

UTTARANCHAL UNIVERSITY

Detailed Course Structure of Bachelor of Science (Information Technology)

w.e.f. : 2022-23

Under Choice Based Credit System (CBCS)



Course Structure of Bachelor of Science (Information Technology)
w.e.f. 2022-23

B.Sc. (IT)- FIRST SEMESTER

	Course Code	Course Name	Credit	Remarks
1	BSIT-C101	Fundamentals of Computer and Information Technology	4	CORE I
2	BSIT-C102	Programming in 'C'	4	CORE II
3	BSIT-103(GE1)	Mathematical Foundation of Computer Science	5	GENERAL ELECTIVE I
	BSIT-103(GE2)	Probability & Statistical Techniques		
4	BSIT-A104	Technical Communication	2	ABILITY ENHANCEMENT COMPULSORY COURSE I
5		Open Elective	2	OPEN ELECTIVE
6	BSIT-C151	PC Packages Lab	1	CORE I PRACTICAL
7	BSIT-C152	Programming in 'C' Lab	1	CORE II PRACTICAL
8	BSIT-S153	Mini Project I	1	SKILL ENHANCEMENT COURSE I

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B.Sc. (IT)- SECOND SEMESTER

	Course Code	Course Name	Credit	Remarks
1	BSIT-C201	Data Structure using 'C'	4	CORE III
2	BSIT-C202	Object Oriented Programming Using C++	4	CORE IV
3	BSIT-A203	Environmental Science	2	ABILITY ENHANCEMENT COMPULSORY COURSE II
4	BSIT-204(GE1)	Organizational Structure and Personnel Management	4	GENERAL ELECTIVE II
	BSIT-204(GE1)	Management Information System		
5	BSIT-C251	Data Structure using 'C' Lab	1	CORE III PRACTICAL
6	BSIT-C252	Programming Using C++ Lab	1	CORE IV PRACTICAL
7	BSIT-S253	Mini Project II	1	SKILL ENHANCEMENT COURSE-II

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B.Sc. (IT)- THIRD SEMESTER

S.No.	Course Code	Course Name	Credit	Remarks
1	BSIT-C301	Database Management System	4	CORE V
2	BSIT-C302	Web Technologies and PHP	4	CORE VI
3	BSIT-C303	Digital Electronics and Computer Organization	5	CORE VII
4	BSIT-304(GE1)	Computer Based Optimization Techniques	5	GENERAL ELECTIVE III
	BSIT-304(GE2)	Computer Based Numerical Techniques		
5	BSIT-C351	Database Management System Lab	1	CORE V PRACTICAL
6	BSIT-C352	Web Technologies and PHP Lab	1	CORE VI PRACTICAL
7	BSIT-S353	Mini Project III	1	SKILL ENHANCEMENT COURSE III
8	BSIT-S354	Summer Internship Program	1	

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B.Sc. (IT)- FOURTH SEMESTER

S.No	Course Code	Course Name	Credit	Remarks
1	BSIT-C401	Operating System and Linux	4	CORE VIII
2	BSIT-C402	Programming in JAVA	4	CORE IX
3	BSIT-C403	Software Engineering	5	CORE X
4	BSIT-404(GE1)	Graph Theory	5	GENERAL ELECTIVE IV
	BSIT-404(GE2)	Discrete Mathematics		
5	BSIT-C451	Linux Lab	1	CORE VII PRACTICAL
6	BSIT-C452	Programming in JAVA Lab	1	CORE VIII PRACTICAL
7	BSIT-S453	Mini Project IV	1	SKILL ENHANCEMENT COURSE IV

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B.Sc. (IT)- FIFTH SEMESTER

S.No.	Course Code	Course Name	Credit	Remarks
1	BSIT-C501	Data Communication and Networks	5	CORE XI
2	BSIT-502(DE1)	.Net Framework and Technology	4	DISCIPLINE ELECTIVE I
	BSIT-502(DE2)	Flutter		
3	BSIT-C503	Theory of Computation	5	CORE XII
4	BSIT-504(DE1)	Computer Graphics and Animation	4	DISCIPLINE ELECTIVE II
	BSIT-504(DE2)	Design and Analysis of Algorithm		
5	BSIT-551(DE1)	.Net Framework and Technology Lab	1	DISCIPLINE ELECTIVE I PRACTICAL
	BSIT-551(DE2)	Flutter Lab		
6	BSIT-552-DE1	Computer Graphics and Animation Lab	1	DISCIPLINE ELECTIVE II PRACTICAL
	BSIT-552-DE2	Design and Analysis of Algorithm Lab		
7	BSIT-S553	Mini Project V	1	SKILL ENHANCEMENT COURSE V
8	BSIT-S554	Summer Internship Program	1	

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B.Sc. (IT)- SIXTH SEMESTER

S.No	Course Code	Course Name	Credit	Remarks
1	BSIT-601	Project	4	
2	BSIT-602(CC1)	Human Values & Professional Ethics	2	CROSS CUTTING ISSUES
	BSIT-602(CC2)	Gender Equality		
	BSIT-602(CC3)	Indian Culture & Diversity		
3	BSIT-603(DE1)	Android App Development	4	DISCIPLINE ELECTIVE III
	BSIT-603(DE2)	Programming using Python		
4	BSIT-604(DE1)	Advance PHP	4	DISCIPLINE ELECTIVE IV
	BSIT-604(DE2)	Advance JAVA		
5	BSIT-605(DE1)	Cyber Security	4	DISCIPLINE ELECTIVE V
	BSIT-605(DE2)	Data Warehouse and Data Mining		
	BSIT-605(DE3)	Enterprise Resource Planning		
	BSIT-605(DE4)	Digital Marketing		
6	BSIT-651-DE1	Android App Development Lab	1	DISCIPLINE ELECTIVE II PRACTICAL
	BSIT-651-DE2	Programming using Python Lab		
7	BSIT-652-DE1	Advance PHP Lab	1	DISCIPLINE ELECTIVE III PRACTICAL
	BSIT-652-DE2	Advance JAVA Lab		