Course Structure and Syllabus for M.Tech**(Computer Science & Engineering), JIS College of Engineering**
(Under West Bengal University of Technology)

Semester 1

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks
		Lecture	Tutorial	Practical	Total		
	Theoretical:						
PGCS101	Discrete Structure	4	0	0	4	3	100
PGCS102	Design and Analysis of Algorithm	3	0	0	3	3	100
PGCS103	Computer Network and Distributed Systems	3	0	0	3	3	100
PGCS104	Operating Systems	3	0	0	3	3	100
PGCS105	Elective I	3	0	0	3	3	100
PGCS106	Seminar I	0	0	0	0	2	100
	Practical:						
PGCS191	Software Laboratory	0	0	3	3	2	100
PGCS192	Computer Network Laboratory	0	0	3	3	2	100
PGCS193	Operating Systems Laboratory	0	0	3	3	2	100
Total Credit: 23 Total Marks: 900							

Semester 2

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks
		Lecture	Tutorial	Practical	Total		
	Theoretical:						
PGCS201	Advanced Mathematics	3	0	0	3	4	100
PGCS202	Advanced Computer Architecture	3	0	0	3	3	100
PGCS203	Advanced DBMS	3	0	0	3	3	100
PGCS204	Software Engineering	3	0	0	3	3	100
PGCS205	Elective II	3	0	0	3	3	100
PGCS206	Seminar II	0	0	0	0	2	100
	Practical:						
PGCS291	Software Engineering Laboratory	0	0	3	3	2	100
PGCS292	DBMS Laboratory	0	0	3	3	2	100
Total Credit: 22 Total Marks: 800							

Semester 3

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks
		Lecture	Tutorial	Practical	Total		
	Theoretical:						
PGCS301	Mobile Computing	3	0	0	3	3	100
PGCS302	Multimedia and Graphics	3	0	0	3	3	100
PGCS303	Seminar III	0	0	0	0	2	100
	Practical:						
PGCS394	Term Paper [Project]	0	0	12	12	12	100
Total Credit: 20 Total Marks: 400							

Semester 4

Paper Code	Paper Name	Weekly Contact Period (WCP)				Credit	Marks
		Lecture	Tutorial	Practical	Total		
	Theoretical: none						
	Practical:						
PGCS494	Final Project presentation with VIVA	0	0	18	18	18	100
PGCS495	Grand Viva	0	0	0	0	2	100
	Total Credit: 20 Total Marks: 200						

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* Electives to be selected from the following list
*** Seminar should be presented on a very recent topic on any technological domain.

Elective subjects:

	Elective I	Elective II
A	Web Technology	Soft Computing
B	Theory of Computation	Advanced Compiler Design
C	Data Mining & Data Warehousing	Artificial Intelligence
D	Parallel Computing	VLSI Design
E	Embedded Systems	Pattern Recognition
F	Modeling and Simulation	Machine Learning
G	Advanced Computer Graphics	Natural Language Processing
H	Distributed Algorithms	Information System Audit
I	Cryptography & Network Security	

Total Course Credit: 85