

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:

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| 1. Communication Skills Course <ul style="list-style-type: none">1.1 Eng. Ed. 411: English Language-I1.2 नेपा. शि. ४११: साधारण नेपाली-१1.3 Eng. Ed. 421: English Language-II1.4 ने. शि. ४२१: साधारण नेपाली-२ 2. Professional/Core Education Course <ul style="list-style-type: none">2.1 Ed. 411: Fundamental of Education2.2 Ed. 422: Developmental Psychology2.3 Ed. 441: Learning Psychology2.4 Ed. 451: Fundamentals of Curriculum2.5 Ed. 461: Assessment in Teaching and Learning2.6 Ed. 471: Classroom Pedagogy2.7 Ed. 481: Research Methods in Education2.8 Ed. 492: Research Project 3. Mathematics and Analytical Course <ul style="list-style-type: none">3.1 Math Ed. 416: Mathematics-I3.2 Math Ed. 426: Mathematics-II3.3 Math Ed. 455: Numerical Analysis3.4 Math Ed. 445: Probability and Statistics3.5 Math Ed. 475: Discrete Mathematics 4. Life Skills course <ul style="list-style-type: none">4.1 ICT Ed. 438: 21st Century life Skill4.2 Ed. 442: Leadership and Management | 5. ICT Core Courses <ul style="list-style-type: none">5.1 ICT Ed. 415: Introduction to Information Technology5.2 ICT Ed. 416: Programming Concept with C5.3 ICT Ed. 425: Digital Logics5.4 ICT Ed. 426: Object Oriented Programming with C++5.5 ICT Ed. 435: Data Structure and Algorithm5.6 ICT Ed. 436: Microprocessor & Computer Organization5.7 ICT Ed. 437: Web Technology5.8 ICT Ed. 445: Operating System5.9 ICT Ed. 446: Database Management System5.10 ICT Ed. 447: System Analysis and Design5.11 ICT Ed. 455: Java Programming Language5.12 ICT Ed. 456: Data Communication and Networks5.13 ICT Ed. 457: Software Engineering and Project Management5.14 ICT Ed. 465: Visual Programming5.15 ICT Ed. 466: Computer Graphics5.16 ICT Ed. 467: Digital Pedagogy and LMS5.17 ICT Ed. 475: Network and Information Security5.18 ICT Ed. 476: Artificial Intelligence in Education5.19 ICT Ed. 486: System administrator with Linux5.20 ICT Ed. 487: Teaching ICT5.21 ICT Ed. 488: Python Programming 6. Specialization/Elective course <p>Elective I(Any one):</p> <ul style="list-style-type: none">6.1 ICT Ed 477 Geographical Information System (GIS)6.2 ICT Ed 478 Big Data Analysis <p>Elective II(any One):</p> <ul style="list-style-type: none">6.3 ICT Ed 488 Cloud Computing6.4 ICT Ed 489 Multimedia 7. Capstone Project <ul style="list-style-type: none">7.1 ICT Ed. 485: Capstone Project 8. Teaching Practice <ul style="list-style-type: none">8.1 Ed 481 Teaching Practices |
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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) | |
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| 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. 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++ |

| Third Semester (6 x 3=18 Credit) | | Fourth Semester (6 x 3=18 Credit) | |
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| S.N. | Course Titles | S.N. | Course Titles |
| 1 | Ed. 432: 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. 436: 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) | |
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| 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) | |
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| 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 (Practicum) |