

The National College, Autonomous, Basavanagudi Bangalore-4

COURSE MATRIX IN POSTGRADUATE COURSES

Postgraduate Course in Computer Science Course Structure

I Semester – M.Sc Computer Science							
Course	Title of the Paper	Hours /Week	Marks			Credits	Lab
			IA	Exam	Tot		
C1	Object Oriented Analysis and Design	4	30	70	100	4	Y
C2	Design and Analysis of Algorithms	4	30	70	100	4	Y
C3	Database Management Systems	4	30	70	100	4	Y
C4	Software Development Process	4	30	70	100	4	Y
C5	Statistics	4	30	70	100	4	N
L1	Design Lab	6	30	70	100	4	Y
L2	DBMS (Database Management Systems) Lab	6	30	70	100	4	Y
S1	Complementary skills - I	2	15	35	50	2	N
Total Credit					750	30	

II Semester- M.Sc Computer Science							
Course	Title of the Paper	Hours /Week	Marks			Credits	Lab
			IA	Exam	Tot		
C6	Software Testing	4	30	70	100	4	N
C7	Data Mining	4	30	70	100	4	Y
C8	Enterprise Application Development	4	30	70	100	4	Y
C9	Operating Systems and Network Programming	4	30	70	100	4	Y
C10	Elective 1 (one of the following)	4	30	70	100	4	Y
	Cryptography and Security						
	Artificial Intelligence						
	Advanced Computer Networks						
L3	Enterprise Application and Data mining Lab	6	30	70	100	4	Y
L4	Network Programming Lab	6	30	70	100	4	Y
S2	Complementary skills - II	2	15	35	50	2	N
Total Credit					750	30	

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III Semester M.Sc Computer Science							
Course	Title of the Paper	Hours /Week	Marks			Credits	Lab
			IA	Exam	Tot		
C11	Big Data Analytics	4	30	70	100	4	Y
C12	Web Application Development with Android	4	30	70	100	4	Y
C13	Elective 2 (one of the following)	4	30	70	100	4	Y
	Machine Learning						
	Embedded Systems						
	User Interface Design						
C14	Elective 3 (one of the following)	4	30	70	100	4	Y
	High Performance Computing and Cloud Computing						
	Compiler Design						
	Performance Modelling						
	Social Networks						
L5	Android and User Interface Lab	6	30	70	100	4	Y
L6	Big data Practical Lab	6	30	70	100	4	Y
S3	Complementary skills - III	2	15	35	50	2	N
OE	Open to the students of Other Disciplines	2	15	35	50	2	N
	1. Web Page Design						
Total Credit					700	28	

IV Semester - M.Sc Computer Science							
Course	Title of the Paper	Hours /Week	Marks			Credits	Lab
			IA	Exam	Tot		
C15	Internet of Things	4	30	70	100	4	Y
L7	Internet of Things Lab	6	30	70	100	4	Y
P1	Project work	16	60	140	200	8	Y
Total Credit					400	16	