Tribhuvan University
Faculty of Education

Bachelor of Information and Communication Technology Education (BICTE)

BICTE COURSE STRUCTURE

Career in:
- Application / System Development
- IT Professional / Administration
- ICT Instructor / Management

FIRST YEAR			
First Semester (6 x 3=18 Credit)		**Second Semester (6 x 3=18 Credit)**	
S.N.	*Course Titles*	*S.N.*	*Course Titles*
1	Eng. Ed. 411: English Language-I	1	Eng. Ed. 421: English Language-II
2	Nep. Ed. 411: General Nepali - I	2	Nep. Ed. 421: General Nepali - II
3	Ed. 411: Fundamental of Education	3	Ed. 422: Developmental Psychology
4	Math Ed. 416: Mathematics-I	4	Math Ed. 426 Mathematics-II
5	ICT Ed. 415: Introduction to Information Technology	5	ICT Ed. 425: Digital Logics
6	ICT Ed. 416: Programming Concept with C	6	ICT Ed. 426: Object Oriented Programming with C++
SECOND YEAR			
Third Semester (6 x 3=18 Credit)		**Fourth Semester (6 x 3=18 Credit)**	
S.N.	*Course Titles*	*S.N.*	*Course Titles*
1	Ed. 432: Learning Psychology	1	Ed. 442: Fundamentals of Curriculum
2	ICT Ed. 435: Data Structure and Algorithm	2	ICT Ed. 445: Operating System
3	ICT Ed. 436: Computer Architecture and Organization	3	ICT Ed. 446: Database Management System
4	ICT Ed. 437: Web Technology	4	Ed. 447: System Analysis and Design
5	Math Ed. 436: Probability and Statistics	5	Math Ed. 446: Numerical Analysis
6	ICT Ed. 438: 21st Century life Skill	6	Ed. 442: Leadership and Management
THIRD YEAR			
Fifth Semester (5 x 3=15 Credit)		**Sixth Semester (5 x 3=15 Credit)**	
S.N.	*Course Titles*	*S.N.*	*Course Titles*
1	Ed. 452: Assessment in Teaching and Learning	1	Ed. 462: Research Methods in Education
2	ICT Ed. 455: Java Programming Language	2	ICT Ed. 465: Visual Programming
3	ICT Ed. 456: Data Communication and Networks	3	ICT Ed. 466: Computer Graphics
4	ICT Ed. 457: Software Engineering and Project Management	4	ICT Ed. 467: Digital Pedagogy
5	Math Ed. 456: Discrete Mathematics	5	ICT Ed. 475: Network and Information Security
FOURTH YEAR			
Seven Semester (5 x 3=15 Credit)		**Eight Semester (5 x 3=15 Credit)**	
S.N.	*Course Titles*	*S.N.*	*Course Titles*
1	Ed. 472: Research Project	1	Ed. 482: Classroom Pedagogy
2	Ed. 476: Artificial Intelligence in Education	2	486: System administrator with Linux
3	ICT Ed. 477: Teaching Methods for ICT	3	487: Python Programming
4	**Elective I (any one)** ICT Ed 478 Geographical Information System (GIS) ICT Ed 479 Big Data Analysis	4	**Elective II (any One)** ICT Ed 488 Cloud Computing ICT Ed 489 Multimedia Technology
5	ICT Ed. 479: Capstone Project	5	ICT Ed 490 Teaching Practicum in ICT