



- › CSC-362: Embedded system Programming
- › CSC-363: Image processing

Seventh semester:

- › CSC-401: Advanced Database Management System
- › CSC-402: Internet Technology
- › CSC-403: Advanced Java Programming
- › CSC-404: Project Work

Elective: any one

- › CSC-405: Information Retrieval
- › CSC-406: Database Administration
- › CSC-407: Network and System Administration
- › CSC-408: Software Project Management

Eighth Semester:

- › CSC-451: Data Warehousing and Data Mining
- › CSC-452: Internship

Elective: Any two

- › CSC-453: Advanced Networking with IPv6
- › CSC-454: Distributed Networking
- › CSC-455: Network Security
- › CSC-456: Multimedia Database
- › CSC-457: Distributed and Object Oriented Database
- › CSC-458: Cloud Computing
- › CSC-459: Geographical Information System
- › CSC-460: Decision Support System

Career Path

- › **Software Developer**
- › **Web Developer**
- › **Network Administrator**
- › **Database Administrator**
- › **IT Manager**
- › **Cryptographer**
- › **Ergonomics Program**
- › **System Analyst**
- › **Project Manager**
- › **AI Specialist**
- › **Information System Manager**
- › **Database Operator**

Additional proposed courses the college teaches during the course. There can be variation as per the need of students and industry requirements

- › **PHP**
- › **Asp.net with C#**
- › **CCNA**
- › **android App**
- › **MCSE**
- › **linux**

Why study B.Sc. CSIT at Indreni College ?

The college understands the need of twenty-first century organizations' needs and prepares its graduates who are capable of addressing needs of the industry. The programme prepares students to address the need of technically competent IT professionals that business industries, government bodies, NGOs, INGOs, hospitals, banks and other kinds of organizations require.

The college engages students in different project works and assignments which help them possess the appropriate combination of knowledge and practical to take care of both organization's information technology infrastructures and the people who use it.

Further, experiential learning and hands-on exposure to current and emerging technology is a key feature at **Indreni College's** CSIT course. You will have access to fully equipped and specialized computer laboratories right from the beginning of your course. Also, the college maintains strong industry links through research and educational programmes, so our students have the opportunity to be involved in the industry projects and work experience.

Most importantly, **Indreni College** puts all its efforts to produce graduates who are multi-skilled, multi-tasked and good human who will be well-rounded IT professionals with significant exposure to a diverse range of IT practices and possess the ability to meet the future needs of this ever-evolving and fast moving industry.

Nepal's Best IT College

INDRENI COLLEGE



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B.Sc. CSIT Prospectus
 Tribhuvan University Affiliated



Message from the Principal

Welcome to **Indreni College**. As the principal of the college, I am proud to introduce you to the outstanding academic program and activities that truly make us an IT College.

The college is committed to build a vital foundation for studying computing and IT. We connect students to the innovative world of IT and computing through modern classroom and practical lab experiences and through innovative educational approaches. Our program is supported by experienced and innovative faculty members, staff and management team who bring their knowledge and expertise. They mentor students in independent projects, guide on their study and help explore subject in depth while exposing students to the challenging world outside. The college offers educational and professional opportunities for students in which they develop in the fields of their interest and prepare to face the next generation of IT and Computing.

If you want a career that gives you the opportunity to be at the forefront of technology with employment opportunities in just about every industry, **B.Sc. CSIT** at **Indreni College** is the best place to start. Thus, I take this opportunity to invite you to visit the college, meet our staff, learn about us and be a member of the college.

Dhruba Babu Joshi



About Indreni College

Indreni College, a modern college, is established with an aim to significantly contribute to shape the career of +2 graduates in the field of IT and Computing. The course **B.Sc. CSIT** at **Indreni College** is affiliated to TU. The college, in fact, is committed to helping students develop skills, knowledge, and attitudes that help them pursue opportunities in IT and Computing.

Indreni College understands the advancement of computers and Information Technology which continues to have a profound impact on lives, and addresses the need of technically competent graduates to provide appropriate computing solutions that industry requires.

Besides curricula designed by the University, the college will also teach students soft skills, problem solving skills, critical thinking and industry relevant additional IT courses. Most importantly, the course taught offers both theoretical and practical applications where students are encouraged to apply their classroom instructions. Emphasis is placed on helping students to develop skills, knowledge in technical areas that have practical value in the workplace.

Studying at **Indreni College** provides its students a combination of leading-edge theory and technical knowledge plus hands-on practical experience to prepare our students for a successful career as an IT professional in Nepal and around the world.

Aim

We aim to teach, train, guide, and motivate students to effectively make their way into a challenging and rewarding IT and computing career.

Mission

The mission of the **Indreni College** is to expand human knowledge and benefit society through research integrated with education. We prepare students to investigate the most challenging, fundamental problems in technology while educating outstanding students to become creative members of society.

Values

Institutional values influences how we make and carry out decisions, and how we interact with internal and external constituencies. Our core values are:

- **Dedication**
- **Honour**
- **Respect**
- **Responsibility**
- **Trust**

Course Detail

The course is taught over the four years and in eight semesters. Students spend considerable time in the lab, where they are encouraged to apply what was taught in the classroom and see for themselves how, why and what makes things work.

B.Sc. Computer Science & Information Technology (B.Sc.CSIT)

First semester:

- CSC-101: Introduction to IT
- CSC-102: Programming in C
- STA-103: Probability and Statistics
- MTH-104: Calculus and Analytical Geometry

Elective: Any one

- PHY-105: Physics I
- BIO-106: Biology I
- GEO-107: Geology I
- STA-108: Statistics I

Second semester:

- CSC-151: Digital Logic
- CSC-152: Discrete Structure
- CSC-153: Microprocessor
- CSC-154: Data Structure and Algorithms
- MTH-155: Linear Algebra

Elective : Any one

- PHY-156: Physics II
- BIO-157: Biology II
- GEO-158: Geology II
- STA-159: Statistics II

Third semester:

- CSC-201: Computer Architecture
- CSC-202: Object Oriented Programming Language
- CSC-203: Operating systems
- CSC-204: Numerical Method
- MGT-205: Introduction to Management

Fourth semester:

- CSC-251: Theory of Computation
- CSC-252: System of Analysis and Design
- CSC-253: Database Management systems
- CSC-254: Computer Graphics
- CSC-255: Introduction to Cognitive science
- ENG-256: Technical Writing

Fifth semester:

- CSC-301: Computer Networks
- CSC-302: Simulation and Modeling
- CSC-303: Design and Analysis of Algorithms
- CSC-304: Artificial Intelligence

Elective: Any one

- CSC-305: Microprocessor Based Design
- CSC-306: Applied Logic
- CSC-307: E-governance
- CSC-308: Concepts of Wireless Networking
- MGT-309: International Business Management
- MGT-310: International Marketing
- CSC-311: Neural Networks
- CSC-312: Computer Hardware Design
- CSC-313: Cryptography

Sixth semester:

- CSC-351: Software Engineering
- CSC-352: Compiler Design and Construction
- CSC-353: Web Technologies
- CSC-354: Real Time System

Elective: any one

- CSC-355: Knowledge Management
- CSC-356: Fundamentals of E-Commerce
- CSC-357: Society and Ethics In information Technology
- CSC-358: Automation and Robotics
- CSC-359: Digital system Design
- CSC-360: Net Centric Computing
- CSC-361: Web Centric Computing