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)
Dr. N.G.P.- Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.
Website: www.drngpasc.ac.in | Email: info@drngpasc.ac.in. | Phone: +91-422-2369100

BoS

4th

Board of Studies Meeting

Department of Artificial Intelligence & Machine Learning

The minutes of the 4th meeting of the Board of Studies held on 18.10.2023 at 09.00 am at IQAC Board Room.

Members Present:

S.No	Name	Category
1	Dr N Kumaresh	Chairman
2	Dr M Punithavalli	University Nominee
3	Dr J J Adri Jovin	Subject Expert
4	Dr C Kavitha	Subject Expert
5	Mr.K.Anandakumar	Industrial Expert
6	-	Meritorious Alumni
7	Dr N Sathya	Member
8	Mrs P Shanthi	Member

The HoD and the Chairman of the department of Artificial Intelligence & Machine Learning welcomed and introduced all the members and appreciated them for their continuous support, contribution to the development of academic standards 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 C Kavitha - Subject Expert

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

Item 4.1

To review and approve the minutes of the previous meeting held on **09.06.2023**

The chairman of the Board presented the minutes of the previous meeting held on **09.06.2023** 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 09.06.2023

Item 4.1(a): To consider and approve the syllabi for II semester for the students admitted during the academic year 2023-2024.

The chairman presented the detailed scheme and syllabus for the II semester for the students admitted from the academic year 2023-2024 onwards. The details of changes made also presented as follows.

Changes Made:

Course	Code	Reason
Without any modification, the same syllabus will be followed for the students admitted in the academic year 2023-2024.		

New Courses Introduced:

Course	Code	Reason
-	-	-

Courses Removed

Course	Code	Reason
-	-	-

IDC Offered

Course	Code	Department
Financial Technology	234AI1A2IA	B.Com -Finance

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 2023-24 onwards,

Item 4.1(b) : To consider and approve the changes, if any, in the syllabi for IV semester for the students admitted during the academic year 2022-2023.

The Chairman presented the detailed syllabus for the IV semester for the students admitted from the academic year 2022-2023 onwards. The details of changes made also presented as follows.

Changes Made:

Course	Code	Reason
-	-	-

New Courses Introduced:

Course	Code	Reason
Neural Networks and Deep Learning	214AI1A6CA	In Unit-V: Proposed the integration of real-time exposure through the utilization of deep learning models like CNN, ANN, and RNN.
Cloud Computing	214AI1A6CB	-
Neural Networks and Deep Learning in Python	214AI1A6CP	An essential element involves incorporating the practical study of CNN architectures, such as ImageNet, GoogleNet, and ResNet, for the development of modern applications
Augmented Reality and Virtual Reality	214AI1A6DA	-
Human Computer Interaction	214AI1A6DB	In Unit IV: Recommended the incorporation of text-based communication models and text analysis to enrich the design process.
Mobile and Pervasive Computing	214AI1A6DC	-
Pattern and Anomaly Detection	214AI1A6DD	-
Computational Intelligence	214AI1A6DE	-
Wireless Networks	214AI1A6DF	-

Courses Removed

Course	Code	Reason
-	-	-

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 2021-22 onwards,

Changes Made:

Course	Code	Reason
Foundations of Artificial Intelligence	224AI1A4CA	In Unit-V:Recommended the inclusion of applications pertaining to expert systems

New Courses Introduced:

Course	Code	Reason
Design and Analysis of Algorithms	224AI1A4CB	The course assists in enhancing logical reasoning and problem-solving skills, thereby deepening comprehension of complex AI problems.
Python for Data Science - Practical (Embedded)	224DA1A4EP	The course stands as a pivotal component in AI programming languages, primarily because of its robust frameworks and advanced libraries tailored for Machine Learning.
SEC Practical: Artificial Intelligence	224AI1A4SP	recommended the addition of a program for building a basic Knowledge Base (KB) designed to address simple queries.

Courses Removed

Course	Code	Reason
-	-	-

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 2022-23 onwards,**

Item 4.1(c) : To consider and approve the changes, if any, in the syllabi for VI semester for the students admitted during the academic year 2021-2022.

The Chairman presented the detailed syllabus for the VI semester for the students admitted from the academic year 2021-2022 onwards. The details of changes made also presented as follows.

Item 4.2: To approve the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-2024.

The Chairman presented the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-2024.
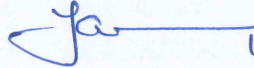
Resolution:

Resolved to approve the panel of examiners for question paper setting and evaluation of answer scripts for the even semester of the academic year 2023-2024.

Item 4.3: To consider and approve any other items 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 a formal vote of thanks proposed by Dr N Kumaresh, Head and Chairman - Artificial Intelligence and Machine Learning BoS.

18/10/23

(Dr N Kumaresh)

Date : 18.10.2023

BoS Chairman / HoD
Department of Artificial Intelligence and Machine Learning
Dr. N.G.P. Arts and Science College
Coimbatore - 641 048.

Faculty: Computer Science
Board: Artificial Intelligence& Machine Learning
Programme: B.Sc AI & ML
Semester: IV
Course Code/ Name: 224AI1A4CA - Foundations of Artificial Intelligence

Unit	Existing	Changes
I	**Introduction to AI** Introduction–Definition- Foundations of Artificial Intelligence-Characteristics of Intelligent Agents –Typical Intelligent Agents – Problem Solving Approach to Typical AI Problems.	
II	**Problem Solving Methods** Search Strategies – Uninformed – Informed – Heuristics – Local Search Algorithms and Optimization Problems – Searching with Partial Observations – Constraint Satisfaction Problems – Constraint Propagation – Backtracking Search – Game Playing – Optimal Decisions in Games – Alpha – Beta Pruning – Stochastic Games.	-
III	**Knowledge Representation** First Order Predicate Logic – Prolog Programming – Unification – Forward Chaining – Backward – Chaining – Resolution – knowledge Representation – Ontological Engineering – Categories and Objects – Events – Mental Events and Mental Objects – Reasoning Systems for Categories – Reasoning with Default Information.	-
IV	**Software Agents** Architecture for Intelligent Agents – Agent Communication – Negotiation and Bargaining – Argumentation among Agents – Trust and Reputation in Multi-agent Systems.	-
V	**AI Applications** Language Models – Information Retrieval – Information Extraction – Natural Language Processing – Machine Translation – Speech Recognition – Robot – Hardware – Perception – Planning - Moving	Expert systems: Introduction – Knowledge Representation – Expert System Shells - Knowledge Acquisition - Applications of Expert Systems.-

PERCENTAGE OF SYLLABUS REVISED: 10.37%
COURSE FOCUSES ON:

✓	Skill Development	☐	Entrepreneurial Development
✓	Employability	☐	Innovations
☐	Intellectual Property Rights	☐	Gender Sensitization
☐	Social Awareness/ Environment	☐	Constitutional Rights/ Human Values/ Ethics
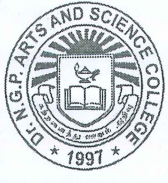
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ATTENDANCE OF THE SECOND BOARD OF STUDIES MEETING
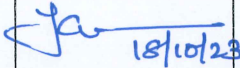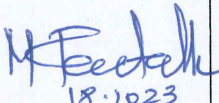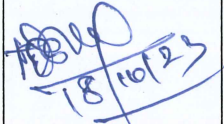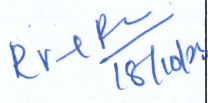
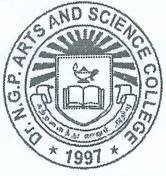**Faculty: Computer Science**   **Board: Artificial Intelligence and Machine Learning**

Venue : IQAC Board Room

Date : 18.10.2023   **Time : 9.00 a.m**

The following members were present for the board of studies meeting

S. NO.	NAME	DESIGNATION	SIGNATURE
1	Dr. N.Kumaresh Professor and Head Department of Artificial Intelligence and Machine Learning Dr. N.G.P. ASC	Chairman	18/10/23
2	Dr. M.Punithavalli Professor Department of Computer Applications Bharathiar University Coimbatore - 641 046	VC nominee	18.10.23
3	Dr. C.Kavitha Associate Professor Department of Computer Science and Engineering PSG College of Technology Coimbatore - 641 004	Subject Expert	ABSENT
4	Dr. J.J.AdriJovin Associate Professor & COE Department of Information Technology Sri Ramakrishna Institute of Technology Coimbatore - 641 010	Subject Expert	18/10/23
5	Mr. K.Anandakumar IOT Specialist Robert Bosch and Business Solutions Coimbatore – 641025	Industrial Expert	18/10/2023
6	Dr. N.Kuppuchamy HoD - Department of Tamil Dr. N.G.P. ASC	Co-opted Member	18/10/23
7	Dr. R.Vithyaprabha HoD - Department of English Dr. N.G.P. ASC	Co-opted Member	18/10/23

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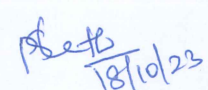Approved by Government of Tamil Nadu
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8	Dr. P. Revathi HoD-Department of Commerce-Banking &Insurance Dr. N.G.P. ASC	Co-opted Member	P. R 18/10/2023
9	Dr. R.Sowrirajan HoD - Department of Mathematics Dr.N.G.P ASC	Co-opted Member	
10	Dr. N.Sathya Associate Professor Department of Artificial Intelligence and Machine Learning, Dr. N.G.P. ASC	Member	18/10/23
11	Mrs. P. Shanthi Assistant Professor Department of Artificial Intelligence and Machine Learning, Dr. N.G.P. ASC	Member	18/10/23

Date :18/10/2023

(Dr.N.Kumaresh) 18/10/23

BoS Chairman / HoD
Department of Artificial Intelligence and Machine Learning
Dr. N.G.P. Arts and Science College
Coimbatore - 641 048.