

**Directorate of Distance and Continuing Education
Sambalpur University
Structure Syllabus – Academic Session (2006-2007)
Master in Computer Application (MCA)**

Paper	1 st Semester	Internal Assessment	Term End Exam	Total Marks
I	Information Technology (Computer Fundamental & O.S - (DOS + Windows)	20	80	100
II	Computer Organization and Architecture (COA)	20	80	100
III	Communicative English	20	80	100
IV	Structured System Analysis and Design (SSAD)	20	80	100
V	Programming In 'C' Language	20	80	100
VI(Lab-I)	Operating System (DOS + Windows)		50	50
VII(Lab-II)	Programming in 'C' Language		50	50
		1st Sem Total		600
Paper	2 nd Semester			
I	Data Structure using C	20	80	100
II	Computer Based Numerical and Optimization Technique	20	80	100
III	Object Oriented Programming with C++	20	80	100
IV	Web Technology – I (HTML, DHTML, Java Script)	20	80	100
V	Computer Communication and Networking	20	80	100
VI (Lab-I)	Data Structure Using C		50	50
VII(Lab-II)	Programming With C++		50	50
		2nd Sem Total		600
Paper	3 rd Semester			
I	Analysis & Design of Algorithm	20	80	100
II	Microprocessor & Assembly Language Programming	20	80	100
III	Front End & Back End Technologies (Using Visual Basic and Ms – Access)	20	80	100
IV	Web Technology - II (Core Java)	20	80	100
V	Operations Research & Quantitative Methods	20	80	100
VI(Lab-I)	Visual Basic & Ms Access		50	50
VII(Lab-II)	Core Java		50	50
		3rd Sem Total		600
Paper	4 th Semester			
I	Management Information System (MIS)	20	80	100
II	Advance Operating System	20	80	100
III	Computer Graphics	20	80	100
IV	Software Engineering	20	80	100
V	Relational Database Management System using Oracle	20	80	100
VI(Lab-I)	Computer Graphics		50	50
VII(Lab-II)	Oracle		50	50
		4th Sem Total		600
Paper	5 th Semester			
I	Object Oriented Analysis and Design	20	80	100
II	Advanced Java Programming	20	80	100
III	Management Accounting	20	80	100
IV	Artificial Intelligence	20	80	100
V	Programming With VB.NET	20	80	100
VI(Lab-I)	Java Programming		50	50
VII(Lab-II)	VB.NET		50	50
		5th Sem Total		600
Paper	6 th Semester			
	Industrial Project Report			300
	Viva Voce Test			300
				600
	Grand Total Marks (1st Sem+2nd Sem+3rd Sem+4th Sem+5th Sem+6th Sem):			3600