



Integral University
Study & Evaluation Scheme

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

w.e.f. 2020-2021

Year II, Semester III

S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	Attributes						United Nations Sustainable Development Goals (SDGs)					
				L	T	P	C	CT	TA	Total		End Sem. Exam. (ESE)	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability		Human Value	Professional Ethics			
1	DC	CS-204	Data Structure using C	3	1	0	4	40	20	60	40	100	√		√							4,9	
2	DC	CS-270	Object Oriented Concepts using Java	3	1	0	4	40	20	60	40	100	√		√							4	
3	DC	CS-260	Data Science Fundamentals (DE-1)	3	1	0	4	40	20	60	40	100										4,9	
4	ESA	EC-209	Digital Electronics	3	1	0	4	40	20	60	40	100			√							4,8	
5	DC	CS-206	Discrete Structure	3	1	0	4	40	20	60	40	100			√							4	
6	ESA	CS-203	Cyber Law & Information Security	2	1	0	3	40	20	60	40	100	√		√					√		11,16	
*	HM	BM-226	Human Values and Professional Ethics	3	0	0	0	-	-	-	50	50							√	√		3,10,13	
7	DC	CS-208	Data Structure Using C Lab	0	0	2	1	30	30	60	40	100	√		√							4,9	
8	DC	CS-272	Python Programming Lab	0	0	2	1	30	30	60	40	100	√	√	√							4,9	
9	DC	CS-271	Object Oriented Concepts using Java Lab	0	0	2	1	30	30	60	40	100	√		√							4,9	
10	ESA	EC-214	Digital Electronics Lab	0	0	2	1	30	30	60	40	100			√							4,8	
Total				20	6	8	27	360	240	600	400	1000											
				L - Lecture	T - Tutorial	P - Practical	C - Credits	CT - Class Test			TA - Teacher Assessment												
													Sessional Total (CA) = Class Test (CT) + Teacher Assessment (TA)										
													Subject Total (CA) = Sessional Total (CA) + End Semester Examination (ESE)										
						BS - Basic Sciences						DC - Departmental Core											
						HM - Humanities						OE - Open Elective											
						DE - Departmental Elective						ESA - Engineering Sciences & Arts (Foundation Course & Engineering Course)											



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B.Tech. CSE (Data Science & Artificial Intelligence) in association with IBM
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Year II, Semester IV

S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	Attributes						United Nations Sustainable Development		
				L	T	P	C	Sessional (CA)		End Sem. Exam. (ESE)		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)	
								CT	TA											Total
1	DC	CS-261	Cloud Application Development	3	1	0	4	40	20	60	40	100	√	√	√					4,9,11
2	ESA	MT-206	Mathematical Analysis	3	1	0	4	40	20	60	40	100	√		√					9
3	DC	CS-212	Database Management System	3	1	0	4	40	20	60	40	100	√		√					4
4	DC	CS-284	Computer Organization & Architecture	3	1	0	4	40	20	60	40	100			√					4,9
5	ESA	ES-202	Disaster Management	2	1	0	3	40	20	60	40	100			√		√			3,9,11,17
6	DC	CS-281	Graph Theory and Applications	3	1	0	4	40	20	60	40	100			√					4
7	DC	CS-285	Computer Organization & Architecture Lab	0	0	2	1	30	30	60	40	100			√					4,9
8	DC	CS-266	Cloud Application Development Lab	0	0	2	1	30	30	60	40	100	√	√	√					4,9,11
9	DC	CS-282	Advance Java Programming Lab	0	0	2	1	30	30	60	40	100	√	√	√					4,9
10	DC	CS-220	DBMS Lab	0	0	2	1	30	30	60	40	100	√		√					4,9
11	DC	CS-286	Comprehensive Annual Assessment - I	0	0	0	1	0	100	100	0	100	√		√					4
Total				17	6	8	28	360	340	700	400	1100								

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

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

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

BS - Basic Sciences

DC - Departmental Core

HM - Humanities

OE - Open Elective

DE - Departmental Elective

ESA - Engineering Sciences & Arts (Foundation Course & Engineering Course)