

	<b>WALJAT COLLEGE OF APPLIED SCIENCES</b> <b>In academic partnership with</b> <b>BIRLA INSTITUTE OF TECHNOLOGY</b>	
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PROGRAMME STRUCTURE APPLICABLE FROM 2015**

Subject Code	Subject Title	Credits
<b>Semester I</b>		
BCA1001	Mathematics-I	4
BCA1003	Introduction to Computer Science	4
BCA1004	Information Technology Lab	2
BCA1005	Programming in C	4
BCA1006	C Programming Lab	2
BCA1007	Environmental Science	3
BCA1009	Communication Skills/Technical English	3
<b>Sub-Total</b>		<b>22</b>
<b>Semester II</b>		
BCA2001	Mathematics-II	4
BCA2003	Data Structures	4
BCA2004	Data Structure Lab.	2
BCA2005	Object Oriented Programming in C++	4
BCA2006	C++ Lab.	2
BCA2007	Logic Design	4
BCA2009	Managerial Economics	3
<b>Sub-Total</b>		<b>23</b>
<b>First Year Total Credit</b>		<b>45</b>
<b>Semester III</b>		
BCA3001	Discrete Mathematical Structures	4
BCA3003	Operating Systems	4
BCA3005	Electronic Commerce and Applications	3
BCA3007	Programming in JAVA	4
BCA3008	JAVA Programming Lab.	2
BCA3009	Database Management System	4
BCA3010	Database Management System Lab.	2
<b>Sub-Total</b>		<b>23</b>
<b>Semester IV</b>		
BCA4001	Scientific Computing	4
BCA4002	Scientific Computing Lab.	2
BCA4003	Fundamentals of Management Information System	4
BCA4005	Software Engineering Principles	4

BCA4007	Computer Architecture	4
BCA4009	Computer Graphics and Multimedia	4
BCA4010	Computer Graphics and Multimedia Lab.	2
<b>Sub-Total</b>		<b>24</b>
<b>Second Year Total Credit</b>		<b>47</b>
<b>Total Credit for the Award of Diploma BCA Certificate</b>		<b>92</b>
<b>Semester V</b>		
BCA5001	Probability and Statistics	4
BCA5003	Data Communication	4
BCA5005	VB. Net Programming	4
BCA5006	VB. Net Programming Lab.	2
BCA5007	Internet and Web Technology	4
BCA5008	Web Technology Lab.	2
BCA5009	Introduction to Accounting	4
<b>Sub-Total</b>		<b>24</b>
<b>Semester VI</b>		
BCA6001	Operations Research	4
BCA6003	Fundamentals of Computer Algorithms	4
BCA6005	Computer Network	4
BCA6007	Data Mining and Warehousing	4
BCA6010	Project	4
	Elective	4
<b>Sub-Total</b>		<b>24</b>
<b>Third Year Total Credit</b>		<b>48</b>
<b>List of Elective</b>		
BCA6011	Fuzzy Logic and Applications	4
BCA6013	System Programming	4
BCA6015	Distributed Database Systems	4
BCA6017	Decision Support System	4
BCA6019	Distributed Computing	4
BCA6021	Software Testing	4
<b>Total Credit for the Award of Degree BCA (Bachelor of Computer Applications)</b>		<b>140</b>