

**MINUTES OF 2<sup>nd</sup> MEETING  
OF  
BOARD OF STUDIES (BOS)**

**DEPARTMENT OF ELECTRICAL  
ENGINEERING  
(INSTITUTE OF ENGINEERING &  
TECHNOLOGY)**



**MAY 21<sup>ST</sup>, 2016**





## Department of Electrical Engineering

### Minutes of the 2<sup>nd</sup> Meeting of Board of Studies held on May 21<sup>st</sup>, 2016

#### Minutes of the second meeting of boards of studies

A meeting of Board of studies of Electrical Engineering Department was held on May 21, 2016 at 11:00 am in the Departmental library AB-II, GLA University Mathura. The following BOS members were present:

Members Present:

- |                           |  |
|---------------------------|--|
| 1. Prof. R. P. Maheshwari | External Expert , Director RKGIT Ghaziabad |
| 2. Prof. Anwaruddin Anwar | Retired professor AMU, Aligarh             |
| 3. Dr. Sanjay Maurya      | Chairperson & In-charge of Department      |
| 4. Prof. S Basu           | Member                                     |
| 5. Mr. Abhaychaturvedi    | Co-opted member from other department      |
| 6. Mr. subhash Chandra    | Member                                     |
| 7. Mr. ApoorvaSaxena      | Member                                     |
| 8. Mr. RavishankarTiwari  | Member                                     |

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

#### **Minutes of the meeting:**

**Item No. 2.1:** To confirm the minutes of 1<sup>st</sup> BoS, held on June 16, 2015

**Item No. 2.2:** To discuss and approve the revised syllabi of B.Tech EE & EN courses on the basis of feedback received from various stackholder (faculty, students, alumni and employer).

Programme	No. of courses under consideration for revision	Name of course under consideration for revision
B. Tech. Electrical Engineering/B.Tech. Electrical & Electronics Engineering	02	<ul style="list-style-type: none"><li>Control System</li><li>Electrical Machines-II</li></ul>
B.Tech. Electrical & Electronics Engineering	01	<ul style="list-style-type: none"><li>Power System Analysis &amp; Protection</li></ul>

The revised courses have been discussed thoroughly; the following points are suggested by the external experts of BoS.

(Available at Annexure I)

- The expert members suggested to include the contents related to single phase such as starting methods, working and construction principle and application of single phase induction motor in the “**Electrical Machines-II**”. Thus the syllabus of Electrical machines II is revised accordingly.
- It is recommended to introduce the working concept of servo motor, synchros and stepper motors in the syllabus of “**Control system**”. Thus, the syllabus is revised accordingly.

  
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- c. It is recommended to swap the Module-I of “Power System Analysis & Protection” from the Module-III of Elements of Power System.
- d. The courses of Lab Digital Electronics, Electric machine- lab are reviewed and minor changes are suggested by the members.

**Item No.2.2:** To discuss and approve the course structure of B.Tech. Energy Systems.

Experts give their view on change & addition in some subjects. The course will be run by the department in the coming session. (Available at Annexure II)

- a. It is recommended to add subjects on Power Plant Engineering, Energy Audit, and Energy Policy.
- b. It is viewed there is one theory paper on Power System. It was suggested to include two theory papers on power system & to remove the ADC Lab (ECE389).

**Item No. 2.3:** To discuss and approve the course prepared for M.Tech. Energy system.

Experts give their views on changes and addition of subjects. The course will be started by the department from the coming session.

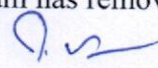
**Item No. 2.4:** To discuss and approve the inclusion of the course structure of English for professional purposes EPP-I & EPP-II in III & IV semester, respectively

With increase in the credits of soft skill of B.Tech 3<sup>rd</sup> year EE & EN for session 2015-16 only, was presented & discussed with the members. Due to increase in credits of soft skill-III & soft skill-IV the new code of this subject will be AHE383 & AHE483 respectively.

**Item No. 2.5:** To discuss and revised course structure of B.Tech EE & EN for II, III, & IV year w.e.f. from session 2015-16. (Available at Annexure III)

The course w.e.f. from session 2015-16 onwards to accommodate EPP-I (AHE3083), EPP-II (AHE4083) & increase in the credits of soft skill-III (AHE5081) & soft skill-IV (AHE6081) was presented & discussed. In order to balance the total credits & contact hours the incorporated changes are as follows:

- a. With the inclusion of EPP-I (AHE3083) & EPP-II (AHE4083) are added to III & IV semesters respectively so the total credits become 28 in each semester for B.Tech EE & 29 in each semester for B.Tech EN.
- b. In order to accommodate the 4 credits of soft skill-III (AHE5081), the Industrial Management (MBA5034) of V semester is shifted to VII semester for B.Tech EE & EN.
- c. In order to accommodate the 4 credits of soft skill-IV (MBA6081) the Industrial Economics (MBA5031) is dropped from VI semester for B.Tech EE.
- d. In order to accommodate the 4 credits of soft skill-IV (MBA6081), the Industrial Economics (MBA5031) & ADC Lab (ECE6091) are dropped from VI semester for B.Tech EN.
- e. It was discussed that due to increase in credits of soft skill the Colloquium has removed from VII semester for both B.Tech EE & EN.

  
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**Item No. 2.6:** To discuss and approve the renaming of few B.Tech. EE and M.Tech. EE courses as follows: (Annexure IV)

- a. Network Analysis & Synthesis is renamed as Engineering Circuit Analysis & Synthesis (EEE 4001)
- b. Fundamental of Electric Drives is renamed as Advanced Electric Drives (MEN 1003)
- c. Power System Operation & Control (MEN 2002) is renamed as Advanced Power System Operation & Control (MEN 2002)
- d. Power System Dynamics & Stability (MEN 1002) is renamed as Power system Dynamics (MEN 1002)
- e. Simulation Lab (MEN1081) is renamed as Advanced Simulation lab (MEN1081)

**Item No. 2.7:** To consider and approve courses recommended by Training & Development Department.

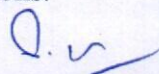
Training & Development Department of the University recommended to get the syllabi of few courses approved in the Board of Studies Meeting of the department. Same was presented in front of the board. After due discussions, the board approved the same whose details are as follows:

Year & Semester	Code & Title of the Course
II Year, III Sem	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

**Item No. 2.8:** The BoS suggested and approved the skill development, Entrepreneurship/Employability courses in UG and PG programs. (Annexure V)

- a. The members consider and approve the same
- b. The details are attached in the Annexure V

The In-charge/HoD of the department thanks the members of BOS for their effort and suggestions.



**(Dr. Sanjay Kumar Mayura)**  
In-Charge, EED

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



# **ANNEXURE V**



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

<b>S.No.</b>	<b>Name of the Course</b>	<b>Focus on Employability/ Entrepreneurship/ Skill development</b>
1	Electrical Circuit Theory	Employability
2	Electrical & Electronics Measurement & instruments	Employability
3	Electrical & Electronics Engineering Materials	Employability
4	Electric Circuit Lab	Employability, Skill development
5	Electrical & Electronics Measurement & Instruments Lab	Employability, Skill development
6	Simulation Lab-I	Employability
7	Engineering Circuit Analysis & Synthesis	Employability
8	Analog Electronics	Employability
9	Electrical Machines-I	Employability
10	Basic System Analysis	Employability
11	Simulation Lab-II	Employability, Skill development
12	Analog Electronics Lab	Employability, Skill development
13	Electrical Machines Lab-I	Employability
14	Electrical Machines-II	Employability
15	Power System-I	Employability
16	Control System	Employability
17	Digital Electronics	Employability
18	Digital electronics Lab	Employability, Skill development
19	Control System Lab	Employability
20	Electrical Machines Lab-II	Employability, Skill development
21	Power Electronics	Employability
22	Power System-II	Employability
23	Electrical Power Generation	Employability
24	Microprocessor	Employability, Skill development
25	Power electronics Lab	Employability
26	Power System Lab	Employability
27	Microprocessor Lab	Employability
28	Switchgear & Protection	Employability, Skill development
29	Electric Drives	Employability

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


30	Electric Drives Lab	Employability
31	Switchgear & protection Lab	Employability, Skill development
32	Electrical Instrumentation & Process Control	Employability
33	Power system Operation & Control	Employability
34	Electrical Instrumentation Lab	Employability, Skill development
35	Digital Control System	Employability
36	Power System Dynamics & Stability	Employability
37	Digital Signal Processing	Employability
38	Special electric machines	Employability
39	Advance Control System	Employability
40	Utilization of Electric power & traction	Employability
41	Bio-medical Instrumentation	Employability
42	Smart Grid	Employability
43	Bio medical Signal Processing	Employability
44	High Voltage Engineering	Employability
45	Artificial intelligence & its applications to power system	Employability
46	Telemetry & Data Transmission	Employability
47	Industrial instrumentation	Employability
48	Restructured Power system	Employability
49	Power Quality in Power distribution Systems	Employability
50	Energy Conservation & Management	Employability
51	Non-Conventional Energy Resources	Employability
52	Instrumentation	Employability
53	Minor Project	Employability, Skill development
54	Major Project	Employability, Skill development
55	Industrial Training	Employability
56	Computer aided Power system analysis	Employability
57	Power system Dynamics	Employability
58	Advanced of Electric Drives	Employability
59	Power Electronic Devices and Converters	Employability
60	Optimization Techniques	Employability
61	Advanced Simulation Lab.	Employability, Skill development
62	Analog & digital control system	Employability
63	Advanced Power System Operation & Control	Employability

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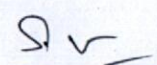


64	Microcontroller and Application	Employability
65	Power quality and conditioning	Employability
66	Electrical Insulation in Power apparatus & systems	Employability
67	HVDC Transmission & Flexible AC transmission systems	Employability
68	Power System Transients	Employability
69	Advance Protective Relaying	Employability
70	Smart grid and phasor Measurement Techniques	Employability
71	EHV/UHV power transmission engineering	Employability
72	Power System Restructuring & Deregulation	Employability
73	Power system Planning & Reliability	Employability
74	Advanced Power Electronics	Employability
75	Solid State Control of Drives	Employability
76	Power electronic circuit modeling & Simulation	Employability
77	Introduction to Hybrid & Electric Vehicles	Employability
78	High performance AC Drives	Employability
79	Renewable & Distributed generation systems	Employability
80	Industrial drives & Automation	Employability
81	Desertation I	Employability
82	Desertation II	Employability, Skill development
83	Engineering Mathematics- I	Skill development, Skill development
84	Engineering Physics	Skill development
85	Engineering Chemistry	Skill development
86	Fundamentals of Computer and Programming	Employability, Skill development
87	Basic Mechanical Engineering	Skill development
88	Applied Mechanics	Skill development
89	Electrical Engineering	Skill development
90	Electronics Engineering	Skill development
91	English Language Skills for Communication - I	Employability
92	English Language Lab - I	Employability
93	Engineering Drawing	Skill development
94	Computer Programming Lab - I	Skill development
95	Electrical & Electronics Lab	Employability, Skill development
96	Applied Mechanics Lab	Skill development
97	Engineering Mathematics-II	Skill development

  
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98	Problem Solving using Computers	Employability, Skill development
99	English Language Skills for Communication - II	Skill development
100	English Language Lab – II	Skill development
101	Engineering Chemistry Lab	Skill development
102	Engineering Physics Lab	Skill development
103	Computer Programming Lab - II	Employability, Skill development
104	Introduction to Entrepreneurship	Employability, Skill development
105	Industrial Economics	Entrepreneurship, Skill development
106	Soft skill I	Entrepreneurship, Skill development
107	Soft skill II	Skill development
108	Soft skill III	Skill development
109	Soft skill IV	Skill development
110	Mathamatics III	Skill development
111	Research Methodology	Skill development
112	Intelligent system & Control	Employability, Skill development

  
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