



Faculty of Marine Engineering **Feedback Report (2021-22)**

01.08.2022

The mission statement of the Department of Marine Engineering clearly addresses the needs of modern society through Value-Based Education. SVCE introduced the Outcome-Based Education (OBE) and Choice Based Credit System (CBCS) in the Academic Year 2018-19. Department of Marine Engineering has developed a well-structured curriculum reflecting the graduate attributes in order to meet Global needs with all necessary fundamentals. These are comprehensively reflected in Course Outcomes (CO), Programme Outcomes (PO), and Programme Specific Outcomes (PSO). Suggestions from the internal and external stakeholders (experts from Industry, Academia, Students Alumni and Parents) feedback analysis report plays a vital role. Inputs from the Board of Studies and International Peers help to forecast, identify and update various needs across all dimensions in the curricula and syllabi. The department has established the Board of Studies (BoS), which is represented by all stakeholders including experts from academia, alumni, and industries. Committees such as Department Advisory Committee (DAC), Programme Assessment Committee (PAC). The department offers all mandatory courses notified by the DG Shipping, Government of India.

New trends and topics are introduced from time to time with the rise in technology and needs of machine making, in the study of marine engineering. Since this course deals with seacrafts and all the related mechanical works of seaports, up to date topics are introduced now and then in the subjects and practices of the course.

The main focus and upcoming trends or topics related to marine engineering focus on the involvement of robots and the use of solar and wind power in the manufacturing of ships and management of ports. For taking care of heavy machines in the engineering work, support machines in the form of robots are needed to fulfil the work requirements and management of ships and ports construction or installation of machines. Therefore, the future goal is to include concepts and the use of robotic technologies in the management of seaports and sea crafts.

Student Feedback (2021-2022)

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 2021-22
2-6.	Fulfillment of Course Outcomes	Excellent	
7.	Course enhanced my ability to formulate, analyze and solve problems	Excellent	
8.	Course imparted sufficient technical skills which will help in placement and higher studies	Excellent	
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.

Based on the above Table and the Chart it shows that on all parameters the mean of students' responses have been above 4 or near to 5, which means that they are very much satisfied with curriculum aspects. The highest mean score was for (i) Course is relevant to the current industry needs and (ii) Course imparted sufficient technical skills which will help in placement and higher studies. The lowest mean was for the point Appropriate textbooks and reference books were quoted and were available in the library. The report was forwarded to the concerned committees for further discussions and deliberations.

Faculty Feedback (2021-2022)

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 2021-22
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?	Very Good	
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 above Table and the Chart it is understood that on all parameters the mean of faculty members' responses have been near to 5 except the scope for use of modern/ICT tools for improved learning. which means that they are fully satisfied with the curriculum aspects. But the faculty members were fully satisfied with the curriculum. The highest mean score was for (i) the course outcomes well defined and clear to the teachers and the students. All the parameters have a mean score nearing to 5, which means the faculty are satisfied with the curriculum implementation. The scores can be also enhanced through constant effort on the overall aspect of courses. The report was forwarded to the concerned committees for further discussions and deliberations.

Alumni Feedback(2021-2022)

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 2021-22
2.	The knowledge provided by the courses were useful to the professional practice	Very Good	
3.	The courses enhance the employability potential	Good	
4.	Appropriate textbooks and reference books were quoted and were available in the library	Excellent	
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	Excellent	
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.

Based on the above Table and the Chart it is evident that on all parameters the mean of alumni responses have been near to 4 or more than 4, which means that they are satisfied with the curriculum aspects. The highest mean score was for (i) Courses that were relevant for the program and met the current industry needs and (ii) Knowledge provided by the courses was useful to the professional practice. All the parameters have a mean score nearing 4 or above, which means the alumni were satisfied with the curriculum implementation. The report was forwarded to the concerned committees for further discussions and deliberations.



Employer Feedback (2021-22)

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 2021-22
2.	The curriculum is oriented towards the Organization's Vision & Mission	Very Good	
3.	The curriculum can serve the Society's requirements	Good	
4.	The Curriculum and Syllabus have imparted useful knowledge needed for professional practice	Good	
5.	The curriculum has provided the competency to relate theory to practice	Very Good	
6.	Projects emphasize team building and teamwork.	Excellent	
7.	The co-curricular activities have enhanced my organizing and interpersonal skills.	Excellent	
8.	The curriculum has instilled Professional Ethics in the students	Very Good	
9.	The curriculum has stimulated continuous learning.	Excellent	
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 above Table and the Chart it is evident that on all parameters the mean of employer's responses have been near to 5, which means that they are satisfied with the curriculum aspects. The highest mean score was for all most all the parameters. Most of the parameters have a mean score is equal to 5, which means the employers are satisfied with the curriculum implementation except the parameters 1, 5, and 6. The report is transferred to the Department Placement Cell for further discussions and deliberations. The realization of global and national needs is evidently shown through the consistent placement record of the department in the shipping industry.

Based on the 2021-22 overall feedback, the curriculum includes subjects from Marine Engineering, Mechanical Engineering, Electrical and Electronics Engineering, and Computer Science Engineering. Interdisciplinary open elective courses are offered from other engineering departments for the students to enhance their knowledge in the field of their interest. Subject on Offshore technology is included in the curriculum to enhance to the employability of the students. Adding or dropping of one or two courses in a semester is permitted to the students to suit their individual requirements like internship in companies. Curriculum also includes mandatory six months afloat training at Cochin Shipyard Limited, Kochi which imparts very good practical training and exposure to the shipping industry.



Action to be taken

1. To implement new curriculum in the year 2022 in line with the International Maritime Organizations, National Educational Policy 2020 and Shipping industry requirements.
2. To introduce some of the emerging technologies like Artificial Intelligence, Data Science etc., in the forthcoming curriculum.
3. To take steps to improve the communication skills of the students.

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