



Integral University

Study & Evaluation Scheme

B.Tech. CSE (Data Science & Artificial Intelligence) in association with IBM

w.e.f. 2026-27 (for admitted batch 2024-25 onwards)

Year III, Semester V

S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme						Subject Total	Attributes							United Nations Sustainable Development		
								Sessional (CA)							End Sem. Exam. (ESE)		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)
				L	T	P	C	CT		TA		Total	TE		PE									
								Theory	Practical	Theory	Practical													
1	PCC	CS301	Design and Analysis of Algorithm	3	0	2	4	50	15	25	10	100	75	25	200			√						4,9
2	PCC	CS391	Hadoop	4	0	2	5	50	15	25	10	100	75	25	200	√		√						4,9
3	PCC	CS392	Data Science and Use Cases	4	0	0	4	50		25		75	75		150			√						4,9
4	PEC		Departmental Elective-1*	3	0	0	3	50		25		75	75		150									
5	PEC		Departmental Elective-2*	3	0	0	3	50		25		75	75		150									
6	PCC	CS338	Mobile App Development Lab	0	0	2	1		15	10	10	25		25	50	√		√						4,9
7	MC	CG303	Career Development and Soft Skills	2	0	0	0						100		100	√						√		4
8	IPC	CS398	Internship/Industrial Training/Apprenticeship - I	0	0	0	2				100	100			100	√		√						4,9
Total				19	0	6	22	250	45	135	130	550	475	75	1100									

Departmental Elective-1*	CS334	Cloud Computing																√					4,9,11
	CS341	Introduction to Internet of Things																√					4,9
Departmental Elective-2*	CS312	Digital Image Processing														√		√					4
	CS342	Data Compression																√					4

L - Lecture	T - Tutorial	P - Practical	C - Credits	CT - Class Test	TA - Teacher Assessment
Sessional Total (CA) = Class Test (CT) + Teacher Assessment (TA)					
TE = Theory Exam			PE = Practical Exam		
Subject Total (CA) = Sessional Total (CA) + End Semester Examination (ESE)					
BSC - Basic Science Courses			PCC - Professional Core Courses		
PEC - Professional Elective Courses			ESC - Engineering Science Courses		
IPC - Internship/Project Courses			MC - Mandatory Course		
HSSM - Humanities, Social Sciences and Management Courses			OEC - Open Elective Courses		



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Year III, Semester VI

S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme						Subject Total	Attributes							United Nations Sustainable Development		
								Sessional (CA)							End Sem. Exam. (ESE)		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)
				L	T	P	C	CT		TA		Total	TE		PE									
								Theory	Practical	Theory	Practical													
1	PCC	CS292	Theory of Computation	3	0	0	3	50		25		75	75		150			√						4
2	PCC	CS315	Compiler Design	3	0	2	4	50	15	25	10	100	75	25	200			√						4,9
3	PCC	CS305	Computer Networks	3	0	2	4	50	15	25	10	100	75	25	200	√	√	√						4,9
4	PCC	CS412	Cryptography and Network Security	3	0	0	3	50		25		75	75		150	√	√	√						4,9
5	PEC		Departmental Elective3*	3	0	0	3	50		25		75	75		150									
6	PCC	CS394	Artificial Intelligence Analyst	4	0	2	5	50	15	25	10	100	75	25	200	√	√	√						4,9
Total				19	0	6	22	300	45	150	30	525	450	75	1050									

Departmental Elective3*	CS345	Advance Computer Architecture																✓						4,9
	CS320	Real Time System																✓						4
	CS346	Concepts in Advanced Database System														✓		✓						4

L - Lecture T - Tutorial P - Practical C - Credits CT - Class Test TA - Teacher Assessment

Sessional Total (CA) = Class Test (CT) + Teacher Assessment (TA)

TE = Theory Exam

PE = Practical Exam

Subject Total (CA) = Sessional Total (CA) + End Semester Examination (ESE)

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