

JIS College of Engineering

(An Autonomous Institution)

Department of Computer Science and Engineering

Full Curriculum of B.Tech. in Computer Science and Engineering

Programme under Autonomous Framework

1st to 8th Semester. September 2015 repint following 5th BOS meeting dated 24.09.2015

Total Credit- 219

1st semester

A. Theory							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	M(CSE)101	Engineering Mathematics-I	3	1	0	4	4
2	HU 101	Professional Communication	3	0	0	3	2
3	PH 101	Physics-I	3	0	0	3	3
4	CS 101	Computer Fundamentals & Application	3	0	0	3	3
5	ME 101	Engineering Mechanics	3	1	0	4	4
		Total of Theory	17				16
B. Practical							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	ME 191	Workshop Practice	1	0	3	4	3
2	PH 191	Physics- I Lab	0	0	3	3	2
3	HU 191	Language Lab	0	0	3	3	2
4	ME 192	Engineering Drawing	0	0	3	3	3
5	CS 191	Computer Application Lab	0	0	3	3	2
6	XC181	NCC/NSS	0	0	3	3	1
		Total of Practical	19				13
		Total of Semester	36				29

2nd Semester

A. Theory							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	M(CSE)201	Engineering Mathematics-II	3	1	0	4	4
2	CS 201	Programming in C	3	1	0	4	4
3	EC 201	Basic Electronics Engineering	3	0	0	3	3
4	EE 201	Basic Electrical Engineering	3	0	0	3	3
5	CH 201	Engineering Chemistry	3	0	0	3	3
		Total of Theory	17				17
B. Practical							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CH 291	Chemistry Lab	0	0	3	3	2
2	CS 291	Programming in C Lab	0	0	3	3	2
3	EC 291	Basic Electronics Lab	0	0	3	3	2
4	EE 291	Basic Electrical Lab	0	0	3	3	2
5	CS 292	Presentation Design Lab	0	0	3	3	2

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		Total of Practical	15	10
		Total of Semester	32	27

3rd Semester

A. Theory							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 301	Data Structure & Algorithms	3	1	0	4	4
2	CS 302	Digital Logic	3	1	0	4	4
3	PH 301	Physics –II	3	0	0	3	3
4	M(CSE)301	Engineering Mathematics-III	3	0	0	3	3
5	EE 301	Circuit Theory & Network Analysis	3	0	0	3	3
		Total of Theory	17				17
B. Practical							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 391	Data Structure & Algorithm Lab	0	0	3	3	2
2	CS 392	Digital Logic Lab	0	0	3	3	2
3	PH 391	Physics –II Lab	0	0	3	3	2
4	CS 381	Innovative Mini Project-I	0	0	3	3	2
		Total of Practical	12				8
		Total of Semester	29				25

4th Semester

A. Theory								
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points	
			L	T	P	Total		
1	M(CS)401	Numerical Methods	3	0	0	3	3	
2	CS 401	Computer Organisation	3	1	0	4	4	
3	CS 402	Operation Research Method	3	0	0	3	3	
4	EI 401	Microprocessors & Microcontrollers	3	1	0	4	4	
5	EC 401	Communication Engg.	3	1	0	4	4	
		Total of Theory	18				18	
B. Practical								
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points	
			L	T	P	Total		

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1	EI 491	Microprocessor & Microcontroller Lab	0	0	3	3	2
2	EC 491	Communication Engg Lab	0	0	3	3	2
3	M(CS)491	Numerical Analysis Lab	0	0	3	3	2
4	CS 492	Operation Research Lab	0	0	3	3	2
		Total of Practical				12	8
		Total of Semester				30	26

5th Semester

A. Theory							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 501	Design & Analysis of Algorithm	3	1	0	4	4
2	CS 502	Operating System	3	1	0	4	4
3	CS 503	Computer Networks	3	1	0	4	4
4	CS 504	Computer Architecture	3	0	0	3	3
5	CS 505	Object Oriented Programming	3	0	0	3	3
		Total of Theory				18	18
B. Practical							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 591	Design & Analysis of Algorithm Lab	0	0	3	3	2
2	CS 592	Operating Systems Lab	0	0	3	3	2
3	CS 593	Computer Networks Lab	0	0	3	3	2
4	CS 595	Object Oriented Programming Lab	0	0	3	3	2
5	HU 591	Language Practice Lab	0	0	3	3	2
		Total of Practical				15	10
		Total of Semester				33	28

6th Semester

A.Theory

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Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 601	Database Management System	3	1	0	4	4
2	CS 602	Computer Graphics& Multimedia	3	0	0	3	3
3	CS 603	Software Engineering	3	0	0	3	3
4	CS 604	Web Technology	3	0	0	3	3
5	CS 605	Formal Language & Automata Theory	3	0	0	3	3
6	F.E. HU 601(E)	Business English	3	0	0	3	3
		Total of Theory	19				19
B. Practicals							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 691	Database Management System Lab	0	0	3	3	2
2	CS 692	Computer Graphics & Multimedia Lab	0	0	3	3	2
3	CS 693	Software Engg lab	0	0	3	3	2
4	CS 694	Web Technology Lab	0	0	3	3	2
5	CS 681	Mini Project /Presentation	0	0	3	3	2
		Total of Practicals	15				10
		Total of Semester	34				29

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7th Semester

A. Theory							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	HU 701	Values & Ethics in Profession	3	0	0	3	3
2	CS 701	Compiler Design	3	1	0	4	4
3	CS 702	Soft Computing	3	1	0	4	4
4	CS 703	Elective I A. Mobile Computing B. Distributed Operating Systems C. Cloud Computing D. E-Commerce E. CAD VLSI	3	1	0	4	4
5	CS 704	Elective II A. Natural Language Processing B. Distributed DBMS C. Robotics D. Internet Technology E. Artificial Intelligence	3	1	0	4	4
		Total of Theory	19				19
B. Practical							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 791	Compiler Design Lab	0	0	3	3	2
2	CS 792	Soft Computing Lab	0	0	3	3	2
3	CS 781	Assigned Project	0	0	3	3	4
4	CS 782	Seminar-I	0	0	3	3	2
5	CS 783	Practical Training Evaluation	0	0	3	3	2
		Total of Practical	15				12
		Total of Semester	34				31

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8th Semester

A. Theory							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	HU 801	Financial Management	3	1	0	4	4
2	CS 801	Elective III A. Network Security B. VLSI Design C. Data Warehousing & Data Mining D. Ad-hoc Networking	3	1	0	4	4
3	CS 802	Elective IV A. Cryptography B. Pattern Recognition C. Image Processing D. Internet Security	3	1	0	4	4
		Total of Theory	12				12
B. Practical							
Sl. No.	Paper Code	Paper Name	Contact hours/week				Credit points
			L	T	P	Total	
1	CS 881	Assigned Project(Cont.)	0	0	3	3	8
2	CS 882	Seminar II	0	0	3	3	2
3	CS 883	Grand Viva	0	0	3	3	2
		Total of Practical	9				12
		Total of Semester	21				24