Guru Nanak Dev Engineering College, Ludhiana
Department of Computer Science & Engineering

Ref. No.: CSE/54/747

Dated: 21.7.16

The following persons were present:

1. Dr. Parminder Singh, Professor& Head, Department of Computer Science and Engineering, GNDEC, Ludhiana (Chairman)
2. Er. Amanpreet Singh Brar, Associate Professor, Department of Computer Science and Engineering, GNDEC, Ludhiana (Member)
3. Er. Sumeet Kaur Sehra, Assistant Professor, Department of Computer Science and Engineering, GNDEC, Ludhiana (Member)
4. Er. Vivek Thapar, Assistant Professor, Department of Computer Science and Engineering, GNDEC, Ludhiana (Member)
5. Dr. Gurpreet Singh Lehal, Professor, Department of Computer Science, Punjabi University, Patiala (Member)
6. Dr. Paramjit Singh, Associate Professor, Giani Zail Singh Campus, College of Engineering and Technology, Bathinda (Member)
7. Er. Nitish Mahajan, MD, Conjoinix Technology Private Limited, Sector 34-A, Chandigarh (Member)

The meeting started with welcome address by chairman BOS, and the already circulated agenda was put up for discussion. Following decisions were taken unanimously:

Proceedings:

Agenda Item 1

To exchange one core subject of 5th semester with Elective of 6th semester in already approved study scheme of B.Tech. Computer Science and Engineering (Batch 2014 onwards) and approval of changed subject codes this course scheme.

Approved

Dr. Parminder Singh

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Dr. Gurpreet Singh Lehal

Dr. Paramjit Singh

Er. Nitish Mahajan

B.Tech. Computer Science and Engineering Course Scheme

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
Third Semester								
CS-14301	Mathematics-III	3	1	-	40	60	100	4
CS-14302	Computer Architecture and Organisation	3	1	-	40	60	100	4
CS-14303	Digital Circuits and Logic Design	3	1	-	40	60	100	4
CS-14304	Data Structures and Algorithms	4	1	-	40	60	100	5
CS-14305	Object Oriented Programming using C++	4	1	-	40	60	100	5
CS-14306	Digital Circuits and Logic Design Lab	-	-	2	30	20	50	1
CS-14307	Data Structures and Algorithms Lab	-	-	4	30	20	50	2
CS-14308	Object Oriented Programming using C++ Lab	-	-	4	30	20	50	2
CS-14309	Institutional Practical Training*				60	40	100	1
Total		17	5	10	350	400	750	28
		Contact Hours= 32						
Fourth Semester								
CS-14401	Discrete Structures	3	1	-	40	60	100	4
CS-14402	Operating System	3	1	-	40	60	100	4
CS-14403	Computer Networks	3	1	-	40	60	100	4
CS-14404	Microprocessor Architecture and Programming	3	1	-	40	60	100	4
CS-14405	Java Programming	4	1	-	40	60	100	5
CS-14406	Operating Systems Lab	-	-	2	30	20	50	1

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Course Code	Course Name	L	T	P	Internal	External	Total	Credits
CS-14407	Computer Networks Lab	-	-	4	30	20	50	2
CS-14408	Microprocessor Architecture and Programming Lab	-	-	2	30	20	50	1
CS-14409	Java Programming Lab	-	-	4	30	20	50	2
	General Fitness				100	-	100	-
Total		16	5	12	420	380	800	27

Contact Hours = 33

Fifth Semester

Course Code	Course Name	L	T	P	Internal	External	Total	Credits
CS-14501	Relational Database Management System	3	1		40	60	100	4
CS-14502	Computer Graphics	3	1			60	100	4
CS-14503	Design and Analysis of Algorithms	3	1	-		60	100	4
CS-14504	Web Technologies	3	1	-	40	60	100	4
CS-14xxx	Elective-I	3			40	60	100	4
CS-14505	Relational Database Management System Lab				30	20	50	2
CS-14506	Computer Graphics Lab			2		20	50	1
CS-14507	Design and Analysis of Algorithms Lab			2	30	20	50	1
CS-14508	Web Technologies Lab			4			50	2
CS-14509	Industrial Training				60	40	100	2
Total			5	12	380	420	800	28

Contact Hours = 32

Sixth Semester

Course Code	Course Name	L	T	P	Internal	External	Total	Credits
CS-14601	Theory of Computation		1			60	100	4
CS-14602	Advanced Database Systems	4	1	-	40	60	100	5
CS-14603	Software Engineering	3	1	-	40	60	100	4

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CS-14604	Cyber Laws and IPR	3	1	-	40	60	100	4
CS-14xxx	Elective-II	3	1	-	40	60	100	4
CS-14605	Advanced Database Systems Lab	-	-	4	30	20	50	2
CS-14606	Software Engineering Lab	-	-	4	30	20	50	2
CS-14xxx	Elective-II Lab	-	-	4	30	20	50	2
General Fitness					100	-	100	
Total		16	5	12	390	360	750	27
		Contact Hours= 33						

Seventh/Eighth Semester

CS-14701	Advanced Computer Networks	3	1	-	40	60	100	4
CS-14702	Compiler Design	3	1	-	40	60	100	4
CS-14xxx	Elective-III	3	1	-	40	60	100	4
CS-14xxx	Elective-IV	3	1	-	40	60	100	4
CS-14xxx	Open Elective	3	-	-	40	60	100	3
CS-14703	Advanced Computer Networks Lab	-	-	2	30	20	50	1
CS-14704	Project	-	-	10	100	100	200	5
General Fitness					100	-	100	
Total		15	4	12	430	420	850	25
		Contact Hours= 31						

Seventh/Eighth Semester

CS-14801	Industrial Training	-	-	-	450	300	750	20

*Institutional training will be imparted at the end of 2nd semester in the institute for four weeks

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List of Electives

Elective-I:

CS-14510 Advanced Computer Architecture

CS-14511 Cryptography and Network Security

CS-14512 Wireless Networks

CS-14513 Ethical Hacking

CS-14514 Network Protocols

CS-14515 Embedded Systems

Elective-II:

CS-14607 Simulation and Modeling

CS-14608 Digital Image Processing

CS-14609 Artificial Intelligence

CS-14610 Advanced Java

CS-14611 .NET Technologies

CS-14612 Linux Administration

CS-14613 Simulation and Modeling Lab

CS-14614 Digital Image Processing Lab

CS-14615 Artificial Intelligence Lab

CS-14616 Advanced Java Lab

CS-14617 .NET Technologies Lab

CS-14618 Linux Administration Lab

Elective-III:

CS-14705 Parallel Computing

CS-14706 Mobile Computing

CS-14707 Cloud Computing

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CS-14708 Big Data and Business Analytics

CS-14709 Data Warehouse and Data Mining

Elective-IV:

CS-14710 Natural Language Processing

CS-14711 Machine Learning

CS-14712 Software Testing and Quality Assurance

CS-14713 Information Security

CS-14714 Soft Computing

CS-14715 Agile Software Development

Open Electives:

CS-14716 Operation Research

CS-14717 Engineering Economics and Management

CS-14718 Organizational Structures

CS-14719 Project management

CS-14720 Optimization Techniques

CS-14721 Human Resource Management

CS-14722 Industrial Psychology

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Agenda Item 2

Approval of 3rd and 4th semester course curriculum of B.Tech. Computer Science and Engineering (Batch 2014 onwards) after incorporating recommendations of 4th BOS meeting held on 08.06.2015.

Approved

Agenda Item 3

Finalizing the syllabus of subjects of 5th and 6th semester of B.Tech. Computer Science and Engineering (Batch 2014 Onwards)

After discussion and deliberation, certain modifications have been done and others recommendations will be incorporated in the proposed Syllabi of subjects of B.Tech. Computer Science and Engineering.

Committee approved the syllabi and authorized Chairman BOS for further changes if required.

The followings suggestions are given:

FIFTH SEMESTER		
Course Code	Course Name	Suggestions
CS-14503	Design and Analysis of Algorithms	The following topic should be looked into for inclusion or exclusion Cooks Theorem. The following topics are excluded Breadth First Search Depth First Search
CS-14506	Relational Database Management System Lab	Include practical for database design tools.
CS-14507	Computer Graphics Lab	The entire lab syllabus needs revision and should add few animation

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		practical.
CS-14508	Design and Analysis of Algorithms Lab	The practical list should include some case studies. The following practical needs to be removed Practical No. 3,16,17
CS-14509	Web Technologies Lab	The common practical should be clubbed. Include some practical's of tools.
CS-14511	Cryptography and Network Security	Include book of Frozen in recommended books.
CS-14512	Wireless Networks	Last module can be excluded
CS-14515	Embedded Systems	Module titled Embedded System with 8051 can include some latest microcontroller.
CS-14601	Theory of Computation	Include book of Cohen in recommended books.
CS-14602	Advance Database Systems	Syllabus needs to be reduced
CS-14604	Cyber Laws and IPR	Include case study in syllabus.
CS-14605	Advance Database Systems Lab	The practical's related with loops needs to be clubbed
CS-14606	Software Engineering Lab	Include some tools for software modeling.
CS-14607	Simulation and Modeling	Syllabus needs to be reduced.
CS-14609	Artificial Intelligence	Include Module of Phyton Language.
CS-14611	.NET Technologies	Last Module can be excluded
CS-14612	Linux Administration	Last two modules needs to be revised
CS-14613	Simulation and Modeling Lab	Practical statements should be specific.
CS-14614	Digital Image Processing Lab	Syllabus needs to be revised.
CS-14615	Artificial Intelligence Lab	Include Practical's of Phyton Language.
CS-14617	.NET Technologies Lab	Syllabus needs to be revised and should include project work.
CS-14618	Linux Administration Lab	Focus should not be on configuration and administration of services not on basic shell scripts.

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Agenda Item 4

Approval of panel of external question paper setters for end semester examinations of B.Tech. and M.Tech.

Approved

Committee approved the Panel and authorized Chairman BOS for further changes if required.

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