

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. V Semester (Information Technology (Artificial Intelligence and Robotics))

(for batch admitted in academic session 2022 - 23) Maximum Marks Allotted **Contact Hours** per week Practical Slot Theory Slot Mode End Term Continuous Continuous Total Mode of S. Subject Category Total Subject Name Evaluation Evaluation Evaluation Marks Credits Teaching No. Code Code End Exam. T Mid Quiz/ Sem. Lab work End Sem. SProficiency in Skill Based Exam. Sem. & Assignmen subject /course Mini Project Exam. Sessional Exam. Software Engineering 2240521 DC 50 10 20 20 100 3 3 Blended MCQ 2. 2240522 DC 50 10 20 20 60 20 20 200 3 2 4 MCO Data Science Blended 3 3. 2240523 DC Theory of Computation 50 10 20 20 100 3 Blended PP Robot Operating DC 2240524 50 10 20 20 20 20 200 4 Blended pp System Soft Computing 2240525 DC 50 10 20 20 5. 100 3 3 Blended PP Techniques 60 DLC Minor Project-I ** 40 6. 2240526 100 4 2 Offline SO Self-learning/Presentation Seminar/ Online and 2240527 (SWAYAM/NPTEL/ 40 7. 40 2 SO Self-Study Mentoring MOOC)# Novel Engaging Course 8. 200XXX CLC 50 50 2 1 Interactive SO (Informal Learning) Summer Internship DLC 2240528 60 60 2 Offline SO Project-II (Evaluation) Total 250 50 100 100 290 120 40 950 15 16 23 50 10 20 10. 1000006 MAC Disaster Management 20 100 GRADE Blended MCO

Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester

Additional Course for Honours or minor Specialization Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

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

MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SQ: Submission + Oral

Mode of Teaching Mode of Examination Offline Online and Mentoring Blended PP Interactive AO MCO SO **Total Credits** 17 10 0 7 6 17.39 4.35 73.91 4.35 43.48 30.43 26.09 Credits %

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Centre for Artificial Intelligence

Scheme of Evaluation

B. Tech. V Semester (Artificial Intelligence (AI) and Data Science)

	Takin,				· · · · · · · · · · · · · · · · · · ·					or batch o	admitted	in ac	aden	iic se	ssion 20.	22 - 23	
			Maximum Marks A Theory Slot			Practical Slot				Contact Hours per week		et					
S. No.	Subject Code	Category Code	Subject Name	100	End Term valuation	Ev	ntinuous aluation	End	Contii Evalu		Total				Total	Mode of	Mode
				End Sem. Exam.	sProficiency in subject /course	Mid Sem. Exa m.	Quiz/ Assignme nt	Sem. Exam.	Lab work & Sessional	Skill Based Mini Project	Marks	L	Ť	P	Credits	Teaching	of Exam.
1.	2270521	DC	Data Mining & Warehousing	50	10	20	20	-	-,	-	100	3	_	-	3	Blended	PP
2.	2270522	DC	Data Science	50	10	20	20	60	20	20	200	3	-	2			-
3.	2270523	DC	Theory of Computation	50	10	20	20			- 20	100			2	4	Blended	MCQ
4.	2270524	DC	Statistical Programming with R	50	10	20	20	60	20	20	200	3	-	2	3	Blended Blended	MCO
5.	2270525	DC	Soft Computing Techniques	50	10	20	20	-	-	-	100	3	_		3	Blended	PP
6.	2270526	DLC	Minor Project-I **		and the second second	_	-	60	40	h	100	-					
7.	2270527	Seminar/ Self-Study	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)#	-	•	-	- -	-	40	-	40	-	-	2	1	Offline Online and	SO
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)		ilui,	- r		50	-	-	50	-	-	2	1	Mentoring Interactive	SO
9.	2270528	DLC	Summer Internship Project-II (Evaluation)				-	60	-	-	60	-	-	4	2	Offline	SO
		Total	-	250	50	100	100	290	120	40	050	1.5	-	-		Onnie	130
10.	1000006	MAC	Disaster Management	50	10	20	20		120	40	950	15	-	16	23		-
	10			nternshi	p-III (On Job Tr			veeks dur	ation: Fral-	lotion in X	100	2	-	<u></u>	GRADE	Blended	MCQ
Ad	ditional Cours	e for Honours	or minor Specialization			Permitte	d to opt for ma	vimum two	additional cou	tation in V	11 Semeste	er					

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

MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral

٠		Mode of Tea	ching			Mode of F	xamination		Ţ—————
	Offline	Online and Mentoring	Blended	Interactive	PP	AO	MCO	60	
	4		17	1	9	0	NCO 8		Total Credits
Į	17.39	4.35	73.91	4.35	39.13	0	od 34.78	26.00	<u> </u>
1			٨				34.76	26.09	Credits %

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Scheme of Evaluation

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

(for batch admitted in academic session 2022 - 23)

							um Marks	Allotted				Contact Hours									
	Subject Code	Category	* **	Theory Slot			Practical SI	ot		per week			-								
S. No.				End Term Evaluation		Continuous Evaluation		End	Contii Evalu		Total			=	Total	Mode of	Mode of				
140.	Code	Code		ind Sem. Exam.	sProficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignme nt	Sem. Exam.	Lab work & Sessional	Skill Based Mini Project	Marks	L	Т	P	Credits	Teaching	Exam				
1.	2280521	DC	Data Mining & Warehousing	50	10	20	20	-	-	_	100	3	-	-	3	Blended	PP				
2.	2280522	DC	Data Science	50	10	20	20	60	20	20	200	3	-	2	4	Blended	MCQ				
3.	2280523	DC	Theory of Computation	50	10	20	20	-	<u>-</u>	- ,	100	3	-	-	3	Blended	PP				
4.	2280524	DC .	Statistical Programming with R	50	10	20	20	60	20	20	200	3	1-	2	4	Blended	MCQ				
5.	2280525	DC	Soft Computing Techniques	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP				
6.	2280526	DLC	Minor Project-I **	-				60	40	-	100	-	_	4	2	Offline	SO				
7.	2280527	Seminar/ Self-Study	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)#	-0 - 1		24		-	40	-	40	-	-	2	1	Online and Mentoring	so				
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-		- 3	= 1 = 1 = -	50	-	-	50	-,	-	2	1	Interactive	SO				
9.	2280528	DLC	Summer Internship Project-II (Evaluation)	51 -	<u>-</u> -^^		g 321 <u>-</u>	60	-	-	60	-	-	4	2	Offline	so				
	- A - 12 - 1 - 1 - 1 - 1	Total		250	50	100	100	290	120	40	950	15	-	16	23	-	+				
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-,	-	100	2	-	-	GRADE	Blended	МСС				

Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester

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MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral

Mode of Teaching Mode of Examination Offline Online and Mentoring Blended Interactive PP AO MCO SO **Total Credits** 17 6 17.39 4.35 73.91 4.35 39.13 34.78 Credits %

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List of courses to be opted for Honours in V Semester*

Note that the state of the stat	B. Tech. V Semester (Information (to be op		ogy (Artificial Intelligence and Robotics)) rent Department)
Course Code	Course Name	Course Code	Course Name
H24052601	Track 1: Information Security		Track 2: Internet of Things
	Cyber Security and Privacy (12 Weeks)	H24052603	Introduction to Internet of Things (12 Weeks)
H24032602	Ethical Hacking (12 Weeks)	H24052604	Sensor Technology: Physics, Fabrication and Circuits (8 Weeks)
H24052605 H24052606	Multi-Core Computer Architecture (12 Weeks) Distributed System (12 Weeks)	k 3: High Performanc	e Computing

B. Tech.	V Semester (Artificial (to be opted by students o	ial Intelligence (AI) and Data Science) ats of Parent Department)
Code Course Name	Course Co	Code Course Name
H27052601 Cyber Security and Privacy (12 Weeks)		Track 2: Internet of Things
H27052601 Cyber Security and Privacy (12 Weeks) H27052602 Ethical Hacking (12 Weeks)	H2705260	22603 Introduction to Internet of Things (12 Weeks)
112/03/2002 Ethical Hacking (12 Weeks)	H2705260	Sensor Technology: Physics Fabrication and Cinetic Court
H27052605 Multi-Core Computer Architecture (12	Track 3: High Perform	formance Computing
H27052606 Distributed System (12 Weeks)	iicks)	

Code	Course Name	ted by students of Pa	
	Track 1: Information Security	CONTRACTOR OF THE PARTY	Course Name
H28052601	Cyber Security and Privacy (12 Weeks)		Track 2: Internet of Things
H28052602	Ethical Hacking (12 Weeks)	H28052603	Introduction to Internet of Things (12 Weeks)
		H28052604	Densor Jechnology Dharing Division Divi
H28052605	Multi-Core Compute 1 1	k 3: High Performanc	Sensor Technology: Physics, Fabrication and Circuits (S Weeks)
H28052606			computing
	Distributed System (12 Weeks) through SWAYAM/NPTEL/ MOOC Learning Based Platfor		



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

J	List of courses offered under Self-learning/Presentation (SWAYAM/ NPTEL/MOOC)*
1,	Python for Data Science (4 Weeks)
2.	Software Conceptual Design (4 Weeks)
3.	Foundation of Cognitive Robotics (4 Weeks)
4.	Electronic System Design Hands on Circuits and PCB Design with CAD Software (12 Weeks)
5.	Gender Justice and Workplace Security (4 Weeks)

	Minor Specialization in Artificial Intelligence and Machine Learning* (to be opted by students of other Department)
S. No.	Course Name
1	The Joy of Computing using Python (12 weeks)
2	Introduction To Machine Learning – IITKGP(8 weeks)
3	Fundamentals of Artificial Intelligence (12 weeks)

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

Note: In each semester (starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/ Minor Specialization.

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