

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

**DEPARTMENT OF COMPUTER APPLICATIONS
KOCHI – 682 022, KERALA, INDIA**



**M.Sc. Computer Science with Specialization in
Artificial Intelligence
AMENDMENTS TO REGULATIONS
(2025 admission onwards)**

(As per U.O. No. CUSAT/AC(A).A3/3037/2025 dated 29.07.2025, Academic Council held on 26.05.2025 vide agenda item No. II (48), regulations of all PG/UG Programmes offered by the University have been amended, w.e.f 2025 admission onwards. Therefore the regulations of the programme M.Sc. Computer Science with Specialization in Artificial Intelligence is hereby modified accordingly, w.e.f 2025 admission onwards.)

**M.Sc. COMPUTER SCIENCE with specialization in ARTIFICIAL INTELLIGENCE
AMENDMENTS TO REGULATIONS (2025 admission onwards)**

Semester- I								
Course Code	Course Name	Marks			Credit	Hours		
		CA	ES	Total		L	T	P
25-344-0101	Mathematics for Artificial Intelligence	50	50	100	4	3	1	0
25-344-0102	Python Programming	50	50	100	4	3	1	0
25-344-0103	Data Structures and Algorithms	50	50	100	4	3	1	0
25-344-0104	Statistics for Artificial Intelligence	50	50	100	4	3	1	0
25-344-0105	Advanced Computer Networks	50	50	100	4	3	1	0
25-344-0106	Python Programming Lab	50	50	100	2	0	0	4
25-344-0107	Data Structure Lab using C	50	50	100	2	0	0	4
Total					24	28		

Semester – II								
Course Code	Course Name	Marks			Credit	Hours		
		CA	ES	Total		L	T	P
25-344-0201	Computing Paradigms	50	50	100	4	3	1	0
25-344-0202	Advanced Database Technologies	50	50	100	4	3	1	0
25-344-0203	Ethics in Artificial Intelligence	50	50	100	4	3	1	0
25-344-0204	Artificial Intelligence and Machine Learning	50	50	100	4	3	1	0
	Elective I	50	50	100	3	3	0	0
25-344-0206	Data Management Lab	50	50	100	2	0	0	4
25-344-0207	Minor Project	50		50	2	0	0	4
Total					23	27		

Semester- III								
Course Code	Course Name	Marks			Credit	Hours		
		CA	ES	Total		L	T	P
25-344-0301	Deep Learning	50	50	100	4	3	1	0
	Elective II	50	50	100	3	3	0	0
	Elective III	50	50	100	3	3	0	0
	Elective IV - MOOC	0	100	100	3			
	Elective V- IE	50	50	100	3	3	0	0
25-344-0306	Seminar	50		50	2	0	0	4
25-344-0307	Minor Project	50		50	2	0	0	4
Total					20	24		

Semester- IV								
Course Code	Course Name	Marks			Credit	Hours		
		CA	ES	Total		L	T	P
25-344-0401	Internship/Project Work and Course Viva	50	50	100	16	0	0	32
Total					16	32		

CA- Continuous Assessment
ES- End Semester
IE- Interdisciplinary Elective

List of Electives

Elective I

25-344-0211 Fuzzy and Nature Inspired Computation
25-344-0212 Internet of Things
25-344-0213 Digital Image Processing
25-344-0214 Big Data Analytics
25-344-0215 Information Security
25-344-0216 Linux and Shell Programming

Elective II

- 25-344-0311 Reinforcement Learning
- 25-344-0312 Blockchain Technology
- 25-344-0313 Computer Vision
- 25-344-0314 Medical Image Analysis
- 25-344-0315 Social Network Analysis
- 25-344-0316 Computer Forensics
- 25-344-0317 Design Thinking
- 25-344-0318 Affective Computing
- 25-344-0319 Cyber Physical Systems
- 25-344-0320 Bioinformatics

Elective III

- 25-344-0321 Explainable Artificial Intelligence
- 25-344-0322 Quantum Computing
- 25-344-0323 Human Computer Interaction
- 25-344-0324 Natural Language Processing
- 25-344-0325 Pattern Recognition
- 25-344-0326 Data Analytics for Healthcare
- 25-344-0327 Ethical Hacking
- 25-344-0328 Software Quality Assurance
- 25-344-0329 Speech Processing
- 25-344-0330 Virtual Reality and Augmented Reality
- 25-344-0331 Mobile Application Development

Elective IV

25-344-0341- MOOC

Elective IV-IE