MINUTES OF 4TH MEETING OF **BOARD OF STUDIES (BOS)**

DEPARTMENT OF ELECTRICAL ENGINEERING
(INSTITUTE OF ENGINEERING & TECHNOLOGY)

GLA UNIVERSITY
MATHURA
Recognised by UGC Under Section 2(f)
Accredited with A Grade by NAAC

JULY 15, 2018

GLA UNIVERSITY MATHURA
Accredited with A Grade by NAAC

Department of Electrical Engineering
(Institute of Engineering and Technology)

Proceedings of the 4th meeting of Board of Studies (BOS) of the Department of Electrical Engineering held on July 15, 2018 at 11.0 am in the Department Library Room No. 4001AB-II

The 4th meeting of Board of Studies (BOS) (Internal/External Members) of Department of Electrical Engineering was convened on July 15, 2018 at 11.0 am in Department library Room No. 4001, Academic Block – II to discuss various agenda items.

The following were present in the meeting:

1. Dr. Sanjay Mayura (Chairman)
   Associate Professor & Head In Charge Department of Electrical Engineering
   IET GLAU Mathura

External Expert Members -

2. Prof. V. Prem Pyara
   Emeritus professor Electrical Engineering Department
   Dayalbag Educational Institute Agra.U.P.

3. Prof. R. P. Maheshwari
   Professor Electrical Engineering Dept. IIT Roorkee
   Presently on Deputation as -
   Director RKGIT Ghaziabad U.P

4. Mr. Aashish Bansal
   DGM (Electrical) Dangote Industries Ltd
   Gurgaon, India

Regular Faculty of the Department of EE

5. Dr. Anwaruddin Anwar
   Professor
   Department of Electrical Engineering IET GLAU Mathura

6. Prof. Shamshuddin Ahamad
   Professor

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7. Mr. Subhash Chandra
   Assistant Professor EE Department IET GLAU Mathura

8. Mr. ApoovaSaxena
   Assistant Professor EE Department IET GLAU Mathura

9. Mr. Shakti Singh Soni
   Assistant Professor EE Department IET GLAU Mathura

10. Mr. RavishankarTiwari
    Secretary BoS EED
    Assistant Professor EE Department IET GLAU Mathura

11. Mr. Ram Naresh Mishra
    Assistant Professor EE Department IET GLAU Mathura

12. Mr. Vinay Dwivedi
    Assistant Professor EE Department IET GLAU Mathura

13. Mr. PrashantPrakash
    Assistant Professor EE Department IET GLAU Mathura

The following members could not attend the meeting because of their preoccupations

1. SanjoyBarua
   Vice President - Product Management and Customer Experience
   Simpa Networks (Simpa Energy India)
   Gurgaon, India

2. HimanshuKatiyar
   Assistant Director at
   Central Electricity Authority, Ministry of Power

3. Mr. AbhayChaturvedi (Co-opted member from other department)
   Associate Professor Dept. of Electronics & Communication Engineering IET GLAU Mathura

The chairman extended warm welcome to all the members present & apprised them about the proposal to start Choice Based Credit System (CBCS) in Electrical Engineering w.e.f. 2017.

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The following are the proceedings of the meeting –

ITEM NO. 4.1. To confirm the minutes of 3rd BoS, held on May 22, 2017.

ITEM NO. 4.2. To discuss and approve the course structure & credit under CBCS scheme of 1st year & 2nd year B. Tech. EE/EN program w.e.f. 2018. (Annexure I)

The course approved for B. Tech. Ist year students is common course with 6 more credits included for students in Ist year of EE Branch w.e.f. session 2018 (Available at Annexure A1). The Ist year course for batch 2017 was common and already approved and studied by students who are entering into IInd year in 2018. The List of program core (PC) course for session 2017 & 2018 will be similar and approved since these choice based courses will be offered from 2nd year onward.

ITEM NO. 4.3. To consider and approve the syllabi of new courses introduced (programme core courses) in the existing programme of B. Tech. EE and EN, w.e.f. 2018, M.Tech & PhD EE.

Based on the feedback of various stakeholders (Faculty, Alumni, Corporate and students) department presented details of new courses to be introduced. After thorough discussion Board approved the same. (Annexure II)

ITEM NO. 4.4. To discuss and approve the list of proposed professional elective courses provided for B. Tech EE/EN programs. (Annexure III)

Members pointed out the following comments on the courses of Professional Electives which will be kept in mind at the time of finalizing the same-

a. The prerequisite mentioned in the subject of in all the five bouquet of Power System Group, Instrumentation & Control Group, Machine & Drives Group, Energy System, Electronics & Embedded System Group should be reduced.
b. The course CAPSA(BEEE0036) should require prerequisite as Power System, Power Electronics& The course on FACTS & HVDC should have prerequisite PSA & PE.
c. No prerequisite is required in Instrumentation and Control (I&C) bouquet.
d. The new course Mechatronics & Smart Instrumentation has suggested being included in the elective list of I&C.
e. Suggested to Include Intellectual Property Right (IPR) as an open elective for EE students offered by MBA or LAW Department.
f. Computer Aided Electric Machine Design should require L-T-P:3-1-0 instead of lab in CAEMD. So lab will be removed and tutorial will be added in it.

ITEM No. 4.5. To consider and approve the syllabi of new courses introduced for existing M. Tech. programme (Programme core courses) as per CBCS scheme.
Based on the feedback of various stakeholders (Faculty, Alumni, Corporate and students) department presented details of new courses to be introduced. After thorough discussion Board approved the same. (Annexure IV)

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ITEM NO. 4.6. The external experts offer the following comments -

a. We should see the practical approach apart from theoretical approach.
b. We should have a proper & well define mechanism for evaluation of Project Work since the credits of project is very high
c. The students must have knowledge of DSP & Artificial intelligence so may be included a subject on "Smart Instrumentation" which should include AI.
d. Attendance for B.Tech & M.Tech. Project Work should be compulsory.

ITEM No. 4.7. To consider and approve courses recommended by Training & Development Department.

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

ITEM No. 4.8. The BoS suggested and approved the skill development, Entrepreneurship/ Employability courses in UG and PG programs. (Annexure V)

i. The members consider and approve the same
ii. The details are attached in the Annexure V

The meeting ends with the vote of thanks to the chair.

Dr. Sanjay Kumar Maurya

(Incharge EED)

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

ANNEXURE V

List of courses having focus on employability/ entrepreneurship/ skill development offered by the Department (session 2018-19)

S.No.	Name of the Course	Focus on Employability/ Entrepreneurship/ Skill development
1	Field Theory & Applications	Employability
2	Basic System Analysis	Employability
3	Engineering Circuit Analysis & Synthesis	Employability
4	Electrical Measurement & Measuring Instruments	Employability
5	Analog Integrated Circuit	Employability
6	Digital Electronics & Circuits	Employability
7	Electrical Machines – I	Employability
8	Electrical Machines – II	Employability
9	Control System	Employability
10	Network Lab	Employability
11	Electrical Measurement Lab	Employability
12	Analog & Digital Electronics Lab	Employability
13	Electrical Machines Lab – I	Employability/ Skill development
14	Electrical Machines Lab – II	Employability
15	Control System Lab	Employability
16	Electrical Machine & Automatic Control	Employability/ Skill development
17	Electrical Machines & Automatic Control Lab	Employability
18	Non-Conventional Energy Resources	Employability
19	Electrical Machines-II	Employability
20	Power System-I	Employability
21	Control System	Employability/ Skill development
22	Digital Electronics	Employability
23	Control System Lab	Employability
24	Electrical Machines Lab-II	Employability
25	Power Electronics	Employability
26	Power System-II	Employability
27	Electrical Power Generation	Employability/ Skill development
28	Microprocessor	Employability/ Skill development
29	Power electronics Lab	Employability/ Skill development

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30	Power System Lab	Employability
31	Microprocessor Lab	Employability
32	Switchgear & Protection	Employability
33	Power system Operation & Control	Employability
34	Advance Control System	Employability
35	Power Quality in Power distribution Systems	Employability
36	Digital Signal Processing	Employability
37	Special electric machines	Employability
38	Restructured Power System	Employability
39	Bio medical Signal Processing	Employability
40	High Voltage Engineering	Employability
41	Artificial intelligence & its applications to power system	Employability
42	Power System Dynamics & Stability	Employability
43	Smart Grid	Employability
44	Digital Control System	Employability
45	Utilization of Electric power & traction	Employability
46	Bio-medical Instrumentation	Employability
47	Analog & Digital Comm.	Employability
48	Digital image processing	Employability
49	Digital electronics Lab	Employability
50	Power System Analysis & Protection	Employability
51	Analog & Digital Communication	Employability/ Skill development
52	Power System & Protection Lab	Employability
53	Electric Drives	Employability/ Skill development
54	Electric Drives Lab	Employability
55	Minor Project	Employability
56	Digital Signal Processing Lab	Employability
57	Industrial Training	Employability
58	Electrical Instrumentation & Process Control	Employability/ Skill development
59	Antenna & Wave Propagation	Employability/ Skill development
60	Electrical Instrumentation Lab	Employability
61	Project	Employability/ Skill development
62	Microwave Engineering	Employability
63	Satellite Communication	Employability
		Employability/ Skill development

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64	Computer Aided Power system analysis	Employability
65	Power system Dynamics & Control	Employability/ Skill development
66	Advanced Electric Drives	Employability
67	Power Electronic Devices & Converters	Employability
68	Optimization Techniques	Employability
69	Advanced Simulation Lab.	Employability
70	Analog & digital control system	Employability
71	Advanced Power System Operation & Control	Employability
72	Microcontroller and Application	Employability
73	Minor Project	Employability
74	Advanced Power Electronics	Employability
75	HVDC Transmission & Flexible AC transmission systems	Employability
76	Solid State Control of Electric Drives	Employability
77	Power electronic circuit modeling & Simulation	Employability
78	Power quality and conditioning	Employability
79	Electrical Insulation in Power apparatus & systems	Employability
80	Power System Transients	Employability
81	Advance Protective Relaying	Employability
82	Dissertation-I	Employability
83	Dissertation-II	Employability
84	Introduction To Hybrid & Electric Vehicles	Employability/ Skill development
85	High performance AC Drives	Employability/ Skill development
86	Renewable & Distributed generation systems	Employability/ Skill development
87	Industrial drives & Automation	Employability/ Skill development
88	Power system Transients	Employability/ Skill development
89	Advanced Protective Relaying	Employability
90	Advanced Power Electronics	Employability
91	Power quality and conditioning	Employability
92	Basic Electrical Engineering	Employability
93	Electrical Engineering Lab	Employability
94	Basic Mechanical Engineering	Employability
95	Engineering Drawing	Employability
96	Electrical Simulation Lab	Employability
97	English Language Lab I	Employability

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98	Computer Programming	Employability
99	Electronics Engineering	Employability/ Skill development
100	Electrical Technology	Employability
101	Electrical technology Lab	Employability
102	Electronics Lab – I	Employability
103	Computer programming lab	Employability/Skill development
104	Engineering Mathematics – I	Employability/Skill development
105	English Language Skills For Communication I	Employability/Skill development
106	Engineering Physics	Skill development
107	Engineering Physics Lab	Skill development
108	Engineering Mathematics – II	Skill development
109	English Language Skills For Communication – II	Skill development
110	Engineering Chemistry	Skill development
111	English Language Lab – II	Skill development
112	Engineering Chemistry Lab	Skill development
113	English For Professional Purposes - I	Skill development
114	Engineering Mathematics – III	Skill development
115	Soft Skills-I	Skill development
116	Basic Course in Entrepreneurship	Skill development
117	English For Professional Purposes – II	Skill development
118	Soft Skills-II	Skill development
119	Power System Dynamics	Skill development
120	Optimization Techniques	Entrepreneurship
121	Research Methodology	Skill development

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