

A complete orientation magazine for B.Sc.CSIT Course

B.Sc.CSIT

YEARLY MAGAZINE

Year 1

2016

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We feel extremely privileged to welcome you all to the BSc. Computer Science and Information Technology (CSIT) course offered by Tribhuvan University.

In the recent years, information technology has been a hot topic among students as well as companies and organizations alike. Therefore, in order to quench the growing thirst of students to explore more about the new trends of technology, CSIT course was introduced; since then, hundreds of students enroll in this course every year. CSIT Association of Nepal (CSITAN), established in 2011 by young CSIT students like you, has been actively involved in organizing various workshops, technoshares, University-Industry Tie Up and talk programs to bridge the gap between students, university and the industry as a whole, as well as to calibrate the technical potentials of CSIT students.

Since CSIT is a research based course, it is advised to not just rely on the syllabus, but adhere to a habit of doing some research on the current trends of technology to keep yourself updated. CSIT does offer you a lot of elective subjects to choose from; so before taking the decision, at least spend some time learning about the subject and how it will help you in your future endeavors. Always seek a practical approach to solve real world problems with the knowledge you have gained while taking this course.

Last but not the least, we would like to say "Do what you know is best for you. Follow your gut and don't let the thought of something great get you tripped up. You're stronger than you give yourself credit for." We hope you enjoy taking this course and be successful in the career you wish to pursue.

Good Luck !

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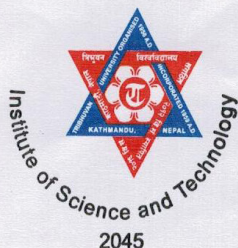
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Institute of Science and Technology

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To whom it may concern

I am very pleased to know that "BSc. CSIT" magazine is going to be published with the motive of helping new students to know more about CSIT course and its scope. In this new era of Science and Technology , Computer Science and Information Technology plays a vital role for the development of society and nation. Considering this fact, Institute of Science and Technology has established itself as a place for higher education in CSIT.

I believe that this magazine will help the students to know about the Scope of CSIT.

I would like to express my best wishes to all the student for the grand success in future.

Prof. Dr. Ram Prasad Khatiwada

Dean



Prof. Subarna Shakya. Ph.D

Professor (Computer engineering)

Dept. of Electronics and computer engineering

Central campus, Pulchowk

What are the key changes in the syllabus?

We have just submitted the syllabus for the approval. It is in the process of approval. But the syllabus which we have updated are:

Some of the subjects has been changed as compulsory and some has been removed from the syllabus. E-governance, physics, stat, telecommunication has been made compulsory subjects. These subjects are made compulsory because these subjects are the basic needs of the students and some of the subjects are highly demanded in the industries. The subjects whose contents are similar have been removed.

Don't you think IOST must design the course in such a way that student would be able to choose the subjects of their interest from the first year so that he/she would be able to master that subject at the end of the course?

It is a general course. No such type of provision has been made in any faculty. No specialization in bachelors can be done. The standard subject credit should meet according to abroad courses for equivalence. The college should give the extra professional courses to the students which will help to move toward their interested field.

Don't you think IOST must create an environment where the students can be able to interact with several companies directly, and can be able to showcase their talent?

In the new syllabus we have included Entrepreneurship as one of the subjects. Internship is also helping in this case. Policy should be made by IOST where college should conduct a certain number of guest lectures from different field to the students which will help them to understand the industry. Policy should be made in which IOST in co-ordination with government should organize a seminar every year to directly interact with industries and students where they can interact with their related course of work. College should focus on practical oriented course. They should not only give importance to the theory classes. Professional course should be provided by professional trainers.



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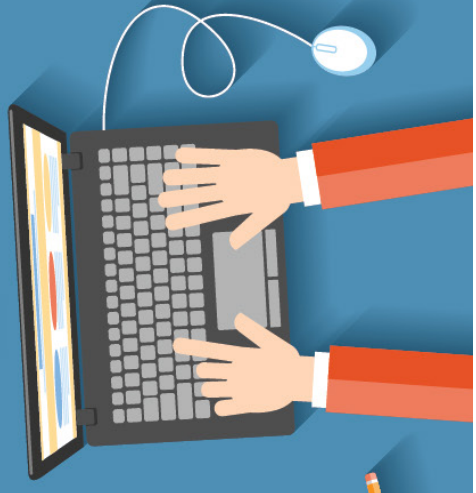
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CSIT 1st semester:

Introduction to IT (CSC-101) 60+20+20

This is the introductory subject of the Information Technology which is mainly towards the beginners, who have never studied computer science before. Its course of contents range from the simple introduction of the computers to the complex database management systems which are arranged in an easy to complex manner aiding the students to learn smoothly.

Fundamentals of C-Programming (CSC-102) 60+20+20

Programs or codes are the key things that compile the things written by humans into a form readable by the machine. Programming is a must do thing for computer geeks and C is a language basic and simple enough to start from. So it has been included in the course to form a base and habituate the students with the coding platform.

Probability & Statistics (STA-103) 60+20+20

Probability and statistics when studied combine assist in forming a data science curriculum which include analysis of algorithms and graphs, reliability, modeling, simulation algorithms, data mining and speech recognition. Having an idea on these things makes it easier for the machine learning portion of computer science which is definitely going to be fruitful for the students.

Calculus & Analytical Geometry (MTH-104) 80+20

Scientific computing (that involves computing derivatives and integrals), design and analysis of algorithms, asymptotic enumeration (by forming a generating function and using analytic methods to estimate the asymptotic behavior) are some of the skills that can be acquired by the good application of calculus and analysis.

Physics I (PHY-105) 60+20+20

The knowledge of physics in computers can be implemented in various sectors such as scientific problem domains (astronomy, space, aeronautics, marine architecture, weather simulation), in computer game development, hardware design, speech recognition & synthesis systems, query optimization and so on.

Biology I (BIO-106) 60+20+20

The use of biology is even more beneficial in the field of computing as it helps us deal with the real world problems directly related to our life. Those may include different aspects such as biotechnology, computational gene, DNA computing, human biocomputer, molecular electronics, nanotechnology, nanobiotechnology, peptide computing, wetware computer etc.

Geology I (GEO-107) 60+20+20

Geographical Information System (GIS) is the major advantage of having geology as an elective subject. The information about different geographical locations can be tracked through it which also helps in GPS tracking and several other aspects.

Statistics I (STA-108) 60+20+20

Using data to perform online translations, data mining, data compression, network traffic modeling, artificial intelligence etc. are some of the benefits we can take from our knowledge in statistics.

Chemistry I

All of VLSI process technology is all about semiconductor chemistry which include stuffs about packaging, board fabrication, solder, cooling etc. Another very interesting application from chemistry is the simulated annealing which helps in solving unconstrained and bound-constrained optimization problems.

CSIT 2nd semester:

Digital Logic (CSC-151) 60+20+20

This subject introduces multilevel gates networks, flip-flops, counters and logic devices, switching networks along with Boolean Algebra and its application for circuit analysis. There are seven units about binary system, Boolean algebra and logic gates, combinational logic, sequential logic, registers and counters each of about 6-8 credit hours. It is the basis for digital computing and provides a fundamental understanding on how circuits work.

Discrete Structure (CSC-152) 80+20

This course contains the fundamental concept of logic, reasoning and algorithm. It includes the four units :- Logic, Induction and Reasoning (12hrs), Finite State Automata (10hrs), Recurrence Relations (8hrs), Graph theory (15hrs). Every field in computer science is related to discrete objects whether it is databases, neural networks, computer organization, software system design or network, etc. so the knowledge of discrete maths will give you the foundation for all these things.

Microprocessor (CSC-153) 60+20+20

This is the subject that deals with basic computer architecture, Intel 8085/8086/8088 microprocessors, input/output interfaces and assembly language programming along with instruction cycle and basic I/O, memory read/write and interrupt

operations. This course gives the introduction to operation, programming and application of microprocessor.

Data Structure & Algorithm (CSC-154) 60+20+20

This course provides the concept of data structure and its implementation using programming techniques along with concept of algorithm. It includes various topics like stack, queue, recursion, linked lists, tree, graphs, algorithm for different types of sorting and sorting, etc. In its total of 45 credit hours one will have knowledge of data structure vocabulary and the concept of and algorithm.

Linear Algebra (MTH-155) 80+20

This course contains linear equations, matrix algebra, determinants, vector space, eigen values and eigen vectors and the orthogonality and least square. This subject gives problem solving skills in linear algebra which is very useful in scientific computing, computer gaming as well as in graphics programming.

Statistics II (STA-152) 60+20+20

Statistics is very important in many aspects of computing. A lot of artificial intelligence, machine learning, algorithm analysis, neural networks, data science, etc. use statistics. This course contains sample survey and its methods, design of experiments, simple design and factorial design.

CSIT 3rd semester:

Computer Architecture (CSC-201) (80+20)

This course gives the fundamental knowledge concern with the way hardware components are connected together to form a computer system and how they interact to provide the processing needs of the user. After completion of this course, students will be able to know about Processor Design, Memory Design, Circuit Design, Embedded System, BIOS Development, x86 Based Development, Architecture Based Design, Drivers Development, etc. in different fields.

Object Oriented Programming (CSC-202) 60+20+20

This course gives the fundamental concept of object oriented, its features and implementing features as well as basic programming skills in C++. After completion of this course, students will be able to develop some basic programming skills in C++, will know about elements of object oriented languages, control structures and class and object.

Operating Systems (CSC-203) (60+20+20)

This course gives the fundamental knowledge of operating system. It mainly focuses on the concept of uniprocessor operating system as well as the evolution process management, Memory management, File systems, I/O

processing. After the completion of this course, students will be able to develop basic concept on uniprocessor operating

system, history, its background and the concept of open source operating system Linux or Unix, Cryptographic mechanisms and security features all based on the current technology standard, secure data transmission methodology, Kernel Development, etc.

Numerical Methods (CSC-204) 60+20+20

This course gives the fundamental knowledge of techniques for solving various algebraic and differential equations. After completion of this course, students will be able to do Computer graphics and animation, high resolution coding of stochastic processes, solution of ordinary and partial differential equations, BVP's, integral equations, and optimization.

Introduction to Management (CSC-205) 80+20

This course gives the fundamental concept of management, its theories, and evolution of management with its basic theories planning, organizing and controlling. After completion of this course, students will be able to know about basic management theories, its roles and practices. Therefore, it focuses on the basic roles, skills and functions of management, with special attention to managerial responsibility for effective and efficient achievement of goals.

CSIT 4th semester:

Theory of Computation (CSC-251) (80+20)

This course lays a strong foundation for a lot of abstract areas of computer science. TOC teaches you about the elementary ways in which a computer can be made to think. The goal of the subject is to gain understanding of the abstract models of computation and formal language approach to computation.

System Analysis and Design (CSC-252) (60+20+20)

This course includes the concept of system representation. It gives the information about different modeling tools and also about the object oriented approach of system analysis and design used in the companies for system representation. This course help launch the careers of successful systems analyst or of users assuming an active role in building systems that satisfy their organization's information needs

DBMS (CSC-253) (60+20+20)

This course provides the fundamentals of database technology with concepts of

Database System Architecture, E-R model, transaction management, concurrency control and database recovery. The main objective of the course is to introduce the fundamental concepts and methods necessary for the

design and use of a database systems and also provide practical experience in

applying these concepts and methods using commercial database management systems.

Computer Graphics (CSC-254) (60+20+20)

This course aims to provide the basic information about the computer graphics, its area of applications and hardware and software required for computer graphics. It covers various techniques of visible surface determination and also the various transformations like geometric, 2D and 3D. The main objective of this course is to give the theoretical foundation of 2D and 3D graphics.

Cognitive Science (CSC-256) (60+20+20)

This course briefly covers the area of Artificial Intelligence, Computational models, connectionist approach and information on how human brains work. The student will acquire a good understanding of what an algorithm is and learn how to implement algorithms in the programming language LISP.

Technical Writing (CSC-256) (80+20)

The main aim of this course is to build students' capabilities on English in technical aspects. The main objective of this course is to preset the types of technical writing skills like, minute, report, etc. student needs to have for a career in technology.

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CSIT 5th semester:

Computer Networks (CSC-301) (60+20+20)

This course content topics like routing, virtual private network, IP Addressing etc. that covers the major part of computer networking are included in this course. Knowledge of network wires, devices, network architecture, cabling from this course will be a great assets for you to pursue your career in Computer Networking.

Simulation and Modeling (CSC-302) (60+20+20)

This is a conceptual course that introduces students to different simulation techniques used in real world processes like Data Analysis, Weather forecasting, Game development and Virtual Reality. Random Number generation that plays a major role in computer processing and game development is well covered in this course.

Design & Analysis of Algorithms (CSC-303) (80+20)

Course will provide knowledge on developing efficient working algorithms with different techniques like Divide and Conquer, Dynamic Programming, Greedy Paradigm etc to compare and analyze different algorithms on the basis of storage space requirement, processing time etc.

Introduction to AI (CSC-304) (60+20+20)

This course is some extent of Cognitive Science course of 3rd semester, and explains about machine learning, Natural Language Processing and Understanding by the computer systems and various searching techniques for problem solving. Besides problem solving, this course also explains about how to represent a problem.

Computer Science Elective

Microprocessor Based Design (CSC-305) (60+20+20)

This course deals with developing and designing systems that are mainly controlled by microprocessors. Designing digital as well as analog systems using the concept and theory of microprocessors are covered under this topic.

Applied Logic (CSC-306) (60 +20+20)

Computer systems are widely based on logic and Boolean functions. Applied Logic as the name suggest is the course that constitutes basic concepts and logical techniques that are applied in computer science. Main features of different programming logics are included in this course.

E-Governance (CSC-307) (60+20+20)

The core motive of this course is to make students aware about various policies, initiatives, rules and technologies that are being used and are required for good governance using Computer Science and Information Technology. It also included data warehousing and data mining, that are a must know concepts in the field of data storage and retrieving.

Concepts of Wireless Networking (CSC-308) (60+20+20)

Students can acquire a brief knowledge about using the wireless medium to transmit data and information over the network. The working principles of Wireless communication and networking contained in this course are widely applicable in the real world problem solving.

International Business Management (MGT-309) (80+20)

Proper understanding of opportunities in international business diplomacy, globalization of economy, legal and political status are included in this course. To develop the managerial strength of the students, trade, foreign investment, conflict management, finance, marketing, human resource management, strategic planning and development are widely covered topics in this course.

International Marketing (MGT-310) (80+20)

It introduces students to global market scenarios and issues. It helps to boost up students creativity, constructive thinking and reasoning and innovating thinking related to international marketing. Developing Entrepreneurship skill in students is also a part of this course.

Computer Hardware Design (CSC-312) (80+20)

This course consist the concepts that are related to the structuring and designing of modern digital computers. Computer architecture, gate-level logic, processor design, multiprocessor and network issues covers the major volume of this course. Making students able to develop hardware components is the main goal of this course.

Introduction to Cryptography (CSC-313) (60+20+20)

This course familiarizes students about how data and information can be secured over the transmission network using cryptographic techniques. Students can learn as well as practice the various ways securing data by encryption and decryption procedures that are widely used in the global scenario.

CSIT 6th semester:

Software Engineering (CSC - 351) (60+20+20)

The main goal of course is to introduce concept of software development paradigm and implementing these in real world. It teaches the discipline which is design for the production of the fault-free software that is delivered within time and budget with client satisfaction.

Compiler Design and Construction (CSC - 352) (60+20+20)

In this course, you will be able to have some knowledge of fundamental concept of compiler and its different compilation phases of a program. Some optimization processes and execution of code will be seen. There will many researching factors remain at the end of this course.

Web Technologies (CSC - 353) (60+20+20)

The goal of this subject is to expose client and server web programming by introducing client server web technology. Course is designed to produce a good web application developer to who can built and work efficiently in client server architecture

Real Time System (CSC - 354) (80+20)

This course introduces the real time technology with main objective of addressing issue in scheduling, resource access control and communication in the real time system. The future possibilities of course has different fields, but mainly in research on different Real Time Systems and still other scopes are in Air Traffic Controller, inside Bank Networking, at Real Time Software Engineering.

Computer Science Electives II

Knowledge Management (CSC - 355) (80+20)

The objective of this course is to introduce the study of knowledge intensive organization, knowledge management issues with providing fundamental concept of Knowledge and different managerial issues in managing Knowledge. It has scopes in different managerial aspect of organization, decision making etc.

Fundamentals of E - Commerce (CSC - 356) (60+20+20)

Course introduces basic concept of commerce and discuss the basic needs of electronic commerce with discussion on types of commerce, doing business in electronics and infrastructure of electronics. Growing e - commerce business could be the one of the scope of this course.

Society and Ethics in IT (CSC - 357) (80+20)

Automation and Robotics (CSC - 358) (60+20+20)

The course is designed to provide information on manufacturing automated systems with the basic principles underlying the design, analysis and synthesis of robotic systems.

Digital System Design (CSC - 359) (60+20+20)

Net Centric Computing (CSC - 360) (60+20+20)

The goal of subject is to provide the knowledge of using Active server programming (ASP). Inside this course you will learn C# programming and tools like Visual Studio and server like IIS & Apache Server. After this course, you could be able to build system in ASP from visual studios.

Web Centric Computing (CSC - 361) (60+20+20)

The goal of this subject is to provide the knowledge like accessing packed data, socket communications, etc by using Perl Programming. This subject is specially focus to build a capable personal in web computing having Perl programming knowledge.

Embedded System Programming (CSC - 362) (60+20+20)

The motto of this course is to provide the design and development process for dedicated computer systems in relation to the environment in which they operate. You will learn various issues like robust design issue, software issues, hardware issues while building an embedded system.

Image Processing (CSC - 363) (80+20+20)

This course is a scale up of Computer Graphics studied in 4th semester with different image transformation procedures, pixel coding, recognitions procedures, pattern recognition with application of neural networks. The scope of this subject could mainly be on research in medical / biological image processing, remote sensing, space image processing and others.

Admissions

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To join BSc CSIT at Trinity, students must pass the TU Entrance Test.

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Applicants should have at least 45% marks in +2 Science or an equivalent qualification. **Students from the Biology group can also apply.**



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Education for the Future

CSIT 7th semester:

Advanced DBMS (C S C - 4 0 1) (60+20+20)

This course deals with the advanced database techniques beyond the fundamental database technique using any one of the popular Commercial Object-Oriented DBMS software such as Oracle. At the end of the course students should be able to: critically assess new developments in database technology, Interpret and explain the impact of emerging database standards, evaluate the contribution of database theory to practical implementations of database management systems.

Internet Technology (CSC-402) (60+20+20)

This course deals on the practical application of internet working technologies to private intranets for information management and public internets for electronic commerce. Students will learn theoretical details, strategies for designing sites, techniques for creating their technical infrastructures, methods for developing content, and techniques for site deployment and management.

Advanced Java Programming(CSC-403)(60+20+20)

The purpose of this course is to present the concept of GUI programming and JDBC, Socket programming and remote objects, and JSP Technology. Since software components are best learned by implementation, each student will complete a project independently which will involve the design and implementation three software components.

Project Work (CSC-404) (100)

Special focus will be given in enabling students with the skills pertaining to the analysis, design, and development, installation, testing and servicing a corporate

organization. The course has a practical approach to building real application. To develop the skills associated with analysis design and development of meaningful and efficient real world application.

Elective

Information Retrieval (CSC-405) (60+20+20)

This course includes the advanced aspects of Information Retrieval and Search Engine. Student will get knowledge about the advance aspects of information retrieval and working principle of search engine, encompassing the principles, research results and commercial application of the current technologies.

Database Administration (C S C - 4 0 6) (60+20+20)

The course covers about: principles of DBA Roles, DB backup, restoration and recovery, Tuning of database and overall DB administration which could be useful for administrator in the future.

Network & System Admin(CSC-407)(60+20+20)

This course provides the concept of network and system administration, and covers subjects ranging from initial installation of OS to day-to-day administrative tasks such as Network and Server Configurations, management of user accounts and disk space, and even imparting the trouble-shooting skills future system administrators will need to cope with unexpected behavior.

Software Project Management(CSC-408)(60+20+20)

This course include the concept of software project, software project management framework. Students are introduced with the concepts of Software Project, software project management framework, project evaluation, Software quality assurance and project management and its tools.

CSIT 8th semester:

Data Warehousing & Data Mining (CSC-451) 60+20+20

This course introduces advanced aspects of knowledge discovery, encompassing the principles, research results and commercial application of the current technologies. It also includes data mining query languages, data specification and standardization of data mining of complex types of databases like multimedia and spatial databases.

Internship (CSC-452) (200)

The main goal of internship is to assist students in focusing their interests, thus aiding in their professional career. It gives the students an opportunity to re-examine their career objectives and explore the variety of opportunities in the field of information technology.

Electives

Advanced Networking with IPv6 (CSC-453)60+20+20

The course encompasses the principles underlying IPv6 Network Design, Internet routing protocols with IPv6, algorithmic issues related to the Internet, IPv6 Migration; measurement and performance, next generation Internet (IPv6, QoS) and their applications.

Distributed Networking (CSC-454) (60+20+20)

The course includes the function and structure of communications subnets, network architectures and their protocols, approaches to the organization of subnets and their architectures, processes of network and protocol design, role of network standards and their relationship to products, Network OS, Distributed Object Network and advance applications.

Network Security (CSC-455) (60+20+20)

This course incorporates the computer security concepts and security attacks, user authentication protocols, transport-level security, wireless network security, electronic

mail security, IP security as well as cyber security. This course provides a practical survey of the principles and practice of network security.

Multimedia Database(CSC-456) (60+20+20)

This course includes the study of advanced aspects of indexing, storage device, retrieval of multimedia information encompassing the principles, research results and commercial application of the current technologies.

Distributed & Object Oriented DB(CSC-457) (60+20+20)

This course encompasses the fundamental concept and implementation of object oriented and distributed database systems with focus on data distribution, distributed query processing, distributed transaction processing, distributed concurrency control and recovery.

Cloud Computing(CSC-458) (60+20+20)

This course incorporates the introduction to cloud computing and its trending techniques, cloud architectures, cloud service models, service-oriented architectures, security in cloud computing and disaster management in clouds. It will help to help student to understand the different server management in cloud networking.

GIS (CSC-459) (60+20+20)

The course includes the introduction to Geographical Information System (GIS), digital mapping concept, spatial data modeling and database design, capturing the real world, spatial analysis and visualization as well as open GIS.

Decision Support System(CSC-460)

(60+20+20)

This course covers the introduction to decision support systems (DSS), DSS components, decision making, DSS software and hardware, developing DSS, DSS models, data mining, etc and try to show students how to utilize DSS capacities to support different types of decisions.

About CSIT

Information technology (IT) is the latest fast growing technology, which establishes better and efficient way of communication among peoples. IT is the use of any computers, storage, networking and other physical devices, infrastructure and processes to create, process, store, secure and exchange all forms of electronic data. It helps us to get our required information very easily. It decreases the distance among people. We can communicate with anybody anytime efficiently. We can send and receive data within the fraction of time. But there is the challenge how to cope with the recent technology so that we can go together with the technology.

Bachelor of Science of Computer Science and Information technology (BSc. CSIT) is the platform which provides all necessary knowledge, tools, techniques, materials that can help students to meet the recent technology requirements. It has latest updated curriculum, computer science and Information technology integrated course which provides dual specialization. It provides balanced course path which gives the fundamental of advanced knowledge of computer science and information technology. During the course, students learn a variety of courses. During the last year of the course, it gives depth knowledge about the project and internship which guides students to do IT related good and smart projects and provides sufficient knowledge to work with the industry.

As an HOD of the Department, I found the students very enthusiastic and interested to learn new things, they want to work hard, achieve goals and also want to contribute to the department as well as the college. Students are always a good learner and disciplined if we can able to provide good environment for the students. They want to cooperate with the department if they are provided with an appropriate environment. They want to get practical knowledge, do smart projects so that they can get opportunities to meet the market requirement.

I found the college administration very supportive to the department. They have always had positive attitude towards us. They want to make Bsc. CSIT an exemplary course by providing full support and cooperation. It is also true that we are in the team where we need support from administration, teachers, staffs and students to make the department good, to provide quality education to the students and to provide suitable environment for a teacher to teach. Luckily, I found all of these in this college.

I have seen a number of challenges and opportunities for the students. We can make better environment, can produce better students in future. If we work in team, then there are opportunities to arrange seminars and to broaden the future scopes of our students for internship opportunities, jobs with which we will be able to make academic career stronger.

Mr. B. K. Adhikari

Head

Department of computer science and information technology

Amrit Campus

What is B Sc CSIT Course?

Dilli Prasad Sharma

Lecturer
B. Sc. CSIT Coordinator, Prime College



Bachelor of Science in Computer Science and Information Technology (BSc-CSIT) is a 4-years –eight semester academic degree program offered by Institute of Science and Technology, Tribhuvan University. The program comprises computer science, information technology and supporting courses of 126 credit hours. The program involves, in addition to conventional lectures, a great deal of practicals, project works and internship. The program develops the underlying principles of both computer science and information technology and shows how these principles can be applied to solve the real world problems. This course provides an intensive knowledge in the theory, design, and develop software-intensive system with the necessary foundation knowledge in computer science.

Course of first two years provides the foundational computer science, computational and, analytical and supporting courses. The courses such as digital logic, computer programming, microprocessors, computer architecture, data structures, operating system, database, system analysis and design, computer graphics provides the foundational concept of core computer science, discrete structure, numerical methods, and theory of computation courses provides the mathematical and computational theory. The courses such as calculus and analytical geometry, linear algebra, probability and statistics are for the analytical skills and the courses introduction to management for the managerial skills and technical writing for report writing and soft skills.

On the other hand, the courses of the third year such as artificial intelligence, computer networks, cryptography, design and analysis of algorithm, compiler construction, software engineering, web technology, real-time system help students to gain the depth theory and concept of computer science and information technologies. The courses of the fourth year such as advanced database, advanced java programming, information retrieval, data mining, IP v6, geographical information system, decision support system etc are designed to meet the industry demands and recent trends in the fields of computer science and information technology. In addition to 126 credit hours, students can have the flexibility of extra elective course and earning the more credits from the courses.

After completing the B. Sc. CSIT course, B. Sc. CSIT graduates can join in job positions of ICT industry such as computer programmers, software developers, software engineer, system analyst, data analyst, database administrators, network and system engineers, MIS officers, web programmers, system analysts, IT officers, IT trainers and instructors etc. They can also start their own business in the information and communication technology sectors or they can get admission on PhD Leading M.S. Degree in Abroad Universities around the world.



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BIM *Bachelor in Information Management
Managerial Skills with IT Knowledge*

BBS *Bachelor in Business Studies
Human Resources with Managerial Skills*

10+2 *Higher Secondary Education Board
Management (Computer Science and Hotel Management)*



Email: ncitcollege@hotmail.com

COMPLEXITY UNDER STUDY

Shristi Baral

2069 Batch

"CSIT!! CSIT must be easy compared to with BE Computer!! No maths, no drawings, no Electronics, no mechanics and Physics as an optional subject!! Whoa!! It is a great course yet easy to pass." This was what I had analyzed before getting enrolled in CSIT course. 4 years ago, perhaps it was the same time I was collecting enough reasons to study CSIT and not engineering. This is what I and everyone else applying for CSIT had to say and trust me, the story doesn't differ much. It does look easy to pass. Go to college regularly. Attend every lecture. Study only before the exam and yet you will pass with a handsome percentage.

However, I have not regretted studying CSIT so far. Couple of hours before I started writing this article, I was in my internship interview and they provided me the internship not just for my skills but my enthusiasm to learn. Today, at this point, I look back and regret over few things which I wish I could change and I wish you freshers don't feel the same when you reach my stage. Well, I have always been an average student from my school to the university. Though I managed to score a good percentage, there are lot of things I wish I had done in the four years of study as a CSIT student.

Passing CSIT alone won't lead you anywhere. The real complexity actually lies in each subject that has been designed and integrated so well that you are expected to master at each, and this is where CSIT stands out. The course is designed in such a way that the path leads to research and development. As I mentioned above, it isn't hard to pass the exam but it is really hard to prepare oneself for the industry. The percentage is granted but not the working experience.

To be eligible for the industry, honestly, it doesn't require much. Just be proficient over what you have studied so far and this actually is the real challenge. This is where many students lose their grip and so did I. The tech environment in Nepal expects more programmers, few designers, and very few others. By the end of the first year, most of us usually have had decided about what we want to do and then, we start losing the grip of our studies. We normally join some institutions where we learn few programming languages, knowledge and skills and the university knowledge just becomes the mandatory part to clear the exam and obtain the degree.

As a part of university course, we take different important subjects but we fail to acknowledge their importance. Let us take an example of Numerical Method. We often wonder why do we need to study such subject which is barely related to programming even though we want to pursue our careers as programmers or designers. So, we just study it for the sake of passing the exam and fail to realize that this subject gives us the concepts and mathematical intuitions of how to computationally solve the problems. Numerical method is a base to data science but it is not only limited to this sector as it is necessary to solve large scale programming problems. Numerical Methods is not the only subject but CSIT itself is composed of many other important subjects

which we, students, fail to realize their importance and sadly, teachers do not explain their importance as well.

Most of the colleges do not make their students work on the project each semester and the practicals are also not conducted properly. As a result, our skills to deal with real world computing problems do not enhance as expected. No matter how much the seniors share their experience and suggest us to do some projects on each subject, we never bother doing them. Nevertheless, during the final year, we regret and wish we had listened to our seniors. The questions asked in the exam are completely different from the trends of the real world. Thus, at least studying each subject with practical approach can help us a lot to get into the industry as well as our further study.

It does not matter which college you choose, but make sure you do a minor project in each subject in every semester as far as possible.

There are lots of freshers. There are times opportunities in IT sector when we don't attend in Nepal. Since IT in these programs because Nepal is neonate, there of our ignorance, our are a lot of people who are friends going on a picnic, willing to help the freshers. noone in the group being Industries are supporting interested or some other and conducting many genuinely stupid reasons. programs targeting the

The problem with IT industry is that they have a lot of vacancies. There are a lot of students and professionals but still the vacancies can't get filled because of the lacking quality. It doesn't matter how many years of experience one has, the industry just seeks what the students have managed to learn throughout the period of study and what they are willing to learn in the future. The industry will train the freshers under their internship or trainee program. They just expect the students to have good practical knowledge of what they have studied so far. However, we seem to be in a rush of learning new programming languages and ignoring what is taught academically and this is where we fail as a student.

So, as a concluding message, referencing my experience, there is only one thing I want to share with my juniors, CSIT is easy but, if you really want to succeed, make it hard. Experiment with codes and designs or techniques, implement what you have studied and don't care which industry works on which platform, just learn any one of the languages and earn it best, and learn how to solve the problem and the same applies to system analyst, network engineer or whatever you want to be.

CSIT is really easy. But learn it in the complex way!!! I don't want to read your similar article on some version of this magazine! I hope to read your experience about internship interview with some silicon valley companies! Good Luck.



Bharat DC
Student Entrepreneur
Founder, Nep SoftTech

Students attain higher education to achieve their goals and build up their career. In most cases, we students wait until our graduation to launch our business plans. However, reputable persons like Bill Gates, Mark Zuckerberg and Larry Page, who have been successful in building their empires with the starting steps they took during their student lives, inspire us to rethink about our decision to wait until graduation. The current trend of students is to start up a small business with the knowledge and skills they have acquired during their academic pursuit.

The common path of building one's career can not be trusted anymore. Companies expect the students to have had at least one internship before hiring them, but the increase in global competition and economic constraints has made getting internship/job even more tedious. Now, we students can't rely on anything or anyone and have to be accountable for our own career and to create our own path. Starting up a small business or a side project helps us gain more experience and knowledge than one can actually acquire during his internship period. Rather than going through the tiresome procedure of getting an internship, which is often based on biased judgment, students can be an entrepreneur and start their own business which will have numerous benefits despite of having high chances of failure .

Instead of knocking my parent's door for every monetary issue, I decided to try out my skills and start up a small business which would be helpful for both academic qualification as well as maintaining flow of money in my wallet. I consulted my friend Ashok, who was in the same dorm, and started working on it together. I had previous experiences of developing sites and blogs, so with the beginner level skills, laptop and good internet, we started off our first work of designing website of a travels company of Dubai. Though it wasn't a high payment project, we were absolutely satisfied and

overwhelmed with happiness as it was the first earning of our hard work. At certain point, we had a problem for writing credit name, nevertheless we came up with the mutual name Nep SoftTech. Our work gradually transitioned into developing professional websites for real clients and eventually got opportunity to work for automobile parts manufacturing company and other big companies. In that course of time, we did face failures, some of our works even collapsed and there were times when we couldn't meet up the expectations of our clients but it was all part of our work. Thanks to our college, St. Lawrence, for always motivating, supporting and encouraging us to not just keep ourselves limited to our curriculum but to unleash all our potentials and excel in any work we choose. We then perceived the failures as lessons to be learned and an inspiration to learn more and grow better. Today, our company consists of a creative team of management, designer, developer and marketing personnels plus we specialize in web and mobile application design, software development and marketing services.

Student entrepreneurship does sound fancy, but trust me, it is as tough as cutting a diamond from a stone. It does have tons of benefits but along with it comes the obstacles like the market and business associates having hard time trusting the young entrepreneurs because of their lacking experience. The market competition is fierce regardless of our age and qualification as we have to compete not only with our colleagues but also the mature and more experienced businessmen. The problem of investment is also another and very crucial matter as the banks and financial institutions do not want to invest on such business, so the promoters being students, do not have much income source of their own. Even if we get clients and complete our work as they defined, our work is not properly acknowledged and payment is also not done properly.

SOME TOPICS TO KNOW BEFORE ENROLLING IN CSIT THAT GIVE BENEFIT WHILE STUDYING BSCCSIT

CSIT (Computer Science and Information and Technology) is the mixture of computer science and information technology. Computer Science basically includes the theoretical background and knowledge about the computers and its system while information technology refers to the latest technology used in the field of communication that ranges from internet connection to different mechanism developed for establishing connection between the electronic configurations.

This course covers almost all the topics of computer sciences and important topics of the information technology. So, the highly enthusiastic students who want to study BSc. CSIT must have some knowledge about the following topics: -

Basic Computer knowledge:

General knowledge about the computer and its peripherals such as mouse, keyboard, CPU etc. Getting familiar with the use of computer is highly useful for the learning process of any course related to computers and not only CSIT. Basic idea about units of memory such as bit, byte, Kilobyte/bit, Megabyte/bit, Gigabyte/bit etc is equally necessary. These units are also used to measure the speed of internet connection. Having a crash course about CSIT would be highly beneficial to the students.

Familiarity with different types of Operating Systems:

As far as we know, most of you are usually familiar with Windows or officially called as Microsoft Windows and the latest one is "Windows 10". This operating system is locally and easily available to the people. Many computers in business sectors, industrial sectors, social sectors, etc run on Windows OS. However, there are other operating systems like Linux and MacOS as well, which are widely used in IT companies these days for software development. Having ample knowledge on OS does no harm so it is better if you are comfortable in working on different types of OS.

Slight hint about the programming language concept:

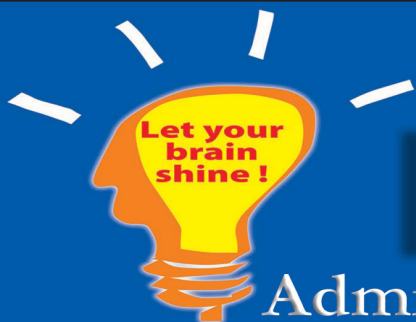
We have basics of first programming language known as "QBASIC". It is the beginner level programming language and somewhat similar to C programming. Having good knowledge about it helps a lot in learning other programming language such as C, C++, C#, Java, .net etc.

Typing at average speed:

One must have an average speed of typing, it is the skill which will help you in all the fields. Faster the speed, faster you can perform which can be called as the true essence to IT.



Jayan Shrestha
BscCSIT 2070 Batch



Bsc. CSIT

Admission Open



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CSIT STARTUP

Tek Raj Guragain

(BSc.CSIT 2010)

(Co-Founder/CEO)

Prologic Solutions. The words like startups and entrepreneurs sound amazing but these words have a great story behind them. There are stories of dedication, work and consciousness.

Starting up:

Recognize yourself. Whenever you want to start a business, first recognize yourself. Be sure in which sector you can handle or manage a business.

Gain Skills:

You might think to startup when you are at college or while studying. So before you start to manage or run a business, get enough skills in corresponding field by joining internship or job in corresponding industries.

Develop Connections:

Never ignore a person. Always think how your dream business can serve any people you meet or come in connection. Plan to develop a suitable solutions for matching every sector.

Develop Plan:

While starting up a business, develop a plan on how much you can do in 5 years, 10 years or like this.

Be Patience:

Do not take care of short term benefits only. Work for something that might impact you or your business after a long time



too.

Taking these key points in mind, one can start but there are lots of good and bitter situations when one does a startup. One of the major thing in a startup is one should do it by inner interest. It is really a challenging task to make people or client know about you and your products for IT startups in the context of country like ours. Considering a part of motivation, I am especially motivated to run a startup from big Nepalese IT companies like F1 which had also started from startup.

Story Behind Me:

I am a BSc. CSIT graduate from Patan Multiple Campus. Since the final year project, I along with some of my friends aimed to do a startup. But at the time we were only students and feared if we can do it. We also had no skills in development and management of organization as

well as projects. The compulsory internship and final year project of course did a lot to uplift me. I joined an internship at a company which had few developers and management team. It is sad to say that the company exists no more. After that, I got a chance to work in one of Nepal's well known and large IT company. While working as a mobile app developer, I not only took care of codes but also company's management and was always keen to know how this company grown into this much from a roomed company. The most key factor I found there management and connections. I not only learnt programming and developing there but I learnt formal communications, co-working and others as well. I also picked up some bad aspects of company to make sure that it won't happen in my dream business.

Finally, I along with two other friends registered "Prologic Solutions". The bond between three of us couldn't last long because one of my friend left the co-founding after very short time.

Now we are two and a brand Prologic Solutions is with us. We have aimed to be a Nepal's leading IT company within upcoming five years.



MARKET COMPETITION

Subash Dhital

Vice President

CSIT Association of Nepal

Co-Founder, Marketing Manager,

8848 Technology

Information Communication Technology is a field where many foot have already stepped in. Till date, there are no barriers for those who can work as IT professionals. The door of ICT is open to everybody, the only difference made is based on what capabilities you have built in yourself in a particular sector of your interest. In the current scenario of Nepalese IT market, there are various IT courses available in bachelor level and every course have the same motto "to produce a best IT professional". Alongside these courses, there are various institutes who provide trainings and help in producing IT professionals.

B.Sc.CSIT is a course which can be studied only by the students from science background and specially having strong foundation in Mathematics. Every course in bachelors cover many IT related subject. There isn't much difference in the course structure but BSc. CSIT is the only course which covers more than 80% of its course totally based on Computer Science and Information Technology. Everything we study determines what we will learn. All the knowledge we gain during our study is what we implement at our work.

IT market is very dense, you can find and meet various professionals from different sectors of IT. This shows that the competition in the market is very tough. You can find some people who have taken three month training, one year training, some from three years bachelor course, some

from engineering while some from management or any other sector. So, it is not easy to settle and

focus in one particular topic only and set the comfortable zone around it but so is it difficult to be versatile and know every part of IT. You need to develop yourself in such a way that you can adopt the changes and be able to compete in the market and have capabilities to research on your own. None of the courses can guarantee that you will be the best, because you are the only person who can guarantee that. B.Sc.CSIT provides you a capability to do research so that you could learn and explore more. If you focus on research, you will be able to win every competition. Always keep yourself updated which is only possible through research.

There is no particular body like in engineering to determine that that person is eligible to be the right person in IT field, everyone having knowledge can work as IT professionals. If you want to be a programmer, there are others who have come by taking three month training yet have same knowledge like from bachelor. The only way to prove yourself best over here is to show your knowledge by making your code secured, optimized and specialized to the system you are developing. If you want to be an entrepreneur or work as a freelancer, there are still many graduates or undergraduates and personals from training institutes for the same purpose. You should develop a plan on how your idea will sustain long and how you can adopt the change during the four years course itself. These are the only things that matters when you step in the market of ICT.



Sitashma Rajbhandari
CSIT 2070 Batch

Today's world is leaded by Computer science technology and BSC.csit is a reputed course in the field of Computer science run by TU. The first time I heard about this course was after grade 12, when I was still stressed concerning which course I should pursuit. I was unaware about Information Technology but later when I researched, I was intrigued by this field. I realized that it was not just a small field but a vast universe of opportunities. It was amazing to know that the world today was world of technology and IT was gateway to this interesting universe. As a newbie to this field I had lots of excitement and expectations, it was not just a door for the good opportunities but it would also lead me to gain knowledge regarding the backbone of present world i.e. Information technology. After consulting seniors I learned more regarding IT, how they were benefiting by online jobs that can be done staying and relaxing in home, different workshops that would be organized for skill refinement which made me more fired up and I gladly signed for the course.

Now after investing myself for three years in this field, even though many of my expectations did get fulfilled, it's sad to acknowledge that as our country is still far behind in terms of technology plus our education system lacks in many ways, students are forced to study subject that does not fall into their interest. Due to vast difference in the study material taught in colleges and what actually the market demands, even though 42 subjects are taught only few are actually application during work. Importance is given to passing exams and scoring marks rather than practical training and learning new skills. There are many reforms yet to come in this field of information technology however, I am glad with the choice I made because this field is indeed an interesting field with brilliant opportunities.

CSIT TO Game

Tenish Shrestha
Developer, Co-Founder
8848 Technology

A four year program run by Tribhuvan University which provides the overall course of computer science and IT, which develops the student's resource and broadens the mind in this field is B.Sc.CSIT. Some of the fields that the student can grow on over the years are Network, System Network Administrator, IT officers, IT Managers, Software Developers or Designers, Web Development or Designer and many more. From this, we can conclude that this particular program has a lot of potential and a large scope.

In particular, a strong foundation of programming is achievable in this program. Programming can be stated as "Programming is the process of taking an algorithm and encoding it into a notation, a programming language, so that it can be executed by a computer." A good programmer generally means the one who has good logical power or capability and is best at his skills. Skill is only achieved by hours and hours of beating on the craft.

As men-

tioned above, this program has a lot of scope but in particular game programmer or game designer is one of the deprecated scope which can be achieved from this program. Game that is played on an electronic device is a Videogame. A good amount of skills is needed to achieve this goal and if we look this program from a different angle, it helps a lot. To justify this statement: To be eligible for B.Sc. CSIT, the students has to come from the science background, which means physics and other subjects are read by the students. To be specific, projectile, gravity, collision etc. are the foundation for the physics in every video game. After joining the program, in the very first year, C language is introduced, the basics of programming technique is honed from this language. Gradually the very OOP (Object Oriented Programming) language is introduced i.e. C++, OOP is one of the pillar in creating video games. Along with this, the students will be learning math which includes probability and vector. Vec-

tors are also the fundamentals of video game, E.g. A player moving one place to another on a click of a button on various style of games is achieved from Vectors, If the Game is 2D then Vector2 is used, if its 3D, Vector3 is used. These algorithms are still used in the Video games e.g. in a popular game "Warcraft", the player always find the shortest path to the destination, this is achieved using A* shortest path algorithm.

In this way, this program teaches us the basics of game programming and as mentioned above skill is only achieved by hours and hours of beating on the craft. And a person who is able to write each line of code and create a game is a good programmer. This is one of the angles that we can view in this program, which means there are a lot of angles to view this program. B.Sc.CSIT is a growing program, which is being beveled along the years and is still being refined and the scope of it is growing larger and larger.

ADMISSION OPEN



B.Sc. CSIT

Bachelor of Science in Computer Science & Information Technology

Why B. Sc. CSIT @ SamriddhiCollege ?

Demand for Information Technology (IT) professionals is extensively growing globally and Nepal is no exception. Samriddhi College has started a 4 years B. Sc. CSIT degree course especially to nurture the field of Computer Science and IT, and to generate skilled professional human resources with competent to work in scientific computing and software development industries around the world. It caters to the need of the professionals such as computer programmers, software developers, software engineer, database administrators, network and system engineers, MIS officers, web programmers, system analysts, IT officers and many more in the ICT industries. The personality fit for IT job positions should be curious, creative problem solvers with strong technical skills. Hot areas of IT jobs are expected to grow include network security services, cloud computing, big data analytics, mobile apps development and Web-based games are exploding.

BBS (IT Enabled)

Bachelor of Business Studies

KEY FEATURES

- ◆ Productive Internship Program
- ◆ Advanced Microsoft Packages (Word, Excel, Powerpoint)
- ◆ Accounting Package
- ◆ Non Credit Courses- Presentation Skills, Communication and Report Writing, Seminar, Workshop, Public Speaking, etc.
- ◆ Organizational Field Visit

BSW

Bachelor of Social Work

KEY FEATURES

- ◆ Non Credit Courses- Presentation Skills, Report Writing Seminar Workshop, Public Speaking etc.
- ◆ Great working and Learning Environment.
- ◆ Advanced Microsoft Packages
- ◆ Extensive Field Works
- ◆ Placements for Merited Individuals
- ◆ Qualified Facilitators
- ◆ Productive Internship Facility



Samriddhi College

[T.U. Affiliated]

LIMITATION OF CSIT !!!

- Rakesh Kumar Bachchan

CSIT 2010 Batch



The Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT) curriculum is designed by closely following the courses

practiced in accredited international universities. Enrollment to the program is limited to students from Intermediate level with science as major (as prescribed by HSEB) or its equivalent. Selection of students are done on the basis of entrance examination conducted by Tribhuvan University as per its rules. Included with core Computer Science subjects along with Information Technology courses, this course intends to provide in-depth knowledge of Computer science theory along with design principles of efficient algorithm; encapsulated with the development perspective of information technology, this course helps students to apply their theoretical knowledge in possible application areas. Students must take at least 126 credit hours of course to accomplish the degree which constitutes of core Computer Science, Natural Science, Management, Mathematics, Technical writing, Project and Internship.

The main objective of B.Sc. CSIT is to introduce students with several principalities of computer science and information technology. Also to make students involved in further research activities related to computer science and information technology, this course provides a base. It prepares students with all the knowledge required for higher studies in the related field.

Institute of Science and Technology is conducting this program since 2064 B.S. Also the course curriculum has been revised since its introduction in 2064 introducing some relevant subjects necessary for the students in current ICT age and also for the infrastructure development of the country.

Subject committee experts must be praised for preparing such a deserving course.

Limitations:

Some revisions, that still seem to be irrelevant from implementation perspective, are to reduce the course contents of some subjects followed by practical and minor projects. Also, hierarchy of some subjects needs to be managed from one semester to another, e.g. Digital logic and Microprocessor rather than teaching in same semester should be introduced in two consecutive semester, initially Digital logic in one followed by Microprocessor in the next semester. Some subjects like Calculus and Analytical Geometry, Compiler Design and Construction, and few others should be conducted as two semester

courses. Advanced Java should only be introduced after basic Java course. Some contents that seems redundant among various subjects needs to be addressed. Research Methodology seems necessary which help students to gain knowledge about how to carry out projects, write report and several other necessities required for research activities. Minor Projects must be made compulsory for every subjects and in every semester. Problem solving approach of teaching should be brought into practice for far better outcome.

Implementation of major project needs reconsideration to check whether the projects done by students are fruitful or not. Project selection criteria should be based upon practical application of the final outcome in real life. Also, if similar type of projects are being proposed by students then such situation should be tackled based on application areas since similar projects carried out by multiple group are not fruitful if they are producing same types of results. Similarly, supervision of projects need improvement. Mentor should supervise limited number of projects in their specialized area for better results and outcomes. Also, future enhancement of one project should be addressed in the next session. Major projects should be carried out in such a way that it will be applicable to country as well as to humankind. Publication of project in national and international journal like IEEE, ACM and others should also be kept in mind while carrying out final year project.

Internship is included in the last semester with a goal of providing students with the opportunity to re-examine their career objectives and explore different opportunities in the related field. However, it requires an attention from implementation point of view. Colleges providing the course should have memorandum of understanding with related companies for betterment of internship program of the course. Much better result could be seen if university takes responsibility of such tie up with the companies.

Let's hope that the university also have concern to these issues and the related department will overcome these issues in the next tenure.

Overall CSIT course is good with respect to subject and international recognition. Passed out students are getting enrollment in national and international universities for higher education without difficulties. Some difficulties associated with the course and its implementation might be addressed by related department in upcoming sessions. This course is the must in the current age of information technology. Also, this course have been playing a major role in Nepal's ICT development since its establishment.



DEVELOPERS AFTER INTERNSHIP



1 COUNSELING



2 TRAINING



3 PROJECT WORK



4 EVALUATION



5 WORKSHOPS



6 INTERNSHIP



7 JOB PLACEMENT

7 STEPS
SUCCESS
METHODOLOGY
AT ITN

WANT TO GET QUALITY AND
PROFESSIONAL TRAINING AT
LOWEST COST?

INTERNSHIP FOR ALL
WITH EXPERT SUPERVISION



Prakash Neupane
Founder President
CSIT Association of Nepal

THE TIME WHEN WE SOWED THE SEEDS OF CSITAN

I remember the day when we realized the need of establishing an umbrella organization that will lead, represent and drive the future of CSIT and the CSIT students. ICT is most fragile, rapidly changing and highly diversified sector and to cope with such behavior, we envisioned the need to create an environment to access this ecosystem for all. However, it had to be nonpolitical, noncommercial, and completely a student organization.

The vision of CSITAN is to establish the knowledgeable human resource of ICT in Nepal who can contribute to nation and global economy. CSITAN has always worked to enhance the technical skills as per the market demand and help students to get easy access to the market. For it, CSITAN has always been active in organizing workshops, meetup, seminars and conference in national and local levels, which gives special privileges to the CSIT students. We knew that it is only possible if we collaborate with other similar communities, professional network, Government, INGO and NGO.

At the very beginning days of CSITAN, we focused our activities on establishing our identity as CSIT students in the nation. As CSIT was a new course in the market, industries were completely unaware of our existence. So, we came up with the idea to reach IT industry and share about our course and studies. We organized the first University Industry Tie Up to bridge University,

Industry and Students together to build partnership to support each other. But today the situation is different, the competition is on a different level. So, we should focus more on bringing certain standards on skills and knowledge. We should prioritize on student projects and hackathons and help to promote talents. This basically means we understand the change.

We believe on Diversity. We share the belief that diversity brings unity, strength and happiness. We encourage the fact that all students should have equal opportunity to represent themselves in the market. We have examples of both girls and boys who are leading CSITAN, which is undoubtedly excellent but it is still not enough. We need to make sure CSITAN has made impact on everyone's lives. And it is only possible if every student who is persuading CSIT start owning the missions of CSITAN. CSITAN hears everyone's voices, so none of the students will feel unheard.

Action Speaks more than Words. There are lots of organizations who shout more than they do. Unlike them, CSITAN is working online and offline every day with a single student to 100 students every day. I remember those days when I spent most of my time talking to my friends, teachers and my juniors talking about the new technology development, new issues, new plans and problems. These things help us to understand what matters to our students.

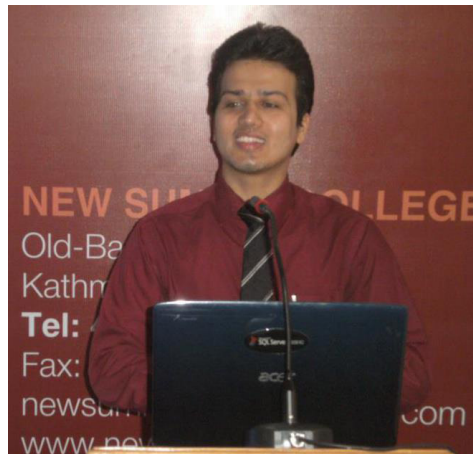
GRADUATES IN PUBLIC AND PRIVATE SECTOR

A fully educated, wise and professional employee is an asset of a company. It is obvious that the students are confused if they will get the job or not after graduation. Each student is curious of the job market, the remuneration and the benefits in the ICT profession and the future prospect of the career. Nepalese IT based services and market is continuously increasing which is making ease to the pass out graduates from various ICT courses across country as well as abroad.

Talking about BSc. CSIT and its job prospect, first of all, every BSc. CSIT student should understand that there is a huge competition in the market for the job and there are various related subjects and courses besides BSc. CSIT. When you apply for a vacant position, there are computer engineers, electronics engineers, BCA graduates, BIM graduates, BIT graduates, BSc. IT graduates etc., and you are becoming minor among these group of students. But still don't panic; you are the one with shining career and knowledge and will be noticed and marked as better among that community due to the courses and skills that you develop during your study tenure. If you don't have enough qualification, professional knowledge in common technological areas and interest in Information and communication technology, then it would be hard to find the suitable job. In order to be an eligible candidate in the Nepalese technological market, you should have good education background as well as familiarity in programming languages like PHP, Java#, Python, Perl and many more or familiarity in networks, system administration, database etc.

The available job positions in context of Nepali technological services are as follows:

1. Software engineer
2. System analyst / DBA
3. Support engineer
4. IT Service representative
5. IT assistant/ IT officer
6. MIS officer, consultant
7. Web Developer, Programmer



Shovit Sharma

**System Analyst/ Helpdesk In-charge
Nepal Clearing House Ltd.**

8. Quality Assurance Officer/Tester
9. System Administrator
10. ICT Security expert
11. Network engineer and many more.

Currently, each undergrad BSc. CSIT student is offered various programming languages extra classes, CCNA class, database workshops, technical communication seminars etc. which will help the student to find a job that best suits their personal intuition and make a right decision to start their career. In today's world, if

you look over the job sites even in Nepal, then you will find that many jobs are there for technological areas. The BSc. CSIT should clearly speak to the employers that he is eager to pursue the career in IT and will deliver what he/she can do for the betterment of the company.

Sharing my experience, I joined as a trainee system analyst in the beginning at Nepal Clearing House Ltd during 8th semester and I was able to complete the internship requirement of BSc. CSIT course from the same company. Later, once I got graduated, I was appointed as a system analyst through regular HR process. Organization itself requires competency from its employee and hence, I was given enough support and trainings to pursue my expertise in database administration in Oracle 11g. So, if you are good at your study as well as in your area of your work, then you will certainly be an asset to that company and will be marked by other companies for hiring you in better position.

Nowadays, there are various IT jobs in various Nepal government agencies, telecommunication service providers, Software companies, Banks and financial institutions, IT training centers, School, Colleges etc. where many passed out BSc. CSIT graduates are working and you will be the one noticed by the employers. One and only thing to have is patience and positive attitude towards ICT job and the willingness to be up to date in ICT based technologies. I wish all the best for the prospective BSc. CSIT graduates.



Rajan Kandel **CSIT 2068 Batch**

Before talking about the course BSc. CSIT (Bachelor of Science of Computer Science and Information Technology), let us first know little more about the course itself. CSIT is not only an IT (information Technology) or CS (Computer Science), it focuses on principles, technology and algorithms, not how to use computer applications in CS. Unlike Computer Engineering which particularly focuses on computing in all forms, from microprocessors to embedded computing devices to laptop and desktop systems to supercomputers, the Combination of the courses to be studied throughout the four years of study make a student a perfect product to be sold on a market and a perfect bud to grow larger and larger on every field with greater knowledge over greatest market demand, to fulfill and fit at every area and field.

If you are choosing any subject or faculty in which you see a great career, then that might be a wrong decision you have made. Choosing a career path after successfully completing a step in life is always a great decision to make. It is hard and one must take some more time and research on the field in which they are going to enter. It will be bad if the field we chose goes wrong after completing and we may be jobless even after the completion of the course. So, as my suggestion, do some research and spend some time thinking about your next step and next course that you are going to join.

Joining and completing Bsc. CSIT does not mean that you will be awarded with a high salary job, world wide reputation, research grants, and fundings. For that, you need to do more, explore more and research more. With the best IT course and highly reputed degree, you have a great chance to rock your career in future. You have chance to be a superhero but for that, you just need a hard work, have strong dedication, passion and vision about what you want to be. You are currently on a transition phase where you

are taking a big jump at your career and one decision can really make a difference at your career goal. Although there are other programs available, the major reasons for the popularity of this program is that it is well-designed and contextual course with wide range of areas for the job where the graduates of this program can apply.

Let me talk on the field, job and area where you can see yourself once you complete CSIT, in your words, scope of CSIT, simply jobs after completing CSIT and making it complex, what you can do after CSIT. If you ask me what I can do after I pass CSIT, my answer will be "anything you want". But let me summarize:

- System Analyst ,
 - System Administrator,
 - System Manager,
 - Software Programmer,
 - Database Designer,
 - Database Administrator,
 - Network Administrator,
 - Graphics Designer,
 - programmer,
 - Web Developer,
 - Web Designer,
 - IT Officer
 - Entrepreneur
 - ICT Activist and much more
- Sky has no limit and so do you.*

These are the just few examples of what you can do with, but you will find a ball at your each step with which you can score a goal and celebrate it in your career. There will be no limit for you to explore, develop, and make a great career but for that, joining and completing CSIT will not be enough. Remember my word, you need dedication, passion, hard work, and clear vision and what you will do .

Good Luck !!

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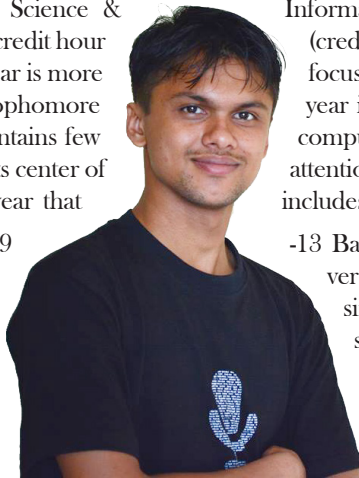
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EASY / HARD IN LEARNING IN FOREIGN EDUCATIONAL ENVIRONMENT AFTER GRADUATING CSIT

Bachelor of Science in Computer Science & course organized with minimum 126 credit hours (of elective courses). Freshman year is more basic computer science subjects. Sophomore year is more computer science courses. Junior year contains few networking subjects. Senior year has its center of focus on the subjects studied in previous year that

According to Gokul Dhakal (2009) Assistant at Bowling Green State University, we studied during Masters' level in the US. The difference is the way of teaching and research. He added that we are more exam oriented and syllabus driven which creates a crash on our problem solving skill. He also mentioned the international standard and thanked the university for drafting the syllabus.



Information Technology is the 4 years 8 semester program (credit hour can be increased since there are numerous elective courses). Freshman year is more focused to the introduction to programming and year 2 is more focused to Database and core computer science courses along with programming / attention to the specialization and implementation. The final year major project and internship.

-13 Batch ASCOL), currently Graduate Research Assistant at University of Central Missouri, USA says, "Most of the major subjects are similar to the core CSIT courses; the difference is the research oriented approach of US education." He also mentioned the syllabus driven which creates a crash on our problem solving skill. Moreover, he rates CSIT program to be the best team of lecturers and professors involved

CSIT curriculum has been considered the perfect CS / IT course for the global academic or company scenario. Subash Sharma - graduate from IOE, Pulchok Campus, graduate student at Lamar University, US, usually reacts his jealousy to the syllabus, "Had it been the syllabus of Computer Engineering, engineers from IOE would have been more professional." He also talks about the flexibility of elective courses and final year major project plus internship as the professional beauty of entire CSIT curriculum and acclaims every CSITian to be more serious during their academic year to weightage its beauty. Furthermore, he commends every IT graduate to reach the foreign land with at least 2 years of work experience.

Sunita Tiwari - Gold Medalist from Tribhuvan University & Graduate from Central Queensland University, Australia says, "Leaving the comfortable zone of Nepal to come and study in foreign country is definitely hard. The educational atmosphere in Nepal makes students focus on theory and make the base strong.

The educational environment in most of the foreign countries make students practically work with the theory they already have gained from Nepalese educational environment." She adds, "In Nepal, one could score excellent in exams even though they studied only for a week before exams. But here in Australia, one has to work hard on it right from the start because if they do not, they might not score well plus they would learn nothing from their studies and spending thousands of dollars for their foreign degree would be for nothing." She concluded her views screening the belief that in spite of problem on environment adjustment, BSc. CSIT graduates can easily cope out of it after a couple of weeks and gives their best right from the start.

The cumulative acceptance inferred from the view of CSIT graduates with their experience on studying in foreign land hence surmise the professional scenario on the curriculum and focuses on the lag of professional learning atmosphere. Very less project works / assignments, very few dedicated professors, comfortable supervisors in each and every mistakes committed are the environment where CSITians finished their under graduation which is never to be expected with professors in foreign university. The tone and accent of professors, daily quiz taken by professors, serious project works, regular assignments, surprise test, serious lab works, grading platforms, student graduate assistantships, Internet based Learning Management System that put student and professor in a same platform etc are the environment that CSITians may find hard to adjust for few months. English language has never been a problem to CSITians and they should always be clever to take their graduate degree in English medium. Nevertheless, the environment may be felt uneasy during the start, later on foreign environment is digestible. Moreover, BSc. CSIT graduates with at least 2 years of work experience entering the foreign land for academic graduation have higher probability of success in their professional / academic career than the fresh graduates entering the foreign education.

Sajjan Lamichhane

Graduate Assistant

University of Central Missouri

Ex- General Secretary

CSIT Association of Nepal

Co-Founder – NepFlights, G-Hackademy, BSCCSIT.COM

B.SC. CSIT SCOPE IN ABROAD COUNTRIES



Bipin Shrestha

**Ex- Vice President, CSIT Association of Nepal
Graduate Student Maharishi University of Management**

Before talking about the scope of B.Sc. CSIT in abroad countries, let's start with what this course is all about. B.Sc. stands for Bachelor in Science and CSIT stands for Computer Science and Information Technology, which is a 4 years' Bachelor degree in semester system with 8 semesters, where each semester runs for 6 months. This course is fully focused on providing the students with all sorts of knowledge regarding Information Technology and Computing, in short, to produce a perfect candidate for the IT and Computing field.

To provide the brief overview the scope of CSIT in abroad countries, I have pointed out some of the key points.

Studying in a foreign country after CSIT- CSIT is a perfect course compared to traditional computing environment. It provides the new course challenges to all the students and professors as well. The course design of CSIT is the perfect course structure compared to other international universities around the world. After B.Sc. CSIT, there are various master's degree course being offered and to focus in a particular field is completely student's choice. Most of the fresher students often ask me the difference between CSIT, computer engineering and other IT courses like BIM, BIT, BCA etc. In abroad, neither faculty nor employers ask the name of the undergraduate degree if you have completed the required credit hours of the core subjects. Students studying any of the above mentioned subjects can study the same graduate level courses in foreign land and also can work in the same department if you get hired by the software companies. Colleges abroad offers TA (Teacher Assistance) or RA (Research Assistance) to the students considering their GRE/ TOEFL / IELTS marks or the undergraduate GPA, from which they can make money during their study as well.

CSIT course offered by Tribhuvan University, in comparison to other Universities' CSIT courses, covers most of the master's course. As most of the topics are covered in Bachelors', TU should upgrade their syllabus for M.Sc. CSIT course also so that the CSIT students can get enrolled in Masters program as soon as they complete their Bachelors. As we talk about abroad studies, the course content for masters is much more supportive and covered since CSIT course content covers subjects like Theory of Computation, Object Oriented Principles, Advance Database Administrators, Cryptography, Advance Network Administrator, Algorithm, Compiler which contains similar topics with same flavor in master's program of the universities abroad. Students who want to go abroad after B.Sc. CSIT can thus get the acceptance with their CSIT degree.

Hot Job: Now let's talk about some hot jobs. Hottest job around the world is IT jobs. If we google the hot job or most paid job, it shows Data Science, Big Data Engineer, Mobile Application Developer, Wireless Network Engineer, Multimedia Designer, User Interface Developer etc., which are all IT jobs, and there are lots of positions to be filled out.

Non IT candidate migrating to IT Currently: In IT market, we can see many non-IT background candidates migrating to IT fields. The IT job's demand has grown up so much that, to fulfill the requirements, industries have started hiring non-IT candidates and training them. This is the best time we can show our skills and secure our position.

Best Pay Scale: IT jobs like Software developer, Network System Administrator, Web Designer etc are undeniably a smart career choice in any job market. Salaries for well-trained and smart software developers continue to be high and demand is likely to stay strong for a long time to come. This is one career that will require ongoing learning and updating of skills even after you've landed that plum job, though.

Secure Future: IT jobs are the most secured jobs in the list. You don't have to starve to death if you are in this field. No matter which part of the globe you are in, you can always earn the equivalent amount of money within the limited resources also. It is said that IT professionals can prepare the Software for Mars or even to next solar system from the chair of Earth.

Many CSIT students are studying their graduation and post graduation degree in foreign lands which includes US, Australia, Canada, Japan, China, Thailand, India, Germany etc. The CSIT syllabus is the perfect to land in any of the nations and pursue their higher degree. Also, you can complete your direct PhD level after completing the BSc. CSIT. Ex-President of CSIT Association of Nepal – Sunil Manandhar is currently pursuing his MS-PhD degree in USA. Also, I have seen lots of CSITians going to US taking H1B visa – working visa in US and also in golf countries as working status with handsome salary. If CSITians focus on their career path, the scope can be enlarged anywhere in the globe.

What to focus that will help on abroad in learning and earning.

The world is going GLOBAL and a global exposure of living and studying abroad is like an icing on the cake. The exposure will shape the way we think about life in an entirely new perspective which will be both intellectually and emotionally challenging. The growth on the Information Technology has changed the world into a global village. USA and Nepal have become closer due to the rise of Internet, Social & Broadcasting media. Any task can be accessed and accomplished from any part of the world via Internet. Information Technology has been godsend to the global village and thank god, we are in the same field and are following the right track.

There is never a dearth of opportunities anywhere in the world for those who know what exactly to do, be it in any field and USA is no exception. Before taking any decision in life, we need to know how things work in a place which we are not aware of and make changes accordingly. I must admit that America is a place where talent is worshiped keeping aside all the differences. And the case is quite similar all over the world. Its the same in Europe, Australia or Northern America- talents get recognized and are given chances.

As you already know, we need to give GRE and TOEFL/IELTS to apply for colleges here. Prepare and give those exams well in advance as it helps to focus on other things like visa, applying to scholarships in the college, book tickets, etc. All these things can easily take around 6 months!! Moreover, the requirements for GRE / TOEFL differs to nations. We may not have to give GRE exams for higher studies in Europe / Australia but TOEFL / IELTS is mandatory. Likewise, Arabian countries - Saudia Arabia, UAE, Qatar has top ranked Universities as well where handsome score in GRE / TOEFL is required. Quality education can also be gained in India, China, Japan, Thailand to pursue our higher studies and the requirement depends on the criteria of Universities.

If you are focusing in Computer Science field, here are some of my suggestions that had helped me. Firstly, you need to have some experience in the form of an internship or some big project done all by yourself. Also if you haven't yet decided on a technology, learning Spark, Scala, Python or any other business intelligence tools would be helpful as there are many jobs out there in that field. This just adds up to our confidence and practical experience matters a lot here.

Be serious on the final year major projects that is to be done during seventh semester of BSc. CSIT. Also, I suggest each CSITian to prepare research papers and try to publish them as far as possible. The more researches you get involved

in, the best insights you will get which may also draw the attentions of international communities and companies. Furthermore, one more free tip is to have the expertise in any of the programing language which means a lot here in abroad studies and also during earning phase.

Additionally, earning can also be done during the sophomore year and freshman year of CSIT course. The main requirement is that you have to be efficient and perfect in one of the languages. There are many CSITians who have started earning from the very first semester. According to Anup Pokhrel, passed out CSITian and a freelancer since his first semester, "Be focused to the professional path, future is on your keyboard." There are lots of freelancing platforms like upworks.com where we can bid our work. He added that his four years' tuition fees were all paid from his earning through freelancing and was also supporting his family at the same time. If you have the expertise, you can earn from any part of the globe. One thing is sure, you don't have to starve to death in this field.

Secondly, follow the rules here, be it rules related to driving or living here. Thirdly, look into the financial issues and studying here is a huge investment as studying in a good university can almost cost on an average 15-20 lakhs and it differs to the universities and countries.

Last but not the least, be positive and things will be in right place even if they take time. Just focus on things that matter to you the most and be independent. Talent is highly praised here, neither recommendations nor blood relations, just talents. Just remember "When you want something, the entire universe conspires in helping you to achieve it".



Ashok Neupane

University of Central Missouri, US

Former Technical Lead

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Founder Member- CSIT Association of Nepal

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B.SC. CSIT COURSE – A DOOR TO UNLIMITED JOB POSSIBILITIES!

Computer Science is one of the most sought courses by Nepalese students these days, thanks to successful proven graduates in last 5 years produced by B.Sc. CSIT course of Tribhuvan University. B.Sc. CSIT is a very standard and advanced course of study. A very well designed and globally accepted curriculum path along with the combination of professional exposure included within the 4 years plan makes B.Sc. CSIT graduates standout in the competitive job market.

Upon completion of B.Sc. CSIT program, graduates will have an opportunity to land at one of the many types of jobs available, or they can also create their own jobs being an entrepreneur. Often they have already got the exposure to jobs during their studies, for instance through an internship. The dynamic breed of professionals produced by B.Sc. CSIT course possess very excellent skills in computer science and information technology that makes them sell-able in the technology market in Nepal and worldwide.

Most commonly, many of the B.Sc. CSIT graduates are found to be choosing the software industry because of very widely available well paid jobs in this



Aashish Shrestha
B.Sc. CSIT 2009-2013 Batch
Senior Software Test Engineer,
Braindigit IT Solution Pvt. Ltd.

field, thanks to the boom in the software demand over the last decades. In a software company, generally CSIT professionals work on developing, programming, designing, testing and maintenance of software systems. B.Sc. CSIT graduates are also working as Network Administrators, IT Officers/Managers, System Analysts, Information Security Officers, Computer Support Specialists, Database Administrators, Project Managers, Software Engineers, Search Engine Optimization Engineers, Mobile Application Developers, Designers, Technical Writers, Software Quality Engineers, Solution Architect et cetera in Software

Companies, Banks, NGOs, INGOs, Telecommunications, ISPs, Computer Networking Companies, Government or Non-Government and Public or Private Organizations.

Presently, B.Sc. CSIT graduates are working in good position at different companies and even some of them have their own. So, this has already proved the course. But, tech companies need people with good knowledge, skills and determination. Student must learn well to get the right skills during their college for getting the right jobs. Sky has no limits, so as the possibilities for B.Sc. CSIT graduates.

EXPERIENCE OF A CSIT STUDENT

During the four years of my Bachelor's Degree in B.Sc. CSIT, that actually turned out to be almost five years, my feelings towards the course and my decision to pursue this course did not remain constant. Mostly I was in a state of doubt. I doubted my decision, I doubted the potential of the course in itself, I doubted the ability of the university to conduct the course and I doubted a lot. The times when I was not doubting, I was trying to make myself believe that the course is great and that I just have to work hard to make it worth it. I was trying to make myself believe that it was a relatively new course in the country and would take time to become good. But the four years passed, and I completed my degree. Today, in retrospective, I do not doubt the potential of the course. I feel that the course consists of great syllabus and great subjects. But I still doubt in the execution of this course. Is the university and the colleges providing this course doing a good job? I don't think so. While almost every other department in the university provides online results, the one department that specializes in computers and information technology fails at it. Well,

for results you need to give exams first which never happen on time. While graduates from Kathmandu University hit the market, the students of the same batch of CSIT are just starting their last semester. And colleges have a hard time finding good teachers for the subjects that are offered. Everything seems to be a mess.

Now, the question remains! After having completed four years of BSc. CSIT, would I recommend this course to newer students? Of course I would. The course is brilliant but there are glitches in the execution. And if you choose a good college and put your effort into it, this can be the best of the courses for anyone. After all, it is us who have to work hard for our own good. Despite the shortcomings, if one is ready to put his/her 100% and go a step beyond the college and the university's efforts, then studying CSIT may just be the best choice.

Jenish Maharjan
2011 Batch
St. Xavier's College

Voice of students outside valley

"I can't say that CSIT is the best course, but for me, it has probably been the best. CSIT has helped me to figure out who I am and what I can be. The only thing I didn't like was the existence of communication gap between the students studying CSIT in purwanchal. But CSITAN, a non-profitable organization, has been able to minimize the gap and bring students together. Now, we can share our ideas and skills in an open forum. I am also thankful towards CSITAN for providing various trainings and seminars, and I am very proud to be a member of CSITAN. Finally, I want to say that life isn't about getting and having, its all about giving and being and one day, we, the members of CSITAN, really want to say- WE MADE IT."



Aiska Basnet
4th semester BSc CSIT
Birat Kshitiz College

Sakar Pathak

6th Semester BSc CSIT , Godawari College, Ithari



"From my early days in school, I was fascinated by technologies surrounding me. Having great curiosity and enthusiasm in learning new things truly summed up my involvement with computers. After my +2, I joined B.Sc.CSIT which not only provided me with the necessary knowledge but also made me believe that we can also get world class computing syllabus. But the anxiety of not being involved in workshops/trainings conducted in valley shook me a bit. Then, I came across with CSITAN-Purwanchal . It is not only solving the lamentation of students studying B.Sc.CSIT outside valley but is also bridging the students across purwanchal. I feel both esteemed and righteous to be a part of this team."

For me, CSIT is a field where I can invent and implement the innovative ideas. Though I am from a college outside the valley, the resources we are getting is unbelievable. The programs conducted by CSITAN enhances the knowledge which we might not get from the books. I'm very delightful towards CSITAN for providing us the step ahead to the technologies. To all girls out there, all I want to say is "CSIT holds remarkable carrier opportunities".



Anjila Aryal, 2070 Batch
Lumbini ICT College, Nawalparasi

CSIT OUT OF VALLEY

मोफसलमा रहेर आईटी कलेज सञ्चालन गरिरहनुभएको छ, कतिको सजिलो वा अफठेरो के छ ?

आईटी कलेज संचालन गर्नु निश्चय नै चुनौतीपूर्ण र अफठेरो छ, त्यो पनि विराटनगर जस्तो ठाउँमा त निकै नै चुनौतीपूर्ण छ । हुनत विराटनगरमा पूर्वाञ्चल विश्वविद्यालयले धेरै वर्ष अघि देखि नै आईटीको कार्यक्रमहरू संचालनमा ल्याइरहेको छ, र म पनि पूर्वाञ्चल विश्वविद्यालयको आगिंक कलेज ९स्कूल अफ इन्जिनियरिङ एण्ड टेक्नोलोजिमा लामो समयसम्म कार्यरतमा थिए र त्यस्ता अफठेरा तथा चुनौतीहरूलाई निकै नजिकबाट हेर्ने र महशुस गर्ने मौका पाएको थिए । त्यही अफठेरा तथा चुनौतीहरूलाई आत्मसात गर्दै २०६९ सालमा म र मेरा केही आईटीसंग सम्बन्धित भएका टीमहरूसंग मिलेर त्रि वि बाट सम्बन्धन लिई B.Sc.CSIT कार्यक्रम विराट क्षितिज कलेजका नामबाट संचालन गरेका छौ । काठमाडौँ पछि आईटी शिक्षाका लागि दोस्रो हवको रूपमा विराटनगरलाई चिनिन्छ, त्यही पनि आईटी उद्योगहरू तथा रोजगार मुलुक आवश्यक ट्रेनिङ्ग ईन्सिच्युटहरू यस क्षेत्रमा पर्याप्त मात्रामा नहुनुमा यो एउटा गम्भिर चासोको विषय हो । विराट क्षितिज कलेजका सबै टीम मेम्बरहरू आईटी सेक्टरमा लामो समयसम्म अनुभव बढुलेका भएको हुनाले त्यस्ता अफठेरा तथा चुनौतीहरूलाई सजिलो बनाउँदै विराटनगरलाई काठमाडौँ पछिको आईटी शिक्षाका लागि दोस्रो हवको रूपमा चिनाउने हाम्रो निरन्तर प्रयास रहने छ ।

क्वान्टिटीमा फोकस भए तर क्वालिटी एजुकेशनमा कमजोर रहेको आरोप पनि लाग्छ, नि कलेजहरूलाई ?

निश्चय नै एउटा आईटी कलेज संचालन गरेपछि क्वालिटी एजुकेशन दिन नसकेको खण्डमा विद्यार्थीहरूको भविष्यलाई असर पुग्दछ । विराटनगरमा त्रि वि बाट B.Sc.CSIT कोर्षको लागि शुरुमा २४ वटा कोठा र थप गरी बढीमा अहिले १२ वटा कोठा थपि ३६ वटा कोठा पु-याएको छ । यसमा क्वालिटीको कुरो नै आएन र हो क्वालिटी एजुकेशन दिन सक्छ, कि सक्दैन दिई रहेको छ, कि छैन सम्बन्धित निकायबाट आवश्यक अनुगमन गर्नुपर्नेछ । अझ विराट क्षितिज कलेजले त शुरुमा २ जना विद्यार्थीहरूबाट शुरु गरेको कलेज र हाम्रो टीमहरूले त्यही क्वालिटी एजुकेशनमा विश्वास राख्ने भएको हुनाले आज २ जना बाट २१ जना विद्यार्थीहरू दोस्रो व्याचमा र

२४ जना विद्यार्थीहरू तेस्रो व्याचमा पु-याउन सफल भएको छौ ।

विराटनगरमा पूर्वाञ्चल विश्वविद्यालय अन्तर्गतको कम्प्युटर इन्जिनियरिङ, बिआइटी रहेको अवस्थामा सिएसआईटी कोर्सको आवश्यकता किन ठान्नुभयो ?

विराटनगरमा त्रि वि बाट सम्बन्धन प्राप्त आईटी कलेजहरू नभएको हुनाले र पूर्वाञ्चल विश्वविद्यालय बाहेक यदि विद्यार्थीहरू आईटी कोर्ष पढन जानु परे कि त काठमाडौँ नै जानु पर्ने कि त बाहिर अरु देश नै जानु पर्ने अवस्था थियो । B.Sc.CSIT कोर्ष computer science and information technology को समिश्रणबाट बनेको कोर्ष हो । यसमा theoretical को साथै computer सम्बन्धि practical knowledge ज्यादा भएको हुनाले विद्यार्थीहरूको क्रेज बढ्दो छ, र काठमाडौँको तुलनामा यहाका विद्यार्थीहरूलाई यही पढन सजिलो हुनाले यो कोर्ष पूर्वाञ्चल विश्वविद्यालय अन्तर्गतको कम्प्युटर इन्जिनियरिङ, बिआइटी कोर्सलाई संग प्रतिस्पर्धा गर्ने हुनाले यो कोर्षको आवश्यकता महशुस गरेको छौ ।

सिएसआईटी कोर्स कस्तो कोर्स हो ? यसमा यतिका कलेज र विद्यार्थी आकर्षण किन रहेको छ ?

हुनत त्रि वि को कोर्ष भन्ने बितिकै नेपालमा सबै विद्यार्थी तथा कलेजहरूको पहिलो रोजाई नै हुने गरेको छ । तसर्थ द्वाक्त्रा ऋक्श्त कोर्ष कम्प्युटर साईन्स तथा ईनफरमेशन टेक्नोलोजी को समिश्रणबाट बनेको ४ वर्षे कोर्ष हो । यो सेमेस्टर सिस्टममा पढाई हुन्छ । यो विषयमा प्राक्टिकल तथा अपडेटेड अगचच्अगणि संग ईन्टर्नसीप तथा प्रोजेक्ट वर्क्स समावेश गरी बनाएको कोर्ष हो जसले अहिलेको मार्केटको आवश्यकता न्यमभचलष्वाबतप्पल अफ ग्लोबल टेक्नोलोजीको मागलाई पुरा गर्नेछ । यो कोर्ष पढेर विभिन्न Government and non-government organization, telecommunication, software industries, scientific research and development organization आदि ईत्यादी मा रोजगार पाउन सकिन्छ । मूलभुत यिनै कारणहरूले गर्दा अहिले यो कोर्ष विद्यार्थीहरू तथा कलेजहरूको आकर्षण बन्न गईरहेको छ ।

Computer Science and Information Technology (CSIT) is an integration of the course on software development along with the engineering of the hardware. Bachelor of Science, CSIT covers minimum of 126 credit hours among which 75 credit hours of core computer science, 15 credit hours of electives, 12 credit hours of natural science, 6 credit hours of management, 6 credit hours of mathematics, 3 credit hours of technical writing and 9 credit hours of project and internship. This course has been designed so that student will learn the fundamental principles of science and the advanced techniques which are used in today's system development in different field.

Chitwan is the center point with reference to business to agriculture, education to hospital facilities



Dr. Bijay Lal Pradhan
HOD - CSIT Department
Birendra Multiple Campus, Chitwan

and also with reference to transportation. With every regard the use of computer and information technology is increasing day by day. And I assure that this subject has much greater scope in the days to come. Birendra Multiple campus, a constituent campus of "Tribhuvan University", started BSc CSIT course first time in Chitwan and has sufficient human resources and other infrastructural facilities. Despite of being a college outside the valley, we have been providing quality education to the students. We have also been providing student's extra educational needs like trainings and seminars. Definitely, Birendra Campus is a source of quality human resource of Computer and information technology.



CSIT JOB

Sandesh Shah

We normally study/ have studied for 19 years unless we jumped some classes. I believe studying is comparatively the easiest thing in one's timeline. The difficult ones actually come after one completes his study. It is said that you reap what you sow, but usually the untold fact is that there are various factors that decide if the fruit you are to get is to be perfect or if you are going to get any fruit at all?

Being a 3rd batch CSIT graduate, it would be wrong if I say I didn't have any fear of the aftermath of graduation. I did fear if I would see the scariest prospect (the prospect of unemployment) in my life. Au Contraire, I did achieve the thing what every graduate desperately seeks for- a decent job while still studying in the 7th semester. Then I realized that if you have skills, there are lots of opportunities waiting for you on the other side of the industry. Having said that, I don't feel that getting job is truly that difficult if you have chosen right path to get through your studies.

The CSIT course is crafted so very well that it covers both hardware as well as the application part. CSIT tends to be the most updated course in the field of technology.

Talking vaguely about opportunities, it's like choosing your favourite star from the sky. There are numerous fields you can go along with to make your career. Databases, Networking, Web Development, Mobile Application Development, QA and Graphic Design are some of the sectors you can choose to make your career. Gone are days when ledgers were kept in big registers and notebooks, communication sector have reached to its very peak. Everyone owns a communication medium, Internet to connect to the world. In this communicative digital world, whatever you choose, be it Mobile Application Development, Web Development or Graphic Design among many other, you can definitely achieve a successful career in the industry. Given that today's world is immensely technology oriented, it won't be that much of a hectic job to find your job if you are skilful.

From outsourced companies trying to make a mark in the Nepali horizon, local companies that innovate to make lives easier for people locally to the online commercial sites that have mushroomed with the advent of internet in Nepali community, people are making money and creating jobs everywhere. Since we live in a place that needs to be technically restructured, from the basics of record keeping and digitizing of the whole government to the implementation of a technology as a public utility, the scope that we have locally is unparalleled. We don't even have to think beyond our nation's boundaries, there are all sorts of job opportunities and economy flowing here.

When it comes to jobs, it is always better to create a job than look for one. If you have an idea that is market feasible, you can create jobs. There are lots of investors trying to invest in IT in today's digital world. We have records of more than 50 entrepreneurs from 5 passed out batches comprising of around 1.5k graduates. Looking at the scene today, there are very few skilful CSIT graduates who are unemployed.

When it comes to educational support and influence, every young individual who has the ambition and drive to accomplish something using technology could look up to CSIT course we have here. There are mind-boggling opportunities we can find and/or create for ourselves if we have sufficient skill set which can be augmented by this comprehensive course.

COMPARISON ON DIFFERENT COMPUTER SUBJECTS IN NEPAL

This article is totally based on my personal views which I gained after some research that I did before joining BSc.CSIT. I will be sharing my motivations towards joining BSc.CSIT of all other computer subjects in the article. Also, I will try to make unbiased comparison on different computer subjects in Nepal.

Brief about BSc.CSIT

Course Name : Bachelor of Science in Computer Science and Information Technology

Course Duration : 4 years (8 semesters)

Credit hours : minimum 126 hrs (*can be more depending upon the electives you choose)

Eligibility : 2 in science or equivalent with 50% aggregate (*both biology and physical)

: should pass entrance exam with at least 35% of marks

Best Part : Lots of practical and projects, not for only programmers but for IT managers, Systems Analysts, Network Administrator, Researchers, etc too.

Before reading this article, you should know that choosing any computer subjects for your Bachelor's Degree is completely on you and your requirements.

Comparison:

Syllabus

Syllabus of computer engineering is more hardware oriented and major concentration is given on electronics whereas CSIT is more software oriented, however, some subjects related to hardware and computer networks are available. And syllabus of foreign degree(IT) is very much software specific and is more updated than Computer Engineering and BSc.CSIT.

Colleges and Fees

There are two public colleges and 10+ private colleges where Computer Engineering is taught whereas there are more than 60 public and private



Roshan Gautam
B.Sc.CSIT 2071 Batch

subjects in BSc.CSIT. And 5+ colleges with Foreign Degree (IT). Fees are high in Computer Engineering and Foreign degree than in CSIT but full/partial scholarships are awarded in computer engineering.

Market/Job/Reliability

BSc.CSIT and Foreign IT have more job oriented courses than Computer Engineering. However, in government sectors, the one with computer engineering degree is on top priority than the one in other computer subjects. BSc.CSIT and Computer Engineering being affiliated to T.U are considered more reliable than Foreign IT degree.

Internships

Internship is compulsory for BSc.CSIT but not for others.

Practicals and Projects

Practicals and Projects are more prioritized on Foreign IT degree and then Computer Engineering and then BSc.CSIT.

Final thoughts and suggestions

All of the above courses are good and well designed. What course you choose \for your Bachelor's Degree is totally on you. If you are interested in computer hardware, robotics and all, go for computer engineering and if you are more software/programming concerned then go for BSc. CSIT. However, the thing that matters in this field is your skill and how good problem solver you are. Just follow your interests, do it with the passion.

Introduction

CSIT Association of Nepal - Chitwan (CSITAN-Chitwan) also known as Region 0001 is the first regional branch of social organization CSIT Association of Nepal introduced in 2014 to uplift the level of CSIT course as well as the CSIT students studying outside Kathmandu valley. The very first executive committee was formed under the Presidentship of Mr. Deepak Gautam followed by second and the current president Mr. Ayush Dhital covering more than 350 students from all three colleges (Birendra Multiple Campus, Indreni College & Lumbini ICT College) situated at Chitwan and Nawalparasi. The organization, since the time of establishment, have been working in uplifting the college standards and motivating CSIT students to excellence. It has been conducting several IT Seminars, Workshops, Technoshare to match organizational motto: "Calibrating Technical Potentials". Also, every year CSITAN-Chitwan has been organizing non-technical events like Football and Cricket Tournaments to increase harmony between the students of different colleges.

Vision:

CSIT Association of Nepal - Chitwan has been established in order to act as a bridge between the faculty, students and IT industries outside the valley. We work as a bridging platform for CSIT students and help to increase the communication between students and colleges outside valley to within valley.

Mission:

Working for the betterment of CSIT students, persuading their career, keeping students up to date on matters related to Information Technology and increasing the students in CSIT course outside valley are our mission.

Goals:

We aim to persuade the career of young energetic students in BSc CSIT course. CSITAN-Chitwan will be working for the betterment of CSIT students by organizing IT seminars, workshops and Techno share. We aim to empower women in CSIT course.

As a President, I am proud to introduce you to the first regional branch of social organization CSIT Association of Nepal introduced as "CSITAN-Chitwan". We are committed to uplifting the level of CSIT course as well as the CSIT students at Chitwan and Nawalparasi. We work as a bridging platform between the faculty, students and IT industries. Since establishment, we have been working to minimize the university-industry gap by conducting IT Seminars and trainings.

If you want a career that gives you the opportunity to be at the forefront of technology with employment opportunities, BSc CSIT at Chitwan is the best place to start. Thus, I take this opportunity to invite you to join BSc CSIT, an integrated course with latest curriculum and professional preparedness.



Ayush Dhital

Regional President

CSITAN-Chitwan (Region 0001)

Vice-President: Amrit Pokhrel

Secretary: Arjun Gurung

Vice-Secretary: Krishna Bhattarai

Program Coordinator: Aakash Dhungana

Treasurer: Deepak Gautam

Executive Members:

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Applicants should have at least 45% marks in +2 Science or an equivalent qualification. Students from Biology group can also apply.



CSITAN PURWANCHAL(Region 0010)

INTRODUCTION: CSITAN-Purwanchal (Region 0010) has been established in 2016 as a non-profit organization serving for the academic prosperity and career enhancement of all CSIT students studying in 8 different colleges in Purwanchal region. Established under the supervision of board of directors of CSITAN head department, it consists of 15 executive members. The sole objective of the association is to conduct training, seminars, workshops and other career development programs for the students who are currently studying CSIT in the region.

MISSION: CSITAN-Purwanchal is a non-profit, non-government, non-political and non-religious social organization. It is also serving in social welfare purpose. CSITAN is established by the students and for the students that's why it well knows and understands the problems faced by the students and the contemporary needs of students which remains unserved by the institutions they are associated with. All the programs and activities are conducted under the direct supervision of head office with collaboration with young and enthusiastic students in the locality. "We bring the students closer to build a big family" says CSITAN. It bridges the gap between and among the Students, Teachers, Industries, Software Companies.

WORKS: CSITAN-Purwanchal recently organized an Ethical Hacking and Penetration Testing seminar which was a huge success. Around 200 enthusiastic students attended the seminar from all over Purwanchal. The response was all positive and the students wish to attend such workshops again and again in the future.

GOALS: Our aim includes the smooth co-ordination and communication of students inside Purwanchal region and also all around the country. CSITAN Purwanchal aims to give full support to CSIT students in Purwanchal region for the improvement in their Technical skills, Programming or in their respective fields by conducting various programs, competitions, seminars, trainings. We also encourage and empower girls in IT.

Executives Members of CSITAN Purwanchal during establishment

Co-Ordinator	Roshan Khanal	ShreeYantra College, Damak
Sub Co-Ordinator	Sakar Pathak	Godawari College, Ithari
	Bindu Karki	Nihareeka College, Biratnagar
Discipline Incharge (D.I)	Suraj Thapa	ShreeYantra College ,Damak
Members		
Aashis Karki	Birendra Memorial Campus, Dharan	
Pushkar Bhandari	Birendra Memorial Campus, Dharan	
Anisha Sapkota	Godawari College, Ithari	
Prabesh Dulal	Nihareeka College, Biratnagar	
Shital Babu Luitel	Birat Kshitiz College, Biratnagar	
Aiska Basnet	Birat Kshitiz College, Biratnagar	

JOURNEY OF CSITAN

Experience of Former President of CSITAN Sunil Manandhar

"It does not matter where you are now, it is nowhere compared to where you can go"

It seems like yesterday but as far as I remember, it was almost five years back when I visited Amrit Science College (ASCOL) for the second time. The college environment over there was completely different from the one I used to attend. I was in absolute obscurity and had no idea what was going on until the information about gathering the CSIT students reached my ears. There were students from different colleges and each of them were presenting their views and opinions to the others. Amidst the crowd of students, I saw a tall and bold man (later I came to know that he was none other than Prakash Neupane dai) confidently taking about how important he thinks it is to have a group of students working together to uplift the standard of CSIT course. There were different people talking about their own versions on different issues, which made the hall very noisy and I not being able to understand and get involved in the discussions, decided to return home.

By the time I reached home, I was informed that CSIT Association of Nepal has been formed under the leadership of Prakash Neupane dai. So, basically that was how it all started. Later that night, I pondered over the events that happened at ASCOL in the afternoon and I thought that those people whom I judged to be noisy few hours back were actually visionaries who thought that they could somehow form CSITAN to collaborate CSIT students. They knew it from that time that someday many colleges would include B.Sc. CSIT program and this association could grow even bigger. Just imagine yourself in the shoes of around 6th or 7th semester students of the first batch of a new course. I'm sure you would have been equally unsure about the scope of the course in the future but would you dare to take an initiation to create a place for it in the competitive IT market? Would you care to separate time for a volunteer work in your busy schedule?



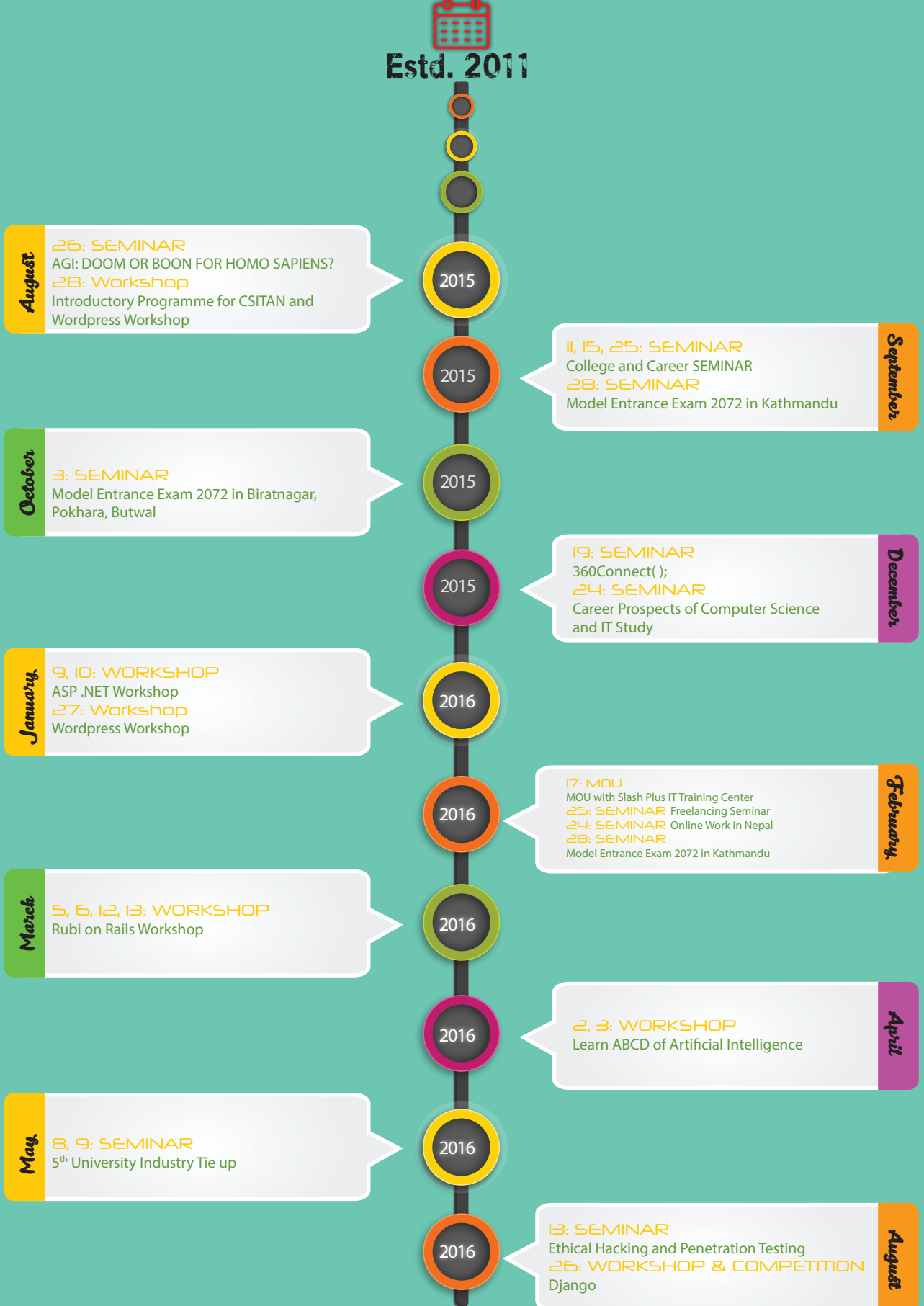
There were not many colleges then that offered B.Sc CSIT course so almost all the students enrolled in CSIT program were invited. Bijay Shrestha dai and Lasang Tamang dai had represented my college in the first tenure. I was not a member of CSITAN till then, however Lasang dai somehow saw something in me and engaged me in the events organized by CSITAN. I guess that's how my involvement in CSITAN continued.

I really think that the first team did great, they had nothing to lose yet they left a lot for their juniors to learn and continue the legacy that still exists today as CSITAN. I still wonder how they managed to get a hall for the events. Meetings were mostly held at Bhrikutimandap (mostly self-paid as far as I know). Before the concept of Tie- Up were brought forward, workshops and technoshares were frequently organized.

Second tenure continued the efforts of CSITAN and I represented as one of the executives where I got to learn about how much time CSITAN expects out of each member. I earned a lot of experiences while working at CSITAN and before I realized that time had elapsed, I was the third President of CSITAN. I am not sure how my tenure went and if I could live up to the expectations of the seniors. It was definitely tough for me to manage time for college, internship as well as CSITAN at the same time but I had an extremely helpful friend, Abhash Adhikari, who managed the planning and execution of events in my absence and of course a team full of "khatraa" members who were smarter, innovative and always ready to help me with my objectives, without whom I am sure my tenure would not have been successful.

Abhash served as a President of CSITAN succeeding my tenure and I am glad to see him take CSITAN to a greater height. And now we have a new team with enthusiastic spirit who are doing great and I wish them all the best for the success of their tenure.

Estd. 2011



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We are all in this run-through together. Everybody scholar, instructors, families, group pioneers, managers have a commitment to make to build efficacious educational paths than go over early youth to adulthood. College and Career enthusiasm is described as the training essential to thrive in general education courses and programs. Previously, many universities have given priority in getting students accepted into college, with a motivation on meeting criteria for admissions. College and career spreads further than eligibility, emphasizing what students need to know in order to graduate while also providing students with the skills and strategies they need to prepare for success.

On the other hand there are many organizations that are providing necessary training and preparations for students in the colleges. Likewise, one of the IT organization of Nepal “Slash Plus” has been providing guidance and training to the seminaries. Since inception, Slash Plus has been following the visions of their students and implementing their experience and expertise to convert them into reality. The company is more than just an institute, or consultants who are dedicated professionals as passionate about technology and business. Slash Plus had organized workshop in many colleges and has provided global certification after IT training which helps to Foster a campus environment in which students thrive intellectually, spiritually, socially, and physically. It also assist in creating a common experience that further develops student capacity to connect their University knowledge. Likewise, Slash Plus has also been offering internship and job opportunity to the students.

Professional Training For Your IT Career





“ leadership is the capacity to translate vision into reality.
DARE TO LEAD ”

nurturing your computer instincts in an engineering environment

Sagarmatha College of Science and Technology

In affiliation to Tribhuvan University, Sagarmatha College of Science and Technology was established in year 2010 by a group of professionals dedicated to excellence in technological education. Collaborating with experts and specialists, it is working as a hub of innovation and creativity. It is an intersection of disciplines, a launching pad for a brilliant career.

The college is a community of intellectuals, faculty members, staff and students that encourages and supports pupils in their quest for a deeper understanding of technology, and fosters a personal commitment to lifelong learning, intellectual growth and the enduring values of engineering education.

*Sagarmatha is a place where brilliant minds assemble and collaborate,
where they pool together their individual talents
across disciplines in service of big projects and big ideas.*

Programs

B.Sc. CSIT
BCA (Proposed)

“Under the management of Sagarmatha Engineering College.”



Sanepa, Lalitpur, Nepal, G.P.O. Box: 19910
Phone Number : 01-5527274, 01-5547463
Fax : 01-5548252
Email : info@sagarmatha.edu.np

Our Features

Experienced Faculty

Sagarmatha has the most experienced team of faculty members with almost all having more than 10 years of experience in the field of technical education. The faculty members focus on to understand the problems of the students and help them channelize their thoughts to achieve their dreams.

Commitment to Excellence

With state-of-the-art laboratories and learning materials, faculty and students engage in most innovative and practical approach of teaching and learning, pursuing some of the most important education initiatives.

Placement Unit

Sagarmatha has a dedicated Training and Placement Unit to make sure that its graduates have professional skills needed to compete in the professional market. Facilitating students to get internship opportunities and placements in reputed organizations, it helps students in their career planning and provides information about the current trends in job market.

Project-driven approach

We make sure that every student study with an intention of solving a problem at hand. The students convert their knowledge into something useful - a solution to the problems. It could be something simple to something truly revolutionary. But again, this must not be a criteria to compare two students. Instead it must be a criteria for the student to do something that solves a real-life problem.

Learning Environment

Our teaching and learning methodology focuses in an approach where the students get to learn knowledge and skills applicable in real life and be able to evaluate what is for and what is against humanity and professional ethics. We create an environment where the students can learn and contribute towards betterment of the nation and world as a whole.

Beyond Academics

We believe we can help improve our lives and make the world a better place. And there are so many things other than academics. Innovation and creativity are the key ingredients, along with sports and recreation making a perfect formula for an extraordinary life.

www.achsnepal.edu.np



B. Sc. CSIT

Affiliated to Tribhuvan University

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