# Department of ELECTRICAL ENGINEERING

## Departmental council/ board of studies meeting for A.Y. 2019-20

## 21st June, 2019

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**Members present:**

**Department of ELECTRICAL ENGINEERING**
**School of ENGINEERING AND TECHNOLOGY**
**Adamas University**

**Minutes of the Board of Studies (BOS)/ Departmental Council (DC) Meeting**

**21/06/2019**

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### MemBERS PRESENT:

| S. No. | Name of the Member | Designation |
|---|---|---|
| 1 | Professor (Dr.) Anish Deb | Professor & Head/EE (Chairman) |
| 2 | Dr. Srimanti Roychoudhury | Associate Professor, Dept. of Electrical Engg. |
| 3 | Mr. Titas Kr. Nag | Assistant Professor, Dept. of Electrical Engg. |
| 4 | Mr. Avik Datta | Assistant Professor, Dept. of Electrical Engg. |
| 5 | Ms. SunamSaha | Assistant Professor, Dept. of Electrical Engg. |
| 6 | Mr. Bodhisatwa Bhattacharya | Assistant Professor, Dept. of Electrical Engg. |
| 7 | Mr. Pradipta Ghosh | Assistant Professor, Dept. of Electrical Engg. |

**Minutes of the Board of Studies (BOS)/ Departmental Council (DC) Meeting**

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Prof. (Dr.) Anish Deb, Head, Dept. of Electrical Engineering, discussed the following agenda in presence of all the Board of Studies members.

**Item. 1: Revisiting and Revision of undergraduate programme B. Tech. (Electrical Engineering) focusing on Employability, Entrepreneurship and Skill development.**

Following courses are newly added in the proposed course structure.

| Subject code | Subject Name |
|---|---|
| EMC41201 | Communication and Collaboration Skill – I |
| HEN41119 | HSSM – II (Engineering Ethics, Values and the Laws) |
| EME41102 | Engineering Mechanics |
| HEN41212 | HSSM – III (Professional Communication in English) |
| EME41202 | Engineering Workshop |
| EMC41202 | Communication and Collaboration Skill – II |
| SMA42109 | Engineering Mathematics – III (Transform Calculus and Special Functions) |
| HEC42180 | HSSM – IV (Economics for Engineers) |
| EEE42101 | Electric Circuits |
| EEE42103 | Electrical and Electronic Measurement |
| EEE42105 | Electrical Machine – I |
| EEE42201 | Electric Circuits Lab |
| EEE42203 | Electrical and Electronic Measurement Lab |
| EEE42205 | Electrical Machine – I Lab |
| EMC42101 | Design Thinking for Engineers |
| SET42403 | Capstone Project-A |
| SMA42116 | Engineering Mathematics – IV(Numerical Techniques) |
| EEE42302 | Technical Seminar |
| EEE42104 | Microprocessor and Microcontroller |
| EEE42106 | Analog and Digital Electronics |
| SMA42211 | Numerical Methods Lab |
| EEE42204 | Microprocessor and Microcontroller Lab |
| EEE42206 | Analog and Digital Electronics Lab |
| SET42404 | Capstone Project -B |
| SET42406 | Interdisciplinary Project Work |
| EEE43103 | Control Systems |

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|---|---|
| EEE43105 | Power Electronics |
| EEE43107 | Solar Energy Engineering |
| EEE43109 | Electrical Machine Design |
| EEE43111 | Special Electrical Machines |
| EEE43113 | Electromagnetic Field Theory |
| EEE43115 | Electric Vehicle |
| EEE43203 | Control Systems Lab |
| EEE43205 | Power Electronics Lab |
| EEE43207 | Solar Energy Engineering Lab |
| SET43101 | Venture Ideation for Beginners |
| SET43403 | Capstone Project -C |
| EEE43104 | Modern Control Systems |
| EEE43112 | Power Generation Economics |
| EEE43114 | Digital Signal Processing |
| EEE43116 | Sensors and Transducers |
| SGY43113 | Environmental Science |
| EEE43106 | Sustainable Energy |
| EEE43108 | Energy Storage from Renewable Resource |
| EEE43204 | Modern Control Systems Lab |
| EEE43212 | Power Generation Economics |
| EEE43214 | Digital Signal Processing |
| EEE43216 | Sensors and Transducers |
| EEE43206 | Sustainable Energy Lab |
| EEE43210 | Electrical Machine Design Lab |
| MBA43144 | HSSM –V (Industrial Management) |
| EEE44101 | Electric Drives |
| EEE44111 | HVDC Transmission Systems |
| EEE44113 | Power System Dynamics |
| EEE44115 | High Voltage Engineering |
| EEE44103 | Solar Photovoltaic System Design |
| EEE44201 | Electric Drives Lab |
| EEE44203 | Photovoltaic Lab |
| EME44601 | Summer Internship# |
| EME44403 | Minor Project |
| EME44130 | Industrial Design (Online/Offline mode ) |
| EME44602 | Industry Work Experience |
| EME44604 | Scientific Investigation & Research Experience |
| EME44404 | Major Project |
| EME44504 | Specialization Viva Voce |

Following Courses are deleted in the proposed course structure:

| Subject code | Subject Name |
|---|---|
| EEC42107 | Introduction to Electronics |
| EEE42105 | Energy Resources |
| SPH42107 | Introductions to Materials |
| EEC42203 | Introduction to Electronics Lab |
| EEE42203 | Electrical Machines – I Lab |
| SMA42102 | Probability and Statistics (Math) |
| EEC42102 | Digital Electronics |
| EEC42104 | Analog Communication |
| HEC42180 | HSS-IV |
| EEC42202 | Digital Electronics Lab |
| EEC42204 | Analog Communication Lab |
| EEE42204 | Measurements and Instruments Lab |
| EEC43101 | Microprocessors and Microcontrollers |
| SGY43113 | Environmental Science |
| HEC43181 | HSS-V (Financial Accounting ) |
| EEE43103 | Elective – I (Electrical Machine Design) |
| EEE43301 | Seminar |
| -- | Non Credit Course – V |
| EEC43201 | Microprocessors and Microcontrollers Lab |
| EEE43201 | Power System – I Lab |
| EEE43203 | Elective – I (Electrical Machine Design) Lab |
| EME43110 | Thermal Power Engineering (ME) |
| EEE43112 | Elective –II (Sensors and Transducers) |
| EEE43114 | Elective –III (Electromagnetic Field Theory) |
| MBA43144 | Management – I |
| EME43208 | Thermal Power Engineering (ME) Lab |
| EEE43212 | Elective –II (Sensors and Transducers) Lab |
| EEE44101 | Control Systems |
| EEE44103 | Power Electronics |
| EEE44111 | Elective – IV (Power System Analysis and Operation) |
| EEE44113 | Elective –V (Electrical Distribution System) |
| HPS44101 | HSS – VI (Organizational Behavior) |
| EEE44401 | Project –I |
| EEE44201 | Control Systems Lab |
| EEE44203 | Power Electronics Lab |

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|---|---|
| EEE44211 | Elective –IV(Power System Analysis and Operation) Lab |
| EEE44112 | Elective –VI |
| EEE44114 | Elective –VII |
| EEE44116 | Elective –VIII |
| MBA44116 | Management –II |
| EEE44402 | Project –II |
| EEE44502 | Comprehensive Viva |
| EEE44214 | Elective –VII Lab |

**Resolution:** The board unanimously agreed and welcomed the change.

**Item. 2: Introduction and implementation of program M. Tech (Power and Energy Systems).**

**Proposition:** From 2019-20 Academic Year a new Program is being introduced in the department. The new Program is M.Tech (Power and Energy Systems).

**Resolution:** The New Course Structure got approved by the board.

**Item No. 3: Introduction and implementation of AICTE recommended Elective Based Curriculum in the Undergraduate Program B. Tech (Electrical Engineering).**

**Proposition:** The total credits were 196 in the academic year 2017-18. But as per the AICTE guidelines, total credits were reduced over four years and assigned 165 credits for Regular B. Tech program.

**Resolution:** The board accepted the total credit changes unanimously.

**Item No. 4: Removed Compulsory papers from Sem VIII in UG Program B. Tech (Electrical Engineering).**

**Proposition:** Students will be ready to step in to the professional world with transformative educational experience after completing their B. Tech Degree. To fulfill this requirement, students must need to gain their experience either in Industry or in Research field in last semester. These things keep in mind, we have included **Industry work experience** or **Scientific Investigation & Research Experience (SIRE)** in last semester of 2019-20 B. Tech course structure.

**Resolution:** The board had gone through carefully and approved the concept.

**Item No. 5: Miscellaneous**

i)As per requirements External, Internal or Industrial work experience is to be consider as a $8^{th}$ semester Project for B.Tech Students.

ii) It was advised that depending on further requirements, modification to this approved course structure could be done next year.

iii) External members suggested that, it will be better if the internship programs can be done from reputed Industrial organization.

**Resolution:** All members agreed to the points and decided to act accordingly as per approval of the competent authority.

The meeting concluded with a vote of thanks by the Chair

Issued By

**Prof. (Dr.) Anish Deb**

**Head of the Department**
**Department of Electrical Engineering**

**Date: 21-06-2019**