



SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Reaccredited by NAAC with 'A' Grade]

[Approved by AICTE New Delhi, Permanently Affiliated to Anna University, Chennai]

Coimbatore - 641 010.



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

R2025 - CURRICULUM

S.NO	COURSE CODE	COURSE	L	T	P	C	POs	CA	ES	TOTAL
HSMC - HUMANITIES & SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES[10]										
1	25HS251	Technical English	2	0	2	3	5,9,11	40	60	100
2	25HS270	Professional English	0	0	2	1	5,9,11	60	40	100
3	25IT210	Cybercrimes – Law, Practice and Procedures	2	0	0	2	2,6,8	40	60	100
4	25AI220	Social Impact of Artificial Intelligence	2	0	0	2	1,2,6,7,8,9,11	40	60	100
5	25IT211	Universal Human Values - III (Cyber Ethics)	1	0	0	1	1,2,3,6,7,11	40	60	100
6	25CS215	Software Development Standards (ISO)	1	0	0	1	1,2,3,4,5	40	60	100
7	25HS271	Foreign Language	0	0	2	1	5,9,11	60	40	100
BSC - BASIC SCIENCE COURSES [18]										
7	25MA201	Matrices and Calculus	3	1	0	4	1,2,5,8,9,11	40	60	100
8	25CH201	Green Computing	2	0	0	2	1,6,11	40	60	100
9	25IT201	Bio-inspired Computing	1	0	0	1	1,2,3	40	60	100
10	25PH253	Engineering Physics	2	0	2	3	1,2,5,8,9	50	50	100
11	25MA202	Linear Algebra and Number Theory	3	1	0	4	1,2,8,9,11	40	60	100
12	25MA207	Probability and Statistics	3	1	0	4	1,2,5	40	60	100
ESC - ENGINEERING SCIENCE COURSES [22]										
13	25CS251	C Programming	2	0	4	4	1,2,3,5,9	50	50	100
14	25CS270	Computer Practices Workshop	0	0	2	1	1,2,3,4,5,9	60	40	100
15	25IT251	Object Oriented Programming	2	0	4	4	1,2,3,4,5,9	50	50	100
16	25EC202	Digital Principles and System Design	3	0	0	3	1,2,5,8	40	60	100

17	25EE256	Sensors and Instrumentation	1	0	2	2	1,2,3,4,5	50	50	100
18	25AI251	Excel Macros	1	0	2	2	1,2,3,4,5	50	50	100
19	25IT252	Python for Scientific Computing	2	0	2	3	1,2,3,4,5,6	50	50	100
20	25CS252	Data Structures	2	0	2	3	1,2,3,5,9	50	50	100
PCC - PROFESSIONAL CORE COURSE[58]										
21	25AI252	Neural Networks	2	0	2	3	1,2,3,4,5,11	50	50	100
22	25CS254	Operating Systems	2	0	2	3	1,2,3,4,5	50	50	100
23	25AI202	Data Science and Analysis	3	0	0	3	1,2,3,4,5,11	40	60	100
24	25CS255	Database Management Systems	2	0	2	3	1,2,3,5	50	50	100
25	25AI253	Computer Vision	2	0	2	3	1,2,3,4,5,11	50	50	100
26	25CS211	Discrete Mathematics	2	1	0	3	1,2,5	40	60	100
27	25AI254	Data Analytics	2	0	2	3	1,2,3,5,6,8,11	50	50	100
28	25IT256	Web Technologies And Full Stack Development	2	0	2	3	1,2,3,4,5	50	50	100
29	25AI255	Machine Learning Techniques	2	0	2	3	1,2,3,4,5,11	50	50	100
30	25AI256	Deep Learning	2	0	2	3	1,2,3,4,5,11	50	50	100
31	25IT257	Cloud Computing and Virtualization	2	0	2	3	1,2,3,4,5	50	50	100
32	25CS265	Devops Skills	2	0	2	3	1,2,3,4,5,7,8,9,10,11	50	50	100
33	25CS259	Internet of Things and Smart Systems	2	0	2	3	1,5	50	50	100
34	25AI204	Reinforcement Learning	2	0	2	2	1,2,3,4,5	40	60	100
35	25AI257	Natural Language Processing	2	0	2	3	1,2,3,4,5,6,8,11	50	50	100
36	25AI215	Algorithm Design And Performance	2	0	0	2	1,3,5	40	60	100
37	25AI207	Computer Networks	2	0	0	2	1,2,3,4,5,10,11	40	60	100
38	25AI258	Large Language Model	2	0	2	3	1,2,3,4,5,6,8,11	50	50	100
39	25AI205	Predictive Analytics	2	0	0	2	1,2,3,4,5,11	40	60	100
40	25AI206	Generative AI	2	0	0	2	1,2,3,4,5,6,8,10,11	40	60	100
41	25IT259	Cryptography and Cyber Security	2	0	2	3	1,2,3,4,5	50	50	100

PEC-PROFESSIONAL ELECTIVES[18]										
42	25AI2E01	Feature Engineering For Machine Learning	3	0	0	3	1,2,3,4,5,9,10,11	40	60	100
43	25AI2E02	Information Retrieval And Search Engines	3	0	0	3	1,2,3,4,5,9,10,11	40	60	100
44	25AI2E03	Machine Translation Systems	3	0	0	3	1,2,3,4,5,9,10,11	40	60	100
45	25AI2E04	Natural Language Generation	3	0	0	3	1,2,3,4,5,9,10,11	40	60	100
46	25AI2E05	Natural Language Understanding	3	0	0	3	1,2,3,4,5,9,10,11	40	60	100
47	25AI2E06	Neural Network For Natural Language Processing	3	0	0	3	1,2,3,4,5,9,10,11	40	60	100
48	25AI2E07	Retrieval Augmented Generation	3	0	0	3	1,2,3,4,5,9,10,11	40	60	100
49	25CS2E01	Clean Coding and Devops	3	0	0	3	1,2,3	40	60	100
OPC - OPEN ELECTIVE COURSES[6]										
49	25AI2E51	Fundamentals Of Artificial Intelligence	3	0	0	3	1,2,3,4,5,6,7,8,9,10,11	40	60	100
50	25AI2E52	Introduction To Machine Learning	3	0	0	3	1,2,3,4,5,6,7,8,9	40	60	100
51	25AI2E53	Deep Learning Foundations	3	0	0	3	1,2,3,4,5,6,7,8,9	40	60	100
52	25AI2E54	Applications Of Generative AI	3	0	0	3	1,2,3,4,5,6,7,8,9	40	60	100
53	25AI2E55	AI Tools	3	0	0	3	1,2,3,5,10	40	60	100
IPW - INTERNSHIP & PROJECT WORK[12]										
54	25AI272	MINI PROJECT	0	0	4	2	1,2,3,4,5,6,7,8,9,10,11	60	40	100
55	25AI271	Professional Practice(Field Training/Internship/Industry one credit course (2 courses)/live in lab	0	0	4	2	1,2,3,4,5,6,7,8,9,10,11	60	40	100
56	25AI273	Project Work	0	0	1 6	8	1,2,3,4,5,6,7,8,9,10,11	60	40	100
ETC - EMERGING TECHNOLOGY COURSES[6]										
57	25IT202	Modern Digital Technologies	2	0	0	2	1,2,3,4,5,6	40	60	100

58	25IT203	Prompt Engineering	2	0	0	2	1,2,3,4,5,6,8,9,10,11	40	60	100
59	25AI203	Automated Intelligence	2	0	0	2	1,2,3,4,5,6,8,9,10,11	40	60	100
AEC - ABILITY ENHANCEMENT COURSE[4]										
60	25HS204	Design Thinking	1	0	0	1	2,3,4	100	-	100
61	25HS208	Quantitative Aptitude and Logical Reasoning(CDPC-1)	0	0	2	1	1,2,3,4,5,9,10,11	60	40	100
62	25HS209	Problem Solving and Data Structures(CDPC-2)	0	0	2	1	1,2,3,4,5,9,10,11	60	40	100
63	25HS210	Lingua skill	1	0	0	1	5,9,11	40	60	100
SDC - SKILL DEVELOPMENT COURSE[4]										
64	25EC271	Think Build Innovate Lab	0	0	2	1	1,2,3,4,8,9	60	40	100
65	25AI274	Value Added Program	0	0	4	2	5,7,9,11	100	-	100
66	25AI275	Comprehensive VIVA	1	0	0	1	1,2,3,4,5,9,10,11	100	-	100
LAC - LIBERAL ARTS COURSE[4]										
67	25HS201	Heritage of Tamils	1	0	0	1	11	100	-	100
68	25HS203	Yoga	1	0	0	1	6	100	-	100
69	25HS202	Tamils and Technology	1	0	0	1	11	100	-	100
70	25MA205	Vedic Mathematics for Engineers	1	0	0	1	1,2,5,11	100	-	100
71	25MA206	Foundations of Problem Solving	1	0	0	1	1,2,4,9,11	100	-	100
72	25ME202	Industrial Revolutions & Emerging Trends in Manufacturing	2	0	0	2	1,2,5,6,10,11	40	60	100
73	25HS211	Indian Knowledge System	1	0	0	1	1,2,3,4,5,6,8,9,10,11	100	-	100
MC - MANDATORY COURSES										
74	25HS252	Universal Human Values - I	1	0	0	0	7,11	100	-	100
75	25HS212	Constitution of India	1	0	0	0	6,8	100	-	100
76	25HS253	Universal Human Values - II	1	0	0	0	7,11	100	-	100