Department of Electronics Engineering, AMU, Aligarh

Date: 25-01-2020

Minutes

of the departmental meeting of the Electronics Engineering Department held on January 25, 2020 at 12:00 noon in the Committee Room of the department. Following were present:

1. Prof. Pervez Mustajab
2. Prof. Mirza Salim Beg
3. Prof. Mohd. Hasan
4. Prof. Omar Farooq (Chairman)
5. Prof. Ekram Khan
6. Prof. Mohd. Jawaid Siddiqui
7. Prof. Sudhanshu Maheshwari
8. Prof. Syed Atiqur Rahman
9. Prof. Athar Ali Moinuddin
10. Mr. Musiur Raza Abidi
11. Dr. Anwar Sadat
12. Dr. Mohd. Sharique
13. Dr. Naushad Alam
14. Dr. Mohd. Wajid
15. Dr. Mohd. Ayyub Khan
16. Ms. Raaziya Shaimim
17. Dr. Rehan Muzammil
18. Mr. Sayeed Ahmad
19. Ms. Rafeeda Siddiqui

Following items were discussed and decisions were taken:

1. Program Outcomes (POs) and Program Specific Outcomes (PSOs) for B. Tech. (Electronics Engineering), M. Tech. (Electronic Circuits & Systems Design) and M. Tech. (Communication & Information Systems) were discussed and finalised. A copy of the POs and PSOs are enclosed herewith.

2. Course Incharges (2019-20) of theory courses were requested to do the mapping of COs to POs and COs to PSOs.

3. Incharge of Lab Courses (2019-20) were requested to prepare the list of experiments (containing 8-10 experiments) along with COs of their lab courses.

4. Mapping of COs to POs and PSOs for elective courses that are not being run presently will be done by the faculty members who prepared the syllabi of those courses.

5. Modalities for the B. Tech. Mini Project (ELC3990) course was discussed and it was decided that one faculty member shall guide only one group of three students working essentially on a hardware project (i.e., anything that is not purely simulation)

6. M. Tech. courses that have been recommended by the RAC of PhD students for course work were assigned new course numbers as follows. It will be put for approval in the forthcoming meeting of the Board of Studies of Electronics Engineering Department.

<table>
<thead>
<tr>
<th>PhD Course</th>
<th>Corresponding M. Tech. course</th>
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<tbody>
<tr>
<td>EL823: Digital Circuit Design</td>
<td>ELC6200: Digital Circuit Design</td>
</tr>
<tr>
<td>EL824: Embedded Systems</td>
<td>ELC6310: Embedded Systems</td>
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<tr>
<td>EL826: Neural Networks &amp; Machine Learning</td>
<td>ELE7000: Neural Networks &amp; Machine Learning</td>
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B. Tech. Electronics

Program Outcomes (POs) (revised on 14.12.2019)

1. **Engineering Knowledge**: Capability of applying knowledge of mathematics, basic sciences, and engineering to solve Electronics engineering problems.

2. **Problem Analysis**: Formulation and analysis of engineering problems using concepts of mathematics and engineering sciences.

3. **Design/Development of Solutions**: Ability to provide design solutions for intricate engineering problems suited to the needs of society.

4. **Conduct Investigations of Complex Problems**: Ability to use research-based knowledge and methods to draw conclusions for complex problems through design of experiments, analysis and interpretation of data.

5. **Modern Tool Usage**: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **The Engineer and Society**: Apply reasoning and gained knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and Sustainability**: Understanding the effect of engineering solutions on society and environment for sustainable growth.

8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and Team Work**: Ability to work independently as well as with diverse teams.

10. **Communication**: Development of effective written and oral communication skills.

11. **Project Management and Finance**: Ability to manage engineering projects effectively.

12. **Life-long Learning**: Ability of independent thinking and lifelong learning.

Program Specific Outcomes (PSOs) (formulated on 14.12.2019)

1. Ability to apply the knowledge of Electronic Circuits, VLSI, Communication and Signal Processing in the analysis and design of application oriented systems.

2. Ability to use industry standard tools and develop programming skills for the solutions of Electronics Engineering problems.
M. Tech. Electronics (Electronic Circuit & System Design)

Program Outcomes (POs) (revised on 15.01.2020)

1. Ability to demonstrate expertise in the area of Electronic Circuits and System Design.
2. Ability to carry out research and development work independently to solve practical problems.
3. Ability to write and present a substantial technical report.

Program Specific Outcomes (PSOs) (formulated on 15.01.2020)

1. Ability to analyze and design electronic devices, circuits and systems.
2. Ability to use acquired knowledge and industry standard tools to design electronic circuits and systems.

M. Tech. Electronics (Communication & Information Systems)

Program Outcomes (POs) (revised on 15.01.2020)

1. Ability to demonstrate expertise in the area of Communication and Information Systems.
2. Ability to carry out research and development work independently to solve practical problems.
3. Ability to write and present a substantial technical report.

Program Specific Outcomes (PSOs) (formulated on 15.01.2020)

1. Ability to demonstrate the knowledge of advanced communication and signal processing techniques in analyzing and designing communication and information systems.
2. Ability to use acquired knowledge and modern tools to design contemporary communication systems.