

# Sri Venkateswara College of Engineering

Autonomous Institution, Affiliated to Anna University, Chennai.

Approved by the A.I.C.T.E. Accredited by NAAC

Post Bag No. 1, Pennalur, Sriperumbudur Tk. 602117 India.

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## Faculty of Marine Engineering Feedback Report (2018-19, 2019-20, 2020-21)

21.04.2021

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.

### Student Feedback (2018-2021)

A five-point measurement scale was used in the questioner where Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2 and Poor 1.

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 years 2018-19, 2019-20, and 2020-21
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	

Based on the above Table and the Chart it is evident that on all parameters the mean of students' responses have been above 4 or near to 5, which means that they are 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.



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## Faculty Feedback (2018-2021)

A five-point measurement scale was used in the questioner where Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2 and Poor 1.

S.No	Attributes	Average Score on 5 pointscale	Reference
1.	Is the course relevant for the program?	Excellent	Feedback Analysis pertaining to the years 2018-19, 2019-20, and 2020-21
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	

Based on the above Table and the Chart it is evident 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(2018-2021)

A five-point measurement scale was used in the questioner where Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2, and Poor 1.

S.No	Attributes	Average Score on 5 point Scale	Reference
1.	Courses were relevant for the program and met the current industry needs	Excellent	Feedback Analysis pertaining to the years 2018-19, 2019-20, and 2020-21
2.	The knowledge provided by the courses were useful to the professional practice	Excellent	
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	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	



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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

A five-point measurement scale was used in the questioner where Excellent is scored as 5, Very Good 4, Good 3, Need to improve 2 and Poor 1.

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 years 2018-19, 2019-20, and 2020-21
2.	The curriculum is oriented towards the Organization's Vision & Mission	Excellent	
3.	The curriculum can serve the Society's requirements	Excellent	
4.	The Curriculum and Syllabus have imparted useful knowledge needed for professional practice	Excellent	
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.	Excellent	
8.	The curriculum has instilled Professional Ethics in the students	Excellent	
9.	The curriculum has stimulated continuous learning.	Excellent	
10.	Overall Satisfaction on the Curriculum and Syllabus	Excellent	

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 2016-2018 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.



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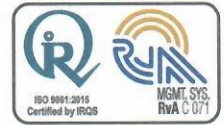
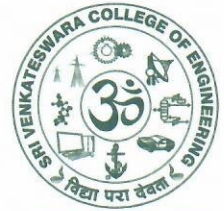
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## Action to be taken:

1. To finalize the R2022 curriculum and syllabus in a phased manner in line with the International Maritime Organizations, National Educational Policy 2020 and Shipping industry requirements.
2. To give additional focus on the following areas along with International Maritime Organizations (IMO) guidelines.
  - i. Alternative fuels with the focus on emission control including Carbon-Di-Oxide
  - ii. Anti-fouling with focus on painting technology
  - iii. Artificial intelligence and machine learning with respect to manufacturing of marine components.
  - iv. Off-Shore technologies
3. To offer certificate courses in Advanced welding process using the facilities and expertise available in Welding Research Cell.
4. To encourage the students to undergo certificate courses in Combustion modelling, application of data analytics in shipping.

  
Prof S Krishnan 21/4/20

HoD-Marine Engineering

**S. KRISHNAN**  
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Pennalur, Sriperumbudur (Tk) 602117

16.11.2021

## Department of Marine Engineering

### Action Taken and Relevant Proofs during Implementation of R2022

S. No.	Action to be taken	Action taken	Year	Proof
1	To finalize the R2022 curriculum and syllabus in a phased manner in-line with the International Maritime Organizations, National Educational Policy 2020 and Shipping industry requirements.	The R2022 curriculum and syllabus in-line with the International Maritime Organizations, National Educational Policy 2020 and Shipping industry requirements is being prepared in a phased manner.	2021	Marine Engineering Board of studies meeting minutes dated 11.09.2021. Academic Council minutes Ref. No: AC MIN /2021-22/14 dated 27.09.2021
2	To give additional focus on the following areas along with International Maritime Organizations (IMO) guidelines. i. Alternative fuels with the focus on emission control including Carbon-Di-Oxide ii. Anti-fouling with focus on painting technology iii. Artificial intelligence and machine learning with respect to manufacturing of marine components. Off-Shore technologies	Being implemented in due course of time	--	--

S. No.	Action to be taken	Action taken	Year	Proof
3	To offer certificate courses in Advanced welding process using the facilities and expertise available in Welding Research Cell.	Being implemented in due course of time	--	--
4	To encourage the students to undergo certificate courses in Combustion modelling, application of data analytics in shipping.	Being implemented in due course of time	--	--

 16/11/23  
Prof S Krishnan

HoD-Marine Engineering

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