



Faculty of Marine Engineering
Feedback Report (2022-23)

21.08.2023

The Department of Marine Engineering is dedicated to meeting the contemporary needs of society through a commitment to Value-Based Education as outlined in its mission statement. SVCE implemented Outcome-Based Education (OBE) and the Choice Based Credit System (CBCS) in the Academic Year 2018-19, with the Department of Marine Engineering developing a meticulously structured curriculum that aligns with global requirements and encompasses essential fundamentals. Subsequently, we have introduced next Regulation in the year 2022 with major provisions like honors, minor degree, student exchange programmes with foreign universities etc.,

This commitment is clearly reflected in the articulation of graduate attributes, Course Outcomes (CO), Programme Outcomes (PO), and Programme Specific Outcomes (PSO). Valuable insights from internal and external stakeholders, including industry experts, academia, students, alumni, and parents, play a pivotal role in shaping the curriculum through feedback analysis reports. Additionally, the department actively seeks input from the Board of Studies and International Peers to anticipate, identify, and incorporate diverse needs in the curricula and syllabi.

The establishment of the Board of Studies (BoS), featuring representation from academia, alumni, and industries, underscores the department's collaborative approach to curriculum development. Committees such as the Department Advisory Committee (DAC) and Programme Assessment Committee (PAC) further contribute to the comprehensive assessment and enhancement of educational programs.

Adhering to the mandatory courses specified by the DG Shipping, Government of India, the department continually evolves to incorporate new trends and topics in marine engineering, responding to technological advancements and the changing landscape of machine manufacturing in the maritime industry. Given the nature of marine engineering involving sea-crafts and related mechanical works in seaports, the curriculum is regularly updated to include contemporary subjects and practices.

The current emphasis and emerging trends in marine engineering revolve around the integration of robots and the utilization of solar and wind power in ship manufacturing and port management. Anticipating the need for efficient handling of heavy machinery in engineering work, the incorporation of robotic technologies becomes essential for ship and port construction, installation of machines, and overall management. The future trajectory of the department includes integrating concepts and applications of robotic technologies to enhance the efficiency and effectiveness of seaport management and marine craft operations.



Student Feedback (2022-2023)

S.No.	Attributes	Average Score on 5 point scale	Reference
1.	The course is relevant to the current industry needs.	Excellent	Feedback Analysis pertaining to the year 2022-23
2-6.	Fulfillment of Course Outcomes	Excellent	
7.	Course enhanced my ability to formulate, analyze and solve problems	Very Good	
8.	Course imparted sufficient technical skills which will help in placement and higher studies	Very Good	
9.	Appropriate textbooks and reference books were quoted and were available in the library	Excellent	
10.	Continuous Assessments (Test, Assignment, MCQ, etc) are relevant to the COs and are effective	Excellent	

Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2 and Poor 1.

The provided table and corresponding chart indicate that across all parameters, the mean scores of students' responses consistently fall above 4 or close to 5, signifying a high level of satisfaction with various aspects of the curriculum. Notably, the highest mean scores were observed for (i) the relevance of the course to current industry needs, (ii) Course imparted sufficient technical skills which will help in placement and higher studies, (iii) the availability of appropriate textbooks and reference materials in the library, and (iv) the effectiveness of continuous assessments (tests, assignments, MCQs) in aligning with Course Outcomes (COs).

Conversely, the lowest mean scores were associated with the points related to the course's impact on enhancing problem-solving abilities and its contribution to developing technical skills relevant to placement and higher studies. The report has been submitted to the relevant committees for further deliberations and discussions.

Faculty Feedback (2022-2023)

S.No	Attributes	Average Score on 5 point scale	Reference
1.	Is the course relevant for the program?	Excellent	Feedback Analysis pertaining to the year 2022-23
2.	Is the allocation of the credits to the course appropriate?	Excellent	
3.	Are the course outcomes well defined and clear to the teachers and the students?	Excellent	
4.	Is the course content adequate in relation to the Course Outcomes (COs)?	Excellent	
5.	How is the scope for the use of modern / ICT tools and for improved learning?	Excellent	
6.	Are appropriate textbooks and reference books quoted and are available in the library?	Excellent	
7.	How well is the course evaluation scheme designed?	Excellent	
8.	Does the course content enable Participatory Learning?	Excellent	
9.	Is the course duration adequate?	Excellent	
10.	Overall satisfaction	Excellent	

Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2 and Poor 1.

Based on the provided table and accompanying chart, it is evident that faculty members have expressed high satisfaction with various aspects of the curriculum, as indicated by mean scores consistently approaching 5 on all parameters. Notably, the faculty members exhibited full satisfaction with the curriculum, with the highest mean score observed for (i) the well-defined and clear articulation of course outcomes to both teachers and students.

However, it is noteworthy that the only exception to this overall satisfaction was observed in the parameter concerning the scope for the use of modern/ICT tools for enhanced learning, where the mean score deviated from the otherwise near-perfect scores.

The comprehensive mean scores, approaching 5 across all parameters, reflect faculty members' contentment with the effective implementation of the curriculum. The report emphasizes the potential for further improvement in scores through consistent efforts in enhancing various aspects of the courses. Subsequently, the report has been submitted to the relevant committees for additional discussions and deliberations.

Alumni Feedback(2022-2023)

S.No	Attributes	Average Score on 5 point Scale	Reference
1.	Courses were relevant for the program and met the current industry needs	Very Good	Feedback Analysis pertaining to the year 2022-23
2.	The knowledge provided by the courses were useful to the professional practice	Very Good	
3.	The courses enhance the employability potential	Very Good	
4.	Appropriate textbooks and reference books were quoted and were available in the library	Very Good	
5.	Courses enabled me to relate theory to practice	Very Good	
6.	The courses enabled critical thinking and problem-solving skills	Very Good	
7.	The courses provided an opportunity to enhance communication and interpersonal skills	Very Good	
8.	Curriculum and courses inspired lifelong learning	Very Good	
9.	Rate the evaluation schemes adopted.	Very Good	
10.	Overall Satisfaction of the Program	Very Good	

Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2, and Poor 1.

Observing the provided table and accompanying chart, it is clear that alumni responses consistently yielded mean scores of near or above 4 across all parameters, indicating their satisfaction with various aspects of the curriculum. Notably, the highest mean scores were recorded for (i) the relevance of courses to the program and alignment with current industry needs, and (ii) the utility of knowledge gained from the courses in professional practice. With mean scores approaching or exceeding 4 on all parameters, it is evident that the alumni expressed contentment with the effective implementation of the curriculum. The report has been submitted to the relevant committees for further discussions and deliberations.



Employer Feedback (2022-23)

S.No	Attributes	Average Score on 5 point Scale	Reference
1.	The curriculum addresses the Industries' current needs	Very Good	Feedback Analysis pertaining to the year 2022-23
2.	The curriculum is oriented towards the Organization's Vision & Mission	Very Good	
3.	The curriculum can serve the Society's requirements	Very Good	
4.	The Curriculum and Syllabus have imparted useful knowledge needed for professional practice	Very Good	
5.	The curriculum has provided the competency to relate theory to practice	Very Good	
6.	Projects emphasize team building and teamwork.	Very Good	
7.	The co-curricular activities have enhanced my organizing and interpersonal skills.	Very Good	
8.	The curriculum has instilled Professional Ethics in the students	Very Good	
9.	The curriculum has stimulated continuous learning.	Very Good	
10.	Overall Satisfaction on the Curriculum and Syllabus	Very Good	

Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2 and Poor 1.

Based on the presented table and accompanying chart, it is evident that employer responses have consistently yielded mean scores of 4 and above across all parameters, indicating satisfaction with various aspects of the curriculum. Notably, the highest mean scores were observed for almost all parameters. The majority of parameters have a mean score equal to 4, signifying employer satisfaction with the curriculum implementation, except for parameters 1, 5, and 6. The report has been forwarded to the Department Placement Cell for further discussions and deliberations.

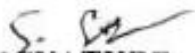
The department's commitment to meeting global and national needs is underscored by its consistent placement record in the shipping industry. As of the 2022-23 overall feedback, the curriculum encompasses subjects from Marine Engineering, Mechanical Engineering, Electrical and Electronics Engineering, and Computer Science Engineering. To broaden students' knowledge in their areas of interest, interdisciplinary open elective courses are offered from other engineering departments. Notably, a subject on Offshore Technology is included in the curriculum to enhance students' employability.



The flexibility of the curriculum is evident in the allowance for students to add or drop one or two courses in a semester to align with individual requirements, such as participating in internships in companies. Additionally, the curriculum mandates a mandatory six-month afloat training at Cochin Shipyard Limited, Kochi, providing students with valuable practical training and exposure to the shipping industry.

Action to be taken

1. To include value added courses mandated by the DG shipping, Govt. of India.
2. To organize more ship visits to enhance the piratical exposure of the students.


SIGNATURE
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