MINUTES

of the ordinary meeting of the Board of Studies of Electrical Engineering Department, Z. H. College of Engineering & Technology held on 26.05.2017 at 11:00 AM in the conference room of the department. The following were present:

1. Prof. Badrul Hasan Khan
2. Prof. Mirza Mohd. Mohsin (Chairman)
3. Prof. Imtiiaz Ashraf
4. Prof. Salman Hameed
5. Prof. Abu Tariq
6. Prof. Hafizur Rahman
7. Prof. Aejaz Masood
8. Mr. Mohammad Ayyub
9. Mr. Zafar Ahmad
10. Mr. Mujib Ullah Zuberi
11. Dr. Mohd. Rihan
12. Dr. M. Saad Alam
13. Dr. Safia Akhtar Kazmi
14. Mr. Mohd. Anas Anees
15. Dr. Adil Sarwar
16. Mr. Faiz Ahmad
17. Mr. Mohammad Zaid
18. Dr. Mohammad Sarfaraz
19. Mr. Saad Bin Arif
20. Mr. Mohd. Tariq
21. Mr. Afroz Alam
22. Mr. Mahboob Hasan
23. Mr. Zeeshan Sarwar
24. Mr. Imran Mushtaq (Co-opted Member)
25. Mr. Saleem Ahmad (Assigned Member)

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<tr>
<th>Item No. 1</th>
<th>Agenda</th>
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<td>Confirmation of the minutes of the following meetings of Board of</td>
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<td>1. Ordinary meeting of BOS held on 20.09.2016</td>
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<td>2. Special meeting of BOS held on 20.10.2016</td>
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<td>1.</td>
<td>Approval of panel of experts for the evaluation of research publications of Dr. Mohd. Rihan, Associate Professor, for the post of Professor (CAS).</td>
<td>Approved</td>
<td>Annexure-IV</td>
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<td>2.</td>
<td>Change of topic / supervisor of Ph.D. student Mr. Mohammad Arshad. Faculty Number: 16PHDEED29 Enrolment Number: GB2140 Supervisor: Dr. Mohammad Sarfaraz</td>
<td>The application of Mr. Mohammad Arshad, Research Scholar, to change his Ph.D. research topic and to appoint a new supervisor was considered. It was decided that the student will be asked to submit a new proposal regarding his proposed research topic in consultation with any faculty member of the department after taking consultation.</td>
<td>Annexure-IV</td>
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**Corrections:**

Item 2 i) of special BOS dated 10.03.2017:
Approval for Prof. Imtiaz Ashraf, EED, AMU as Supervisor of Ph.D. Student Mr. Salman Ahmad, Faculty Number: 15PHDEED61 Enrolment Number: GB9841

Noted (earlier recorded as ‘Approved’)

To be sent to CSAR

Item No. 1 of Special BOS dated 09.05.2017:
Approval of curriculum of B. Tech in Electrical Engineering and B.E. in Electrical Engineering (Evening) to be implemented from the session 2017-18.

The curriculum of B. Tech / B.E. along with the list of equivalent courses and syllabi of B. Tech & B.E. first year courses, EEA1110 & EEEA1110 (Basics of Electrical Enng.) were approved as given in Annexure-I

Annexure-I

Item No. 2 Teaching load allocation of B. Tech and M. Tech programs for the session 2017-18.

Approved. Further the chairman was authorized to allocate teaching load of laboratory courses and the B.E. program for the session 2017-18

Annexure-II

Item No. 3 Appointment of examiners for various theory and laboratory courses of B. E., B. Tech. and M. Tech programs for the session 2017-18.

Deferred

Item No. 4 Constitution and approval of different departmental committees.

Constituted and Approved

Annexure-III

Any other item(s)

1. Approval of panel of experts for the evaluation of research publications of Dr. Mohd. Rihan, Associate Professor, for the post of Professor (CAS).

2. Change of topic / supervisor of Ph.D. student Mr. Mohammad Arshad.

   Faculty Number: 16PHDEED29
   Enrolment Number: GB2140
   Supervisor: Dr. Mohammad Sarfaraz

   The application of Mr. Mohammad Arshad, Research Scholar, to change his Ph.D. research topic and to appoint a new supervisor was considered.

   It was decided that the student will be asked to submit a new proposal regarding his proposed research topic in consultation with any faculty member of the department after taking consultation.
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Faculty Number: 15EEIM042
Enrolment No.: GD1395 | his consent so that the topic can be approved in the next BOS |
| 4. | Proposal for appointing Dr. M. Saad Alam as co-supervisor of a foreign Ph.D. student, Mr. Mahdi Shafaati Shamami.
Date of Admission: 06.03.2014 | Correction in the topic was approved. |
|   | The BOS considered the application of Mr. Mahdi Shafaati Shamami for inclusion of Dr. M. Saad Alam as co-supervisor (the item was deferred in special BOS dated 10-03-2017).
The DRC was of the opinion that the request of Mr. Mahdi Shafaati Shamami to appoint Dr. M. Saad Alam as a co-supervisor may not be acceded to as he has already been enrolled for more than three years.
However, considering the future hurdles that the candidate may face and the problems in the extension of his VISA in India, it was decided that the case be referred to CSAR for final decision in this regard. |   |
| 6. | Approval of the topic and syllabus of the new Departmental Elective (DE) course of M.Tech proposed by Dr. Safia A. Kazmi. | The BOS approved the topic “Nanomaterials and their Applications” for the proposed DE course of M.Tech.
Further, Dr. Safia A. Kazmi was requested to prepare the syllabus of the course for approval in the subsequent BOS |
Annexure - I
Z.H. College of Engineering & Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech.

Valid for students admitted from the year 2017 onwards

Electrical Engineering

Semester 1: Sections A, B, C/Semester 2: Sections D, E, F

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TOTAL CREDITS: 23

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## Course Structure: B.Tech.

### Electrical Engineering

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ANNEXURE – I
SYLLABUS OF BASICS OF ELECTRICAL ENGINEERING
EEA-1110 (Credits: 3)

UNIT-1. ELECTRIC CIRCUITS

Single phase ac circuits; concept of phasor, RLC series and parallel circuits, Network theorems for ac & dc circuits, Three phase ac circuit; star and delta connections, Three phase power, Transients in Electric circuits

UNIT-2. MAGNETIC CIRCUITS & TRANSFORMERS

Magnetic circuits:
Definitions, Magnetization & Magnetic losses, Equivalence of magnetic & electric circuits. Series & parallel magnetic circuits.
Transformers:
Construction & principle of operation of single phase transformer; equivalent circuit, calculation of losses, efficiency and voltage regulation.

UNIT-3. INTRODUCTION TO ELECTRIC MACHINES & POWER SYSTEM

Electrical Machines:
Rotating magnetic field, Alternator construction, principle of operation & emf equation.
Construction & principle of operation of 3-phase Induction motor.
Basics of Power System:
Elements of power system; Generation, transmission & distribution line diagram, Electric power generation, Concept of Green energy.

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### List of Courses taught to students of other departments:

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## B.E. (Electrical Engineering) Equivalent Courses

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For students of B.Tech.
Annexure - II

Department of Electrical Engineering, Aligarh Muslim University, Aligarh
Teaching Load Allocation of B. Tech And M. Tech Programs

B.TECH. - ODD SEMESTER

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| EEA-1110   | Basics of Electrical Engg. (3 sections) | Mr. Mohd. Tariq  
Mr. Saad bin Arif  
Mr. Afroz Alam |
| EE-111     | Basic Elect. & Electronics Engg. (old curriculum) | Mr. B |
| EE-206     | Electrical Engineering (for Chemical) | Prof. Imtiaz Ashraf |
| EE-211N    | Elect. Machines - I | Mr. Faiz Ahmad |
| EE-231N    | Power System Engineering | Prof. Hafizur Rahman |
| EE-276     | Circuit Theory | Mr. Mohammad Zaid |
| EE-277     | Elect. Engineering Materials | Mr. B |
| EE-305     | Control System (for Mech., 2 sections) | Mr. A  
Mr. C |
| EE-321N    | Power Electronics - I | Prof. Abu Tariq |
| EE-331     | Electrical Power Generation & Utilization | Mr. Zafar Ahmad  
Mr. D |
| EE-352N    | Electrical and Electronic Instrumentation | Dr. Mohammad Sarfraz |
| EE-361     | High Voltage Engineering | Prof. Aejaz Masood |
| EE-442N    | Control System | Dr. Mohd. Rihan |
| EE-473     | Microprocessor Systems & Applications | Mr. D |
| EE-433     | HVDC and FACTS Technology (DE-I) | Dr. Adil Sarwar |
| EE-434     | Energy Management and Automation (DE-II) | Dr. M. Saad Alam  
Mr. C |
<p>| EE-435     | Power Station Practice (DE-III) | Mr. Zafar Ahmad |
| EE-478     | Microcontroller Systems (OE-I) | Dr. Adil Sarwar |</p>
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<td>Mr. Saad bin Arif</td>
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<td>Prof. Salman Hameed</td>
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<td>Mr. Mohd. Tariq</td>
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<td>H.V. Generation &amp; Meas. (DC- HV)</td>
<td>Mr. Mujib Ullah Zuberi</td>
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## ANNEXURE - II

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<td>Mr. Afroz Alam (2 sections)</td>
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<td>Dr. Mohammad Sarfraz</td>
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# ANNEXURE - II

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<td>Mr. Mohammad Ayyub</td>
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<td>Prof. Hafizur Rahman</td>
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<td>EE- 663</td>
<td>High Voltage Testing Techniques (E2-PSD, DC-HV)</td>
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<td>Identification &amp; Estimation (DC-IC)</td>
<td>Dr. Mohd. Rihan</td>
</tr>
<tr>
<td>EE- 653</td>
<td>Digital Instrumentation (DC-IC)</td>
<td>Mr. C</td>
</tr>
<tr>
<td>EE- 648</td>
<td>Robust and Adaptive Control (E2-IC)</td>
<td>Mr. Mohd. Anas Anees</td>
</tr>
<tr>
<td>EE- 6xx</td>
<td>Nanomaterials &amp; their applications (E3-IC)</td>
<td>Dr. Safia A. Kazmi</td>
</tr>
</tbody>
</table>
ANNEXURE – III

DEPARTMENT OF ELECTRICAL ENGINEERING
ALIGARH MUSLIM UNIVERSITY, ALIGARH

VARIOUS DEPARTMENTAL COMMITTEES

A. Committees:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Committee</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Departmental Research Committee (DRC)</td>
<td>1. Prof. Badrul Hasan Khan (Convener)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Prof. Imtiaz Ashraf</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Prof. Salman Hameed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Prof. Abu Tariq</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Prof. Hafizur Rahman</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Mr. Mujib Ullah Zuberi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. Dr. Mohd Rihan</td>
</tr>
<tr>
<td>2.</td>
<td>Load Reallocation Committee</td>
<td>1. Chairperson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. All group in-charges</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Time-table in-charges</td>
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<tr>
<td>3.</td>
<td>Question Paper and Result Moderation Committee</td>
<td>1. Chairperson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Prof. Badrul Hasan Khan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Prof. Imtiaz Ashraf</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Prof. Salman Hameed</td>
</tr>
<tr>
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<td>5. Prof. Abu Tariq</td>
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<tr>
<td></td>
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<td>6. Prof. Hafizur Rahman</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. Prof. Asfar Ali Khan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8. Prof. Aejaz Masood</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9. Prof. Mohd. Rizwan Khan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10. Mr. Mohd Ayyub</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11. Mr. Zafar Ahmad</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12. Mr. Mujib Ullah Zuberi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13. Dr. Mohd. Rihan</td>
</tr>
<tr>
<td>4.</td>
<td>Curriculum Development Committee (CDC)</td>
<td>1. Chairperson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Prof. Imtiaz Ashraf (Convener)</td>
</tr>
<tr>
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<td>2. All group in-charges</td>
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<tr>
<td></td>
<td></td>
<td>3. M.Tech Coordinator/PG In-charge</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. B.Tech Coordinator/UG In-charge</td>
</tr>
<tr>
<td>5.</td>
<td>Website Management Committee</td>
<td>1. Dr. Adil Sarwar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Mr. Anas Anees</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Mr. Mohammad Zaid (Convener)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Mr. Faiz Ahmad</td>
</tr>
<tr>
<td>6.</td>
<td>NAAC/IQAC Data Compilation Committee</td>
<td>1. Dr. Adil Sarwar (Convener)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Dr. Mohammad Sarfaraz</td>
</tr>
<tr>
<td>7.</td>
<td>Student Grievance Committee</td>
<td>1. Chairperson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Prof. Imtiaz Ashraf, (Ph.D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Mr. Mohammad Ayyub, (M.Tech)</td>
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<td>4. Dr. Mohammad Sarfaraz (B.Tech. IVth year)</td>
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<td></td>
<td></td>
<td>5. Mr. Md. Masihuzzaman (B.Tech. IIIrd yr)</td>
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<tr>
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<td>6. Mr. Faiz Ahmad, (B.Tech. IIrd yr)</td>
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### ANNEXURE – III

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Committee</th>
<th>Members</th>
</tr>
</thead>
</table>
| 8.     | N.B.A Accreditation Committee for M.Tech. (Inst. & control) | 1. Dr. Mohd. Rihan (Co-ordinator)  
2. Dr. Safia Akhtar Kazmi (Co-Coordinator)  
3. Mr. Anas Anees  
4. Dr. Mohd. Sarfaraz  
5. Mr. Mohammad Zaid |
| 9.     | First Aid & Fire Extinguishing Committee | 1. Chairperson  
2. Lab Superintendent (Convener)  
3. Foreman |

#### B. Laboratory In-charges

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Laboratories/Seminar</th>
<th>In-Charge</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Laboratories Superintendent</td>
<td>Mr. Mujib Ullah Zuberi</td>
</tr>
<tr>
<td>3.</td>
<td>Power Electronics &amp; Drive Lab</td>
<td>Prof. Abu Tariq</td>
</tr>
<tr>
<td>4.</td>
<td>Advanced Power Electronics Lab</td>
<td>Prof. Badrul Hasan Khan</td>
</tr>
<tr>
<td>5.</td>
<td>Instrumentation Lab</td>
<td>Dr. Safia Akhtar Kazmi</td>
</tr>
<tr>
<td>6.</td>
<td>Virtual Instrumentation Lab</td>
<td>Dr. Mohd. Rihan</td>
</tr>
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<td>7.</td>
<td>Power System Lab</td>
<td>Prof. Salman Hameed</td>
</tr>
<tr>
<td>8.</td>
<td>SCADA Lab</td>
<td>Prof. Asfar Ali Khan</td>
</tr>
<tr>
<td>9.</td>
<td>High Voltage Lab</td>
<td>Prof. Aejaz Masood</td>
</tr>
<tr>
<td>10.</td>
<td>Dielectrics Lab</td>
<td>Prof. Mirza Mohd. Mohsin</td>
</tr>
<tr>
<td>11.</td>
<td>Simulation Lab</td>
<td>Prof. Imtiaz Ashraf</td>
</tr>
<tr>
<td>12.</td>
<td>Control &amp; Microprocessor Lab</td>
<td>Mr. Mohd. Anas Anees</td>
</tr>
<tr>
<td>13.</td>
<td>NCE Lab</td>
<td>Mr. Mohammad Ayyub</td>
</tr>
<tr>
<td>14.</td>
<td>Workshop</td>
<td>Mr. Md. Masihuzzaman</td>
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<tr>
<td>15.</td>
<td>Research Lab</td>
<td>Prof. Hafizur Rahman</td>
</tr>
<tr>
<td>16.</td>
<td>Seminar Library</td>
<td>Dr. Mohammad Sarfaraz</td>
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#### C. Admission Test Coordinators

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Course</th>
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<tbody>
<tr>
<td>1.</td>
<td>Ph. D</td>
<td>Prof. Abu Tariq</td>
</tr>
<tr>
<td>2.</td>
<td>M.Tech.</td>
<td>Prof. Aejaz Masood</td>
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#### D. Time-Table In-charges

<table>
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<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>1.</td>
<td>B. Tech. &amp; M.Tech.</td>
<td>Mr. Mujib Ullah Zuberi</td>
</tr>
<tr>
<td>2.</td>
<td>B.E. (Evening)</td>
<td>Mr. Mohammad Zaid</td>
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</tbody>
</table>

#### E. Group In-charges:

<table>
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<th>S. No.</th>
<th>Groups</th>
<th>In-Charge</th>
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<tbody>
<tr>
<td>1.</td>
<td>Power System</td>
<td>Prof. Salman Hameed</td>
</tr>
<tr>
<td>2.</td>
<td>Power Electronics &amp; Machine/Drives</td>
<td>Prof. Badrul Hasan Khan</td>
</tr>
<tr>
<td>3.</td>
<td>Instrumentation &amp; Control</td>
<td>Dr. Mohd. Rihan</td>
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<tr>
<td>4.</td>
<td>General Group</td>
<td>Prof. Imtiaz Ashraf</td>
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</table>
5. High Voltage
   Prof. Aejaz Masood

F. Tabulators

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Course</th>
<th>Name</th>
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<tbody>
<tr>
<td>1.</td>
<td>B.Tech</td>
<td>Prof. Salman Hameed</td>
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<td>Mr. Zafar Ahmad</td>
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<tr>
<td>2.</td>
<td>M.Tech</td>
<td>Mr. Mohammad Ayyub</td>
</tr>
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<td>Dr. Mohammad Sarfaraz</td>
</tr>
<tr>
<td>3.</td>
<td>B.E. (Evening)</td>
<td>Dr. Safia Akhtar Kazmi</td>
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<td></td>
<td>Mr. Md. Masihuzzaman</td>
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</table>

G. Departmental Coordinators/ In-Charges:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Departmental Activity</th>
<th>Coordinators/ In-Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>U.G. In-charge / B. Tech. Coordinator</td>
<td>Mr. Mujib Ullah Zuberi</td>
</tr>
<tr>
<td>3.</td>
<td>Training &amp; Placement Coordinator</td>
<td>Prof. Salman Hameed</td>
</tr>
<tr>
<td>4.</td>
<td>Mid-Semester Exam Coordinator</td>
<td>Prof. Aejaz Masood</td>
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<td>5.</td>
<td>IEEE Student Branch Counselor</td>
<td>Dr. Mohd. Rihan</td>
</tr>
<tr>
<td>6.</td>
<td>Tour In-charge</td>
<td>Dr. Safia Akhtar Kazmi</td>
</tr>
<tr>
<td>7.</td>
<td>Secretary to B.O.S.</td>
<td>Dr. Safia Akhtar Kazmi</td>
</tr>
<tr>
<td>8.</td>
<td>Alumni Cell Coordinators</td>
<td>Mr. Mohd. Anas Anees</td>
</tr>
<tr>
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<td></td>
<td>1. Mr. Mohammad Zaid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Mr. Md. Masihuzzaman</td>
</tr>
</tbody>
</table>
**ANNEXURE – IV**

**Panel of Experts for evaluation of research publications for promotion as Professor (CAS)**

**Name of the Candidate: Dr. Mohd. Rihan**

Date of BOS – 26.05.2017

<table>
<thead>
<tr>
<th>S. NO.</th>
<th>NAME OF EXPERT</th>
<th>Institute details</th>
</tr>
</thead>
</table>
| 1.    | PROF. S. N. SINGH | Department of Electrical Engineering  
IIT Kanpur  
Kalyanpur, Kanpur – 208016, Uttar Pradesh  
Email ID: snsingh@iitk.ac.in |
| 2.    | PROF. S. C. SRIVASTAVA | Department of Electrical Engineering  
IIT Kanpur  
Kalyanpur, Kanpur – 208016, Uttar Pradesh  
Email ID: scs@iitk.ac.in |
| 3.    | PROF. S. K. SINHA | Kamla Nehru Institute of Technology  
Sultanpur – 228118, Uttar Pradesh  
Mob: 09415091562 |
| 4.    | PROF. NAIMUL HASAN | Department of Electrical Engineering  
Jamia Millia Islamia  
Jamia Nagar, New Delhi – 110025  
Mob: 09911481836  
Email ID: nhasan@jmi.ac.in |
| 5.    | PROF. R. K. SRIVASTAVA | Department of Electrical Engineering  
Indian Institute of Technology (BHU)  
Banaras Hindu University, Varanasi – 221005, Uttar Pradesh  
Email ID: rksrivastava.eee@itbhu.ac.in, rakesh@bhu.ac.in |