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सु.प. विश्वविद्यालय

सूचना प्रविधि कार्यक्रम

नेपाल बैंक लिमिटेड, महेन्द्रनगर शाखा

खाता नं. १५६००१०६५२६३४८०००००५

Important Dates:

For distribution:	2080 Bhadra 01
Form submission:	Till 17 of Asoj 2080
Entrance exam:	2080 Asoj 18, at 10 am
Exam centre:	FWU Central Campus (CSIT Department)
Result published:	2080 Asoj 20
Admission:	From Asoj 21, 2080
Orientation:	From Mangsir 06, 2080
Class starts:	From Mangsir 07, 2080
End term examination:	2080/12/last week

Model questions:

Syllabus for entrance examination:

- I.Sc.level or +2 science for physics, maths and English.
- For computer science
- Number system, Boolean Algebra and Logic Gates, Fundamental of computers, Basic of internet and email.

FARWESTERN UNIVERSITY

FACULTY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF CSIT

Central Campus, Mahendranagar Kanchanpur



B.Sc. CSIT Programme

INFORMATION BOOKLET

Academic Year 2080



Vision : Learner Centered Education,Society and Industry Oriented Services and Knowledge Oriented Research Of Excellence.

- Mission :**
- To foster strong industry relationship through solution and linked and research.
 - To provide efficient and effective and society acceptable system that excels in education and service.
 - To develop quality professionals who are able to compete in the recent trends of information technology.

Department of CSIT

Farwestern University was established in 2010 by the act of the parliament of government of Nepal. The Central Campus of university is located at Bhimdatt -18,Kanchanpur District,Nepal.The B.S.c. Csit Programme was started in 2069 B.S. as first batch of such kind with only 6 students.The Department Has been growing in the terms of space, hardware, software and manpower. Science and Technology faculty has been struggling for its existence since the establishment of farwestern University. However dedicated teachers,Staff and students collectively working for the stability and prosperity of faculty.The CSIT programme was established as separate CSIT department in end of 2074 B.S.

Message from the Dean

Thank you for your interest in undergraduate education in Computer Science and Information Technology (CSIT) at Faculty of science and Technology(FoST), Far-western University. As dean of the faculty of Science and Technology in Far-western University, I am extremely proud that our faculty has upheld since its founding. Our undergraduate programs in Computer Science and Information Technology prepare our students to become leaders with the moral depth and intellectual intensity necessary to meet the challenges of a time of critical transition in society. The FoST is committed to scholarly excellence and student success. This faculty is an exciting place to provides an environment that encourages the development of students` talents. Our academic programs prepare our students to become leaders with moral depth and intellectual intensity necessary to meet the challenges in the society. The FoST is the pioneer Faculty of Far-western University. It aims to develop manpower in the society and global in different areas of digital communication. I am also proud that we have experienced faculties which leads the students to their proper goals. The successful leadership and experience-based knowledge that our faculties bring into the classroom that helps to bring change university, society, country and global. As a Dean, I am committed to improve the significant opportunities for students to brighten their careers inside and outside the university. Department of the Computer Science FoST offers bachelor degree in Computer Science and Informational Technology(CSIT). The master's program in CSIT will be started from next academic year for which all preparations have already been done. Finally, I would like to invite and welcome all the students who are interested in expanding their knowledge and enriching their careers and bright future in our CSIT department. I believe the student will enjoy and utilize their best time to gain knowledge in Far-western University, Department of Computer Science and Informational Technology.I extend my best wishes for your bright academic career and bright future.

Prof. Dr. Bhawani Chand Thakuri
Dean
Faculty of Science and Technology

FEE STRUCTURE :

S.NO.	Particular	Current Fee Structure	
		1st sem.	2nd to 8th sem.
1.	Admission	1000	-
2.	Semester Registrar fee	-	200
3.	Tuition fee	13000	13000
4.	ID CARD	100	100
5.	Games & Sports	100	100
6.	Laboratory Fee	1500	1500
7.	Library Fee	500	400
8.	Laboratory+ Library Deposit	1000	-
9.	Seminar fee	1100	500
10.	First Aid	50	50
11..	Student Welfare	100	100
12.	Development Fund	1000	500
13.	Student Union	50	50
14.	Field Visit/ Industrial Tour	700	700
	Total Fees	20,200/-	17,200/-
Total Fee of B.Sc. CSIT Programme		1,40,600/-	

Fee structure may be changed periodically and fee for the following particulars are excluded in above table.

- Exam fees.
- Projects and internship fees.
- Industrial tour and extra professional courses.
- Student union and CSIT association fees.

Plan for next year.....

- The department is planning to starts the Master in science in Computer science and information technology (M.Sc.CSIT)in near future. The department is making the necessary preparations for the graduate degree intended to provide excellent opportunity in academy research and industry for students.
- To make alliance with IT company and service providers.
- To run professional course for junior and senior semester students.
- To conduct seminar and workshop.

Message from the HOD

Numerous colleges across the world are offering educational degree programs with the goal of addressing the current developments in computer science and information technology as well as the demand for trained workforce. Since its founding in 2069, Farwestern University has offered a B. Sc. CSIT curriculum that has adapted to the needs of the nation and the global market. The B. Sc. CSIT program at this university has thus far produced seven batches of graduates. Former students of ours, currently hold positions in many different professions both domestically and internationally. The institution plans to start offering post-graduate level courses as of this academic session after seeing the need for professionals with educational degrees in computer science and information technology both domestically and overseas. Finally, I'm delighted to be a part of this organization that offers top-notch instruction and turns out highly qualified professionals. The department's lecturers and personnel are very knowledgeable and accommodating. I extend a hearty welcome to all students interested in pursuing careers in computer science and information technology throughout this campaign.

Karn Dev Bhatt
HOD
Department of CSIT

B.Sc. CSIT Programme

The Bachelors of science in computer science and information technology (B.Sc.CSIT) is a 4 year semester course of farwestern university designed to provide the students with all sorts of knowledge in the field of computer science and information technology. The programme involves, lectures, tutorials along with the great deal of practical and project works. The design and implementation of B.Sc.CSIT course offers new challenges when compared to the traditional computing environment. The recent emergence of global business, new technologies for data processing and data communication/networking environment, equip specialized computer science graduated to focus on professional careers in information technology.

Objectives :

- To contribute professionally competent personnel to meet regional, national and global needs of IT sectors.
- To offer intensive knowledge in the theory, design, programming and application to computers.
- To develop creative and analytical skills for technological problems solving.
- Providing a class of computer professionals.
- Nurturing the students of today into resolute builders of the future.
- To strengthen the computer & IT literacy missions of government.
- Endeavor to produce IT & computer-based solutions to the society.

ENTRANCE EXAMINATION :

- Faculty science and technology of FWU, Department of CSIT Conducts the entrance examination.
- The entrance examination will be of 100 marks including the subjects of I.Sc/+2 level or equivalent incorporating English, mathematics, physics, computer science and pass marks is 35.
- All the questions of entrance examination will be objectives type (MCQs).
- The examination time will be 2 hours.
- Students of grade 12 supplementary exam or grade improving students can also fill up the FWU admission form for B.Sc.CSIT but such students should present the academic TC of passing 10+2/ intermediate level before publication of entrance result otherwise the entrance result of such students will not be published.
- **Number of Seats : 48 (Open Competitions)**



Course Structure

The B.Sc. CSIT curriculum is designed by following the course practiced in accredited international universities. Students of this programme have to study the course of 136 Credit hours dividing the following areas.

S.N.	Courses	Credit Hours
1.	Computer Science Core Courses	84
2.	Natural Science Compulsory Courses	8
3.	Mathematics Courses	12
4.	English Courses	3
5.	Management Courses	3
6.	Computer Science Elective Courses	15
7.	Internship and Project	8
8.	Research Methodology for CS	3
Total		136

The B.Sc. CSIT programme comprises of the following courses :

Curriculum Schema

Semester I

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 111	English Grammer & Composition	3	100
CSIT. 112	Information Technology Fundamentals	3	100
CSIT. 113	Calculus and Analytical Geometry	3	100
CSIT. 114	Electronic Principles	3+1	100
CSIT. 115	Programming Fundamentals & C Programming	3	100

Semester II

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 121	Data Structure & Algorithms	3	100
CSIT. 122	Digital Logic Design	3	100
CSIT. 123	Linear Algebra	3	100
CSIT. 124	Mechanics & Electrodynamics	3+1	100
CSIT. 125	Microprocessor System	3	100

Semester III

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 211	Computer Organization & architecture	3	100
CSIT. 212	Discrete Structures	3	100
CSIT. 213	Introduction to Management	3	100
CSIT. 214	Object oriented programming with C++	3	100
CSIT. 215	operating system	3	100
CSIT. 216	Statistics and probability	3	100

Semester IV

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 221	Applied Statistics	3	100
CSIT. 222	Data Communication & Network	3	100
CSIT. 223	Database Management System	3	100
CSIT. 224	Numerical Methods	3	100
CSIT. 225	System Analysis & Design	3	100
CSIT. 226	Theory of Computation	3	100

FACULTY MEMBERS :

The faculty members for the B.Sc. CSIT programme will be known & respected in their fields. Their experience and commitment are valuable in the provision of guidance and training as well as monitoring of the programmes.

S. No.	Faculty's Name	Designation	Qualification/ Subjects
1.	Karn Dev Bhatta	HOD	M.Sc. (CS)
2.	Ramesh Prasad Bhatta	Assistant Professor	M.Sc. (CS)
3.	Dipendra Kumar Air	Assistant Professor	B.E., M.Sc. (IT)
4.	Shiv Shankar Pant	Teaching Professor	M.Sc. (CSIT)
5.	Prakash Bahadur Saud	Teaching Professor	M.Sc. (CSIT)

Faculty from other Department

1.	Ran Bdr. Bista	Assistant Professor	M.Sc. (Phycis)
2.	Sailendra Chand	Assistant Professor	M.Sc. (Phycis)
3.	Ganesh P. Chataut	Assistant Professor	M.Sc. (CSIT)
4.	Baburam Rawat	Assistant Professor	M.Com. (Mgt.)
5.	Dhan Raj Bista	Assistant Professor	M.A. (English)
6.	Gajendra Bdr. Chand	Teaching Assistant	M.Sc. (Statistics)
7.	Chakra Bdr. Bista	Teaching Assistant	M.A. (Mathematics)

Administrative/Account/Lab Staffs

S.No.	Name	Designation/Section
1.	Prem Bdr. Singh	Account Officer
2.	Rajiv Joshi	Head Assistant/ Lab/ Library
3.	Nirmala Bhatt	Head Assistant/ Admin.
4.	Gautam Raj Mishra	Assistant/ Account
5.	Binaya Kumar Badu	Office Assistant

Eligibility for admission:

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

- Successfully completed a 12 years of education in science stream or equivalent from any university, board or institutions recognized by FU,with at least 2nd division or higher.
Students who have passed+2 science with biological group are also eligible
- Successfully passed the entrance exam conducted by department securing at least 35 % marks.
- Candidate must secure at least C grade in each subject in grade system

Semester V

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 311	Design & Analysis of Algorithm	3	100
CSIT. 312	Artificial Intelligence	3	100
CSIT. 313	Compiler Design	3	100
CSIT. 314	System Simulation & Modeling	3	100
CSIT. 315	Graphics & Visual Computing	3	100
CSIT. 316	Web Technology I	3	100

Semester VI

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 321	Introduction to Cryptography	3	100
CSIT. 322	Java Programming I	3	100
CSIT. 323	Research Methodology for Computer Science	3	100
CSIT. 324	Software Engineering	3	100
CSIT. 325	Web Technology II	3	100
CSIT. 326	Minor Project I	2	100

Semester VII

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 411	E- commerce	3	100
CSIT. 412	Advance Java Programming	3	100
CSIT. 413	Object Oriented Analysis & Design	3	100
CSIT. 414	Minor Project II	3	100
Elective I (any one)		3	100
CSIT.415.1	Net Centric Computing		
CSIT.415.2	Database Administration		
CSIT.415.3	System Administration		
CSIT.415.4	Digital Image Processing		
Elective II (any one)		3	100
CSIT.416.1	Data Warehouse & Data Mining		
CSIT.416.2	Geographical Information System		
CSIT.416.3	Management Information System		
CSIT.416.4	Neural Networks		

Semester VIII

Course Code	Course Title	Credit Hours	Full Marks
CSIT. 421	Parallel Computing	3	100
CSIT. 422	Internship	4	100
Elective III (any one)		3	100
CSIT.423.1	Enterprise Application Development with Java		
CSIT.423.2	Advanced Database Design		
CSIT.423.3	Network Security		
CSIT.424.4	Real Time Systems		
Elective IV (any one)		3	100
CSIT.424.1	Mobile Applications Development		
CSIT.424.2	Distributed Database Management System		
CSIT.424.3	Wireless Networks		
CSIT.424.4	Cloud Computing		

Elective V (any one)

CSIT.425.1	Information Retrieval	3	100
CSIT.425.2	E-Governance		
CSIT.425.3	Embedded System Programming		
CSIT.425.4	Human Computer Interaction		
CSIT.426.5	Neural Networks		



