

Scheme-2014

For

2014 batch onwards

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

Third Semester

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
IT-14301	IT Methodologies	3	1	-	40	60	100	4
IT-14302	Social and Professional aspects of IT	3	1	-	40	60	100	4
IT-14303	Data Structures and Programming Methodology	3	1	-	40	60	100	4
CS-14303	Digital Circuits and Logic Design	3	1	-	40	60	100	4
CS-14305	Object Oriented Programming using C++	3	1	-	40	60	100	4
IT-14304	IT Methodologies Lab	-	-	3	30	20	50	2
IT-14305	Data Structures and Programming Methodology Lab	-	-	4	30	20	50	2
CS-14306	Digital Circuits and Logic Design Lab	-	-	2	30	20	50	1
CS-14308	Object Oriented Programming using C++ Lab	-	-	4	30	20	50	2
TR-14301	Workshop Training*		-	-	60	40	100	2
Total		15	5	13	380	420	800	29
		Contact Hours=						
		33						

* Workshop Training will be imparted at the end of 2nd semester in the institute for four weeks in the college Central Workshop

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

Fourth Semester

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
IT-14401	Database Management Systems	3	1	-	40	60	100	4
CS-14402	Operating Systems	3	1	-	40	60	100	4
IT-14403	Data Communication & Computer Networks	3	1	-	40	60	100	4
IT-14404	Web Technologies	3	1	-	40	60	100	4
IT-14405	Computer Architecture & Microprocessors	3	1	-	40	60	100	4
IT-14406	Database Management Systems Laboratory	-	-	4	30	20	50	2
CS-14406	Operating Systems Lab	-	-	2	30	20	50	1
IT-14407	Data Communication & Computer Networks Laboratory	-	-	2	30	20	50	1
IT-14408	Web Technologies Laboratory	-	-	3	30	20	50	2
IT-14409	Computer Architecture & Microprocessors Laboratory	-	-	2	30	20	50	1
GF-14401	General Fitness	-	-	-	100	-	100	1
Total		15	5	13	450	400	850	28
		Contact Hours= 33						

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

Fifth Semester

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
IT-14501	Discrete Mathematics	3	1	-	40	60	100	4
IT-14502	Programming in Java	3	1	-	40	60	100	4
IT-14503	Theory of Computation	3	1	-	40	60	100	4
IT-14504	Human Computer Interaction	3	1	-	40	60	100	4
DEIT-14xxx	Elective-I	3	1	-	40	60	100	4
IT-14505	Programming in Java Laboratory	-	-	4	30	20	50	2
IT-14506	Human Computer Interaction Laboratory	-	-	3	30	20	50	2
DEIT-14xxx	Elective-I Laboratory	-	-	2	30	20	50	1
TR-14501	Industrial Training-I*				60	40	100	2
Total		15	5	09	350	400	750	27
		Contact Hours= 29						

* 06 weeks Industrial Training-I will be after the end of 4th semester.

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

Sixth Semester

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
IT-14601	Information Assurance and Security	3	1	-	40	60	100	4
IT-14602	Software Engineering and Testing	3	1	-	40	60	100	4
DEIT-14xxx	Elective-II	3	1	-	40	60	100	4
OEIT-14xxx	Open Elective	3	0	-	40	60	100	3
IT-14603	Probability and Statistics	3	1	-	40	60	100	4
IT-14604	Software Engineering and Testing Laboratory	-	-	4	30	20	50	2
DEIT-14xxx	Elective-II Laboratory	-	-	2	30	20	50	1
IT-14605	Information Assurance and Security Laboratory	-	-	4	30	20	50	2
PRIT-14601	Minor Project	-	-	1	60	40	50	1
GF-14601	General Fitness		-	-	100	-	100	1
Total		15	4	11	450	400	850	26
		Contact Hours= 30						

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

Seventh Semester /Eighth Semester

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
IT-14701	Business Enterprise Application	3	1	-	40	60	100	4
IT-14702	ICT in Agriculture and Rural Development	3	1	-	40	60	100	4
DEIT-14xxx	Elective-III	3	1	-	40	60	100	4
IT-14703	Engineering Entrepreneurship	3	1	-	40	60	100	4
DEIT-14xxx	Elective-IV	3	1	-	40	60	100	4
PRIT-14701	Major Project	-	-	3	120	80	200	3
IT-14704	Business Enterprise Application Laboratory	-	-	3	30	20	50	2
DEIT-14xxx	Elective-III Laboratory	-	-	2	30	20	50	1
GF-14701	General Fitness		-	-	100	-	100	1
Total		15	05	08	480	420	900	27
		Contact Hours=28						

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

Seventh/Eighth Semester

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
TRIT-14701	Industrial Training-II *	-	-	-	450	350	800	13
TRIT-14702	Industry Oriented Training	-	-	-	200		200	2
Total					450	550	1000	15

*In 4th year students will proceed for industrial training-II either in 7th or 8th semester as notified by the concerned department from time to time.

This training is bifurcated in to two components. First component TRIT-14701 (Industrial Training-II) is of 800 marks and second component TRIT-14702 (Industry Oriented Training) will be of 200 marks. This training will be in college and it will be in the form of FDP, Workshop, STP etc. and it is of 2 weeks. Students will be evaluated after completing this training out of 200 marks. At the end of training, the total marks obtained from both components will be used for final computation.

Elective-I

DEIT-14508 Advanced Computer Networks

DEIT-14509 Advanced Computer Networks Laboratory

DEIT-14510 Business Intelligence and its Applications

DEIT-14511 Business Intelligence and its Applications Laboratory

DEIT-14512 Digital Image Processing

DEIT-14513 Digital Image Processing Laboratory

DEIT-14514 .NET Technologies

DEIT-14515 .NET Technologies Laboratory

DEIT-14516 Advanced Web Technologies

DEIT-14517 Advanced Web Technologies Laboratory

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

DEIT-14518 Industry/Need based subject

DEIT-14519 Industry/Need based subject Laboratory

Elective-II

DEIT-14607 Advanced Java

DEIT-14608 Advanced Java Laboratory

DEIT-14609 Big Data Analytics

DEIT-14610 Big Data Analytics Laboratory

DEIT-14611 E-Commerce

DEIT-14612 E-Commerce Laboratory

DEIT-14613 Embedded Systems in C

DEIT-14614 Embedded Systems in C Laboratory

DEIT-14615 Information Storage and Management

DEIT-14616 Information Storage and Management Laboratory

DEIT-14617 Industry/Need based subject

DEIT-14618 Industry/Need based subject Laboratory

Elective-III

DEIT-14705 Agile Software Development

DEIT-14706 Agile Software Development Laboratory

DEIT-14707 Bioinformatics

DEIT-14708 Bioinformatics Laboratory

DEIT-14709 Simulation and Modeling

DEIT-14710 Simulation and Modeling Laboratory

DEIT-14711 Mobile Application Development

DEIT-14712 Mobile Application Development Laboratory

DEIT-14713 Cloud Infrastructure and Services

DEIT-14714 Cloud Infrastructure and Services Laboratory

DEIT-14715 Industry/Need based subject

DEIT-14716 Industry/Need based subject Laboratory

Elective-IV

DEIT-14717 Compiler Design

Guru Nanak Dev Engineering College, Ludhiana
Department of Information Technology

DEIT-14718 Computer Forensics

DEIT-14719 Optimization Techniques

DEIT-14720 Multimedia Systems

DEIT-14721 Corporate IT Management

DEIT-14722 Research Methodologies

Open Electives

OEIT-14601 IT enabled services

OEIT-14602 Management Information System