



Contact Us for Further Information

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Mid-West University
Faculty of Science and Technology
Central Campus of Science and Technology



Bachelor of Science in Computer
Science and Information Technology
(B.Sc. CSIT)



Introduction

Bachelors of Science in Computer Science and Information Technology (B.Sc. CSIT) is a four-year (8 semesters) course under the Faculty of Science and Technology, Mid-West University. B.Sc. CSIT program is designed to provide the student a diverse set of knowledge in the field of Information Technology and Computing. The program provides the students with adequate theoretical and practical knowledge that enable students in solving the complex problems of the IT industry. The program develops the underlying principles of both CSIT and demonstrate how these principles can be applied to real world problems. This program prepares the students with the skills essential for both computer professionals and IT specialists, offering new challenges when compared to the traditional computing environment. The program addresses the recent emergence of global business, new technologies for data processing, and data communication/networking environment to focus on professional careers in IT.

Objective

To produce high quality and competent human resources in computer science and information technology.

Mission

To prepare the students to pursue career advancement in the field of information technology.

Eligibility

Applicant should have at least second division or C-Grade in all subjects at +2/PCL in Science, Diploma in Engineering, Architecture, or equivalent from a recognized institution.

Admission Procedure

Application form and information brochure shall be provided on request at the Dean's Office, or at the concerned campus. The campus scrutinizes the applications. The eligible candidates are informed to appear in an entrance examination. The date of entrance examination will be communicated to the applicants by the campus. The candidates shall be admitted on the merit basis. The subjects and weightage of the Entrance Examination will be,

Physics: 20%; Chemistry: 20%; Mathematics: 40% and English: 20%

The campus may interview the candidates before final selection for the admission.

Career Opportunities After B.Sc. CSIT

B.Sc. CSIT graduates have a prosperous career opportunity at different government, non-government, private and public organizations, like software companies, telecommunications, computer networking companies, especially as,

- Software Developer / Web Developer
- Network Administrator / Database Administrator
- IT Manager / IT Officer
- Cryptographer / Ergonomics Program Designer
- System Analyst / Project Manager
- Document Specialist / Artificial Intelligence Specialist
- Information System Auditor / Technical Writer
- Information System Manager / Database Operator

B.Sc. CSIT Graduates can pursue higher studies in

- M.Sc. CSIT
- M.Sc. CS
- M.TECH (IT)
- MBA
- MBA IT
- MCA and many more

Fee Structure (in NRs)

Semester							
First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth
48,872	39,872	39,872	39,872	39,872	39,872	39,872	39,872
Total		NRs. 3,27,976/-					

Course Structure

Course Code	Name of the Subject	Credit Hours
Year I/Part I (Semester-I)		
COM411	Fundamentals of Computer	3
COM412	Programming in C	3
PHY413	Physics	3
MTH414	Mathematics I	3
COM415	Digital Logic	3
Total Semester Credits		15
Year I/Part II (Semester-II)		
COM421	Discrete Structure	3
COM422	Microprocessor and Assembly Language	3
COM423	Object Oriented Programming	3
STA424	Statistics	3
MTH425	Mathematics II	3
Total Semester Credits		15
Year II/Part I (Semester-III)		
COM431	Data Structure and Algorithm	3
COM432	Computer Organization and Architecture	3
COM433	Numerical Methods	3
MGT434	Principles of Management	3
COM435	Computer Networks	3
Total Semester Credits		15
Year II/Part II (Semester-IV)		
COM441	Operating Systems	3
COM442	Database Management System	3
ENG443	Technical Writing	3
COM444	Computer Graphics	3
COM445	Theory of Computation	3
Total Semester Credits		15
Year III/Part I (Semester-V)		
COM451	Artificial Intelligence	3
COM452	Systems Analysis and Design	3

COM453	Design and Analysis of Algorithms	3
COM454	Compiler Design	3
Elective (Any One)		
COM455A	Management Information System	3
COM455B	Neural Network	3
Total Semester Credits		15
Year III/Part II (Semester- VI)		
COM461	Simulation and Modeling	3
COM462	Software Engineering	3
COM463	Web Technology	3
COM464	Cryptography	3
Elective (Any One)		
COM465A	Information Retrieval	3
COM465B	Database Administration	3
Total Semester Credits		15
Year IV/Part I (Semester-VII)		
COM471	Advanced Java	3
COM472	Real Time Systems	3
COM473	Data Warehousing and Data Mining	3
COM474	Project Work	3
Elective (Any One)		
COM475A	Network Security	3
COM475B	System Administration	3
Total Semester Credits		15
Year IV/Part II (Semester-VIII)		
COM481	Image Processing	3
COM482	Cloud Computing	3
COM483A	Internship in Industry	3
COM483B	Internship Report Writing	3
Elective (Any One)		
COM484A	Geographical Information System	3
COM484B	E-governance	3
Total Semester Credits		15
Commulative Credit Hour of B.Sc. CSIT		120