

TRIBHUVAN UNIVERSITY
Prithvi Narayan Campus
Pokhara



B.Sc. CSIT Programme

INFORMATION SHEET
(Academic Year 2073)

www.pncampus.edu.np

B.Sc. CSIT Programme at Prithvi Narayan Campus

ABOUT THE CAMPUS

With over 50 years of its history, Prithvi Narayan Campus is one of the oldest and largest campuses of Tribhuvan University and is striving for finding solutions to challenges and preparing students for leadership in the 21st century.

The campus was founded on 1 September 1960 (17 Bhadra 2017 BS) in the western region, which was initially run by the local community and named "Prithvi Narayan Inter College," starting with 13 students and 2 teachers for intermediate education. The beginning classes were conducted in Kanya School, Nadipur Patan and moved to Bhimkali Patan in Bagar after two years.

The college resumed its first batch on 20 August 1963 with the Bachelor of Arts (BA) study, which was accredited from Tribhuvan University. The college was formally incorporated with Tribhuvan University on 1 Shrawan 2030 BS as one of its constituent campuses, changing its status from 'college to 'campus'. The campus started its master's degree in Economics in 2035 BS. It was followed by MA in Geography the following year in 2036 BS. Now, the campus has more than 18 master's courses in different subjects.

The campus now has 29 departments and runs more than 34 academic programmes and offers about 500 courses in humanities & social sciences, management, education, law and science. There are 504 faculty and 116 non-teaching staff who have involved in providing higher education to more than 8,007 students.

The campus places a high priority on creating an environment that enables teaching and non-teaching staff to perform their best job. The campus appreciates the contributions of all its faculty members in making the campus a top government run higher education institution.

- Faculty with Ph.D. = 34
- Faculty with M.Phil.= 8
- Faculty with Master's Degree = 462

PROGRAMME DESCRIPTION

The Bachelors of Science in Computer Science and Information Technology (B.Sc.CSIT) is a 4-year semester course of Tribhuvan University designed to provide the students with all sorts of knowledge in the field of information technology and computing.

The programme involves, in addition to conventional lectures, a great deal of practical and project works. The programme develops the underlying principles of both computer science and information technology and shows how these principles can be applied to real world problems. This programme develops the skills that are essential for both computer professionals and IT specialists.

The design and implementation of B.Sc.CSIT course offers new challenges when compared to the traditional computing environment. The recent emergence of global business, new technologies for data processing and data communication/ networking environment, equip specialized science graduates to focus on professional careers in Information Technology. The objectives of the programme can be enlisted as:

- To offer intensive knowledge in the theory, design, programming and application of computers.
- Providing an in-depth understanding with computer systems.
- Developing creative and analytical skills that provide a basis for technological problem-solving.
- Imparting knowledge of computer and programming logic environment in IT.
- Knowledge of advanced IT applications in different business sectors.
- To equip students with the technical knowledge required for an IT professional to handle multi-tasking and multiprogramming situations and to assess and develop computer based solutions.
- To provide necessary knowledge in the field of functional knowledge of hardware system and the necessary knowledge of computer software system.

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FACILITIES & SERVICES

Location: Located in the panoramic city of Pokhara, Prithvi Narayan Campus is spread over 36 hectars (over 721 ropanis) along on the banks of the Seti Gandaki River. Green space is an integral part of the campus, which promotes conservation and education training.

Classrooms: On comfortably accommodating students in the very spacious and airy classrooms, the campus provides its students conducive environment for learning.

Library: The Western Regional Library, established in 1983, is situated within the premises of the campus. It has now set up e-library, providing e-resource sites.

ICT Centres: Computers are available for student use in the campus in 3 places: in the library, in the BBA Programme block and in the research cell. The centres have optical fibre internet facility that is readily available especially during the campus hours.

Science Laboratory: The campus has two buildings for a hands-on science laboratory where students can exercise their inquisitive minds. They are involved in a variety of laboratory-based research within biological, chemical, physical and life science areas.

Canteen: The campus canteen is freely accessible: students, both teaching and non-teaching staff are welcome. With its friendly atmosphere, it offers a wide range of dishes, freshly prepared and with attention paid to quality.

Space for Sports: The space for sports is available to help make students as well as the staff stay in the campus a fun and healthy one. It encompasses a wide variety of games including athletics, martial arts, football, volleyball and basketball events frequently ranging from indoor to outdoor activities.

Health Centre: The campus has its own Health Centre that provides a confidential and comprehensive service of health care, with access to specialist facilities. Students as well as the staff can make full use of its services.

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Student Hostels: The campus has four hostels for students, which are categorized as Girl's Hostel, Lady's Hostel, Boy's Hostel, and Science Boy's Hostel.

Staff Residents: Housing on campus is in high demand, and of limited supply. With less than a five-minute walk to classes, library, and offices, living on campus is an option for a convenient life.

COURSE STRUCTURE

The B.Sc.CSIT curriculum is designed by following the course practiced in accredited international universities, subject to the condition that the intake students are mostly from twelve years of schooling in the science stream or equivalent from any university recognized by Tribhuvan University. Students of this programme have to study the courses of 126 credit hours dividing into the following areas:

SN	Courses	Credit Hours
1	Computer Science Core Courses	75
2	Natural Science Elective Courses	2
3	Mathematics Courses	12
4	English Courses	3
5	Social Science & Management Courses	6
6	Computer Science Elective Courses	15
7	Internship and Project	9
Total Credit Hours		126

In addition to the core computer science and elective courses, the programme offers service course to meet the need of high technology applications. The foundation and allied courses are designed to meet the need of undergraduate course requirements, and the service courses are designed to meet the need of market demand and fast changing computer technology and application.

Students enrolled in the 4-year B.Sc.CSIT programme are required to take courses in design and implementation of computer software systems, information technology and foundation of the theoretical model of

computer science and functional background of computer hardware. The programme comprises of the following courses:

Freshman Year / First Semester	Freshman Year / Second Semester
CSC-101: Introduction to Information Technology CSC-102: Fundamentals of Computer Programming STA-103: Probability and Statistics MTH-104: Calculus and Analytical Geometry Natural Science Elective I: PHY-105: Physics I BIO-106: Biology I GEO-107: Geology I STA-108: Statistics I	CSC-151: Digital Logic CSC-152: Discrete Structures CSC-153: Microprocessor CSC-154: Data Str. and Algorithms MTH-155: Linear Algebra Natural Science Elective II: PHY-156: Physics II BIO-157: Biology II GEO-158: Geology II STA-159: Statistics II
Sophomore Year / Third Semester	Sophomore Year / Fourth Semester
CSC-201: Computer Architecture CSC-202: Object Oriented Programming Language CSC-203: Operating Systems CSC-204: Numerical Method MGT-205: Introduction to Management	CSC-251: Theory of Computation CSC-252: System Analysis & Design CSC-253: Database Mgmt System CSC-254: Computer Graphics CSC-255: Intro. to Cognitive Science ENG-256: Technical Writing
Junior Year / Fifth Semester	Junior Year / Sixth Semester
CSC-301: Computer Networks CSC-302: Simulation and Modeling CSC-303: Design and Analysis of Algorithms CSC-302: Knowledge Management Computer Science Elective I: 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: Introduction to Cryptography	CSC-351: Software Engineering CSC-352: Compiler Design and Construction CSC-353: Web Technologies CSC-354: Real Time System Computer Science Elective II: 1. Knowledge Management 2. Fundamentals of E-commerce 3. Society and Ethics in IT 4. Automation and Robotics 5. Digital System Design 6. Net Centric Computing 7. Web Centric Computing 8. Embedded System Programming 9. Image Processing
Senior Year / Seventh Semester	Senior Year / Eighth Semester
Specialization Area: Networking CSC-401: Introduction to System Administration CSC-402: Network Security CSC-403: Linux Networking	Specialization Area: Networking CSC-451: Implementing and Supporting Microsoft Windows XP

CSC-404: Managing a Microsoft Server Environment CSC-405: Implementing, Managing and Maintaining Server Network and Infrastructure Network Services	Professional / Linux CSC-452: Distributed Networking CSC-453: Project on real world application Networking CSC-454: Internship/Project
Specialization Area: Database CSC-409: Web Database and Information System CSC-410: Advance Database and Info. System CSC-411: Distributed and Object Oriented Database	Specialization Area: Database CSC-459: Data Warehousing and Data Mining CSC-460: Decision Support and Expert System CSC-461: Project on Database System CSC-462: Internship/Project
Database Elective I: CSC-412: Introduction of Oracle and XML CSC-413: Application Server Web Adm. Database	
Elective II: CSC-414: Information Retrieval and Search Engine CSC-415: Multimedia Database	

FACULTY MEMBERS

The faculty for the B.Sc.CSIT programme will be known and respected in their fields. Their expertise and commitment are particularly valuable in the provision of expert guidance and training in research skills and methodologies as well as monitoring of programmes. An overview of the faculty members for this programme is given below:

S.No.	Faculty's Name	Qualification	Subject
1	Prof. Dr. Krishna K. Shrestha	Ph.D.	Mathematics
2	Prof. Dr. Chandra Bdr. Thapa	Ph.D.	Biology/Microbiology
3.	Prof. Dr. Vikas Kumar KC	Ph.D.	Statistics
4	Dr. Tanka Raj Adhikari	Ph.D.	Statistics
5	Dr. Min Pun	Ph.D.	English
6	Kul Prasad Dahal	M.Sc.	Physics
7	Uday Raj Dhungana	M.E.	Computer Science/IT
8	Tek Narayan Adhikari	M.Sc.	Computer Science/IT
9	Sunil Pandey	MCIS	Computer Science/IT
10	Bishnu Hari Paudel	MIT, Australia	Computer Science/IT
11	Ashok Pun	M.Sc.	Computer Science/IT
12	Raghu Nath Gyawali	M.Sc. IT	Computer Science/IT
13	Sushil Kumar Nepali	MCA	Computer Science/IT
14	Yam Kumar Baral	M.Sc. IT	Computer Science/IT

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FEE STRUCTURE

In order to help create a good environment for its students and faculty, the campus has to address its financial position. At a time of steady decline in the government revenues, the campus has to recover resources internally that are associated with inefficient, ineffective, or outmoded programmes and redeploy these resources toward our new strategic goals.

Among other B.Sc.CSIT programme running institutions in Pokhara, ours has the most affordable fee structure. The total cost of the programme is 3,50,000 rupees payable on installments. The table below shows the breakdown of the total cost for the completion of the course:

SEMESTER	1st	2nd	3rd	4th	5th	6th	7th	8th
FEE TITLE								
Admission	13,500	-	-	-	-	-	-	-
TU Reg.	500	-	-	-	-	-	-	-
Tuition	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
ID Card	150	150	150	150	150	150	150	150
Dept/Library Dev.	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Internal Exam	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Dept Dev. Fund	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Student Union	100	100	100	100	100	100	100	100
Student Welfare	200	200	200	200	200	200	200	200
Laboratory Dev.	-	2,000	-	2,000	-	2,000	-	2,000
Laboratory Fee	9,050	9,050	9,050	9,050	9,050	9,050	9,050	9,050
Health Fund	500	500	500	500	500	500	500	500
Miscellany	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Total	55,000	43,000	41,000	43,000	41,000	43,000	41,000	43,000
Grand Total = 3,50,000								

ELIGIBILITY FOR ADMISSION

The prospective students applying for B.Sc.CSIT program should have:

- Successfully completed a 12 years of education in science stream or equivalent from any university, board or institution recognized by TU, with at least 2nd division or higher.
- Successfully passed the entrance examination conducted by TU securing at least 35% marks.

Note: Students who have passed their +2 or equivalent with biology and mathematics are also eligible to apply for the program

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CONTACT

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