MINUTES OF 10th MEETING

OF

BOARD OF STUDIES (BOS)

DEPARTMENT OF COMPUTER ENGINEERING & APPLICATIONS

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

MAY 7th, 2016

Department of Computer Engineering & Applications
Minutes of the 10th Meeting of Board of Studies held on May 7th, 2016

Members Present:

1. Prof. M.M Gore, MNNIT, Allahabad	13. Mr. Nitin Tyagi	26. Mr. Sandeep Kumar Rathore
2. Prof. Veena Bansal, IIT K, On SKYPE	14. Mr. K.G.Sharma	27. Mr. Rajesh Kumar Tripathi
3. Ms. Kamaljeet Kaur, Infosys	15. Mr. Rohit Agrawal	28. Mr. Neeraj Varshney
4. Mr. Atul Bansal, EC	16. Mr. Neeraj Gupta	29. Mr. Saurabh Shrivastava
5. Prof. Anand Singh Jalal	17. Mr. Deepak Mangal	30. Mr. Praveen Mittlal
6. Prof. Charul Bhatnagar	18. Mr. Rakesh Galav	31. Mr. Anuj Mangal
7. Prof. Ashish Sharma	19. Mrs.Jyoti Bajpai	32. Mr. Gaurav Sharma
8. Prof. Dilip Kumar Sharma	20. Mr. Sachin Sharma	33. Mr. Anshy Singh
9. Mr. Anant Ram	21. Mr. Juginder Pal Singh	34. Mr. Ankur Chaturvedi
10. Mr. Manoj Kumar	22. Mr. Anjani Kumar Rai	35. Mr. Jitesh Bhatia
11. Dr. Manas Kumar Mishra	23. Mrs.Anupam Yadav	36. Mr. Piyush Vashistha
12. Mr. Ashish Sharma	24. Mr. Govind Kumar Jha	37. Mr. Nikhil Govil
	25. Mr. Kailash Kumar	

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 – 10.1: To confirm the minutes of the 9th BoS meeting

The minutes of the meeting of 9th BoS held on May 15th, 2015 were implemented and enclosed as Annexure - A.

Agenda Item – 10.2: Action Taken Report (ATR)

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

Agenda Item – 10.3: To consider and approve revised syllabi for the courses under B.Tech CSE 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
B.Tech	4	• Fundamental of Computer & Programming • Problem Solving using Computer • Computer Programming Lab – I • Computer Programming Lab - II

The experts gave their opinion regarding the changes in the syllabi of CSE 1001, 2001, 1081 and 2081. Further, the board critically observed the present teaching scheme of these subjects and agreed to modify it from 2-0-0 to 2-1-0. This will increase the credit of CSE 1001 and CSE 2001 from 2 to 3 The proposed course structure with increased credit and modified syllabi is enclosed as Annexure – B.

Agenda Item – 10.4: To consider and approve changes for the following subjects -

- **CSE 324 / CSE 6070: Essentials of Information Technology for B. Tech. III Year - EC, EN, EE and ME branches.**

- **CSE 8025: Big data and Analytics as an elective for B. Tech. IV Year VIII Semester - CSE**

The experts made their observations and offered their suggestions on the modified syllabi of CSE 324 / CSE 6070: Essentials of Information Technology for B. Tech. III Year - EC, EN, EE and ME branches. And, CSE 8025: Big data and Analytics as an elective for B. Tech. IV Year VIII Semester – CSE. The proposed syllabi for above two subjects are enclosed as Annexure C.

Agenda Item – 10.5: To consider and approve re-structuring and inclusion of new content in MCS 1005: Probability & Stochastic Process and MCS 1001: Theory of Computation for M.Tech. I Semester.

The experts and members of BoS critically observed and approved re-structuring and inclusion of new content in MCS 1005: Probability & Stochastic Process and MCS 1001: Theory of Computation for M. Tech. I Semester. The proposed syllabi for both the courses are enclosed as Annexure D.

Agenda Item – 10.6: To consider and approve changes in the course structure of BCA for the following subjects:

- **Swapping of BCA 4003 - Computer Graphics and Multimedia with BCA 6001 - Computer Network and Communication.**
- **Restructuring of the content - BCA 5003 – Design and Analysis of Algorithms and BCA 322 - .Net framework using VB.Net**

The experts and members of BoS observed the industry demand and therefore, approved swapping of BCA 4003 - Computer Graphics and Multimedia of BCA – IV Semester with BCA 6001 - Computer Network and Communication of BCA – VI Semester. And, also approved restructuring of the content of BCA 5003 – Design and Analysis of Algorithms and BCA 322 - .Net framework using VB.Net. The proposed course structure & syllabi for BCA5003 & BCA322 are enclosed as Annexure E.

Agenda Item – 10.7: To consider and approve –

- **Change in the credit structure of Mini Project Lab - I & II for B.Tech. V & VI Semester.**
- **Removal of Colloquium from B.Tech. III Year VI Semester.**

The experts and members of BoS members agreed to make changes in the credit structure of Mini Project Lab - I & II for B.Tech. V & VI Semester. And, the board critically observed and approved Removal of Colloquium from B.Tech. III Year VI Semester. The suggestions were incorporated and modified course structure and syllabi of these subjects are enclosed as Annexure F.

Agenda Item – 10.8: To consider and approve revised code for the subject(s) that are proposed for inclusion / swapping during 10th BoS.

The members of BoS agreed to assign new or revised codes for the subjects that are modified and swapped during 10th BoS. The details of such codes are enclosed as Annexure G.

Agenda Item – 10.9: To consider and approve courses imparting employability/skill development/ entrepreneurship in the B.Tech (CSE), BCA, MCA and M.Tech programmes.

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

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Agenda Item – 10.10: 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 I.

Agenda Item – 10.11: To consider and approve courses recommended by Training & Development 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
II Year, III Sem	AHE 3081: Soft Skills - I
II Year, IV Sem	AHE 4081: Soft Skills - II
III Year, V Sem	AHE 5081: Soft Skills - III
III Year, VI Sem	AHE 6081: Soft Skills - IV

Agenda Item – 10.12: To consider and approve courses recommended by Training & Development 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	AHE 3082: Soft Skills & Personality Development

Agenda Item – 10.13: To consider and approve courses recommended by Training & Development 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	AHE 3081: Soft Skills - I
II Year, IV Sem	AHE 4081: Soft Skills - II

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Agenda Item – 10.14: Any other item with the permission of chair
No item have been reported

(A.S. Jalal)
Head, CEA
Copy to: Chairman, Academic Council
Director IET, GLA University, Mathura
Registrar
All the members of BoS

ANNEXURE H

Department: Computer Engineering and Applications

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (2016-17)

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill
1	Engineering Mathematics I	Employability/Skill Development
2	Fundamentals of Computer & Programming	Employability
3	Basic Mechanical Engineering	Employability
4	Applied Mechanics	Employability
5	English Language Skills for Communication – I	Employability/Skill Development
6	English Language Lab – I	Employability/Skill Development
7	Engineering Workshop Practice Lab	Employability/Skill Development
8	Engineering Drawing	Employability/Skill Development
9	Computer Programming Lab - I	Employability
10	Applied Mechanics Lab	Employability
11	Engineering Mathematics II	Employability/Skill Development
12	Problem Solving using Computers	Employability
13	English Language Skills for Communication – I	Employability/Skill Development
14	English Language Lab – II	Employability/Skill Development
15	Computer Programming Lab - II	Employability
16	Data Structures & Algorithms	Employability
17	Computer Organization	Employability
18	Database Management System	Employability
19	Engineering Mathematics III	Employability/Skill Development
20	Ethics & Values	Entrepreneurship
21	Industrial Economics	Employability
22	Data Structures & Algorithms Lab	Employability
23	Computer Organization Lab	Employability
24	Database Management System Lab	Employability
25	Soft Skills -I	Skill Development
26	English for Professional Purpose – I	Employability/Skill Development
27	Operating Systems	Employability
28	Introduction to Microprocessors	Employability
29	Computer Networks	Employability
30	Object Oriented Programming	Employability
31	Discrete Mathematics	Employability/Skill Development
32	Operating Systems Lab	Employability
33	Microprocessors Lab	Employability
34	Object Oriented Programming Lab	Employability
35	Soft Skills -II	Skill Development
36	English for Professional Purpose – II	Employability/Skill Development
37	Design and Analysis of Algorithms	Employability
38	Software Engineering	Employability
39	Theory of Automata & Formal Language	Employability

Department: Computer Engineering and Applications

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (2016-17)

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill
40	Web Technology	Employability
41	Computer Graphics	Employability
42	Design and Analysis of Algorithms Lab	Employability
43	Web Technology Lab	Employability
44	Mini Project-I	Employability/Skill Development
45	Soft Skills – III	Skill Development
46	Compiler Design	Employability
47	Optimization Techniques	Employability
48	Unix Operating System	Employability
49	Soft Computing	Employability
50	Industrial Management	Entreprenuership
51	Compiler Design Lab	Employability
52	Unix/ Linux Lab	Employability
53	Mini Project-II	Employability/Skill Development
54	Soft Skills – IV	Skill Development
55	Digital Image Processing	Employability
56	Advanced Computer Architecture	Employability
57	Mobile Computing	Employability
58	Digital Image Processing Lab	Employability
59	Advanced Computer Architecture Lab	Employability
60	Industrial Training	Employability/Skill Development
61	Project – Part I	Employability/Skill Development
62	Advanced Computer Networks	Employability
63	Data Mining & Warehousing	Employability
64	Service Oriented Architecture	Employability
65	Embedded System	Employability
66	Information Retrieval System	Employability
67	Business Intelligence	Employability
68	Distributed System	Employability
69	Cryptography & Network Security	Employability
70	Distributed Systems Lab	Employability
71	Cryptography and Network Security Lab	Employability
72	Project – Part II	Employability/Skill Development
73	Data Compression	Employability
74	Advanced Concepts in Database Systems	Employability
75	Software Quality Engineering	Employability
76	Probability & Statistics	Employability
77	Big Data And Analytics	Employability
78	Distributed & Parallel Database	Employability

Department: Computer Engineering and Applications

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (2016-17)

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill
79	Software Ontology & Web Semantics	Employability
80	Natural Language Processing	Employability
81	Computational Geometry	Employability
82	Agile Software Development	Employability
83	Cloud Computing	Employability
84	Programming Logic Using 'C'	Employability
85	Fundamentals of Computer and IT	Employability
86	Introduction of Logical Circuit and Digital Design	Employability
87	Remedial English	Employability/Skill Development
88	Mathematics –I	Employability/Skill Development
89	'C' Programming Lab	Employability
90	Hardware & Office Automation Lab	Employability
91	Data Structures using 'C'	Employability
92	Database Management System	Employability
93	Operating Systems	Employability
94	Management Concepts & Practices	Employability
95	Mathematics –II	Employability/Skill Development
96	Data Structures using 'C' Lab	Employability
97	Database Management System Lab	Employability
98	English in Practice	Employability/Skill Development
99	Object Oriented Programming using C++	Employability
100	Management Information System and E commerce	Employability
101	Computer Organization & Architecture	Employability
102	Discrete Structure & Graph Theory	Employability
103	Environmental Studies	Skill Development
104	C++ Programming Lab	Employability
105	Soft Skills & Personality Development	Skill Development
106	GUI based Programming Using Visual Basic	Employability
107	System Design & Software Engineering	Employability
108	Computer Networks & Communication	Employability
109	Organizational Behavior	Employability
110	Numerical & Statistical Techniques	Employability
111	Visual Basic Programming Lab	Employability
112	Professional Communication & Behavioral Grooming	Employability
113	Core Java	Employability
114	Web Technology	Employability

	Department: Computer Engineering and Applications	
	List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (2016-17)	
S.No.	**Name of the Course**	**Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill**
115	Design and Analysis of Algorithms	Employability
116	Operations Research	Employability
117	Computer Graphics & Multimedia Techniques	Employability
118	.Net Framework using VB.Net	Employability
119	VB.Net Programming Lab	Employability
120	Project	Employability/Skill Development
121	Artificial Intelligence	Employability
122	Enterprise Resource Planning	Employability
123	Advanced Java	Employability
124	Advanced Database Management System	Employability
125	Computer Concept & Programming	Employability
126	Computer Organization & Architecture	Employability
127	Fundamentals of Computers	Employability
128	Discrete Mathematics	Employability/Skill Development
129	Managerial and Organizational Behaviour	Entrepreneurship
130	Environmental Science	Skill Development
131	Computer Programming Lab	Employability
132	Computer Organization & Architecture Lab	Employability
133	Computer Lab	Employability
134	Professional Communication Lab-I	Employability
135	Theory of Automata & Formal Language	Employability
136	Computer Graphics & Multi Media	Employability
137	Introduction to Microprocessors	Employability
138	Optimization Technique	Employability
139	Accounting & Financial Management	Entrepreneurship
140	Computer Graphics & Multi Media Lab	Employability
141	Microprocessors Lab	Employability
142	Mini Project – I	Employability/Skill Development
143	Professional Communication Lab-II	Employability
144	Object Oriented Programming	Employability
145	Data Structures	Employability
146	Database Management System	Employability
147	Software Engineering	Employability
148	Operating System	Employability
149	Object Oriented Programming Lab using C++	Employability
150	Data Structures Lab	Employability
151	Database Management System Lab	Employability
152	Unix & Shell Programming	Employability
153	Design and Analysis of Algorithm	Employability

Department: Computer Engineering and Applications

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (2016-17)

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill
154	Computer Networks	Employability
155	Internet & Java Programming	Employability
156	Unix & Shell Programming Lab	Employability
157	Design and Analysis of Algorithm Lab	Employability
158	Java Programming Lab	Employability
159	Mini Project – II	Employability/Skill Development
160	Information Retrieval System	Employability
161	Soft Computing	Employability
162	Digital Image Processing	Employability
163	Management Information System	Employability
164	Data Compression	Employability
165	E-Commerce	Employability
166	Service Oriented Architecture	Employability
167	Mobile Application Development	Employability
168	Web Technology	Employability
169	Distributed System	Employability
170	.Net framework using C#	Employability
171	Web Technology Lab	Employability
172	.Net framework Lab	Employability
173	Mini Project III	Employability/Skill Development
174	Seminar	Skill Development
175	Industrial Training	Employability/Skill Development
176	Data Mining & Warehousing	Employability
177	Cloud Computing	Employability
178	Mobile Computing	Employability
179	Agile Software Development	Employability
180	Cryptography & Network Security	Employability
181	Software Project Management	Employability
182	Artificial Intelligence	Employability
183	Business Intelligence	Employability
184	Theory of Computation	Employability
185	Software Engineering Methodologies	Employability
186	Advanced Concepts in Data Mining	Employability
187	Advanced Concepts in Networking	Employability
188	Probability and Stochastic Processes	Employability
189	Advanced Concepts in Networking Lab	Employability
190	Mobile Ad-hoc Networks	Employability
191	Intelligent Systems	Employability
192	Information Retrieval	Employability

Department: Computer Engineering and Applications

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (2016-17)

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill
193	Image Processing and Analysis	Employability
194	Design of Distributed Systems	Employability
195	Image Processing and Analysis Lab	Employability
196	Computer Vision	Employability
197	Wireless Sensor Networks	Employability
198	Software and Service Oriented Architecture	Employability
199	Pattern Recognition	Employability
200	High Performance Computing	Employability
201	Web Mining	Employability
202	Dissertation - I	Skill Development
203	Dissertation - II	Skill Development
204	Engineering Physics	Employability
205	Engineering Chemistry	Employability
206	Engineering Physics Lab	Employability
207	Engineering Chemistry Lab	Employability
208	Electrical Engineering	Employability
209	Electronics Engineering	Employability
210	Electrical & Electronics Engineering	Employability
211	Research Methodology	Employability/Skill Development