

B.I.T. MESRA , RANCHI
Syllabus of BCA
TOTAL NO. OF SEMESTERS: 6

COURSE NO.	SUBJECTS	CREDITS (L-T-P)
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SEMESTER I

Theory

BCA 1001	Mathematics-I	4(3-1-0)
BCA 1003	Introduction to Computer Science	4(3-1-0)
BCA 1005	Programming in C	4(3-1-0)
BCA 1007	Environmental Science	3(3-0-0)
BCA 1009	Communication Skills/Technical English	3(3-0-0)

Sessional

BCA 1006	C Programming Lab.	2(0-0-3)
BCA 1004	IT Lab.	2(0-0-3)

Total: 22

SEMESTER II

Theory

BCA 2001	Mathematics-II	4(3-1-0)
BCA 2003	Data Structures	4(3-1-0)
BCA 2005	Object Oriented Programming in C++	4(3-1-0)
BCA 2007	Logic Design	4(3-1-0)
BCA 2009	Managerial Economics	3(3-0-0)

Sessional

BCA 2004	Data Structure Lab.	2(0-0-3)
BCA 2006	C++ Lab.	2(0-0-3)

Total: 23

SEMESTER III

Theory

BCA 3001	Discrete Mathematical Structures	4(3-1-0)
BCA 3003	Operating Systems	4(3-1-0)
BCA 3005	Electronic Commerce and Applications	3(3-0-0)
BCA 3007	Programming in JAVA	4(3-1-0)
BCA 3009	Database Management System	4(3-1-0)

Sessional

BCA 3008	Java Programming Lab.	2(0-0-3)
BCA 3010	Database Management System Lab.	2(0-0-3)

Total: 23

SEMESTER - IV**Theory**

BCA 4001	Scientific Computing	4(3-1-0)
BCA 4003	Fundamentals of Management Information System	4(3-1-0)
BCA 4005	Software Engineering Principles	4(3-1-0)
BCA 4007	Computer Architecture	4(3-1-0)
BCA 4009	Computer Graphics and Multimedia	4(3-1-0)

Sessional

BCA 4002	Scientific Computing Lab.	2(0-0-3)
BCA 4010	Computer Graphics and Multimedia Lab.	2(0-0-3)

Total: 24**SEMESTER - V****Theory**

BCA 5001	Probability and Statistics	4(3-1-0)
BCA 5003	Data Communication	4(3-1-0)
BCA 5005	VB. Net Programming	4(3-1-0)
BCA 5007	Internet and Web Technology	4(3-1-0)
BCA 5009	Introduction to Accounting	4(3-1-0)

Sessional

BCA 5006	VB. Net Programming Lab.	2(0-0-3)
BCA 5008	Web Technology Lab.	2(0-0-3)

Total: 24**SEMESTER - VI****Theory**

BCA 6001	Operations Research	4(3-1-0)
BCA 6003	Fundamentals of Computer Algorithms	4(3-1-0)
BCA 6005	Computer Network	4(3-1-0)
BCA 6007	Data Mining and Warehousing	4(3-1-0)
	Elective	4(3-1-0)

Sessional

BCA 6010	Project	4(0-0-6)
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Total: 24

Grand Total: 140**List of Electives**

BCA 6011	Fuzzy Logic and Applications
BCA 6013	System Programming
BCA 6015	Distributed Database Systems
BCA 6017	Decision support System
BCA 6019	Distributed Computing
BCA 6021	Software Testing