

Deemed to be University
(Declared under Distinct Category by Ministry of Education, Government of India)

NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

ANNEXURE-VIII

Scheme

of

B. Tech III Semester

[Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning]

for batch admitted in 2023-24

(under the flexible curriculum)



Deemed to be University

(Declared under Distinct Category by Ministry of Education, Government of India) NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

Scheme of Evaluation

B. Tech. III Semester (Information Technology (Artificial Intelligence and Robotics)) (for batch admitted in academic session 2023 – 24)

											gor vaic	n aa	nuue	uuu	ucuuemic	session 2	023 - 24	"
							mum Marks A	llotted					tact Ho					
				Theory Slot				Practical Slo		р	er weel	k						
S. No.	Subject Code	Category Code	Subject Name	End Term Evaluation			Continuous Evaluation		Continuous Evaluation		Total				Total Credits	Mode of Teaching		Duration of Exam.
	Ů	Couc		End Sem. Exam	^s Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	Sem. Exam.	Lab Work & Sessional	Skill Based Mini Project	Marks	L	Т	P	Credits		Exam.	Zam.
1.	250106	BSC	Probability and Random Process	50	10	20	20	-	-		100	3	1	-	4	Blended	PP	2 Hrs
2.	3240321	DC	Design & Analysis of Algorithms	50	10	20	20	-	-	1	100	3	-	-	3	Blended	PP	2 Hrs
3.	3240322	DC	Python Programming	50	10	20	20	40	30	30	200	3	-	2	4	Blended	AO	2 Hrs
4.	3240323	DC	Robot Kinematics	50	10	20	20	40	30	30	200	3	-	2	4	Blended	PP	2 Hrs
5.	3240324	DC	Operating Systems	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
6.	3240325	DLC	Robot Modeling and Simulation Lab	-	-	-	-	40	30	30	100	-	-	2	1	Offline	so	-
7.	3240326	DLC	Self-learning/Presentation (SWAYAM/ NPTEL/MOOC)	-	-	1	-	-	40	1	40	1	ı	2	1	Online and Mentoring	SO	-
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	ı	-	50	-	1	50	i	i	2	1	Interactive	so	-
9.	3240327	DLC	Skill Internship Project–I (Institute Level) (Evaluation)	-	-	1	-	60	-	1	60	1	-	4	2	Offline	SO	-
	Total			250	50	100	100	230	130	90	950	15	1	14	23	-	-	-
10.	3000003	Natural Sciences Skills		50	10	20	20				100	2	-	-	Grade	Blended	MCQ	1.5 Hrs
11.	1000005	MAC	Project Management & Financing	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended	MCQ	1.5 Hrs

SProficiency in course/subject – includes the weightage towards ability/ skill/ competency/knowledge level/expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester. **MCQ:** Multiple Choice Question **AO:** Assignment + Oral PP: Pen Paper **SO:** Submission + Oral

	Mode of Teac	ching			Mode of Examination							
Offline	Online and Mentoring	Blended	Interactive	PP	AO	MCQ	so	Total Credits				
3	1	18	1	14	4	0	5	23				
13.04	4.35	78.26	4.35	60.87	17.39	0	21.74	Credits %				



Deemed to be University

(Declared under Distinct Category by Ministry of Education, Government of India) NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

Scheme of Evaluation

B. Tech. III Semester (Artificial Intelligence (AI) and Data Science) (for batch admitted in academic session 2023 – 24)

	1										U ·						0.0 - 0 - 0	
							num Marks A	llotted					act H					
				Theory Slot				Practical Slo	ot		pe	er wee	k					
	Subject	Category			d Term		ntinuous		Conti		Total				Total	Mode of	Mode of	Duration of
S. No.	Code	Code	Subject Name	Evaluation		Eva	aluation	End	Evalu		Marks				Credits	Teaching	Exam.	Exam.
				End Sem. Exam	SProficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	Sem. Exam.	Lab Work & Sessional	Skill Based Mini Project		L	Т	P				
1.	250106	BSC	Probability and Random Process	50	10	20	20	-	-	-	100	3	1	1	4	Blended	PP	2 Hrs
2.	3270321	DC	Design and Analysis of Algorithms	50	10	20	20	-	-	-	100	3	-	1	3	Blended	PP	2 Hrs
3.	3270322	DC	Python Programming	50	10	20	20	40	30	30	200	3	-	2	4	Blended	AO	2 Hrs
4.	3270323	DC	Database Management System	50	10	20	20	40	30	30	200	3	-	2	4	Blended	PP	2 Hrs
5.	3270324	DC	Computer Networks	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
6.	3270325	DLC	Competitive Programming Lab	-	-	-	-	40	30	30	100	-	-	2	1	Offline	SO	-
7.	3270326	DLC	Self-learning/Presentation (SWAYAM/ NPTEL/MOOC)	-	-	-	-	-	40	-	40	-	-	2	1	Online and Mentoring	SO	-
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	so	-
9.	3270327	DLC	Skill Internship Project–I (Institute Level) (Evaluation)	-	1	-	-	60	-	-	60	1	-	4	2	Offline	SO	-
	Total			250	50	100	100	230	130	90	950	15	1	14	23	-	-	-
10.	3000003	Natural Sciences of Skills		50	10	20	20		-	-	100	2	-	1	Grade	Blended	MCQ	1.5 Hrs
11.	1000005	MAC	Project Management & Financing	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended	MCQ	1.5 Hrs

SProficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester **MCO:** Multiple Choice Ouestion **PP:** Pen Paper **SO:** Submission + Oral **AO:** Assignment + Oral

	Mode of Teac	ching			Total Credits				
Offline	Online and Mentoring	Blended	Interactive	PP	AO	MCQ	so	Total Cicuits	
3	1	18	1	14	4	0	5	23	
13.04	4.35	78.26	4.35	60.87	17.39	0	21.74	Credits %	



Deemed to be University

(Declared under Distinct Category by Ministry of Education, Government of India)

NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

Scheme of Evaluation

B. Tech. III Semester (Artificial Intelligence (AI) and Machine Learning)

(for batch admitted in academic session 2023 – 24)

				Maximum Marks Allotted								Contact Hours		ours				
		Category Code	Subject Name		Theor	y Slot			Practical Sl	ot		pe	r wee	k				
S.	Subject Code			End Term Evaluation			Continuous Evaluation		Continuous Evaluation		Total				Total	Mode of Teaching	Mode of	Duration of Exam.
No.	Code			End Sem. Exam	SProficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	Sem. Exam.	Lab Work & Sessional	Skill Based Mini Project	Marks	L	Т	P	Credits	b	Exam	VI Daum.
1.	250106	BSC	Probability and Random Process	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
2.	3280321	DC	Design and Analysis of Algorithms	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
3.	3280322	DC	Python Programming	50	10	20	20	40	30	30	200	3	-	2	4	Blended	AO	2 Hrs
4.	3280323	DC	Database Management System	50	10	20	20	40	30	30	200	3	-	2	4	Blended	PP	2 Hrs
5.	3280324	DC	Computer Networks	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
6.	3280325	DLC	Competitive Programming Lab	-	-	-	-	40	30	30	100	-	-	2	1	Offline	SO	-
7.	3280326	DLC	Self-learning/Presentation (SWAYAM/ NPTEL/MOOC)	-	-	1	-	ı	40	-	40	1	-	2	1	Online and Mentoring	SO	-
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	1	-	50	-	-	50	-	-	2	1	Interactive	SO	-
9.	3280327	DLC	Skill Internship Project–I (Institute Level) (Evaluation)	-	-	1	-	60	-	-	60	-	-	4	2	Offline	SO	-
	Total			250	50	100	100	230	130	90	950	15	1	14	23	-	-	-
10.	3000003	Natura Sciences Skills	& Environmental	50	10	20	20				100	2	-	-	Grade	Blended	MCQ	1.5 Hrs
11.	1000005	MAC	Project Management & Financing	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended	MCQ	1.5 Hrs

SProficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject
Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester. MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral

-										
		Mode of Teac	ching			Total Credits				
	Offline	Online and Mentoring	Blended	Interactive	PP	AO	MCQ	so	Total Credits	
	3	1	18	1	14	4	0	5	23	
	13.04	4.35	78.26	4.35	60.87	17.39	0	21.74	Credits %	



Deemed to be University
(Declared under Distinct Category by Ministry of Education, Government of India)

NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

B. Tech. III Semester (Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning)

List	t of courses offered under Self-learning/Presentation (SWAYAM/ NPTEL/MOOC)*
1.	C Programming and Assembly Language (4 Weeks)
2.	Demystifying Networking (4 Weeks)
3.	Introduction to Quantum Computing (4 Weeks)
4.	Foundation of Cognitive Robotics (4 Weeks)
5.	Ethics in Engineering Practice (8 Weeks)

^{*} Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform