Dr. B. C. Roy Engineering College, Durgapur
Department of Electronics and Communication Engineering

Ref. No. BCR/ECE/23/04/26 Date: 26.04.23

A DAC meeting was held on 26/04/2023 at 4.00 P.M at GF02 (first floor ECE department to discuss in details and finalize the Action Taken Report based on Feedback on Academics. Feedback on facilities and Semester End Feedback taken for the Academic Year 2022-2023. The feedback was submitted to college feedback portal by 232 students of Electronics and Communications Engineering department.

First Year Feedback Summary:

Based on the feedback provided by the 85 students, the majority of them agreed that they acquired new technical or scientific knowledge (58.82%) and found the subjects studied to be relevant to current industry needs (57.65%). However, there were also some concerns raised regarding the application of knowledge in real-life problem solving (15.29%), the helpfulness of prescribed experiments/practicals for future (16.47%), and the effectiveness and interest of the pedagogy used by teachers (15.29%).

In terms of facilities, the most highly rated were laboratory facility (41.18% excellent) and water facility (38.82% excellent), while the poorest rated were hostel facility (12.94% poor) and internet facility (32.94% poor).

Overall, the feedback suggests that there are areas where improvement could be made in terms of the application of knowledge and effectiveness of teaching, as well as in some of the facilities provided. However, the majority of students expressed satisfaction with their overall learning environment and the opportunities provided for co-curricular and extra-curricular activities.

Second Year Feedback Summary:

Based on the feedback provided by 64 student who participated in the survey, it appears that they are extremely satisfied with their academic experience in the second year of their Electronics and Communication Engineering program. They strongly agree that they acquired new technical or scientific knowledge, are able to apply the knowledge and skills gained in real-life problem solving, and find the subjects studied to be relevant to current industry needs. They also strongly agree that the mentorship and counseling process in the department is effective, and the overall learning environment is excellent. In addition, they strongly agree that they improved their communication skills, and the pedagogy used by teachers is effective and interesting. The opportunities provided for co-curricular and extra-curricular activities are also viewed positively, as well as the events conducted for the holistic development of the students and to bridge industry-academia gap.

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In terms of facilities, the single student rated all facilities as excellent, including laboratory, library, hostel (if applicable), sports, water, cleanliness and hygiene, canteen, and internet facilities.

While it is important to note that the survey only had one participant, their overwhelmingly positive feedback suggests that the academic and facility experience in the second year of the Electronics and Communication Engineering program is highly satisfactory.

Third Year Feedback Summary:

Based on the feedback received from the 43 students who participated in the survey, the majority of the students agree that they acquired new technical or scientific knowledge, and are able to apply the knowledge and skills they gained in real-life problem-solving. However, some students are not sure or disagree with the relevance of the subjects studied to the current industry need.

The availability and adequacy of modern tools in the laboratories are also appreciated by most students. However, some students are not sure or disagree with the effectiveness and interest of the pedagogy used by the teachers.

Regarding the facilities, the majority of the students rated the library and sports facility as very good or good, but the hostel and internet facility received a lower rating.

Overall, the feedback suggests that there is room for improvement in some areas, but the majority of the students are satisfied with the academics and facilities provided by the department.

Final Year Feedback Summary:

Based on the feedback from 40 final year students of Electronics and Communication Engineering for the academic year 2022-23, the overall feedback on academics is positive, with 52.29% strongly agreeing and 47.08% agreeing that they acquired new technical or scientific knowledge, are able to apply the knowledge and skills in real-life problem solving, find the subjects relevant to current industry needs, find the experiments/practicals helpful for their future, and find the mentorship and counseling process effective. The pedagogy used by the teachers is also deemed effective and interesting. There is a high level of satisfaction with the availability and adequacy of modern tools in the laboratories and with the cleanliness and hygiene of the facilities. The library, water, and mentorship and counseling facilities are also rated highly. The opportunities provided for co-curricular and extracurricular activities are appreciated by the students. The internet facility is the only facility rated poorly, with only 47.5% rating it as excellent. Overall, the feedback on facilities is positive, with 49.69% rating the facilities as excellent and 29.69% rating them as very good.

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The year wise breakup of responders:

Year	Participant Count
1st	85
2nd	64
3rd	43
4th	40

The percentage of participants in the first year is 70.83%, in the second year is 53.33%, in the third year is 35.83%, and in the fourth year is 33.33%.

Action Taken Report based on Feedback on Academics for the AY 2021-22

Based on the feedback received from the students during the AY 2021-22, the following actions have been taken to improve the academic experience for the students:

- Improvement of teaching pedagogy: The feedback has highlighted the need for an improvement in the effectiveness and interest of the pedagogy used by teachers. In response, the department has conducted workshops and training sessions for the faculty to enhance their teaching skills and make the classes more engaging and interactive.

- Curriculum review: The feedback has raised concerns about the relevance of some subjects studied to the current industry needs. To address this, the department has reviewed the curriculum and made necessary changes to ensure that the subjects are more relevant to the current industry needs.

- Practical sessions: The feedback has indicated that the prescribed experiments/practicals could be more helpful for future learning. To address this, the department has revised the practical sessions and added more hands-on activities to provide students with more practical experience and help them understand the concepts better.

- Improved internet facility: The feedback has highlighted that the internet facility needs improvement. The department has taken steps to upgrade the internet infrastructure and increase the bandwidth to provide faster and more reliable internet access to the students.

- Mentoring and counseling: The feedback has indicated that the mentorship and counseling process is effective. To continue this support, the department has increased the frequency of the mentoring and counseling sessions and provided more personalized support to the students.

- Co-curricular and extracurricular activities: The feedback has indicated that the students appreciate the opportunities provided for co-curricular and extra-curricular activities. The department has continued to organize events and activities to help students develop their skills and abilities outside of the classroom.

Overall, the feedback has been valuable in identifying areas where improvements could be made, and the department has taken steps to address these concerns. The actions taken are

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intended to enhance the academic experience for the students and provide them with the skills and knowledge they need to succeed in their future careers.

Identified areas of concern (with > 3% disagreement):

Based on the feedback provided by the students, the following areas have been identified as areas of concern, with more than 3% disagreement:

- Application of knowledge in real-life problem solving (15.29% disagreement)
- Helpful experiments/practicals for future (16.47% disagreement)
- Effectiveness and interest of pedagogy used by teachers (15.29% disagreement)
- Hostel facility (12.94% rated as poor)
- Internet facility (**32.94%** rated as poor)

These areas of concern are being addressed by the department through various measures, such as curriculum review, teacher training, practical session revision, and infrastructure improvements. The department is committed to addressing these concerns to provide a better academic experience for the students.

Actions taken/suggested:

- Application of knowledge in real-life problem solving: The department has taken steps to include more practical sessions, case studies, and industry-oriented projects in the curriculum. The department has also encouraged faculty members to include more real-life examples and scenarios in their lectures to help students better understand the practical application of the concepts.

- Helpful experiments/practicals for future: The department has revised the practical sessions and added more hands-on activities to provide students with more practical experience and help them understand the concepts better. The department has also focused on ensuring that the practical sessions are relevant to the industry needs and useful for future learning.

- Effectiveness and interest of pedagogy used by teachers: The department has conducted workshops and training sessions for the faculty to enhance their teaching skills and make the classes more engaging and interactive. The department has also encouraged faculty members to use more innovative teaching methods and technology to make the classes more interesting.

- Internet facility: The department has upgraded the internet infrastructure and increased the bandwidth to provide faster and more reliable internet access to the students. The department has also provided technical support to students facing internet-related issues.

Overall, the department is committed to providing the best possible academic experience for the students and is taking the necessary actions to address the areas of concern identified from the feedback. The department will continue to monitor the feedback and take appropriate actions to further improve the academic experience for the students.

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Action Taken Report based on Feedback on Facilities for the AY 2022-23

All facilities related academics (Laboratory and Class rooms) exhibit excellent feedback results. However, all facilities related to central amenities provided, less favorable feedback results.

Identified areas of concern (with > 3% disagreement):

- Hostel facility (**11.96%** disagreement)
- Sports facility (**5.63%** disagreement)
- Water facility (**3.52%**disagreement)
- Cleanliness and Hygiene (**5.63%** disagreement)
- Canteen facility (**11.97%** disagreement)
- Internet facility (**32.94%** disagreement)

Actions taken/suggested:

- Increased Bandwidth: The department has upgraded the internet bandwidth to provide faster and more reliable internet access to the students. This upgrade will ensure that the internet speed remains consistent even during peak usage hours, and will enable students to access online resources and complete their coursework more efficiently.

- High-Speed Wi-Fi: The Wi-Fi has been upgraded to high-speed routers, providing faster and more reliable internet connectivity. The new routers are capable of handling a higher volume of data traffic, ensuring that students can access online resources without interruption.

- Expanded Wi-Fi coverage: The department has expanded the Wi-Fi coverage area to ensure that students can access the Wi-Fi network from anywhere within the department. Wi-Fi routers have been placed at optimized locations to provide better coverage and stronger signal strength.

- Technical Support: The department has established a dedicated technical support team to provide assistance to students facing internet-related issues. The technical support team is available to help students troubleshoot issues related to internet connectivity, network setup, and Wi-Fi configuration.

These steps have been taken to further enhance the internet facility provided to the students and to address any concerns raised in the feedback. The department is committed to providing the best possible internet facility to the students, and will continue to monitor the feedback and take appropriate actions to further improve the facility.

Upgradation of Hostel, Canteen and Food facilities are suggested and the same is forwarded to central authorities.

Departmental UG students have access to sports equipment and gym facilities at prescribed timings, as was reported Sports Committee. No Action is required thereof regarding this issue, as is decided in the meeting.

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Resolution of DAC:

The department has established the Innovation Lab and Xilinx VLSI Lab to provide students with opportunities to work on advanced projects beyond the curriculum and develop contemporary technical skills. These labs have been in operation for a while now and have already provided students with practical exposure and opportunities to develop their technical skills.

To further enhance the utility of these labs, the department will take the following steps:

- Encouraging faculty members to engage with the students and mentor them to develop their ideas and projects.
- Organizing regular training programs and workshops to keep the students updated with the latest technological advancements in the field of VLSI.
- Providing support and guidance to the students to take part in various national and international-level competitions related to innovation and VLSI design.
- The department is in the process of establishing the Advanced Prototyping and IOT Lab to provide students with hands-on experience in advanced prototyping and IoT technologies. The lab will enable students to work on projects related to IoT and embedded systems, develop their technical skills, and gain practical exposure to IoT technologies. The department will organize regular training programs and workshops to keep the students updated with the latest advancements in the field of IoT and embedded systems.

The DAC believes that the utilization of these labs will circumvent the lacunas identified through the student feedback and provide students with the practical exposure and contemporary technical skills needed to excel in their careers. The department is committed to providing a comprehensive and innovative academic experience to the students and will continue to take appropriate actions to further enhance the academic experience and facilities provided to the students.

These steps will help the students to gain a deeper understanding of the subject matter, apply their knowledge in real-life problem-solving, and develop their technical skills to excel in their careers.

(Dr. Narendra Nath Pathak)
Head of the Department
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Dr. B. C. Roy Engineering College, Durgapur			
Department of ECE			
DAC meeting attendance			
Date: 25.04.2023		Time: 04:00 PM	Venue: GF-02
Sr. No.	Name of the faculty members	Designation	Signature
1	Dr. Narendra Nath Pathak, HoD	Professor	
2	Dr. Khondekar Mofazzal Hossain	Professor	
3	Dr. Sarit Pal	Professor	
4	Dr. Tapas Mondal	Associate Professor	
5	Dr. Aloke Saha	Associate Professor	
6	Dr. Tribeni Prasad Banerjee	Associate Professor	
7	Ms. Keka Hajra	Assistant Professor	
8	Dr. Rajdeep Ray	Assistant Professor	
9	Dr. Ramkrishna Rakshit	Assistant Professor	
10	Ms. Dipta Chaudhuri	Assistant Professor	
11	Dr. Aritra Bhowmik	Assistant Professor	
12	Dr. Anirban Chattopadhyay	Assistant Professor	
13	Dr. Abhijit Banerjee	Assistant Professor	
14	Dr. Mrinmoy Chakraborty	Assistant Professor	
15	Dr. Rajib Banerjee	Assistant Professor	
16	Ms. Debipriya Dutta	Assistant Professor	
17	Ms. Moutusi Mondal	Assistant Professor	
18	Mr. Nilkamal Bhunia	Assistant Professor	
19	Dr. Ankita Mitra	Assistant Professor	
20	Mr. Pradipta Sarkar	Assistant Professor	
21	Dr. Ardhendu Sekhar Chattopadhyay	Assistant Professor	
22	Mr. Tapas Roy	Assistant Professor	
23	Mr. Koustav Roy	Assistant Professor	
24	Dr. Anup Kumar Das	Assistant Professor	
25	Ms. Subhadra Debroy	Assistant Professor	
26	Mr. Surajit Batabyal	Assistant Professor	
27	Mr. Samujjwal Ray	Assistant Professor	
28	Mr. Moloy Mukherjee	Assistant Professor	
29	Mr. Soumendra Pain	Assistant Professor	
30	Mr. Santanu Roy	Sr. Technical Assistant	
31	Mr. Samar Nath Rajak	Sr. Technical Assistant	
32	Ms. Dolan Das	Technical Assistant	
33	Mr. Sonatan Dutta	Technical Assistant	
34	Mr. Sukanta Mukherjee	Supervisor	
35	Dr. Sourav Moitra (DAC Convenor)	Assistant Professor	