



University of Engineering & Management, Jaipur
Syllabus to be implemented from the Academic Year 2014-15
Bachelor of Computer Application
First Year First Semester

Theory							
S N	Course Code	Subject Name	Contact hrs/wk				Credit
			L	T	P	Total	
1	BCA101	Business Systems & Applications	3	1	-	4	4
2	BCA102	Digital Electronics	3	1	-	4	4
3	BCA103	PC Software	3	1	-	4	4
4	BCA104	Introduction to Programming	3	1	-	4	4
5	BCA105	Mathematics	3	1	-	4	4
Total of Theory						20	20
Practical							
6	BCA194	PC Software Lab	-	-	6	6	4
7	BCA193	Programming Lab(C/Pascal)	-	-	6	6	4
Total of Practical						12	8
Total						32	28

First Year Second Semester

Theory							
S No	Course Code	Subject Name	Contact				Credit
			L	T	P	Total	
1	BCA201	Computer Architecture & Systems Software	3	1	-	4	4
2	BCA202	Information Systems Analysis & Design	3	1	-	4	4
3	BCA203	Computer Programming	3	1	-	4	4
4	M201	Mathematics	3	1	-	4	4
5	HU201	English Language & Technical Communication-I	3	1	-	4	4
Total of Theory						20	20
Practical							
6	BCA293	Programming Lab(Visual Basic)	-	-	6	6	4
7	HU291	Business Presentation & Language Lab	-	-	6	6	4
Total of Practical						12	8
Total						32	28



University of Engineering & Management, Jaipur
Second Year Third Semester

Theory							
Sl N	Course Code	Subject Name	Contact hrs/wk				Credit
			L	T	P	Total	
1	BCA301	Operating Systems	3	1	-	4	4
2	BCA302	Data Structures with C	3	1	-	4	4
3	BCA303	Graphics & Internet	3	1	-	4	4
4	BM301	Mathematics for Computing	3	1	-	4	4
5	BBA301	Management & Accounting	3	1	-	4	4
		Total of Theory				20	20
Practical							
6	BCA393	Internet & Computer Graphics Lab	-	-	6	6	4
7	BCA392	Programming Lab (Data Structure with C)	-	-	6	6	4
		Total of Practical				12	8
		Total				32	28

Second Year Fourth Semester

Theory							
Sl N	Course Code	Subject Name	Contact hrs/wk				Credit
			L	T	P	Total	
1	BCA401	Database Management System	3	1	-	4	4
2	BCA402	Principle of Computer Programming with C++	3	1	-	4	4
3	BCA403	Software Project Management & Quality	3	1	-	4	4
4	BM401	Statistics, Numerical Methods & Algorithms	3	1	-	4	4
5	HU401	Basic Environmental Engineering & Ecology	3	-	-	3	3
		Total of Theory				17	17
Practical							
6	BCA491	Database Management System Lab	-	-	3	3	2
7	BM491	Computing Lab	-	-	3	3	2
		Total of Practical				6	4
		Total				23	21



University of Engineering & Management, Jaipur

Third Year Fifth Semester

Theory							
S N	Course Code	Subject Name	Contact hrs/wk				Credit
			L	T	P	Total	
1	BCA501	Data Communication & Computer Networks	3	1	-	4	4
2	BCA502	Unix & Shell Programming	3	1	-	4	4
3	BCA503	Windows Programming	3	1	-	4	4
4	BCA504	Elective1	3	1	-	4	4
5	HU501	Values & Ethics in Profession	3	-	-	3	3
Total of Theory						19	19
Practical							
6	BCA591	Unix & Shell Programming Lab	-	-	3	3	2
7	BCA592	Minor Project	-	-	9	9	6
Total of Practical						12	8
Sessionals							
8	BCA593	Industrial Training	-	-			3
Total						31	30

6to8weeksIndustrialTraining

Third Year Sixth Semester

Theory							
S N o	Course Code	Subject Name	Contact hrs/wk				Credit
			L	T	P	Total	
1	BCA601	Elective 2	3	1	-	4	4
	BCA602	Elective 3	3	1	-	4	4

Total of Theory						8	8
Sessional							
3	BCA693	Major project	-	-	9	9	6
4	BCA694	Seminar	-	-		3	2
5	BCA695	Comprehensive Viva-Voce	-	-			4
Total of Sessionals						12	12
Total						20	20



University of Engineering & Management, Jaipur

Electives for semesters 5 and 6

Elective No.	Elective Code	Course Code	Topic
1.	BCA504	BCA504A	Advanced Unix & Shell Programming
		BCA504B	Information Technology
		BCA504C	E-Commerce
2.	BCA601	BCA601A	Advanced networking & Communication
		BCA601B	Artificial Intelligence
		BCA601C	Image Processing
3.	BCA602	BCA602A	Software Engineering
		BCA602B	Object Oriented Programming with Java
		BCA602C	Advanced Database Management

Summary

Semeste	Contact hr/wk	Credit
1	3	28
2	3	28
3	3	28
4	3	27
5	3	31
6	3	30
Total		172

Semester duration: 15weeks

Each lesson will consist of: 3 hours Lectures + 1 hour tutorial per week

Total lab: 12 hours per week