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

Ref. No.: C3 E1 26 94

Dated: ... 13 1.7 20 n

Minutes of 6th meeting of Board of Studies of Computer Science and Engineering Department held on 12.07.2017 at 11:00 am in the Committee Room, GNDEC, Ludhiana.

The following persons were present:

- 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)
- Er. Sumeet Kaur Sehra, Assistant Professor, Department of Computer Science and Engineering, GNDEC, Ludhiana (Member)
- Er. Vivek Thapar, Assistant Professor, Department of Computer Science and Engineering, GNDEC, Ludhiana (Member)
- Dr. Gurpreet Singh Lehal, Professor, Department of Computer Science, Punjabi University, Patiala (Member)
- Dr. Paramjit Singh, Professor, Giani Zail Singh Campus, College of Engineering and Technology, Bathinda (Member)
- Dr. Shaveta Rani, Professor, Giani Zail Singh Campus, College of Engineering and Technology, Bathinda (External Expert)

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

Dr. Parminder Singh

Er. Amanpreet Singh Brar

Er. Sumeet Kaur Sehra

Er. VivekThapar Vive

Dr. Shaveta Rani

Dr. Gurpreet Singh Lehal Gunnoth

Dr. Paramjit Singh

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Proceedings:

Agenda Item 1

Approval of change of conduct hours and credits of following courses of 1st year B.Tech.

a. Fundamentals of Computer Programming and Information Technology

Lecture: 03 hours, Credit: 03 Tutorial: 01 hour, Credit: 0.5

b. Fundamentals of Computer Programming and Information Technology Lab.

Practical: 02 hour, Credit: 01

Approved

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

The followings suggestions are given

Course Code	Course Name	Suggestions			
BTCS-101	FCPIT	Section wise no. of hours to be mentioned Revision of syllabus is required			
3TCS-102	FCPIT Laboratory	Revision of contents is required			

Agenda Item 2

Approval of changed subject codes of already finalized course scheme of B.Tech. Computer Science and Engineering (Batch 2014 onwards).

Approved

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Er. VivekThapar

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Course Code	Course Name	Load Allocation			Marks Di	stribution	Total	Credit
		L	T	P	Internal	External	Marks	Cicuia
		7	hird S	Semeste	r			
CS-14301	Mathematics-III	3	1		40	60	100	4
CS-14302	Computer Architecture and Organization	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	3	ì	-	40	60	100	4
CS-14305	Object Oriented Programming using C++	3	1	-	40	60	100	4
CS-14306	Digital Circuits and Logic Design Lab	-	19	4	30	20	50	2
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
TR-14301	Workshop Training*				60	40	100	2
Total		15	5	12	350	400	750	28
	Contact F		ct Hou	rs= 32				
		F	ourth S	Semeste				
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	3	1.	-	40	60	100	4
CS-14406	Operating Systems Lab	-		4	30	20	50	2
CS-14407	Computer Networks Lab	-	- 1	4	30	20	50	2

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Er. Amanpreet Singh Brar

Er. VivekThapar Vive Dr. Shaveta Rani
Dr. Gurpreet Singh Lehal GuthatCo

CS-14408	Microprocessor Architecture and Programming Lab	-	-	2	30	20	50	1
CS-14409	Java Programming Lab	-	-	4	30	20	50	2
GF-14401	General Fitness				100		100	1
	Total	16	-		_		15.000	
	1 otal	15	5	14	420	380	800	28
		Conta	et Hou	rs= 34				
		Ī	Fifth Se	mester				
CS-14501	Relational Database Management System	3	1		40	60	100	4
CS-14502	Computer Graphics	3	l	-	40	60	100	4
CS-14503	Design and Analysis of Algorithms	3	1	1	40	60	100	4
CS-14504	Web Technologies	3	i	1-1	40	60	100	4
DECS-145xx	Elective-I	3	1	-	40	60	100	4
CS-14511	Relational Database Management System Lab	-	•	4	30	20	50	2
CS-14512	Computer Graphics Lab	-	•	2	30	20	50	1
CS-14513	Design and Analysis of Algorithms Lab		•	2	30	20	50	1
CS-14514	Web Technologies Lab	-	-	4	30	20	50	2
TR-14501	Industrial Training-I				60	40	100	2
Total		15	5	12	380	420	800	28
		Contact Hours= 32						
		Si	xth Se	mester				
CS-14601	Theory of Computation	3	1	1 - 1	40	60	100	4
CS-14602	Advanced Database Systems	3	1	-	40	60	100	4
CS-14603	Software Engineering	3	1	-	40	60	100	4
DECS-146xx	Elective-II	3	ì	-	40	60	100	4
OECS-146xx	Open Elective	3	-	-	40	60	100	3

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CS-14610	Advanced Database Systems Lab	-	•	4	30	20	50	2
CS-14611	Software Engineering Lab	-	-	4	30	20	50	2
	Elective-II Lab	-	(-	2	30	20	50	1
PRCS-14601	Minor Project		10.	1	40	60	100	11
GF-14601	General Fitness				100	•	100 1	
Total		15	4	11	390	360	750	26
		Contac	t Hours	= 30			-	
		Seventh	/Eight	Seme	ster			
CS-14701	Advanced Computer Networks	3	1	-	40	60	100	4
CS-14702	Compiler Design	3	1	-	40	60	100	4
CS-14703	Cyber Laws and IPR	3	1	•	40	60	100	4
DECS-147xx	Elective-III	3	1	-	40	60	100	4
DECS-147xx	Elective-TV	3	1	. (*)	40	60	100	4
CS-14715	Advanced Computer Networks Lab	10,760		4	30	20	50	2
PRCS-14701	Major Project	-	1 -	3	120	80	200	3
DECS-147xx	Elective-III Lab	-	-	2	30	20	50	
GF-14701	General Fitness				100	-	100	1
Total		15	5	09	460	440	900	27
		Contact Hours 29						
-		Sevent	h/Eigh	th Sem			1 800	1 12
TRCS-14701	Industrial Training-II*				450	350	800	13
TRCS-14702	Industry Oriented Training ⁵				•	200	200	02
Total	114111119				450	550	1000	15

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

This component will be based on Two Weeks Workshop/Software/Latest Development through Global Initiative of Academic Networks (GIAN).

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[&]quot;This component will be based on Industrial Training/Institute Department Training/Project Work/Skill Development (Grade-6) Entrepreneurship Training facility created by IKG-PTU, Mohali.

List of Electives

Elective-I

DECS-14505 Advanced Computer Architecture

DECS-14506 Cryptography and Network Security

DECS-14507 Wireless Networks

DECS-14508 Ethical Hacking

DECS-14509 Network Protocols

DECS-14510 Embedded Systems

Clective-II

DECS-14604 Simulation and Modelling

DECS-14605 Digital Image Processing

DECS-14606 Artificial Intelligence

DECS-14607 Advanced Java

DECS-14608 .NET Technologies

DECS-14609 Linux Administration

DECS-14613 Simulation and Modelling Lab

DECS-14614 Digital Image Processing Lab

DECS-14615 Artificial Intelligence Lab

DECS-14616 Advanced Java Lab

DECS-14617 .NET Technologies Lab

DECS-14618 Linux Administration Lab

Elective-III

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DECS-14704 Parallel Computing

DECS-14705 Mobile Computing

DECS-14706 Cloud Computing

DECS-14707 Big Data and Business Analytics

DECS-14708 Data Warehouse and Data Mining

DECS-14717 Parallel Computing Lab

DECS-14718 Mobile Computing Lab

DECS-14719 Cloud Computing Lab

DECS-14720 Big Data and Business Analytics Lab

DECS-14721 Data Warehouse and Data Mining Lab

Elective-IV

DECS-14709 Natural Language Processing

DECS-14710 Machine Learning

DECS-14711 Software Testing and Quality Assurance

DECS-14712 Information Security

DECS-14713 Soft Computing

DECS-14714 Agile Software Development

Open Electives

OECS-14601 Software Project Management

OECE-14602 Object Oriented Programming using JAVA

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Agenda Item 3

Finalizing the syllabus of subjects of 7th/8th 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:

Course Code	Course Name	Suggestions
CS-14702	Complier Design	 To check the syllabus of Theory of Computation offered in 6th semester for repetition
CS-14703	Cyber Laws and IPR	 To include the latest amendment of IT Act 2000. Case studies related to breach of cyber laws in different categories. Books related with case studies to be explored.
DECS-14704	Parallel Computing	 Parallel programming support environments used in laboratory work to be explored in detail in theory e.g. OpenMP, and MPI.
DECS-14707	Big Data and Business Analytics	 Business Analytics portion should be included and machine learning portion can be reduced.
DECS-14708	Data Warehouse and Data Mining	 Sequencing of topics of first section to be checked. Terms used in second section to be checked. In last section specify data warehousing applications and data mining trends
DECS-14709	Natural Language Processing	 In recommended book section, book of author Rajeev Sangal, PHI publication to be included. Section corresponding to Application of Natural Language Processing to be incorporated.
DECS-14710	Machine Learning	 Section corresponding to Application of Machine Learning to be incorporated. Hidden Markov model to be included. Introduction to Deep Learning concept to be included in Artificial Neural Networks Section
DECS-14711	Software Testing and Quality Assurance	 In introduction section software testing and quality assurance topics to be incorporated

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4		 Sequencing of second, third and fifth section to be checked. Debugging and defect management should be included in one section. Testing automation may be included.
DECS-14712	Information Security	 Sniffing network traffic topic to be incorporated in information security hurdles section In cryptography section reorganization of topics should be done. Book of author Frozen to be incorporated in recommended books section. Repetition of topics to be checked.
DECS-14713	Soft Computing	 Section other computing techniques should be renamed as optimization techniques.
DECS-14714	Agile Software Development	 Section Agile Design should be renamed as Design principles Section Agile Testing should be renamed as Testing Reorganization of topics should be done and section heading should be renamed.
DECS-14719	Cloud Computing Lab	Practical V iCanCloud can be skipped.
DECS-14721	Data Warehouse and Data Mining Lab	Simple calculator program can be skipped
OECS-14601	Software Project Management	Staffing pattern should be included along with recruitment process No. of lectures should be mentioned
OECS-14602	Object Oriented Programming using Java	 Inheritance section should be splitted into two sections and polymorphism topic should be included in the second section.

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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