RAJARSHI JANAK UNIVERSITY
CURRICULUM STRUCTURE
Bachelor of Computer Science and Information Technology (BSc CSIT)

Semester I					
Course Code	**Course Title**	**Credit Hours**	**Internal Marks**	**External Marks**	**Total Marks**
CSMT 101	Mathematics-I	3	40	60	100
CSPH 102	Physics	3	40	60	100
CSEN 103	Technical Communication English	3	40	60	100
CSIT 104	Computer Concept and Programming	3	40	60	100
CSIT 105	Digital Logic	3	40	60	100
Semester II					
CSMT201	Mathematics-II	3	40	60	100
CSIT 202	Object Oriented Programming in C++	3	40	60	100
CSIT 203	Discrete Structure	3	40	60	100
CSST 204	Statistics-I	3	40	60	100
CSIT 205	Microprocessor and Microcontroller	3	40	60	100
Semester III					
CSIT 301	Computer Organization and Architecture	3	40	60	100
CSIT 302	Data Structures and Algorithms	3	40	60	100
CSIT 303	Numerical Methods	3	40	60	100
CSST 304	Statistics-II	3	40	60	100
CSIT 305	Database Management Systems	3	40	60	100
Semester IV					
CSIT 401	Computer Graphics	3	40	60	100
CSIT 402	Operating Systems	3	40	60	100
CSIT 403	System analysis and Design	3	40	60	100
CSIT 404	Java Programming	3	40	60	100
CSIT 405	Web Technology	3	40	60	100
Semester V					
CSIT 501	Programming in Python	3	40	60	100
CSIT 502	Theory of computation	3	40	60	100
CSIT 503	Computer Network	3	40	60	100
CSIT 504	Analysis and Design of	3	40	60	100

	Algorithm				
	Elective-I	3	40	60	100
CSIT 510	Project-I	3	80	20	100
List of Electives					
CSIT 505	Image Processing				
CSIT 506	Data Analytics and Visualization				
CSIT 507	Multimedia System				
CSIT 508	Operations Research				
CSIT 509	E-Commerce				
Semester VI					
CSIT 601	Software Engineering	3	40	60	100
CSIT 602	Cryptography and Network Security	3	40	60	100
CSIT 603	Artificial Intelligence	3	40	60	100
CSIT 604	Simulation and Modelling	3	40	60	100
CSIT 605	Research Methodology	3	40	60	100
	Elective-II	3	40	60	100
List of Electives					
CSIT 606	Mobile Application Development				
CSIT 607	Wireless Communication and Networking				
CSIT 608	Unix Shell Programming				
CSIT 609	E-Governance				
CSIT 610	. Net Technology				
Semester VII					
CSIT 701	Compiler Design and Construction	3	40	60	100
CSIT 702	Distributed and Cloud Computing	3	40	60	100
CSIT 703	Data warehousing and Data Mining	3	40	60	100
CSIT 704	Machine Learning	3	40	60	100
	Elective-III	3	40	60	100
CSIT 711	Project-II	6	160	40	200
CNCE 712	Constitution of Nepal and Eastern Philosophy*	Non-Credit		100	100
***Non-Credit But Compulsory**					
List of Electives					
CSIT 706	Software Project Management				
CSIT 707	Software Architecture and Design Pattern				
CSIT 708	Management Information System				
CSIT 709	Neural Network				

CSIT 710	Embedded System				
Semester VIII					
CSIT 801	Professional and Social Ethics in IT	3	40	60	100
CSIT 802	Management and Entrepreneurship in IT Industry	3	40	60	100
	Elective-IV	3	40	60	100
CSIT 808	Internship	6	120	80	200
CSIT 809	Research Seminar	2	50		50
List Of Electives					
CSIT 803	Internet of Things (IoT)				
CSIT 804	Natural Language Processing				
CSIT 805	Software Quality Assurance				
CSIT 806	Geographical Information System				
CSIT 807	Introduction to Quantum Computing				

NOTE: For Elective Subjects, from the enrolled students, minimum 50% students should be interested and subject can be applied to the facility available in the campus.

Note:

- 3 credit hours courses with theory and labs is equivalent to 3 lecture hours and 3 lab hours = 6 working hours per week.
- 3 credit hours theory-only course is equivalent 3 lecture hours and 2 tutorial hours = 5 working hours per week.