

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR

MECHANICAL ENGINEERING DEPARTMENT

NOTICE

27/07/2023

The 111<sup>th</sup> Departmental Academic Committee (DAC) Meeting (ME) has been called at the Departmental Library of Mechanical Engineering Department on Friday, 27<sup>th</sup> July, 2023 at 04:00 P.M.

Agenda:

1. Purchase of laboratory equipment
2. Utilization of Approved Budget (April to July)
3. R & D Activity
4. Academic Audit & Stock verification audit
5. Add-on class and GATE class
6. Feedback analysis & Action taken
7. Others, if any, with the permission of the Chairperson of the house

Thanking you,



Dr. Subrata Samanta  
Associate Professor  
(DAC Convener)  
ME Department  
BCREC

DR B. C. ROY ENGINEERING COLLEGE, DURGAPUR  
MECHANICAL ENGINEERING DEPARTMENT

Date: 28.07.2023

Minutes of the 111<sup>th</sup> Departmental Academic Committee (DAC) Meeting (ME) held at the Departmental Library of Mechanical Engineering Department on Thursday, 27<sup>th</sup> July, 2023 at 04:00 P.M.

Faculty members present:

1) Prof. (Dr.) Chandan Chatteraj 2) Prof. (Dr.) Kanchan Chatterjee 3) Prof(Dr) Subrata Samanta 4) Prof (Dr) Arijit Banerjee 5) Prof.(Dr) Manoj Kundu 6) Prof. Partha Sarathi Bose 7) Prof. Suman Karmakar 8) Prof Chitta Sahana 9) Prof.(Dr.) S. C. Moi 10) .Prof. Siddhartha Bhowmick 11) Prof.Arka Banerjee 12) Prof.(Dr.)Rajeev Ranjan 13) Prof.Rakesh Biswas 14) Prof. Deepak Kumar 15). Prof Koushik Chatterjee 16) Dr Rupali 17) Dr Pabitra Mondal 18) Prof. Subhajit Bhattacharya 19) Prof. Shyama Charan Chakraborty.

Agenda:

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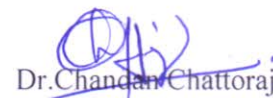
Minutes of the meeting are as follows:

1. HOD has discussed about the status of purchasing of new lab equipment and lab maintenance of the approved budget of FY2023-24.
2. It has been decided to update the utilization of Approved Budget for the period of April 2023 to July 2023.
3. It has been decided that team of faculty members will submit their research proposals as per the approved budget and focus on publication including student-members in reputed peer reviewed journals and conferences.
4. Status of Academic Audit report of AY 2022-23 is discussed, and all coordinators of different committee members will submit minutes of meeting/s to the Academic Audit committee. Stock verification audit for AY 2022-23 will be reported by inter departmental committee of the college.
5. Feedback collected in BCREC online platform were analyzed and action taken based on the analysis were discussed.
6. It has been decided that Geotag photograph will be taken in each class of Add-on course and GATE class.

The meeting ended with vote of thanks.



Dr.Subrata Samanta  
(Convener, DAC)



Dr.Chandan Chatteraj  
(Chairperson, DAC)

H.O.D. / M.E.  
Dr. B. C. Roy Engg. College, Durgapur


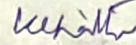
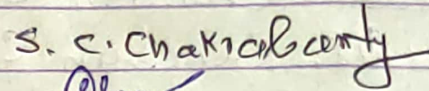
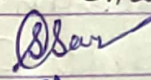

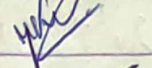

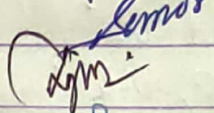
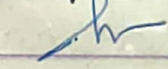
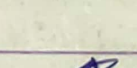
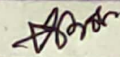


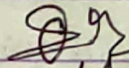
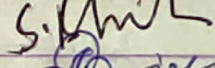
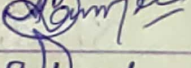
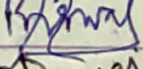
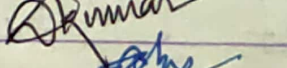
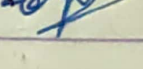


111th DAC meeting held on 27/7/2023, at Dept Library on 4:30 PM.

Agenda:-

Member Present:-

Signs

- ① Dr. Chandan Chatteraj. 
- ② Dr. Kanchan Chatterjee. 
- ③ Prof S. C. Chakraborty. 
- ④ Dr. Subrata Samanta. 
- ⑤ Dr. Arjit Banerjee. 
- ⑥ Dr. Manoj Kundu. 
- ⑦ Dr. Rupali. 
- ⑧ Dr. S. C. Moi. 
- ⑨ Dr. Rajeev Ranjan. 
- ⑩ Dr. P. K. Mondal. 
- ⑪ Prof P. S. Bose. 
- ⑫ Prof Subhjit Bhattacharya. 
- ⑬ Prof Sumay Karmakar. 
- ⑭ Prof Chitta Sahana. 
- ⑮ Prof Siddhartha Bhowmik. 
- ⑯ Prof Arka Banerjee. 
- ⑰ Prof Rakesh Biswas. 
- ⑱ Prof Deepak Kumar. 
- ⑲ Prof Koushik Chatterjee. 
- ⑳ ~~Prof~~

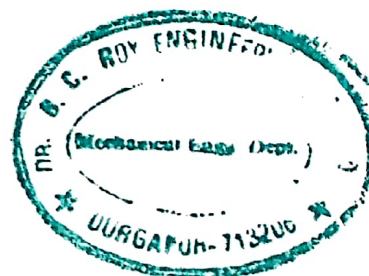
**DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR**  
**MECHANICAL ENGINEERING DEPARTMENT**

DATE: 31.07.2023

Action taken report for faculty feedback  
for AY 2022-23

Based on the online feedback from faculties of the institute, the action taken are illustrated in the following table:

S. No	FEED BACK STATEMENT	ACTION TAKEN
1	The Vision, Mission of the institute and department are clearly known.	The Vision, Mission of the institute and department are displayed at appropriate places in the institute.
2	Aims and objectives of the curriculum are well defined and clear to the teachers and students.	Teachers share and discuss about aims and objectives of the curriculum at the beginning of a course.
3	The course/programme of studies carries sufficient number of relevant elective papers.	Sufficient elective papers are taught in 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> semester.
4	Curriculum has adequate academic flexibility.	4 continuous assessments (CA) are in practice which includes written tests, Assignments, Quiz, PowerPoint presentation, report writing, viva-voce.
5	The course content fulfils the need of students and industry.	Many elective subjects are taught thoroughly which covers current industry needs along with Add-on course is also introduced
6	Need to fully review the syllabus.	Syllabus is designed as per the current industry needs. However, it can be revised further.
7	Institute provides adequate opportunities for continuous development of its Staff.	FDP, Guest lecture, technical training are arranged regularly.
8	Equal opportunities for all staff are provided.	All staffs are given equal opportunities through the established policies.
9	Institute has adequate medical facilities and is equipped to handle medical and other emergencies.	Medical Unit is actively working. MoU with Mission hospital is done to take care any emergency. Health card is provided to all the staffs.
10	Faculty rooms, corridors, toilets, laboratory, playground, classrooms are regularly cleaned and well maintained.	Regular cleaning is required
11	Clean drinking water is available.	Clean Drinking water is available at appropriate places.
12	Laboratory requirements including equipment/ Software are regularly provided.	Institute has a defined budget for upgrading Laboratory equipment and Software.





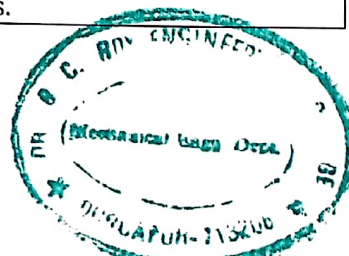
**DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR**  
**MECHANICAL ENGINEERING DEPARTMENT**

DATE: 31.07.2023

Action taken report for alumni feedback  
for AY 2022-23

Based on the online feedback from alumni of ME department, the action taken are illustrated in the following table:

S. No	FEED BACK STATEMENT	ACTION TAKEN
1	How relevant the knowledge and skills you gained during the course of study was for your first Job?	Many elective subjects are taught thoroughly which covers current industry needs along with Add-on course is also introduced.
2	How relevant the knowledge and skills you gained during the course of study was for your present Job?	Hands-on Workshop in collaboration with the industry were given to the students so that they can apply their skills in the present job.
3	How relevant the curriculum is with the current industry requirements?	Students engage in industrial training/ internship/ practical project 5 <sup>th</sup> semester onward to get exposure to the current industry practices.
4	How was the student-teacher relationship at BCREC?	Teachers are careful to identify weak students and explain the subject in lucid manners with patience. This helps to build good relationship between teacher and students.
5	How supportive and cooperative the faculty members of BCREC were for your overall development?	Students are under the guidance of faculties as their mentors for their overall development.
6	How adequate were the activities organized by the college for your overall development?	Various workshops, webinars, lectures are organized in collaboration with companies for overall development of the students.
7	Has the T&P Cell of BCREC provided ample On Campus and Off Campus placement opportunities?	Improve the training in soft skills, resume building, interview preparation, and industry-specific workshops. Also, we need to leverage the college's alumni network to facilitate off-campus placements and mentorship opportunities for current students.
8	Is the institute providing good hospitality as Alumni after passing out?	Alumni meet is conducted every year and cultural program is arranged.
9	How willing are you to contribute to the development of the Institute?	By financial help or spreading the good reputation of the institute among the people
10	How far have you upgraded yourself with the latest knowledge and skills after passing out from this institute?	Joining various Technical Societies and by self learning from different online courses knowledge can be upgraded continuously
11	How willing are you to open your own start-up or any other business in future?	Gaining experience after working few years in the industries it will be easier to open start-up or any other business.



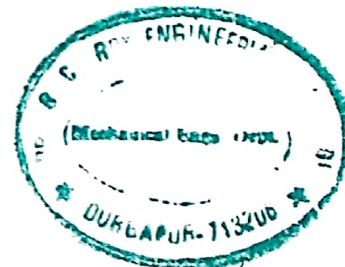
DR . B .C. ROY ENGINEERING COLLEGE, DURGAPUR  
MECHANICAL ENGINEERING DEPARTMENT

DATE : 31.07.2023

Action taken report for semester end feedback given by students  
for AY 2022-23

Based on the online feedback from student of ME department, the action taken are illustrated in the following table:

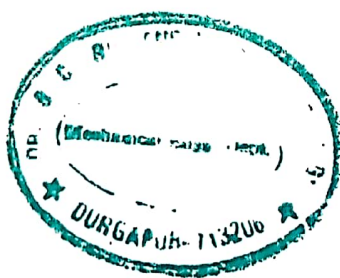
S. No	FEED BACK STATEMENT	ACTION TAKEN
1	Did you acquire any new technical or scientific knowledge?	Students are involved in the research works which are published in journals and attending various conferences with faculties in premium institutions. So students are getting acquainted with new concepts.
2	Are you able to apply the knowledge and skills you gained in real life problem solving?	Hands-on Workshop in collaboration with the industry are given to the students so that they can apply their skills.
3	Are the subjects you studied relevant to the current industry need?	Many elective subjects are taught thoroughly which covers current industry needs along with Add-on course is also introduced.
4	Availability and adequacy of modern tools in the laboratories?	Steps are already implemented for the modernization of Laboratories by purchasing new software (CREO) and equipments such as computerized diesel engine, advanced customized pneumatic trainer.
5	Are the experiments/practical prescribed in the subjects/courses helpful for your future?	MOU has been signed with many companies like CMERI, IISCO-Burnpur, as a result the areas identified where students are lagging in view of practical exposure got improved.
6	How is the mentorship and counseling process in the department?	Students are under the guidance of faculties as their mentors for their overall development.
7	How is the overall learning environment?	Continuous Assessment (CA) has been introduced for their holistic development.
8	Did you improve your communication skill?	Spoken English classes and Group Discussions introduced to improve communication skills.
9	Are the teachers able to demonstrate the required knowledge and skills?	Faculties are encouraged in various research works and FDP to enhance their knowledge.
10	Is the pedagogy used by the teachers effective and interesting?	Teachers are requested to identify weak students and explain the subject in lucid manners with patience.
11	Are the opportunities provided for co-curricular and extracurricular activities?	Students are involved in Tech Fest, Cultural Fest, Sports etc.



12	Are events (workshop/seminar/webinar etc.) conducted for the holistic development of the students and to bridge industry-academia gap?	Various workshops, webinars, lectures are organized in collaboration with companies for practical exposure of students.
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### Feedback on Facilities

	FEED BACK STATEMENT	ACTION TAKEN
1	Laboratory facility	Continuous up gradation of Laboratories is the usual practice of this Institute.
2	Library facility	More books and reputed journals are purchased in the library, recommended as per university updated syllabus.
3	Hostel facility (if applicable)	Good hostels are provided.
4	Sports facility	Every year indoor and outdoor games are organized.
5	Water facility	Clean water facilities are available in premises.
6	Cleanliness and Hygiene	Efforts are given to maintain cleanliness & hygiene in the campus. A good Medical unit is also present in the campus.
7	Canteen facility	Many homely and hygienic foods are included in the college canteen.
8	Internet facility	The WiFi routers are checked and necessary repaired work is done.





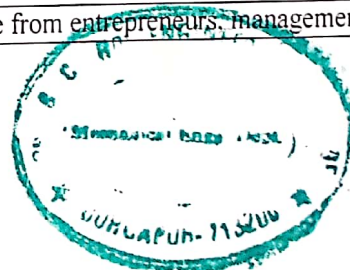
DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR  
MECHANICAL ENGINEERING DEPARTMENT

DATE : 31.07.2023

Action taken report for the course end feedback (exit survey)  
for AY 2022 -2023

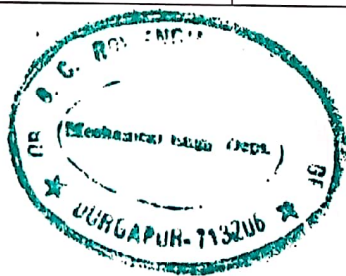
Based on the online feedback from student of ME department, the action taken are illustrated in the following table:

S. No	FEED BACK STATEMENT	ACTION TAKEN
1	Have you developed the ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems?	Innovative projects related to the industry are taken up in the IDEA Lab where students can apply their skills.
2	Are you able to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences?	Special attention is given through add-on courses to improve in depth exposure of the subjects and fundamental knowledge.
3	Did you attain the ability of designing solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations?	Students are encouraged to design new systems considering social, economic, and environmental issues by following different norms.
4	Are you able to apply research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions?	Thesis writing and projects are introduced to the students from earlier semesters. Students are involved with teachers in journal publication and various conferences.
5	Have you developed the ability to 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?	Adequate exposure of relevant software like CREO, ANSYS, MATLAB are provided. Students are encouraged to improve their skills through this.
6	Can you apply reasoning informed by the	Lecture from entrepreneurs, management





	contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice?	schools or spiritual leaders is arranged frequently in the institute premises for the benefit of students.
7	Are you able to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development?	Students get familiarize with different standards like ISO, ASME which are followed to design new systems.
8	Do you apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice?	Students are encouraged to enroll in MOOCs courses related to ethics and principles.
9	Are you able to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings?	Necessary trainings are given in the management institutes to instigate their leadership quality and communication skills.
10	Can you communicate effectively on complex engineering activities with the engineering community and with the society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions?	Students are directed to join different engineering groups like Institution of Engineers etc.
11	Are you able to Demonstrate knowledge and understanding of the engineering and management principles and apply these to ones work, as a member and leader in a team, to manage projects and in multidisciplinary environments?	Proposal is raised to organize different workshop to improve team building capabilities, communication skills and problem solving abilities.
12	Will you be able to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change?	Students are advised to gather knowledge by continuous learning for sustainable development.



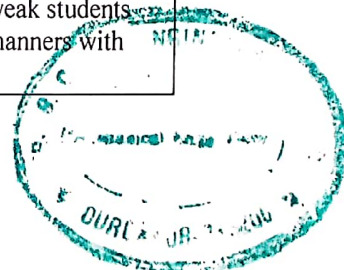
**DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR**  
**MECHANICAL ENGINEERING DEPARTMENT**

DATE: 31.07.2023

Action taken report for student satisfaction survey  
for AY 2022-23

Based on the online feedback from student of ME department, the action taken are illustrated in the following table:

S. No	FEED BACK STATEMENT	ACTION TAKEN
1	How much of the syllabus was covered in the class?	The syllabus coverage is monitored as per the lesson plan.
2	How well did the teachers prepare for the classes?	Class notes and questions for practice are prepared well before the class
3	How well were the teachers able to communicate?	During class brain storming session is practiced to clear the doubts
4	The teacher's approach to teaching can best be described as	Teachers explain the subject matter by giving industry oriented examples.
5	Fairness of the internal evaluation process by the teachers.	Teachers treat every student equally during evaluation process
6	Was your performance in assignments discussed with you?	Teachers discuss the assignment questions in the classroom thoroughly.
7	The institute takes active interest in promoting internship, student exchange, field visit opportunities for students.	Internship is mandatory for every student. Idea lab is actively engaged in student exchange program. Industry visit is done in every academic year.
8	The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.	Students are under the guidance of faculties as their mentors for their overall development.
9	The institution provides multiple opportunities to learn and grow.	Guest lecturers are arranged on regular basis from premier institutes and industries. Workshops are conducted on new technological trends.
10	Teachers inform you about your expected competencies, course outcomes and programme outcomes.	Teachers share and discuss about the expected competencies, course outcomes and programme outcomes at the beginning of a course.
11	Your mentor does a necessary follow-up with an assigned task to you.	Mentors follow up the students for MAR activities.
12	The teachers illustrate the concepts through examples and applications.	Teachers explain the subject matter by giving examples from day to day life as well as current industry trends.
13	The teachers identify your strengths and encourage you with providing right level of challenges.	Through continuous assessment students strength is identified and they are encouraged to apply their thinking in the final year project.
14	Teachers are able to identify your weaknesses and help you to overcome them.	Teachers are careful to identify weak students and explain the subject in lucid manners with patience.





15	The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.	Students representatives are involved in DAC meetings and their views are considered.
16	The institute/ teachers use student centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences.	Students are encouraged to participate actively in the annual Tech Fest, Projects.
17	Teachers encourage you to participate in extracurricular activities.	Cultural Fest, Sports, Yoga, Wall Magazine competition, e-magazine etc. are organized every year.
18	Efforts are made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.	T&P Cell and Humanities department are conducting sessions on regular basis to inculcate soft skills, life skills and employability skills.
19	What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc. while teaching.	Digital Facilities to be improved so that teachers can use ICT tools such as LCD projector, Multimedia, etc. while teaching.
20	The overall quality of teaching-learning process in your institute is very good.	Quality Assessment and Improvement Committee (QAIC) is there to monitor the overall teaching-learning process and takes necessary actions time to time.

