



# Sandip University

Neelam Vidya Vihar, Vill.: Sijoul. P.O. : Mailam, Dist.:Madhubani, Bihar -847235

Website : <http://www.sandipuniversity.edu.in>

Toll-Free No.- 1800-313-2714 Ph: 7549991044.

## School of Engineering

### Course Structure for Undergraduate Second Year Programme of Bachelor of Computer Science & Engineering (B.Tech.) Semester – III

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	T	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	CS301T	Engineering Mathematics-III	3	1	--	4	4	2.5	40	60	--	--	100
02	CS302T	Digital Electronic Circuit	3	--	--	3	3	2.5	40	60	--	--	100
03	CS303T	Data Structure	3	1	--	4	4	2.5	40	60	--	--	100
04	CS304T	Discrete Mathematical Structure	3	1	--	4	4	2.5	40	60	--	--	100
05	CS305T	Object Oriented & Programming	3		--	3	3	2.5	40	60	--	--	100
06	CS306P	Digital Electronic Lab	--		3	3	1	--	--	--	25	25	50
07	CS307P	Data Structure Lab	--		3	3	1	--	--	--	25	25	50
08	CS308P	Object Oriented & Programming Lab	--		3	3	1	--	--	--	25	25	50
<b>Total</b>			<b>15</b>	<b>3</b>	<b>9</b>	<b>27</b>	<b>21</b>		<b>200</b>	<b>300</b>	<b>75</b>	<b>75</b>	<b>650</b>

**CIA : Continuous Internal Assessment**

**L : Lecture**

**T : Tutorial**

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## School of Engineering

### Course Structure for Undergraduate Second Year Programme of Bachelor of Computer Science & Engineering (B.Tech.) Semester – IV

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	T	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	CS401T	Computer Organization And Architecture	3	1	--	4	4	2.5	40	60	--	--	100
02	CS402T	Formal Language & Automata Theory	3	1	--	4	4	2.5	40	60	--	--	100
03	CS403T	Programming in Python & Java	3	--	--	3	3	2.5	40	60	--	--	100
04	CS404T	Design And Analysis of Algorithm	3	1	--	4	4	2.5	40	60	--	--	100
05	CS405T	Web Application Design & Development	3	1	--	4	4	2.5	40	60	--	--	100
06	CS406P	Programming in Python & Java Lab	--		3	3	1	--	--	--	25	25	50
07	CS407P	Design And Analysis of Algorithm Lab	--		3	3	1	--	--	--	25	25	50
08	CS408P	Web Application Design & Development Lab	--		3	3	1	--	--	--	25	25	50
09	CS409P	Internship Training (4 Week)	--	--	--	--	3	--	--	--	--	--	--
<b>Total</b>			<b>15</b>	<b>4</b>	<b>9</b>	<b>28</b>	<b>25</b>		<b>200</b>	<b>300</b>	<b>75</b>	<b>75</b>	<b>650</b>

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## School of Engineering

### Course Structure for Undergraduate Third Year Programme of Bachelor of Computer Science & Engineering (B.Tech.)

#### Semester – V

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	T	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	CS501T	Database Management System	3	1	--	4	4	2.5	40	60	--	--	100
02	CS502T	Data Communication & Computer Networks	3	--	--	3	3	2.5	40	60	--	--	100
03	CS503T	Software Engineering	3	--	--	3	3	2.5	40	60	--	--	100
04	CS504T	Operating System	3	1	--	4	4	2.5	40	60	--	--	100
05	CS505T	Operation Research	3	1	--	4	4	2.5	40	60	--	--	100
06	CS506P	Database Management System Lab	--		3	3	1	--	--	--	25	25	50
07	CS507P	Operating System Lab	--		3	3	1	--	--	--	25	25	50
08	CS508P	Computer Network Lab	--		3	3	1	--	--	--	25	25	50
<b>Total</b>			<b>15</b>	<b>3</b>	<b>9</b>	<b>27</b>	<b>21</b>		<b>200</b>	<b>300</b>	<b>75</b>	<b>75</b>	<b>650</b>

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## School of Engineering

### Course Structure for Undergraduate Third Year Programme of Bachelor of Computer Science & Engineering (B.Tech.) Semester – VI

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	T	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	CS601T	Artificial Intelligence	3	--	--	3	3	2.5	40	60	--	--	100
02	CS602T	Data Science	3	--	--	3	3	2.5	40	60	--	--	100
03	CS603T	Compiler Design	3	--	--	3	3	2.5	40	60	--	--	100
04	CS604T	Computer Graphics	3	--	--	3	3	2.5	40	60	--	--	100
05	CS605T	Unix System Programming	3	--	--	3	3	2.5	40	60	--	--	100
06	CS606P	Data Science Lab	--		3	3	1	--	--	--	25	25	50
07	CS607P	Computer Graphics Lab	--		3	3	1	--	--	--	25	25	50
08	CS608P	Unix System Programming Lab	--		3	3	1	--	--	--	25	25	50
09	CS609P	Internship Training (4 Week)	--	--	--	--	3	--	--	--	--	--	--
<b>Total</b>			<b>15</b>	<b>0</b>	<b>9</b>	<b>24</b>	<b>21</b>		<b>200</b>	<b>300</b>	<b>75</b>	<b>75</b>	<b>650</b>

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## School of Engineering

### Course Structure for Undergraduate Final Year Programme of Bachelor of Computer Science & Engineering (B.Tech.) Semester – VII

Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				Credits	Examination Scheme					
			L	T	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
										Th	P	TW	
01	CS701T	Principle of Programming Language	3	1	--	4	4	2.5	40	60	--	--	100
02	CS702T	Management & Entrepreneurship	3	--	--	3	3	2.5	40	60	--	--	100
03	CS703T	Machine Learning	3	1	--	4	4	2.5	40	60	--	--	100
04	CS704T	Elective I	3	1	--	4	4	2.5	40	60	--	--	100
05	CS705T	Elective II	3	--	--	3	3	2.5	40	60	--	--	100
06	CS706P	Principle of Programming Language Lab	--		3	3	1	--	--	--	25	25	50
07	CS707P	Project Work (Phase I)			3	3	1				25	25	50
08	CS708P	Professional Skills			3	3	1				25	25	50
<b>Total</b>			<b>15</b>	<b>3</b>	<b>9</b>	<b>27</b>	<b>21</b>		<b>200</b>	<b>300</b>	<b>75</b>	<b>75</b>	<b>650</b>

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**Elective I**

Cloud Computing

Natural Language Processing

Big Data

Wireless Networking & Mobile Computing

Deep Learning

Data Mining

**Elective II**

Information & Network Security

Internet of Things

Cryptography & Network Security

Digital Image Processing

Distributed System

Information Retrieval



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## School of Engineering

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Sr. No.	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)			Credits	Examination Scheme					
			L	P	Total		Duration University Exam. (Hrs.)	CIA	University Exam. (Maximum Marks)			Total Marks
									Th	P	TW	
01	CS801P	Seminar/ Technical Report Writing	--	3	3	02	--	--	--	--	200	200
02	CS802P	Project Work (Phase II)	--	18	18	14	--	--	--	150	100	250
<b>Total</b>			<b>00</b>	<b>21</b>	<b>21</b>	<b>16</b>		<b>--</b>	<b>--</b>	<b>150</b>	<b>300</b>	<b>450</b>

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