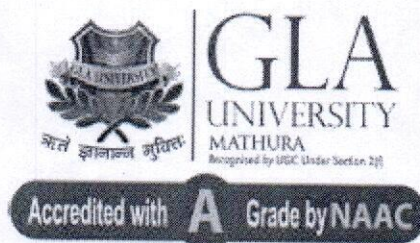# MINUTES OF 13th MEETING

OF

BOARD OF STUDIES (BOS)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

(INSTITUTE OF ENGINEERING & TECHNOLOGY)

GLA
UNIVERSITY
MATHURA
Recognised by UGC Under Section 2(f)

Accredited with **A** Grade by NAAC

JUNE 11, 2020

Department of Electronics & Communication Engineering

Minutes of the meeting of the Board of Studies

The thirteenth meeting of the Board of Studies of Department of Electronics & Communication Engineering was held on June 11, 2020 at 11:00 AM in the Department of Electronics & Communication Engineering. Following members attended the meeting.

a) Members of the Department:

Prof. V. K. Deolia
Prof. Vishal Goyal
Prof. Atul Bansal
Mr. Abhay Chaturvedi
Dr. Aasheesh Shukla
Dr. Vinay Kumar Tomar
Mr. Anjan Kumar
Dr. Manish Gupta
Mr. Paresh Chandra Sau
Mr. Manish Kumar
Mr. Devendra Kumar
Mr. Shelesh Krishna Saraswat

b) Co-opted member from other Department

Prof. Ashish Sharma

Agenda Item-13.1: To confirm the minutes of the 12th Board of Studies meeting Studies held on May 11, 2019

The minutes of the meeting of 12th BoS held on May 11, 2019 were implemented.

Agenda Item-13.2: To report the action taken on the minutes of 12th meeting of Board of Studies held on May 11, 2019

Approved by Academic Council and implemented. No action pending.

Agenda Item-13.3: Based on the feedback received from students, faculty, employers & alumni the revision/ upgradation/ modification in syllabus of existing courses in various programmes is proposed as follows:

rogramme	No. of courses under consideration for revision	Name of courses under consideration for revision
B.Tech (Electronics & Communication Engineering)	10	• *Long Term Evolution,* • *Bio-Medical Signal Processing,* • *Speech Processing,* • *Micro and Nano Devices* • *Spread Spectrum System,* • *Satellite Communication,* • *Digital Control System,* • *Integrated Circuit Technology,* • *Adaptive Control,* • *Information Theory and Coding,*
M.Tech. (Electronics & Communication Engineering)	1	• *Intelligent Systems and Control*

Members considered and approved the same.   (Annexure I)

Agenda Item-13.4: Based on the feedback of various stake holders (faculty, alumni, corporate and students) department presented details of new courses to be introduced. After through discussion board approves the same.   (Annexure-II)

Agenda Item-13.5. To consider & approve the list of courses having focuses on Employability/Entrepreneurship/Skill Development
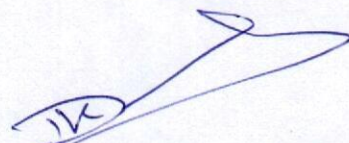
The members considered and approved the list of courses having focuses on Employability/Entrepreneurship/Skill Development in relevant programme.

(Annexure-III)

Agenda Item-13.6. To consider and approve modification in one course and to introduce one new course in PhD Programme, as recommended by the Research Cell of the University

Research Cell of the University recommended modification in the Syllabus of "Research Methodology" Course as well as recommended to introduce "Research and Publication Ethics" course in PhD Programme from the Session 2020-21.

Syllabi of both the courses were duly considered by the board and subsequently approved.

Prof. (Dr.) Vinay Kumar Deolia
Head, ECE & Chairman, BOS

Head of Department
Electronics & Communication Engg.
GLA University, Mathura

Enclosures.: As above

CC : PA to Chancellor for kind information of the Chancellor
PA to Pro-Chancellor for kind information of the Chancellor
PA to Vice Chancellor for kind information of the Vice- Chancellor
PA to Pro-Vice Chancellor for kind information of the Pro-Vice Chancellor
Registrar
Dean Academics
Controller of Examination
Members of the Board of Studies

Annexure : III

Department of Electronics & Communication Engineering

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department

Session : 2020-21

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
1	Engineering Mathematics-I	Employability
2	Engineering Physics	Employability
3	Engineering Physics Lab	Skills development
4	Engineering Mathematics-II	Employability
5	Engineering Chemistry	Employability
6	Engineering Chemistry Lab	Skills development
7	Basic Mechanical Engineering	Employability
8	English Language Skills for Communication – I	Skills development
9	Electronics Engineering	Employability
10	Electronics Lab-I	Skills development
11	Electronics Simulation Lab	Skills development
12	Engineering Workshop Practice Lab	Skills development
13	Engineering Drawing Lab	Skills development
14	English Language Lab I	Skills development
15	Computer Programming	Employability
16	Basic Electrical Engineering	Employability
17	English Language Skills for Communication-II	Skills development
18	Electrical Engineering Lab	Employability and Skills Development
19	Digital Electronics	Employability
20	Computer Programming Lab	Employability and Skills Development
21	English Language Lab – II	Skills development
22	Digital Electronics Lab	Employability and Skills Development
23	Engineering Mathematics-III	Employability
24	Network Analysis and Synthesis	Employability
25	Electromagnetic Field Theory	Employability
26	Solid State Devices and Circuits	Employability
27	Signals and Systems	Employability
28	Microprocessors and Applications	Employability
29	Microprocessors Lab	Employability and Skills Development
30	Analog Integrated Circuits	Employability
31	Electronics Lab-II	Employability and Skills Development
32	Control Systems	Employability
33	Control Systems Lab	Employability and Skills Development
34	Communication Engineering	Employability
35	Communication Engineering Lab	Employability and Skills Development
36	Digital Communication	Employability
37	Digital Communication Lab	Employability and Skills Development
38	Digital Signal Processing	Employability

Department of Electronics & Communication Engineering
List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department
Session : 2020-21

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
39	Digital Signal Processing Lab	Employability and Skills Development
40	VLSI Design	Employability
41	CAD of Electronics Lab	Employability and Skills Development
42	Simulation Lab-II	Skills development
43	Random Variables and Stochastic Processes	Employability
44	Antenna & Wave Propagation	Employability
45	Data Communication and Networks	Employability
46	Microwave Engineering	Employability
47	Microwave Lab	Employability and Skills Development
48	Optical Communication	Employability
49	Optical communication Lab	Employability and Skills Development
50	Wireless Communication	Employability
51	Information Theory & Coding	Employability
52	Multicarrier Communication	Employability
53	Multicarrier Communication Lab	Employability and Skills Development
54	Multicarrier Communication Projects	Employability and Skills Development
55	Spread Spectrum System	Employability
56	Satellite Communication	Employability
57	Long Term Evolution	Employability
58	Fundamentals of Digital Image Processing	Employability
59	Digital Image Processing	Employability
60	Digital Image Processing Lab	Employability and Skills Development
61	Digital Image Processing Project	Employability and Skills Development
62	Bio-Medical Image Processing	Employability
63	Analog Signal Processing	Employability
64	Adaptive Signal Processing	Employability
65	Bio-Medical Signal Processing	Employability
66	Bio-Medical Signal Processing Lab	Employability and Skills Development
67	Speech Processing	Employability
68	Speech Processing Lab	Employability
69	Fundamentals of HDL Programming	Employability
70	Digital System Design using HDL	Employability
71	Digital System Design using HDL LAB	Employability and Skills Development
72	Digital System Design using HDL PROJECT	Employability and Skills Development
73	Analog VLSI Design	Employability

Department of Electronics & Communication Engineering

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department

Session : 2020-21

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
74	VLSI Testing And Testability	Employability
75	Integrated Circuit Technology	Employability
76	Fundamentals of Low-Power VLSI Circuits and Systems	Employability
77	Low-Power VLSI Circuits and Systems	Employability
78	Low-Power VLSI Circuits and Systems Lab	Employability and Skills Development
79	Low-Power VLSI Circuits and Systems Project	Employability and Skills Development
80	Fundamentals of RF Integrated Circuits	Employability
81	RF Integrated Circuits	Employability
82	RF Integrated Circuits Lab	Employability and Skills Development
83	RF Integrated Circuits Project	Employability and Skills Development
84	Micro and Nano devices	Employability
85	Electronic Instruments and Measurements	Employability
86	Microcontrollers and Embedded Systems	Employability
87	Embedded Systems Design	Employability
88	Embedded Systems Lab	Employability and Skills
89	Embedded Systems Project	Employability and Skills Development
90	Intelligent System	Employability
91	Industrial Process Control	Employability
92	Industrial Process Control Lab	Employability and Skills Development
93	Industrial Process Control Project	Employability and Skills Development
94	Digital Control System	Employability
95	Modern control system	Employability
96	Industrial Automation	Employability
97	PLC Automation Lab	Employability and Skills Development
98	Adaptive Control	Employability
99	Mini Project-I	Employability and Skills Development
100	Mini Project-II	Employability and Skills Development
101	Mini Project-III	Employability and Skills Development
102	Industrial Training	Skills development
103	English for Professional Purpose– I	Skills development
104	English for Professional Purpose– II	Skills development
105	Soft Skills-I	Skills development
106	Soft Skills-II	Skills development
107	Soft Skills-III	Skills development
108	Soft Skills-IV	Skills development

Department of Electronics & Communication Engineering

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department
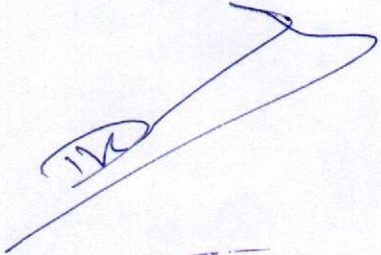
Session : 2020-21

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
109	Elements of soft computing	Employability
110	Elements of soft computing lab	Employability and Skills Development
111	Non-Conventional Energy Resources	Employability
112	Mechatronics	Employability
113	Smart Industrial Connectivity	Employability
114	Data Sciences and Analytics	Employability
115	Essentials of Information Technology	Employability
116	Information Technology Lab	Employability and Skills Development
117	IIOT Communication & Standard Interface	Employability
118	Data Structures and Applications	Employability
119	Data Structures and Applications Lab	Employability and Skills Development
120	Advanced Microprocessor	Employability
121	Adaptive Signal Processing	Employability
122	Communication Techniques	Employability
123	CMOS Analog IC Design	Employability
124	Digital Hardware Design	Employability
125	Image Processing	Employability
126	Signal Processing Lab	Skills development
127	Communication Lab	Skills development
128	Low Power VLSI Design	Employability
129	Intelligent Systems and Control	Employability
130	RF and Microwave Techniques	Employability
131	HDL Programming Lab (MEC2085)	Employability
132	RF and Microwave Design Lab	Employability and Skills Development
133	Minor Project	Employability and Skills Development
134	Seminar	Skills development
135	Dissertation-I	Employability and Skills Development
136	Dissertation- II	Employability and Skills Development
137	Information Theory and Coding	Employability
138	Embedded Systems	Employability
139	Application Specific Integrated Circuits	Employability
140	Optimal Control System	Employability
141	Satellite Communication	Employability
142	Advanced Data Network	Employability
143	Speech Processing	Employability
144	CMOS RF Integrated Circuits	Employability
145	Optoelectronic Devices	Employability
146	VLSI Testing and Testability	Employability
147	Biomedical Signal Processing	Employability

Department of Electronics & Communication Engineering
List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department

Session : 2020-21

S.No.	Name of the Course	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
148	Wireless Communication and Networks	Employability
149	CAD for VLSI Circuits	Employability
150	Dissertation-I	Employability and Skills Development
151	Dissertation- II	Employability and Skills Development
152	Research Methodolgy	Employability
153	Memory Design and Testing	Employability
154	Research and Publication Ethics	Employability

Head of Department
Electronics Communication Engg.
GLA Mathura