



**Integral University**  
**Study & Evaluation Scheme**  
**B. Tech. (Computer Science & Engineering) specialization in CTIS**  
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)			
								Sessional (CA)	End Sem. Exam. (ESE)	Employability		Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics				
				L	T	P	C												CT	TA	Total
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	ESA	CS-230	Introduction to Communication Skills	3	1	0	4	40	20	60	40	100	√	√	√				√	√	4
4	DC	CS-231	Computer Architecture and Organization	3	1	0	4	40	20	60	40	100			√						4,9
5	DC	CS-239	Operating System Building Blocks	3	1	0	4	40	20	60	40	100			√						4,9
6	DC	CS-254	Introduction to Information Security &	2	1	0	3	40	20	60	40	100	√	√	√						4,9
*	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	DC	CS-237	Information Security Lab	0	0	2	1	30	30	60	40	100	√	√	√						4,9
<b>Total</b>				<b>20</b>	<b>6</b>	<b>8</b>	<b>27</b>	<b>360</b>	<b>240</b>	<b>600</b>	<b>400</b>	<b>1000</b>									

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)



**Integral University**  
**Study & Evaluation Scheme**  
**B. Tech. (Computer Science & Engineering) specialization in CTIS**  
**w.e.f. 2020-2021**

**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	Goals (SDGs)	
1	ESA	MT-206	Mathematical Analysis	3	1	0	4	40	20	60	40	100	√		√					9
2	DC	CS-212	Database Management System	3	1	0	4	40	20	60	40	100	√		√					4
3	DC	CS-240	Desktop Operating System	3	1	0	4	40	20	60	40	100			√					4
4	DC	CS-246	Enterprise Network Engineering	3	1	0	4	40	20	60	40	100	√	√	√					4,8
5	DC	CS-248	Introduction to Linux	2	1	0	3	40	20	60	40	100			√					4,9
6	DC	CS-244	Network Security Basics	3	1	0	4	40	20	60	40	100			√					4,9,12
7	DC	CS-249	Introduction to Linux Lab	0	0	2	1	30	30	60	40	100	√	√	√					4,9
8	DC	CS-245	Network Security Basics Lab	0	0	2	1	30	30	60	40	100	√	√	√					4,9,12
9	DC	CS-241	Desktop Operating System Lab	0	0	2	1	30	30	60	40	100	√		√					4,9
10	DC	CS-247	Enterprise Network Engineering- Lab	0	0	2	1	30	30	60	40	100	√	√	√					4,9
11	DC	CS-220	DBMS Lab	0	0	2	1	30	30	60	40	100	√		√					4,9
12	DC	CS-286	Comprehensive Annual Assessment - I	0	0	0	1	0	100	100	0	100	√		√					4
<b>Total</b>				<b>17</b>	<b>6</b>	<b>10</b>	<b>29</b>	<b>390</b>	<b>370</b>	<b>760</b>	<b>440</b>	<b>1200</b>								

**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)