

Integral University												
Study & Evaluation Scheme												
B. Tech. First Year (Common to all branches)												
w.e.f. 2020-2021												
Year I, Semester I												
S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
								Sessional (CA)				End Sem. Exam. (ESE)
				L	T	P	C	CT	TA	Total		
1	BS	PY-101	Physics	3	1	0	4	40	20	60	40	100
2	HM	LN-101	Professional Communication-I	2	1	0	3	40	20	60	40	100
3	BS	MT-101	Engineering Mathematics-I	3	1	0	4	40	20	60	40	100
4	ESA	EE-103	Basic Electrical Engineering	3	1	0	4	40	20	60	40	100
5	ESA	EC-101	Basic Electronics	3	1	0	4	40	20	60	40	100
6	BS	PY-104	Physics Lab	0	0	2	1	30	30	60	40	100
7	ESA	EE-104	Electrical Engineering Lab	0	0	2	1	30	30	60	40	100
8	ESA	ME-103	Engineering Graphics	0	0	2	1	30	30	60	40	100
9	HM	ME-104	Workshop Practice	0	1	2	2	30	30	60	40	100
<b>Total</b>				<b>14</b>	<b>6</b>	<b>8</b>	<b>24</b>	<b>320</b>	<b>220</b>	<b>540</b>	<b>360</b>	<b>900</b>
<b>L - Lecture      T - Tutorial      P - Practical      C - Credits      CT - Class Test      TA - Teacher Assessment</b>												
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												
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w.e.f. 2020-2021												
Year I, Semester II												
S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
								Sessional (CA)				End Sem. Exam. (ESE)
				L	T	P	C	CT	TA	Total		
1	BS	CH-101	Chemsitry	3	1	0	4	40	20	60	40	100
2	ES	ES-101	Environmental Studies	2	1	0	3	40	20	60	40	100
3	BS	MT-112	Engineering Mathematics II	3	1	0	4	40	20	60	40	100
4	ESA	ME-101	Basic Mechanical Engineering	3	1	0	4	40	20	60	40	100
5	ESA	CS-101	Computer Programming	3	1	0	4	40	20	60	40	100
6	BS	CH-102	Engineering Chemistry Lab	0	0	2	1	30	30	60	40	100
7	ESA	ME-102	Mechanical Engineering Lab	0	0	2	1	30	30	60	40	100
8	ESA	CS-102	Computer Programming Lab	0	0	2	1	30	30	60	40	100
9	HM	LN-151	Professional Communication Lab	0	1	2	2	30	30	60	40	100
<b>Total</b>				<b>14</b>	<b>6</b>	<b>8</b>	<b>24</b>	<b>320</b>	<b>220</b>	<b>540</b>	<b>360</b>	<b>900</b>
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**Integral University**  
**Study & Evaluation Scheme**  
**B. Tech. (Computer Science & Engineering)**  
**w.e.f. 2020-2021**

**Year II, Semester III**

S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
				L	T	P	C	Sessional (CA)		End Sem.		
								CT	TA			Total
1	DC	CS-204	Data Structure using C	3	1	0	4	40	20	60	40	100
2	DC	CS-270	Object Oriented Concepts using Java	3	1	0	4	40	20	60	40	100
3	ESA	BM-225	Principles of Management and Engineering Economics	3	1	0	4	40	20	60	40	100
4	ESA	EC-209	Digital Electronics	3	1	0	4	40	20	60	40	100
5	DC	CS-206	Discrete Structure	3	1	0	4	40	20	60	40	100
6	ESA	CS-203	Cyber Law & Information Security	2	1	0	3	40	20	60	40	100
*	HM	BM-226	Human Values and Professional Ethics	3	0	0	0	-	-	-	50	50
7	DC	CS-208	Data Structure Using C Lab	0	0	2	1	30	30	60	40	100
8	DC	CS-272	Python Programming Lab	0	0	2	1	30	30	60	40	100
9	DC	CS-271	Object Oriented concepts using Java	0	0	2	1	30	30	60	40	100
10	ESA	EC-214	Digital Electronics Lab	0	0	2	1	30	30	60	40	100
<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>

<b>L - Lecture</b>	<b>T - Tutorial</b>	<b>P - Practical</b>	<b>C - Credits</b>	<b>CT - Class Test</b>	<b>TA - Teacher Assessment</b>
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B. Tech. (Computer Science & Engineering)												
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Year II, Semester IV												
S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
								Sessional (CA)				End Sem. Exam. (ESE)
				L	T	P	C	CT	TA	Total		
1	DC	CS-207	Computer Graphics	3	1	0	4	40	20	60	40	100
2	ESA	MT-206	Mathematical Analysis	3	1	0	4	40	20	60	40	100
3	DC	CS-212	Database Management System	3	1	0	4	40	20	60	40	100
4	DC	CS-284	Computer Organization & Architecture	3	1	0	4	40	20	60	40	100
5	ESA	ES-202	Disaster Management	2	1	0	3	40	20	60	40	100
6	DC	CS281	Graph theory and applications	3	1	0	4	40	20	60	40	100
7	DC	CS-285	Computer Organization & Architecture Lab	0	0	2	1	30	30	60	40	100
8	DC	CS-283	Computer Graphics Lab	0	0	2	1	30	30	60	40	100
9	DC	CS282	Advance Java Programming Lab	0	0	2	1	30	30	60	40	100
10	DC	CS-220	DBMS Lab	0	0	2	1	30	30	60	40	100
11	DC	CS-286	Comprehensive Annual Assessment - I	0	0	0	1	0	100	100	0	100
<b>Total</b>				<b>17</b>	<b>6</b>	<b>8</b>	<b>28</b>	<b>360</b>	<b>340</b>	<b>700</b>	<b>400</b>	<b>1100</b>
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B. Tech. (Computer Science & Engineering)												
w.e.f. 2020-2021												
Year III, Semester V												
S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
				L	T	P	C	Sessional (CA)				End Sem. Exam. (ESE)
								CT	TA	Total		
1	DC	CS-301	Design and Analysis of Algorithm	3	1	0	4	40	20	60	40	100
2	DC	CS-303	Principles of Operating System	3	1	0	4	40	20	60	40	100
3	DC	CS-304	Theory of Automata and Formal Languages	3	1	0	4	40	20	60	40	100
4	DC	CS340	Software Engineering	3	1	0	4	40	20	60	40	100
5	DE		Departmental Elective-1	3	1	0	4	40	20	60	40	100
6	DE		Departmental Elective-2	3	1	0	4	40	20	60	40	100
7	DC	CS-343	Visual Programming Lab	0	0	2	1	30	30	60	40	100
8	DC	CS-310	Open Source Lab	0	0	2	1	30	30	60	40	100
9	DC	CS-302	Design and Analysis of Algorithm lab	0	0	2	1	30	30	60	40	100
<b>Total</b>				<b>18</b>	<b>6</b>	<b>6</b>	<b>27</b>	<b>330</b>	<b>210</b>	<b>540</b>	<b>360</b>	<b>900</b>
<b>Departmental Elective-1</b>		CS-334	Cloud Computing									
		CS341	Introduction to Internet of Things									
<b>Departmental Elective-2</b>		CS-312	Digital Image Processing									
		CS342	Data Compression									
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B. Tech. (Computer Science & Engineering)												
w.e.f. 2020-2021												
Year III, Semester VI												
S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
								Sessional (CA)				End Sem. Exam. (ESE)
				L	T	P	C	CT	TA	Total		
1	DC	CS-313	Microprocessor and its Applications	3	1	0	4	40	20	60	40	100
2	DC	CS-315	Compiler Design	3	1	0	4	40	20	60	40	100
3	DC	CS305	Computer Networks	3	1	0	4	40	20	60	40	100
4	OE		Open Elective-1	3	1	0	4	40	20	60	40	100
5	DE		Departmental Elective-3	3	1	0	4	40	20	60	40	100
6	DE		Departmental Elective-4	3	1	0	4	40	20	60	40	100
7	DC	CS-316	Compiler Design Lab	0	0	2	1	30	30	60	40	100
8	DC	CS-314	Microprocessor Lab	0	0	2	1	30	30	60	40	100
9	DC	CS-306	Computer Networks Lab	0	0	2	1	30	30	60	40	100
10	DC	CS-386	Comprehensive Annual Assessment - II	0	0	0	1	0	100	100	0	100
<b>Total</b>				<b>18</b>	<b>6</b>	<b>6</b>	<b>28</b>	<b>330</b>	<b>310</b>	<b>640</b>	<b>360</b>	<b>1000</b>
<b>Departmental Elective-3</b>		CS-345	Advance Computer Architecture									
		CS-320	Real Time System									
		CS-346	Concepts in Advanced Database System									
<b>Departmental Elective-4</b>		CS-311	Software Project & Quality Management									
		CS-347	Green Computing									
		CS-348	Human Computer Interaction									
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B. Tech. (Computer Science & Engineering)												
w.e.f. 2020-2021												
Year IV, Semester VII												
S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
								Sessional (CA)				End Sem. Exam. (ESE)
				L	T	P	C	CT	TA	Total		
1	DC	CS-422	Artificial Intelligence	3	1	0	4	40	20	60	40	100
2	DC	CS-410	Distributed System	3	1	0	4	40	20	60	40	100
3	DC	CS-412	Cryptography and Network Security	3	1	0	4	40	20	60	40	100
4	DE		Departmental Elective-5	3	1	0	4	40	20	60	40	100
5	DE		Departmental Elective-6	3	1	0	4	40	20	60	40	100
6	DC	CS-424	SciLab	0	0	2	1	30	30	60	40	100
7	DC	CS-423	Artificial Intelligence Lab	0	0	2	1	30	30	60	40	100
8	DC	CS-421	Minor Project	0	0	2	1	30	30	60	40	100
9	DC	CS-300	Industrial Training	0	0	0	0	0	0	0	0	100
<b>Total</b>				<b>15</b>	<b>5</b>	<b>6</b>	<b>23</b>	<b>290</b>	<b>190</b>	<b>480</b>	<b>320</b>	<b>900</b>
<b>Departmental Elective-5</b>		CS-417	Mobile Computing									
		CS-415	Fuzzy Logic & Neural Networks									
<b>Departmental Elective-6</b>		CS-418	Data Warehousing and Data Mining									
		CS-419	Pattern Recognition									
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w.e.f. 2020-2021												
Year IV, Semester VIII												
S. No.	Course Category	Subject Code	Name of Subject	Periods				Evaluation Scheme			Subject Total	
				L	T	P	C	Sessional (CA)		End Sem.		
								CT	TA			Total
1	DC	CS-451	Seminar	0	0	0	2	0	100	100	0	100
2	DC	CS-499	B. Tech. Project	0	0	0	4	0	60	60	40	100
3	DC	CS-499	B. Tech. Project	0	0	0	4	0	60	60	40	100
4	DC	CS-499	B. Tech. Project	0	0	0	4	0	60	60	40	100
5	DC	CS-452	Comprehensive Viva	0	0	0	1	0	100	100	0	100
6	OE		Open Elective-2	3	1	0	4	40	20	60	40	100
<b>Total</b>				<b>3</b>	<b>1</b>	<b>0</b>	<b>19</b>	<b>40</b>	<b>400</b>	<b>440</b>	<b>160</b>	<b>600</b>
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Total credits of BTech (CSE)=

200