

**Kongunadu Arts and Science College (Autonomous)
Coimbatore 641029**

Department of Artificial Intelligence and Machine Learning

Minutes of the Board of Studies:

The Board of Studies meeting was held on 17/03/2025 at 12.00 Noon. The Chairman welcomed and outlined the changes to be made in the scheme of curricula for the board approval.

Preamble:

The Chairman Dr. L. Kathirvelkumaran proposed various changes and modifications to be made in the syllabi for the students admitted in the academic year 2025 – 2026 and onwards.

As per the suggestions and recommendations given by the various Stakeholders on the above items discussed, the existing Scheme of Curriculum / Scheme of Examination / Syllabi, Panel of experts for question paper setting and Panel of examiners are enclosed herewith as annexure for the implementation from the commencement of the Academic year 2025 – 2026.

The members unanimously resolved to approved the proposed changes after careful scrutiny. They also resolved to authorize the Chairman of Board of Studies to place the changes/modifications as approved by the BoS before the Standing Committee on Academic affairs and Academic Council.

Item 1: 2025 Full Syllabus

Sem.	Subject code	Title of the paper	Changes made
I	25UAI101	Core Paper 1 - C and C++ Programming	5%
	25UAI1CL	Core Practical 1 - C and C++ Programming Lab	Nil
II	25UAI202	Core Paper 2 - Java Programming	10%
	25UAI2CM	Core Practical 2 - Java Programming Lab	Nil
III	25UAI303	Core Paper 3 - Python Programming for Machine Learning	Nil
	25UAI3CN	Core Practical 3 - Python Programming for Machine Learning Lab	15%
	25UAI3A3	Allied Paper 3 – Distributed Operating System	100%
	25UGC3S1	Skill Based Subject I- Cyber Security	Nil

IV	25UAI404	Core Paper 4 - R Programming	Nil
	25UAI4CO	Core Practical 4 - R Programming Lab	10%
	25UAI4A4	Allied Paper 4 – Design and Analysis of Algorithms	100%
	25UAI4S2	Skill Based Subject 2- MongoDB Lab	100%
V	25UAI505	Core Paper 5 -Machine Learning Techniques	Nil
	25UAI506	Core Paper 6 - Introduction to Artificial Intelligence	40%
	25UAI5CP	Core Practical 5 - Machine Learning Lab	Nil
	25UAI5CQ	Core Practical 6 - Data Analytics and Visualization Lab	100%
	25UAI5E1	Major Elective Paper 1	Nil
	25UAI5XL	EDC – Fundamentals of Internet and Web Design Lab	100%
VI	25UAI607	Core Paper 7 - Natural Language Processing	Nil
	25UAI608	Core Paper 8 - Block Chain Technology	Nil
	25UAI609	Core Paper 9 – Generative AI	100%
	25UAI6CR	Core Practical 7 -Natural Language Processing Lab	40%
	25UAI6E2	Major Elective Paper 2	Nil
	25UBI6S3	Skill Based Subject 3- Basics of IPR	Nil

Major Elective	25UAI6E1/25UAI6E2	Internet of Things	Nil
	25UAI6E1/25UAI6E2	Open Source Systems	Nil
	25UAI6E1/25UAI6E2	Digital Forensics	Nil
	25UAI6E1/25UAI6E2	Foundations of Robotics	Nil
	25UAI6E1/25UAI6E2	Virtual Reality	Nil
	25UAI6E1/25UAI6E2	Artificial Intelligence in Cyber Security	Nil
	25UAI6E1/25UAI6E2	Design Thinking	Nil
	25UAI6E1/25UAI6E2	Image and Speech Processing	Nil
	25UAI6E1/25UAI6E2	Database Management System	Nil
	25UAI6E1/25UAI6E2	Data Mining and Warehousing	Nil
	25UAI6E1/25UAI6E2	Big Data Analytics	5%
	25UAI6E1/25UAI6E2	Deep Learning	Nil
	25UAI6E1/25UAI6E2	Artificial Neural Networks and Fuzzy Logic	Nil
	25UAI6E1/25UAI6E2	Data Analytics and Visualization	100%

Certificate Programme: (Online)

Subject Code	Title of the Paper	Changes Made
25CAI101	Core Paper 1 - Python with Data Science	60%
25CAI102	Core Paper 2 - Artificial Intelligence and Machine Learning	100%
25CAI1CL	Core Practical 1 – Python With Data Science Lab	60%
25CAI1CM	Core Practical 2 – Artificial Intelligence and Machine Learning Lab	100%

Item 2: Changes /Modifications/ Revisions made for 2025 batch.

Sem.	Subject Code	Title of the Paper	Changes Made
I	25UAI101	Core Paper 1 - C and C++ Programming	Topics: File: File operations are added in Unit V
II	25UAI202	Core Paper 2 - Java Programming	Topics: Types of Inheritance, Introduction to threads are added in Unit III. Topics: Swing: Layouts, event handling(Action, Mouse, Key) are added in Unit IV
III	25UAI303	Core Paper 3 - Python Programming for Machine Learning	24UAI303 Core Paper 3 - Python Programming is renamed as 25UAI303 Core Paper 3 - Python Programming for Machine Learning
III	25UAI3A3	Allied Paper 3: Distributed Operating System	24UAI3A3 Allied Paper 3: Foundations of Robotics shifted to Elective and 25UAI3A3 Allied Paper 3: Distributed Operating System introduced
III	25UAI3CN	Core Practical 3 - Python Programming for Machine Learning Lab	24UAI3CN Core Practical 3 - Python Programming Lab renamed as 25UAI3CN Core Practical 3 - Python Programming for Machine Learning Lab Three Programs added: <ul style="list-style-type: none"> • Write a python program using basic control structures • Write a python program using pivot function • Write a python program using fancy indexing
IV	25UAI4CO	Core Practical 4 - R Programming Lab	Two Programs added <ul style="list-style-type: none"> • Write a program to visualize the barplot() function • Write a program to manipulate the DataFrame
IV	25UAI4A4	Allied Paper 4 – Design and Analysis of Algorithms	24UAI4A4 Allied Paper 4 - Big Data Analytics shifted to Elective with the following changes. Topics added in Unit IV: MapReduce: Basic concepts. Data Partitioning, 25UAI4A4 Allied Paper 4 – Design and Analysis of Algorithms introduced

IV	25UAI4S2	Skill Based Subject 2 – MongoDB Lab	24UAI4S2 Skill Based Subject 2 – Ethical Hacking replaced with 25UAI4S2 Skill Based Subject 2 – MongoDB Lab
IV	25UAI6E1/ 25UAI6E2	Elective – Data Analytics and Visualization	24UAI6E1/ 24UAI6E2 Elective – Data Analytics and Visualization syllabus modified based on 25UAI5CQ Core Practical 6 - Data Analytics and Visualization Lab .
IV	25UAI5CQ	Core Practical 6 - Data Analytics and Visualization Lab	24UAI507 - Core Paper 7 – Deep Learning shifted to Elective, 25UAI5CQ Core Practical 6 - Data Analytics and Visualization Lab introduced.
V	25UAI506	Core Paper 6 - Introduction to Artificial Intelligence	<p>24UAI506 - Core Paper 6 - Introduction to Artificial Intelligence and Machine Learning changed as 25UAI506 Core Paper 6 - Introduction to Artificial Intelligence,(Unit I,II in 24UAI505 are same as UNIT IV, UNIT V in 24UAI506)</p> <p>New topics added in 25UAI506 Core Paper 6 - Introduction to Artificial Intelligence (UNIT IV, UNIT V)</p> <p>Unit IV: Planning: Representation of planning – Partial order planning – Planning and acting in real world – Acting under uncertainty – Bayes's rules – Semantics of Belief networks – Inference in Belief networks – Making simple decisions – Making complex decisions*.</p> <p>Unit V: Learning from observation: Learning decision trees –Ensemble learning – Learning general logical descriptions – Computational learning theory – Neural networks – Applications – Reinforcement learning– Passive reinforcement – Active reinforcement</p> <p>Communication as action – Types of communicating agents – Parsing – DCG – Semantic interpretation*.</p>

V	25UAI5XL	EDC – Fundamentals of Internet and Web Design Lab	24UAI5X1 – Mobile Applications Development removed and 25UAI5XL EDC – Fundamentals of Internet and Web Design Lab introduced
VI	25UAI6CR	Core Paper 7 -Natural Language Processing Lab	Four programs added: <ul style="list-style-type: none"> • Implementing Information Retrieval. • Implementing Regular Expression. • Implementing Machine Translation. • Simple Demonstration on Named Entity recognition.
VI	25UAI609	Core Paper 9 – Generative AI	24UAI610 Core Paper 10 – Artificial Neural Networks and Fuzzy Logic shifted to Elective and 25UAI610 Core Paper 10 – Generative AI introduced

Certificate Programme: (Online)

Subject Code	Title of the Paper	Changes Made
25CAI101	Core Paper 1 - Python with Data Science	Topics modified in based on industry needs Unit I: Introduction to NumPy: Arrays, Operations, Indexing Unit II: Exploratory Data Analysis Unit V: Introduction to Model Deployment
25CAI102	Core Paper 2 - Artificial Intelligence and Machine Learning	24CAI102 - CorePaper2-Machine Learning, 24CAI103 - Core Paper 3 – Artificial Intelligence & Knowledge Representation are replaced with 25CAI102 - Core Paper 2 - Artificial Intelligence and Machine Learning

25CAIICL	Core Practical 1 – Python With Data Science Lab	Modified programs as based on industry needs <ul style="list-style-type: none"> • Write a Python program to perform sentiment analysis on text data using NLP techniques. • Write a Python program to build a simple Decision Tree classifier using Scikit-learn.
25CAIICM	Core Practical 2 – Artificial Intelligence and Machine Learning Lab	New Lab Course introduced instead of 24CAI103 - Core Paper 3 – Artificial Intelligence & Knowledge Representation

Item 3: To suggest the panel of experts for question paper setting and panel of examiners. The members of the Board of studies in Artificial Intelligence and Machine Learning resolved unanimously to authorise the chairperson Dr. L. Kathirvelkumaran to submit the list of examiner panel for Question paper setting, Evaluation and Practical examinations.

Item 4: The students should complete any MOOC course available for Online learning platforms like SWAYAM, NPTEL, Coursera, IIT Bombay Spoken Tutorial, e-Pathshala etc., with a minimum of 4 weeks in duration before the completion of the 5th semester and the course completion certificate should be submitted through the HoD to the Controller of Examinations. Extra credits will be given to the candidates who have successfully completed.

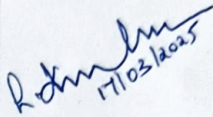
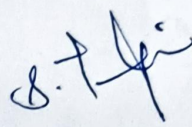
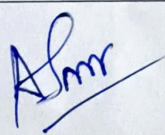
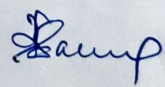
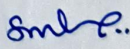
Note: For 2025 – 2026, one course to be taken from coursera for all the under graduate students during the even semester of the first year.

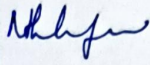

For 2024 – 2025, one course to be taken from coursera for all the under graduate students during the odd semester of the second year.


For 2023 – 2024, one course to be taken from coursera for all the under graduate students either during odd or even semester of the third year. Appropriate extra credits and certification as applicable shall be awarded to the students who have completed the course.

Item 5: Other academic activities in the department. The Members appreciated the content of the syllabus and choice of the courses that are provided to the students which shall enhance their skills and core domain knowledge. Also the members suggested to include the new edition of books to all the subjects.

Signature of the Board Members:

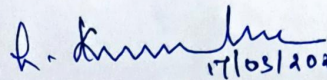
S.No	Name	Designation	Signature
1.	Dr. L.Kathirvelkumaran Chairperson	Assistant Professor & Head, Department of AIML, Kongunadu Arts and Science College, Coimbatore - 641029.	
2.	Dr.S. Poongodi University Nominee	Associate Professor Department of Data Science PSGR Krishnammal College for Women, Peelamedu, Coimbatore – 04 Mobile: 88704 59897	
3.	Dr.Prashant R. Nair Subject Expert	Professor and Head IQAC School of Computing Amrita Vishwa Vidyapeetham, Coimbatore Campus, Amritanagar Ettimadai, Coimbatore- 641112 Mobile: 9943984483	ABSENT
4.	Dr. A. Saravanan Subject Expert	Associate Professor Department of Computing, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore, Tamil Nadu, India – 641 014 Mobile: 7904425208	
5.	M. Dinesh Paranthagan Industry Personnel /Expert	Founder and CEO Hackup Technology Private Ltd, 14 A, Sivandhapuram, Saravanampatti Post, Coimbatore. Ph: 9626215976	ABSENT
6.	Ms.B. Jayavinuppa Alumni	AMG INSIGHTS INNOVATIONS PVT LTD. 6/82/R, Edayarpalayam Main Road, Pappampatty, Edayarpalayam, Coimbatore, Coimbatore South, Tamil Nadu. Phone: 93604 87579	ABSENT
7.	Dr.G. Dona Rashmi Member	Assistant Professor, Department of Artificial Intelligence and Machine Learning, Kongunadu Arts and Science College, Coimbatore - 641029.	
8.	Ms.S. Vanjimalar Member	Assistant Professor, Department of Artificial Intelligence and Machine Learning, Kongunadu Arts and Science College,	

9.	Dr.N. Alamelumangai Member	Assistant Professor, Department of Artificial Intelligence and Machine Learning, Kongunadu Arts and Science College, Coimbatore - 641029.	
10.	Mr.N. Thamaraikannan Member	Assistant Professor, Department of Artificial Intelligence and Machine Learning, Kongunadu Arts and Science College, Coimbatore - 641029.	

 21/5/25

PRINCIPAL
Kongunadu Arts & Science College
Coimbatore - 641 029




17/03/2025
Signature of the Chairman of the Board

Dr.L.KATHIRVELKUMARAN
MCA., M.Phil., Ph.D.,
Assistant Professor and Head
Dept. of Artificial Intelligence & Machine Learning
Kongunadu Arts and Science College
G.N. Mills Post, Coimbatore - 641 029

ANNEXURE - I
(Comprehensive Revision of Syllabus - Revised and Unrevised Courses)
(2025 - 2026)

S.no	Semester	Course Code	Name of the Course	Existing/Revised	% of Modification	Employability/ Entrepreneurship/ Skill Development
1	I	25UAI101	Core Paper 1 - C and C++ Programming	Revised	5%	Skill Development
2		25UAI1CL	Core Practical 1 - C and C++ Programming Lab	Existing	NIL	Skill Development
3		25UAI202	Core Paper 2 - Java Programming	Revised	10%	Skill Development
4	II	25UAI2CM	Core Practical 2 - Java Programming Lab	Existing	NIL	Skill Development
5		25UAI303	Core Paper 3 - Python Programming for Machine Learning	Existing	NIL	Skill Development
6		25UAI3CN	Core Practical 3 - Python Programming for Machine Learning Lab	Revised	15%	Skill Development
7	III	25UAI3A3	Allied Paper 3 - Distributed Operating System	New	100%	Employability
8		25UGC3S1	Skill Based Subject 1- Cyber Security	Existing	NIL	Skill Development
9		25UAI404	Core Paper 4 - R Programming	Existing	NIL	Skill Development
10	IV	25UAI4CO	Core Practical 4 - R Programming Lab	Revised	10%	Skill Development
11		25UAI4A4	Allied Paper 4 - Design and Analysis of Algorithms	New	100%	Employability
12		25UAI4S2	Skill Based Subject 2- MongoDB Lab	New	100%	Skill Development / Employability
13	V	25UAI505	Core Paper 5 -Machine Learning Techniques	Existing	NIL	Skill Development
14		25UAI506	Core Paper 6 - Introduction to Artificial Intelligence	Revised	40%	Skill Development
15		25UAI5CP	Core Practical 5 - Machine Learning Lab	Existing	NIL	Skill Development
16		25UAI5CQ	Core Practical 6 - Data Analytics and Visualization Lab	New	100%	Skill Development
17		25UAI5E1	Major Elective Paper 1	Existing	NIL	Entrepreneurship
18		25UAI5XL	EDC – Fundamentals of Internet and Web Design Lab	New	100%	Skill Development

19	25UAI607	Core Paper 7 -Natural Language Processing	Existing	NIL	Employability
20	25UAI608	Core Paper 8 - Block Chain Technology	Existing	NIL	Skill Development
21	25UAI609	Core Paper 9 - Generative AI	New	100%	Employability
22	25UAI6CR	Core Practical 7 -Natural Language Processing Lab	Revised	40%	Skill Development
23	25UAI6E2	Major Elective Paper 2	Existing	NIL	Employability
24	25UAI6Z1	Project and Viva Voce***	Existing	NIL	Employability/ Entrepreneurship
25	25UBI6S3	Skill Based Subject 3- Basics of IPR	Existing	NIL	Entrepreneurship
26	25UAI6E1/ 25UAI6E2	Internet of Things	Existing	NIL	Employability
27	25UAI6E1/ 25UAI6E2	Open Source Systems	Existing	NIL	Employability
28	25UAI6E1/ 25UAI6E2	Digital Forensics	Existing	NIL	Employability
29	25UAI6E1/ 25UAI6E2	Foundations of Robotics	Existing	NIL	Employability
30	25UAI6E1/ 25UAI6E2	Virtual Reality	Existing	NIL	Employability
31	25UAI6E1/ 25UAI6E2	Artificial Intelligence in Cyber Security	Existing	NIL	Employability
32	25UAI6E1/ 25UAI6E2	Design Thinking	Existing	NIL	Employability
33	25UAI6E1/ 25UAI6E2	Image and Speech Processing	Existing	NIL	Employability
34	25UAI6E1/ 25UAI6E2	Database Management System	Existing	NIL	Employability
35	25UAI6E1/ 25UAI6E2	Data Mining and Warehousing	Existing	NIL	Employability
36	25UAI6E1/ 25UAI6E2	Big Data Analytics	Revised	5%	Employability
37	25UAI6E1/ 25UAI6E2	Deep Learning	Existing	NIL	Employability
38	25UAI6E1/ 25UAI6E2	Artificial Neural Networks and Fuzzy Logic	Existing	NIL	Employability
39	25UAI6E1/ 25UAI6E2	Data Analytics and Visualization	Revised	100%	Employability
40	25UAI6E1/ 25UAI6E2				
41	25UAI6E1/ 25UAI6E2				

Change of change - change of entire course (5 units) - 100% Change of 1 unit - 20% Small Change - 10% Minor Change - 5%



Kongunadu Arts & Science College
Cumbadore - 041 U29

D.L.KATHIRVELKUMARAN
MCA., M.Phil., Ph.D.,
Assistant Professor and Head
Dept. of Artificial Intelligence & Machine Learning
Kongunadu Arts and Science College
G.N. Mills Post, Cumbadore - 641 029

ANNEXURE - I
(Comprehensive Revision of Syllabus - Revised and Unrevised Courses)
(2025 - 2026)

S.no	Semester	Course Code	Name of the Course	Existing/Revised	% of Modification	Employability/ Entrepreneurship/ Skill Development
1	ODD/EVEN	25CAI101	Core Paper 1 - Python with Data Science	Revised	60%	Skill Development
2		25CAI102	Core Paper 2 - Artificial Intelligence and Machine Learning	Revised	100%	Skill Development
3		25CAI101	Core Practical 1 – Python With Data Science Lab	Revised	60%	Skill Development
4		25CAI101	Core Practical 2 – Artificial Intelligence and Machine Learning Lab	Revised	100%	Skill Development

% of change - change of entire course (5 units) - 100% Change of 1 unit - 20% Small Change - 10% Minor Change - 5%

PRINCIPAL
Kongunadu Arts & Science College
Coimbatore - 641 029



D.R. KATHIRVELKUMARAN
MCA., M.Phil., Ph.D.
Assistant Professor and Head
Dept. of Artificial Intelligence & Machine Learning
Kongunadu Arts and Science College
G.N. Mills Post, Coimbatore - 641 029