

**MINUTES OF 13th MEETING
OF
BOARD OF STUDIES (BOS)**

**DEPARTMENT OF
COMPUTER ENGINEERING &
APPLICATIONS**



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

MAY 4th, 2019

Department of Computer Engineering & Applications

GLAU/CEA/13_BOS_MoM/2018-19

06.05.2019

Members Present:

- | | |
|---------------------------------------|---------------------------|
| 1. Prof. R. K. Agrawal, JNU Delhi | 12 Prof. Diwakar Bhardwaj |
| 2. Dr. Vikram Goyal, IIIT Delhi | 13 Dr. Anant Ram |
| 3. Mr. Rajesh Singh, HCL Pvt. Ltd. | 14 Dr. Manoj Kumar |
| 4. Mr. Staya Prakash, Alumni, Aricent | 15 Dr. Manas Kumar Mishra |
| 5. Mr. Suresh Singh, Director T&D | 16 Dr. Ashish Sharma |
| 6. Mr. Atul Bansal, EC | 17 Mr. Rohit Agrawal |
| 7. Dr. Pooja Pathak, Maths | 18 Mr. Neeraj Gupta |
| 8. Prof. Anand Singh Jalal | 19 Mr. Narendra Mohan |
| 9. Prof. Charual Bhatnagar | 20 Mr. Saurabh Anand |
| 10. Prof. Ashish Sharma | 21 Mr. Himanshu Sharma |
| 11. Prof. Dilip Sharma | 22 Mr. Saurabh Singhal |

The Chairman Board of Studies welcomed all the members and started proceedings of the 13th meeting of BoS in accordance with the Agenda note circulated earlier.

Agenda Item – 13.1: To confirm the minutes of the 12th BoS meeting

The minutes of the meeting of 12th BoS held on July 14th, 2018 were implemented and enclosed as Annexure A.

Agenda Item – 13.2: Action Taken Report (ATR)

The ATR based on the minutes of the 12th BoS were presented.

Agenda Item – 13.3: To consider inclusion of a new specialization i.e. Artificial Intelligence and Machine Learning for B.Tech (Computer Science & Engg.) and approve their course structure.

The experts and members of BoS critically observed and approved the course structure for new specialization i.e. Artificial Intelligence and Machine learning, enclosed as Annexure B.

Agenda Item – 13.4: To consider and approve the Program Electives offered by Department of CEA at Undergraduate level under Choice Based Credit System.

The experts and members of BoS thoroughly checked and appraised with syllabi of different program electives under CBCS system, enclosed as Annexure C.

Agenda Item – 13.5: To consider and approve inclusion of project component (J) in the following of the Program Electives

- | | |
|--|---|
| • Cyber security and Digital Forensics Project | • Full Stack Using Scripting Technologies Project |
| • Machine Learning Project | • Cloud Computing and Virtualization Project |
| • Business Intelligence Project | • Full Stack using Node JS Project |
| • Big Data Analytics Project | • Full Stack using C#.net |
| • Internet of Things Project | • PHP - Scripting Language Project |

The experts and members of BoS observed the industry demand and therefore, approved the same, enclosed as Annexure C.

Agenda Item – 13.6: To consider and approve inclusion of course “Digital Marketing and Transformation” as an Elective under MCA Programme

The experts and members of BoS observed the industry demand and therefore, approved the course, enclosed as Annexure D.

Agenda Item – 13.7: To consider and approve revised syllabi for the courses in M.Tech programme.

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
M.Tech	4	<ul style="list-style-type: none">• Information Retrieval• Image Processing and Analysis• Image Processing and Analysis Lab• SE Methodologies

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

Agenda Item – 13.8: To consider and approve courses imparting employability/skill development/ entrepreneurship in the B.Tech (CSE), B.Tech (CSE) - CCV, B.Tech (CSE) - DA, B.Tech (CSE) - CSF, B.Tech (CSE) - IoT, B.Tech (CSE) - AIML, BCA, MCA and M.Tech programmes.

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

Agenda Item – 13.9: To consider and approve introduction of new courses in the existing programmes.

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 G.

Agenda Item – 13.10: Any other item with the permission of chair.

The experts and members of BoS approved the restructuring of following courses for BCA Program, Annexure H:

- *Shifting of course BCA6126- Digital Marketing and Transformation along with BCA6091 - Digital Marketing Lab from 6th to 5th semester.*

Agenda Item – 13.11: To consider and approve courses recommended by Training & Development Department for B.Tech (CSE)

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
III Year, V Sem	BTDH 0303, Soft Skills - III
III Year, VISEM	BTDH 0304, Soft Skills - IV

Agenda Item – 13.12: To consider and approve courses recommended by Training & Development Department for MCA

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	MTDH 0303, Soft Skills - III
II Year, IVSEM	MTDH 0304 , Soft Skills - IV

Agenda Item – 13.13: To consider and approve courses recommended by Training & Development Department for BCA

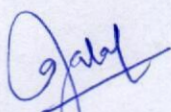
Training & Development Department of the University recommended to get the syllabi of few courses approved in the Board of Studies Meeting of the department. Same was presented in front of the board. After due discussions, the board approved the same whose details are as follows:

Year & Semester	Code & Title of the Course
II Year, III Sem	BCTH 0103: Soft Skills - III
II Year, IV Sem	BCTH 0104: Soft Skills - IV

Agenda Item – 13.14: 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-G



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List of New Courses Introduced

Session: 2019-20

Department: Computer Engineering and Applications

S.No.	Name of the Courses
1	Theory of Automata & Formal Language
2	Network Programming and Management
3	Principles of Mobile Computing
4	Ad Hoc Networks
5	Cyber security and Digital Forensics
6	Information Coding Techniques
7	Network Programming and Management Lab
8	Information Coding Techniques Lab
9	Software Project Management
10	Software Testing
11	Computer Graphics And Multimedia
12	Artificial Intelligence
13	Machine Learning
14	Machine Learning And Its Applications
15	Machine Learning Lab
16	Machine Learning Project
17	Introduction to Big Data Analytics
18	Internet of Things
19	Internet of Things And Its Applications
20	Parallel Algorithms
21	Cloud Computing
22	Cloud Computing and Virtualization
23	Internet of Things Lab
24	Parallel Algorithms Lab
25	Cloud Computing lab
26	Internet of Things Project
27	Cloud Computing And Virtualization Project
28	Full Stack Using Scripting Technologies
29	Full Stack Using Node JS
30	Full Stack Using C#.net
31	PHP - Scripting Language
32	Digital Marketing And Transformation
33	Full Stack Using Scripting Technologies Lab
34	Full Stack Using Node JS Lab
35	Full Stack Using C#.net Lab

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List of New Courses Introduced

Session: 2019-20

Department: Computer Engineering and Applications

S.No.	Name of the Courses
36	PHP - Scripting Language Lab
37	Full Stack Using Scripting Technologies Project
38	Full Stack Using Node JS Project
39	Full Stack Using C#.net Project
40	PHP - Scripting Language Project
41	Mini Project – I
42	Mini Project – II
43	Industrial Training
44	Introduction to Bhagavad Gita
45	Soft Skills – III
46	Soft Skills – IV
47	Environmental Studies
48	Industrial Management
49	IT Application and Data Security
50	IT Network Security
51	Information Security Audit and Monitoring
52	Cloud Architecture and Deployment Models
53	IT Business Continuity and Disaster Recovery
54	Digital Forensics
55	Ethical Hacking and Penetration Testing
56	IT Application and Data Security Lab
57	IT Network Security Lab
58	Information Security Audit and Monitoring Lab
59	Cloud Architecture and Deployment Models Lab
60	Digital Forensics lab
61	Ethical Hacking and Penetration Testing Lab
62	Wireless Sensor Networks & IoT Standards
63	Wireless Sensor Networks & IoT Standards Lab
64	Introduction to Artificial Intelligence
65	Object Oriented Programming
66	Computer Organization & Architecture
67	Discrete Structure & Graph Theory
68	Introduction to Python
69	Environmental Studies
70	Object Oriented Programming Lab

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List of New Courses Introduced

Session: 2019-20

Department: Computer Engineering and Applications

S.No.	Name of the Courses
71	Python Programming Lab
72	Effective Communication and Personality Development
73	System Design & Software Engineering
74	Computer Networks & Communication
75	Programming in JAVA
76	GUI based Programming Using Visual Basic
77	Optimization Methods
78	Visual Basic Programming Lab
79	Programming in Java Lab
80	Mini Project – I
81	Soft Skills III
82	Soft Skills IV
83	Professional Communication & Behavioral Grooming
84	Principles of Mobile Computing
85	Ad Hoc Networks
86	Cryptography & Network Security
87	Cyber security and Digital Forensics
88	Agile Software Development
89	Software Project Management
90	Service Oriented Architecture
91	Management Information System
92	E-Commerce
93	Digital Image Processing
94	Introduction to Machine Learning
95	Soft Computing
96	Artificial Intelligence
97	Digital Image Processing Lab
98	Machine Learning Lab
99	Data Mining and Warehousing
100	Business Intelligence
101	Information Retrieval System
102	Big Data and Analytics
103	Internet of Things
104	Cloud Computing
105	Big Data and Analytics Lab

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List of New Courses Introduced

Session: 2019-20

Department: Computer Engineering and Applications

S.No.	Name of the Courses
106	Internet of Things Lab
107	Cloud Computing Lab
108	.Net Framework using C#
109	Mobile Application Development
110	Digital Marketing and Transformation
111	Object Oriented Programming Using C++
112	Python Programming Lab
113	.Net Framework Lab
114	Mobile Application Development Lab
115	Object Oriented Programming Lab
116	Mini Project-I
117	Mini Project-II
118	Ethics & Values
119	Accounting & Financial Management
120	Soft Skills-III
121	Soft Skills-IV
122	Computer Vision
123	Wireless Sensor Networks
124	Software and Service Oriented Architecture
125	Pattern Recognition
126	High Performance Computing
127	Web Mining
128	Machine Learning
129	Dissertation I
130	Dissertation II

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