

4 Year 8 Semester

Re-structured Bachelor of ICT Education (BICTE) Course, 2077

S.N.	Course Categories	Semester								Total Course	Total Credit Hours (3 Credit to each)
		1st	2nd	3rd	4th	5th	6th	7th	8th		
1	Communication Skills	2	2	-	-	-	-	-	-	4	12
2	Professional/Core Education	1	1	1	1	1	1	1	1	8	24
3	ICT Core Courses	2	2	3	3	3	4	2	2	21	63
4	Specialization/Elective	-	-	-	-	-	-	1	1	2	6
5	Math and Analytical Course	1	1	1	1	1	-	-	-	5	15
6	Life Skills	-	-	1	1	-	-	-	-	2	6
7	Capstone Project	-	-	-	-	-	-	1	-	1	3
8	Teaching Practice	-	-	-	-	-	-	-	1	1	3
Total		6	6	6	6	5	5	5	5	44	132

Course Titles:

<p>1. Communication Skills Course</p> <p>1.1 Eng. Ed. 411: English Language-I</p> <p>1.2 नेपा. शि. ४११: साधारण नेपाली-१</p> <p>1.3 Eng. Ed. 421: English Language-II</p> <p>1.4 ने शि. ४२१: साधारण नेपाली-२</p> <p>2. Professional/Core Education Course</p> <p>2.1 Ed. 411: Fundamental of Education</p> <p>2.2 Ed. 431: Developmental Psychology</p> <p>2.3 Ed. 441: Learning Psychology</p> <p>2.4 Ed. 451: Fundamentals of Curriculum</p> <p>2.5 Ed. 461: Assessment in Teaching and Learning</p> <p>2.6 Ed. 471: Classroom Pedagogy</p> <p>2.7 Ed. 481: Research Methods in Education</p> <p>2.8 Ed. 492: Research Project</p> <p>3. Mathematics and Analytical Course</p> <p>3.1 Math Ed. 415: Mathematics-I</p> <p>3.2 Math Ed. 426: Mathematics-II</p> <p>3.3 Math Ed. 455: Numerical Analysis</p> <p>3.4 Math Ed. 445: Probability and Statistics</p> <p>3.5 Math Ed. 475: Discrete Mathematics</p> <p>4. Life Skills course</p> <p>4.1 ICT Ed. 438: 21st Century life Skill</p> <p>4.2 Ed. 442: Leadership and Management</p>	<p>5. ICT Core Courses</p> <p>5.1 ICT Ed. 415: Introduction to Information Technology</p> <p>5.2 ICT Ed. 416: Programming Concept with C</p> <p>5.3 ICT Ed. 425: Digital Logics</p> <p>5.4 ICT Ed. 426: Object Oriented Programming with C++</p> <p>5.5 ICT Ed. 435: Data Structure and Algorithm</p> <p>5.6 ICT Ed. 436: Microprocessor & Computer Organization</p> <p>5.7 ICT Ed. 437: Web Technology</p> <p>5.8 ICT Ed. 445: Operating System</p> <p>5.9 ICT Ed. 446: Database Management System</p> <p>5.10 ICT Ed. 447: System Analysis and Design</p> <p>5.11 ICT Ed. 455: Java Programming Language</p> <p>5.12 ICT Ed. 456: Data Communication and Networks</p> <p>5.13 ICT Ed. 457: Software Engineering and Project Management</p> <p>5.14 ICT Ed. 465: Visual Programming</p> <p>5.15 ICT Ed. 466: Computer Graphics</p> <p>5.16 ICT Ed. 467: Digital Pedagogy and LMS</p> <p>5.17 ICT Ed. 475: Network and Information Security</p> <p>5.18 ICT Ed. 476: Artificial Intelligence in Education</p> <p>5.19 ICT Ed. 486: System administrator with Linux</p> <p>5.20 ICT Ed. 487: Teaching ICT</p> <p>5.21 ICT Ed. 488: Python Programming</p> <p>6. Specialization/Elective course</p> <p>Elective I(Any one):</p> <p>6.1 ICT Ed 477 Geographical Information System (GIS)</p> <p>6.2 ICT Ed 478 Big Data Analysis</p> <p>Elective II(any One):</p> <p>6.3 ICT Ed 488 Cloud Computing</p> <p>6.4 ICT Ed 489 Multimedia</p> <p>7. Capstone Project</p> <p>7.1 ICT Ed. 485: Capstone Project</p> <p>8. Teaching Practice</p> <p>8.1 Ed 481 Teaching Practices</p>
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Semester Break Down for First and Second Semester:

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	नेपा. शि. ४११: साधारण नेपाली-१	2	ने शि. ४२१: साधारण नेपाली-२
3	Ed. 411: Fundamental of Education	3	Ed. 431: Developmental Psychology
4	Math Ed. 415: 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++

Third Semester (6 x 3=18 Credit)		Fourth Semester (6 x 3=18 Credit)	
S.N.	Course Titles	S.N.	Course Titles
1	Ed. 441: Learning Psychology	1	Ed. 451: Fundamentals of Curriculum
2	ICT Ed. 435: Data Structure and Algorithm	2	ICT Ed. 445: Operating System
3	ICT Ed. 436: Microprocessor & Computer Organization	3	ICT Ed. 446: Database Management System
4	ICT Ed. 437: Web Technology	4	Ed. 447: System Analysis and Design
5	Math Ed. 445: Probability and Statistics	5	Math Ed. 455: Numerical Analysis
6	ICT Ed. 438: 21 st Century life Skill	6	Ed. 442: Leadership and Management

Fifth Semester (5 x 3=15 Credit)		Sixth Semester (5 x 3=15 Credit)	
S.N.	Course Titles	S.N.	Course Titles
1	Ed. 461: Assessment in Teaching and Learning	1	Ed. 481: 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 and LMS
5	Math Ed. 475: Discrete Mathematics	5	ICT Ed. 475: Network and Information Security

Seven Semester (5 x 3=15 Credit)		Eight Semester (5 x 3=15 Credit)	
S.N.	Course Titles	S.N.	Course Titles
1	Ed. 492: Research Project	1	Ed. 471: Classroom Pedagogy
2	Ed. 476: Artificial Intelligence in Education	2	486: System administrator with Linux
3	487: Teaching ICT (Methods	3	488: Python Programming
4	Elective I(Any one): ICT Ed 477 Geographical Information System (GIS) ICT Ed 478 Big Data Analysis	4	Elective II(any One): ICT Ed 488 Cloud Computing ICT Ed 489 Multimedia
5	ICT Ed. 485: Capstone Project	5	Ed 481 Teaching Practices