INTEGRAL UNIVERSITY LUCKNOW
Department of Computer Science & Engineering
Study and evaluation Scheme
B.Tech CSE (CLOUD TECHNOLOGY AND INFORMATION SECURITY)

Semester III

Sl. No	Subject Code	Category	Subject	Periods				Evaluation Scheme				Subject Total
								Sessional			Exam	
				L	T	P	C	CT	TA	CA	ESE	
1	CS-230	HM	Introduction to Communication Skills	2	1	0	3	40	20	60	40	100
2	CS-231	DC	Computer Architecture	2	1	0	3	40	20	60	40	100
3	CS-232	DC	Data Structures & Algorithms	2	1	0	3	40	20	60	40	100
4	CS-234	DC	Object Oriented Programming using JAVA	2	1	0	3	40	20	60	40	100
5	CS-254	DC	Introduction to Information Security & Cryptography	3	1	0	4	40	20	60	40	100
6	CS-252	DC	Python Programming	3	1	0	4	40	20	60	40	100
7	CS-239	DC	Operating System Building Blocks	2	1	0	3	40	20	60	40	100
8	BM-226	HM	Human Values and Professional Ethics	3	0	0	-	-	-	-	50	50
9	CS-233	DC	Data Structures& Algorithms Lab	0	0	2	1	30	30	60	40	100
10	CS-235	DC	Object Oriented Programming using JAVA Lab	0	0	2	1	30	30	60	40	100
11	CS-237	DC	Information Security Lab	0	0	2	1	30	30	60	40	100
12	CS-286	DC	Comprehensive Annual Assessment - I	0	0	0	0			100		100
			TOTAL	**16**	**6**	**8**	**27**	**370**	**230**	**700**	**450**	**1150**

L – Lecture T – Tutorial P – Practical C – Credits CT – Class Test TA – Teacher Assessment
Sessional Total (CA) = Class Test + Teacher Assessment
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BS – Basic Sciences DC – Departmental Core HM – Humanities OE – Open Elective
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Semester IV

Sl. No	Subject Code	Category	Subject	Periods				Evaluation Scheme				Subject Total
								Sessional			Exam	
				L	T	P	C	CT	TA	CA	ESE	
1	CS-240	DC	Desktop Operating System	2	1	0	3	40	20	60	40	100
2	CS-242	DC	Relational Database Management Systems	2	1	0	3	40	20	60	40	100
3	CS-244	DC	Network Security Basics	3	1	0	4	40	20	60	40	100
4	CS-246	DC	Enterprise Network Engineering	3	1	0	4	40	20	60	40	100
5	CS-248	DC	Introduction to Linux	2	1	0	3	40	20	60	40	100
6	MT-206	BS	Mathematical Analysis	3	1	0	4	40	20	60	40	100
7	CS-247	DC	Enterprise Network Engineering- Lab	0	0	2	1	30	30	60	40	100
8	CS-243	DC	Relational Database Management Systems Lab	0	0	2	1	30	30	60	40	100
9	CS-249	DC	Introduction to Linux Lab	0	0	2	1	30	30	60	40	100
10	CS-245	DC	Network Security Basics Lab	0	0	2	1	30	30	60	40	100
11	CS-241	DC	Desktop Operating System Lab	0	0	2	1	30	30	60	40	100
			TOTAL	**16**	**6**	**8**	**26**	**390**	**270**	**660**	**440**	**1100**

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				Periods				Evaluation Scheme				Subject Total
								Sessional			Exam	
Sl. No	Subject Code	Category	Subject	L	T	P	C	CT	TA	CA	ESE	
1	CS-361	DC	Logical Reasoning and Thinking	2	1	0	3	40	20	60	40	100
2	CS-353	DC	Storage Technologies	2	1	0	3	40	20	60	40	100
3		DE	Departmental Elective I	3	1	0	4	40	20	60	40	100
4	CS-357	DC	Installation & Configuration of Server	3	1	0	4	40	20	60	40	100
5	CS-355	DC	Ethical Hacking	3	1	0	4	40	20	60	40	100
6	CS-351	DC	Cloud Technology	3	1	0	4	40	20	60	40	100
7	CS-354	DC	Storage Technologies Lab	0	0	2	1	30	30	60	40	100
8	CS-356	DC	Ethical Hacking Lab	0	0	2	1	30	30	60	40	100
9	CS-358	DC	Installation & Configuration of Server Lab	0	0	2	1	30	30	60	40	100
10	CS-352	DC	Cloud Technology Lab	0	0	2	1	30	30	60	40	100
			TOTAL	16	6	8	26	360	240	600	400	1000

Semester V

Departmental Elective I
- **Security Architecture CS-359**
- **Database Security CS 363**
- **Server Security   CS 364**
- **Any Online MOOC from the suggested list by the Department. Duration should be of at least 12 weeks so as to fulfil 4 credits**

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Semester VI

| Sl. No | Subject Code | Category | Subject | Periods | | | | Evaluation Scheme | | | | Subject Total |
| | | | | L | T | P | C | Sessional | | | Exam | |
								CT	TA	CA	ESE	
1		OE	Open Elective-1	-	-	-	4	40	20	60	40	100
2	CS 371	DC	Web Technology	3	1	0	4	40	20	60	40	100
3	CS 372	DC	Theory of Automata and Compiler Design	3	1	0	4	40	20	60	40	100
4	CS 373	DC	Cloud Security	2	1	0	3	40	20	60	40	100
5	CS 374	DC	Principles of Virtualization	3	1	0	4	40	20	60	40	100
6	CS 375	DC	Infrastructure Solutions on Cloud	2	1	0	3	40	20	60	40	100
7		DE	Departmental Elective II	3	1	0	4	40	20	60	40	100
8	CS 376	DC	Infrastructure Solutions on Cloud Lab	0	0	2	1	30	30	60	40	100
9	CS 377	DC	Principles of Virtualization Lab	0	0	2	1	30	30	60	40	100
10	CS 399	P	Mini Project-I	0	0	2	1			60	40	100
			TOTAL	16	6	6	29	340	260	600	400	1000

Departmental Elective II
• Information Security Emerging Trends   CS 378
• Cyber Security Incident Response Management   CS 379
• Application Security   CS 380
• Any Online MOOC from the suggested list by the Department. Duration should be of at least 12 weeks so as to fulfil 4 credits

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<div align="right">Semester VII</div>

Sl. No	Subject Code	Category	Subject	Periods				Evaluation Scheme				Subject Total
								Sessional			Exam	
				L	T	P	C	CT	TA	CA	ESE	
1		DE	Departmental Elective III	3	1	0	4	40	20	60	40	100
2	CS 461	DC	Cyber Forensics & Investigation	3	1	0	4	40	20	60	40	100
3	CS 462	DC	Cloud Web Services	3	1	0	4	40	20	60	40	100
4	CS 463	DC	Linux Administration	2	1	0	3	40	20	60	40	100
5	CS 464	DC	Disaster Recovery and Bu	2	1	0	3	40	20	60	40	100
6		DE	Departmental Elective IV	3	1	0	4	40	20	60	40	100
7	CS 465	DC	Cyber Forensics & Investigation- Lab	0	0	2	1	30	30	60	40	100
8	CS 466	DC	Cloud Web Services Lab	0	0	2	1	30	30	60	40	100
9	CS 467	DC	Linux Administration Lab	0	0	2	1	30	30	60	40	100
10	CS 479	P	Mini Project – 2	0	0	2	1	-	-	60	40	100
11	CS300	P	Industrial Training*	-	-	-	0	0	0	100	0	100
			TOTAL	16	6	8	26	330	210	700	400	1100

*A student must clear this paper with 50% passing marks up to the final year and marks will not be included in

Departmental Elective III

·	Exchange Server Administration	CS 468
·	Advanced Virtualization	CS 469
·	Infrastructure Automation	CS 470
·	Any Online MOOC from the suggested list by the Department. Duration should be of at least 12 weeks so as to fulfil 4 credits

Departmental Elective IV

·	IT Governance, Risk and Information Security Management	CS 471
·	COBIT VALIT RISKIT	CS 472
·	ISO 27001, PCI DSS & HIPAA	CS 473
·	Any Online MOOC from the suggested list by the Department. Duration should be of at least 12 weeks so as to fulfil 4 credits

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Semester VIII

Sl. No	Category	Subject	Periods				Evaluation Scheme				Subject Total
							Sessional			Exam	
			L	T	P	C	CT	TA	CA	ESE	
1	DC	IT Infrastructur...	2	1	0	3	40	20	60	40	100
2	OE	Open Elective II	-	-	-	4	40	20	60	40	100
3	DC	B. Tech Project	-	-	8	4	-	60	60	40	100
4	DC	B. Tech Project	-	-	8	4	-	60	60	40	100
5	DC	B. Tech Project	-	-	8	4	-	60	60	40	100
6	DC	Comprehensive Viva	-	-	-	0	-	100	100		100
		TOTAL	**2**	**1**	**24**	**19**	**80**	**320**	**400**	**200**	**600**

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Total Credit of the Course: 24+24+26+26+26+29+26+19=200