling-Hood of CNN - Comparing CNN with traditional ANN - CNN Architectures: LeNet5, AlexNet, VGG16, ResNet - Object detection.
V	Sequence Based Models: Sequence of data - Types of tasks in sequence - Recurrent Neural Network (RNN) -Data preparation for RNN - Vanishing Gradient Problem and RNN - Long short-term Memory - Gated Recurrent Units – Bi-directional models - Languages Modelling and Sequence models - Case Study.

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 **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 224AI1A6DC – Service Oriented Architecture **Semester: VI**

Unit	Course Content
I	Service Oriented Architecture (SOA): Service Orientation - Evolution of SOA -Drivers for SOA – Dimensions - Key Components – Perspectives - Enterprise-Wide SOA: Considerations - Strawman Architecture - Enterprise SOA Layers - Application Development Process - SOA Methodology
II	Enterprise Applications: Architectural Considerations- Architecture for enterprise Applications- Software Platforms: Packaged Application - Enterprise Application: Application Server - Java Platform Enterprise Edition - .NET Application Platform.
III	Analysis and Design: Service Oriented Enterprise Applications: Pattern - Pattern Based Architecture - Composite Applications - SOA Programming Models - Service oriented Analysis and Design: Models - Principles of Service Design - Design of Activity Services - Design of Data Services - Design of Client Services - Design of Business Process Services.
IV	Technologies and SOA Governance: SOA Technologies: Service Enablement - Service Integration - Service Orchestration - SOA Governance: Strategic Architecture - Development of Services - SOA Security - Implementation: Enterprise Strategy - TO-BE Strategy - SOA Development - SOA Deployment and Monitoring.
V	Cloud with SOA: Introduction: Cloud Computing Paradigm-Types of Cloud Technologies- Opportunities- Cloud Service Providers- SOA with Cloud Services: Enablement Services - Implementation of SOA with Enterprise and Cloud Services.

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 **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 224AI1A6DD – Fuzzy Logic and Neural Networks **Semester: VI**

Unit	Course Content
I	Fuzzy set Theory: Introduction - Fuzzy versus Crisp - Crisp Sets – Operations – Properties - Partition and Covering- Fuzzy Sets: Membership Functions- Operations- Properties- Crisp Relations - Fuzzy Relations.
II	Fuzzy Systems: Crisp Logic - Predicate Logic - Fuzzy Logic: Quantifiers – Inference - Fuzzy Rule Based System - Defuzzification Methods - Applications.
III	Back Propagation and Recurrent Networks: Multi-layer Feed Forward Networks- Generalized Delta Rule- Working with Back Propagation- Activation Functions- Deficiencies of Back Propagation- Advanced Algorithms- Applications- Recurrent Networks: Generalised Delta Rule in Recurrent Networks - Hopfield Network- Boltzmann Machines.
IV	Self-Organizing Maps: Competitive Learning: Clustering- Vector Quantisation- Counter Propagation- Learning Vector Quantisation- Kohonen Network- Principal Component Networks: Normalized Hebbian Rule- Principal Component Extractor- Eigenvectors- Adaptive Resonance Theory.
V	Reinforcement Learning: Introduction: Controller Network- Barto's Approach: Associative Search- Adaptive Critic- Cart Pole System- Reinforcement Learning versus Optimal Control- Neural Network Applications.

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
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Syllabus Revision

Faculty: Computer Science **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 224AI1A6DE – Principles of Robotics **Semester: VI**

Unit	Course Content
I	Robotics: Introduction: Robots- Robot Usage- Industrial Robots: Robot Subsystem- Motion Subsystem- Recognition Subsystem- Control Subsystem- Classification of Robots- Industrial Applications.
II	Actuators and Grippers: Actuators: Electric Actuators, Hydraulic Actuators, Pneumatic Actuators- Selection of Motors- Grippers: Mechanical Grippers, Magnetic Grippers, Vacuum Grippers, Adhesive Grippers, Selection of Grippers.
III	Sensors, Vision and Signal Conditioning: Sensor Classification- Internal Sensors: Position Sensor, Velocity Sensor, Acceleration Sensor, Force Sensor- External Sensors: Contact Type- Non contact Type- Vision- Signal Conditioning- Sensor Selection.
IV	Transformations: Robotic Architecture- Pose of a rigid body- Coordinate Transformations- Denavit and Hartenberg (DH) Parameters- A Variant of DH parameter- DH parameterization of Euler Angles.
V	Kinematics: Forward Position Analysis- Inverse Position Analysis. Velocity Analysis: The Jacobin Matrix- Link Velocities- Jacobin Computation- Forward and Inverse Velocity Analysis- Acceleration Analysis.

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 **Board: Artificial Intelligence and Machine Learning**

Course Code / Name: 224AI1A6DF – UI and UX DESIGN **Semester: VI**

Unit	Course Content
I	User Interface: User Interface - Importance of Good Design - Benefits- Human Computer Interface - Graphical User Interface - Screen Design - Characteristics of Graphical and Web User Interface - Principles of User Interface Design.
II	User Interface Design Process: Obstacles and Pitfalls in the Development Path - Designing for People – Usability: Usability Problems, Practical Measures, Objective Measures- Human Action Cycle - Responses to Poor Design -Human Characteristics in Design.
III	Interface Design: Interface Design Goals - Test for a Good Design- Consistency- Ordering of Data and Content - Navigation and Flow- Web sites and Web Pages- Intranet Design - Extranet Design.
IV	System Menus and Navigation: System Menus: Structures, Functions, Content, Formatting, Phrasing- Selecting Menu Choices - Web Site Navigation - Graphical Menus - Components of a Window -Presentation Styles.
V	User Experience Design: User Experience (UX) - Misconceptions of UX Design - Disciplines of User Experience - Importance of User Experience - UX from the Business Perspective - Various States of UX Maturity – RoI of UX Design - Mobile Application Designing.

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

Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
Approved by Government of Tamil Nadu
Accredited by NAAC with 'A++' Grade (3rd Cycle – 3.64 CGPA)
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BoS

ATTENDANCE OF THE SIXTH BOARD OF STUDIES MEETING

Faculty : Computer Science **Board: Artificial Intelligence and Machine Learning**

Venue : AI BLOCK- 307

Date : 08.11.2024 **Time : 11:30 a.m**

The following members were present for the board of studies meeting

S. NO.	NAME	DESIGNATION	SIGNATURE
1	Dr. S. Saranya Assistant Professor and Head Department of Artificial Intelligence and Machine Learning Dr. N.G.P. Arts and Science College	Chairman	
2	Dr. M. Punithavalli Professor Department of Computer Applications Bharathiar University Coimbatore - 641 046	VC Nominee	8.11.24
3	Dr. C. Kavitha Associate Professor Department of Computer Science and Engineering PSG College of Technology Coimbatore - 641 004	Subject Expert	C. Kavitha 8/11/24.
4	Dr. J. J. Adri Jovin Professor & CoE Department of Information Technology Sri Ramakrishna Institute of Technology Coimbatore - 641 010	Subject Expert	8/11/24.
5	Mr. K. Anandakumar IOT Specialist Robert Bosch and Business Solutions Coimbatore – 641025	Industrial Expert	8/11/2024
6	Dr. N. Kuppuchamy Professor and Head - Department of Tamil Dr. N.G.P. Arts and Science College	Co-opted Member	
7	Dr. A. Hazel Verbina Professor and Head - Department of English Dr. N.G.P. Arts and Science College	Co-opted Member	8/11/24

8	Dr. R. Sowrirajan Assistant Professor and Head - Department of Mathematics Dr.N.G.P Arts and Science College	Co-opted Member	
9	Dr. N. Sathya Associate Professor Department of Artificial Intelligence and Machine Learning Dr. N.G.P. Arts and Science College	Member	
10	Dr. P. Deepika Associate Professor Department of Artificial Intelligence and Machine Learning Dr. N.G.P. Arts and Science College	Member	8/11/24
11	Mrs. P. Shanthi Assistant Professor Department of Artificial Intelligence and Machine Learning Dr. N.G.P. Arts and Science College	Member	8/11/24
12	Mrs. T. Hashni Assistant Professor Department of Artificial Intelligence and Machine Learning Dr. N.G.P. Arts and Science College	Member	8/11/24
13	Ms. J. Vinitha Assistant Professor Department of Artificial Intelligence and Machine Learning Dr. N.G.P. Arts and Science College	Member	8/11/24
14	Mr. A. S Hari Hara Sudan Batch: 2021-2024	Alumni	
13	Ms. J. Sandra II B.Sc. Artificial Intelligence and Machine Learning Dr. N.G.P. Arts and Science College	Student Representative	

Date: 08.11.2024

8/11/24

(Dr. S. Saranya)

Dr. S.SARANYA, M.Sc.,M.C.A.,M.Phil.,Ph.D.
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Academic Council * CHAIRMAN * Dr.N.G.P. Arts and Science College

Dr.N.G.P. Arts and Science College * Coimbatore 641 048

12/11/24