MINUTES OF 12th MEETING

OF

BOARD OF STUDIES (BOS)

DEPARTMENT OF

COMPUTER ENGINEERING &

APPLICATIONS

GLA
UNIVERSITY
MATHURA
Established vide U.P. Act 21 of 2010.

JULY 14th, 2018

Minutes of the 12th BoS meeting
Department of Computer Engineering & Applications

GLAU/CEA/BOS_MoM/2018-19/01   18.07.2018

Members Present:

1. Prof. Kolin Paul, IIT Delhi	13. Mr. Rishi Agrawal	25. Mr. Samkit Jain
2. Dr. Vikram Goyal, IIIT Delhi	14. Ms. Aikta Arya	26. Mr. Vivek Kumar
3. Mr. Nitish Mittal, Wingify, Delhi	15. Ms. Shalini Agarwal	27. Mr. Subhash Agrawal
4. Mr. Atul Bansal, EC	16. Ms. Preetika Rani	28. Mr. Puneet Kansal
5. Prof. Anand Singh Jalal	17. Ms. RuchiraManke	29. Mr. Nishant Singh
6. Prof. Ashish Sharma	18. Mr. Akhilesh Kumar	
7. Prof.Diwakar Bhardwaj	19. Ms. Anupam Yadav	
8. Prof. Dilip Kumar Sharma	20. Ms. Rekha Rani	
9. Dr. Anant Ram	21. Ms. JagratiKulshretha	
10. Dr. Manas Kumar Mishra	22. Mr. Rahul Pradhan	
11. Dr. Ashish Sharma	23. Mr. Palash Jain	
12. Mr. Shashi Shekhar	24. Mr. Saurabh Anand	

The Chairman Board of Studies welcomed all the members and started proceedings of the tenth meeting of BoS in accordance with the Agenda note circulated earlier.

Agenda Item – 12.1: To confirm the minutes of the 11ᵗʰBoS meeting

The minutes of the11ᵗʰBoS meeting held on July 31ˢᵗ, 2017 were implemented and enclosed as Annexure A

Agenda Item – 12.2: Action Taken Report (ATR)

The ATR based on the minutes of the Eleventh BoS were presented.

Agenda Item – 12.3: To consider inclusion of TWO new specializations i.e. Cyber Security and Forensics and Internet of Things (IoT) for B. Tech. (Computer Science &Engg.) and approve their course structure and syllabi.

The experts and members of BoS critically observed and approved the course structure and syllabi for TWO new specializations i.e. Cyber Security and Forensics and Internet of Things (IoT) are enclosed as Annexure B.

Agenda Item – 12.4: To consider and approve the courses offered by Department of CEA both at Undergraduate and Postgraduate level under Choice Based Credit System.

The experts and members of BoS thoroughly checked and appraised with new course structure and syllabi of different courses under CBCS system for the following courses:

- *B. Tech. Computer Science & Engineering (**Specialization in Cyber Security and Forensics**) - Annexure C*
- *B. Tech. Computer Science & Engineering (**Specialization in Internet of Things**) - Annexure C*
- *BCA - Annexure D*
- *MCA - Annexure E*

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- *M. Tech. Computer Science & Engineering - Annexure F*

The experts and members of BoS offered their suggestion to add Problem Solving Lab in M.Tech first year to improve programming skills of the students. The suggestion was incorporated.

Agenda Item – 12.5: To consider and approve renaming and restructuring of Object-Oriented Programming using C++ and Essentials of Information Technology

The experts made their observations and approved the syllabi for above subjects - enclosed as Annexure G.

Agenda Item – 12.6: To consider and approve revised syllabi for the BCA and MCA programmes.

All the members of BoS thoroughly checked and appraised the the feedback received from the various stakeholders (Faculty/Employer/Student/Alumni) and the revision/modification in syllabus of existing courses of various programmes is proposed as follows.

Programme	No. of Courses under consideration for revision	Name of the Courses under consideration for revision
BCA	12	- Programming Logic - C Programming Lab - Introduction of Logic Circuit and Digital Design - Data Structure using C - Data Structure using C Lab - Database Management System - Database Management System Lab - Programming Lab - Introduction to Python - Web Technology - Web Technology Lab - Computer Organization & Architecture
MCA	7	- Computer Programming - Fundamentals of Information Technology - Computer Programming Lab - Design and Analysis of Algorithm - Data Structure - Data Structure Lab - Software Engineering

The experts and members of BoS approved the same. The details of revised syllabi enclosed in Annexure H.

Agenda Item – 12.7: To consider and approve courses imparting employability/skill development/ entrepreneurship in the B.Tech (CSE), B.Tech (CCV), B.Tech (DA), BCA and MCA programmes.

The experts and members of BoS approved the same. The details enclosed in Annexure I.

Based on the feedback of various stakeholders (Faculty, Alumni, Corporate and Students) department present details of new courses to be introduced. After thorough discussion Board approved the same. The details enclosed in Annexure J.

Agenda Item – 12.9: To consider and approve courses recommended by Training & Development Department for B.Tech, MCA, BCA respectively.

Training & Development Department of the University recommended to get the syllabi of few courses approved in the Board of Studies Meeting of the department. Same was presented in front of the board. After due discussions, the board approved the same whose details are as follows:

Year & Semester	Code & Title of the Course
II Year, III Sem	BTDH 0301: Soft Skills - I
II Year, IV Sem	BTDH 0302: Soft Skills - II
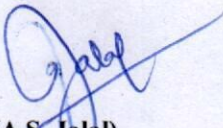
Year & Semester	Code & Title of the Course
I Year, I Sem	MTDH 0301: Soft Skills - I
I Year, II Sem	MTDH 0302: Soft Skills - II

Year & Semester	Code & Title of the Course
I Year, I Sem	BCTH 0101: Soft Skills - I
I Year, II Sem	BCTH 0102: Soft Skills - II

Agenda Item – 12.10: Any other item with the permission of chair.
No item has been reported

The meeting ended with thanks to the Chair.

(A.S. Jalal)
Head, CEA

Copy to: Chairman, Academic Council
Director IET, GLA University, Mathura
Registrar
All the members of BoS

ANNEXURE- J

List of New Courses Introduced

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Department: Computer Engineering and Applications

S.No.	Name of the Courses
1	Engineering Mathematics I
2	English Language Skills for Communication I
3	Basic Electrical Engineering
4	Electronics Engineering
5	Computer Programming
6	English Language Lab I
7	Electrical Engineering Lab
8	Electronics Lab I
9	Engineering Drawing Lab
10	Computer Programming Lab
11	Engineering Mathematics II
12	English Language Skills for Communication II
13	Basic Mechanical Engineering
14	Python Programming
15	English Language Lab II
16	Engineering Workshop Practice Lab
17	Python Programming Lab
18	Object Oriented Programming
19	Database Management System
20	Operating Systems
21	Computer Organization
22	Data Structures and Algorithms
23	Introduction to Microprocessors
24	Computer Networks
25	Software Engineering
26	Discrete Mathematics
27	Object Oriented Programming Lab
28	Database Management System Lab
29	Operating Systems Lab
30	Computer Organization Lab
31	Data Structures and Algorithms Lab
32	Microprocessors Lab
33	Soft Skills – I
34	Soft Skills – II
35	Introduction to Cyber security

List of New Courses Introduced

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Department: Computer Engineering and Applications

S.No.	Name of the Courses
36	Disaster Management
37	Basic course in Entrepreneurship
38	Leadership and Organizational behaviour
39	English for professional purposes - I
40	English for professional purposes - II
41	Ethics & Values
42	Engineering Mathematics - III
43	Environmental Studies
44	Introduction to Open Source Software & Open Standards
45	Web Programming through PHP
46	Design and Analysis of Algorithm
47	Design and Analysis of Algorithm Lab
48	Compiler Design
49	Introduction to IT Infrastructure Landscape
50	Introduction to Virtualization and Cloud Computing
51	Cloud Computing Architecture & Deployment Models
52	Business Process Management
53	Cloud Management
54	Cloud Security
55	Virtualization Lab
56	Cloud Deployment Lab
57	Business Process Management Lab
58	Cloud Management Lab
59	Cloud Security Lab
60	Introduction to Business Analytics
61	Applied Statistical Analysis
62	Data Mining and Predictive Modeling
63	Data Warehouse & Multidimensional Modeling
64	Business Intelligence
65	Hadoop & Big Data Analytics
66	Social, Web & Mobile Analytics
67	Applied Statistical Analysis Lab
68	Data Mining Lab
69	Data Warehouse Lab
70	Business Intelligence Lab

List of New Courses Introduced
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Department: Computer Engineering and Applications

S.No.	Name of the Courses
71	Hadoop & Big Data Analytics Lab
72	Social, Web & Mobile Analytics Lab
73	Information Security Fundamentals
74	IT Systems Security and Physical Security
75	IT Systems Security and Physical Security Lab
76	Introduction to Internet of Things
77	Sensor Technology & Instrumentation
78	Sensor Technology & Instrumentation Lab
79	Programming Logic Using 'C'
80	Fundamentals of Computer and IT
81	Introduction of Logical Circuit and Digital Design
82	Remedial English
83	Mathematics –I
84	Programming Lab
85	Information Technology Lab
86	Soft Skills – I
87	Data Structures using 'C'
88	Fundamental of Database Management System
89	Fundamentals of Operating Systems
90	Management Concepts & Practices
91	Mathematics –II
92	Data Structures using 'C' Lab
93	Database Management System Lab
94	Operating System Lab
95	English in Practice
96	Soft Skills – II
97	Fundamentals of Information Technology
98	Computer Programming
99	Computer Organization
100	Discrete Mathematics
101	Theory of Automata & Formal Language
102	Introduction to Microprocessors
103	Object Oriented Programming
104	Data Structures
105	Database Management System

List of New Courses Introduced
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Department: Computer Engineering and Applications

S.No.	Name of the Courses
106	Operating Systems
107	Computer Networks
108	Software Engineering
109	Design and Analysis of Algorithm
110	Web Technology
111	Distributed Systems
112	Fundamentals of Information Technology Lab
113	Computer Programming Lab
114	Computer Organization Lab
115	Microprocessors Lab
116	Problem Solving Lab
117	Object Oriented Programming Lab
118	Data Structures Lab
119	Database Management System Lab
120	Operating System Lab
121	Web Technology Lab
122	Soft Skills-I
123	Soft Skill-II
124	Theory of Computation
125	Software Engineering Methodologies
126	Advanced Concepts in Data Mining
127	Advanced Concepts in Networking
128	Probability and Stochastic Processes
129	Problem Solving Lab - I
130	Mobile Ad-hoc Networks
131	Intelligent Systems
132	Information Retrieval
133	Image Processing and Analysis
134	Design of Distributed Systems
135	Seminar-I
136	Seminar-II
137	Problem Solving Lab - II
138	Image Processing and Analysis Lab
139	Engineering Physics
140	Engineering Chemistry

List of New Courses Introduced

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Department: Computer Engineering and Applications

S.No.	Name of the Courses
141	Engineering Physics Lab
142	Engineering Chemistry Lab
143	Research Methodology