



**AMET**  
**ACADEMY OF MARITIME EDUCATION AND TRAINING**  
**DEEMED TO BE UNIVERSITY**  
(Under Section 3 of UGC Act 1956)

**Internal Quality Assurance Cell (IQAC)**

**Information Booklet**

**INTRODUCTION OF NEW COURSES**  
**CURRICULUM DESIGN AND DEVELOPMENT**  
**PROCESS FOR CURRICULUM REVISION**

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## **Basics of process**

Academy of Maritime Education and Training (AMET) University ensures that its vision & mission are achieved by consistently focusing on the following:

- Providing a conducive, vibrant, progressive and enriching learning environment
- Teaching excellence and providing optimum research output
- Global outlook and engaging with the world through learning, teaching and research activities
- Attracting the best and the brightest students
- Providing competitive advantage in gaining employment or further academic opportunities
- Maintaining excellent links with commerce and industry, nationally and internationally
- Complying with all applicable requirements and continually improving the effectiveness of the quality management system
- Developing innovative programs to meet the needs of the Maritime Industry
- Encouraging the personnel in maritime sector to pursue higher education and research

Further the University has designed programme educational objectives and measures the outcomes of each programme, in order to ensure and confirm that the institutional mission and vision are adequately reflected in the academic programmes of the University.

## **Need**

Whenever there is a need to upgrade or introduction of new courses in any programme, University has the flexibility to accommodate those changes. Introduction of a new course is decided by the concerned department and is based on:

- Specific need of a particular client

- Interaction with shipping industry
- Interaction with DGS, UGC, AICTE, MHRD and Collaborating institutions

## **Requirement**

Development input requirements relating to the development of new course are identified and documented. The input takes into consideration the following aspects:

- Requirements of the client/shipping industry
- Prevailing statutory requirements and codes
- Requirements of the awarding body/external institutions
- Course curriculum and syllabus
- Information, if any from similar courses already designed
- Entry requirements of more advanced courses/career prospects for which course, the learners are prepared
- Time & cost constraints
- Course fee and other admin/financial details

Any incomplete, ambiguous or conflicting requirements are resolved. The input is reviewed by the Committee and approved by the Vice Chancellor for adequacy.

## **Feedback**

All the New courses started are subject to revision based on the feedback received from the learners/ clients/ shipping industry, or from other bodies.

The changes required are analyzed by the Board of Studies/ Course-in- charges of the departments. Suggestions from faculty are considered. The changes in the course are approved by the Vice Chancellor before implementation. The changes and reasons for the same are suitably recorded and maintained.

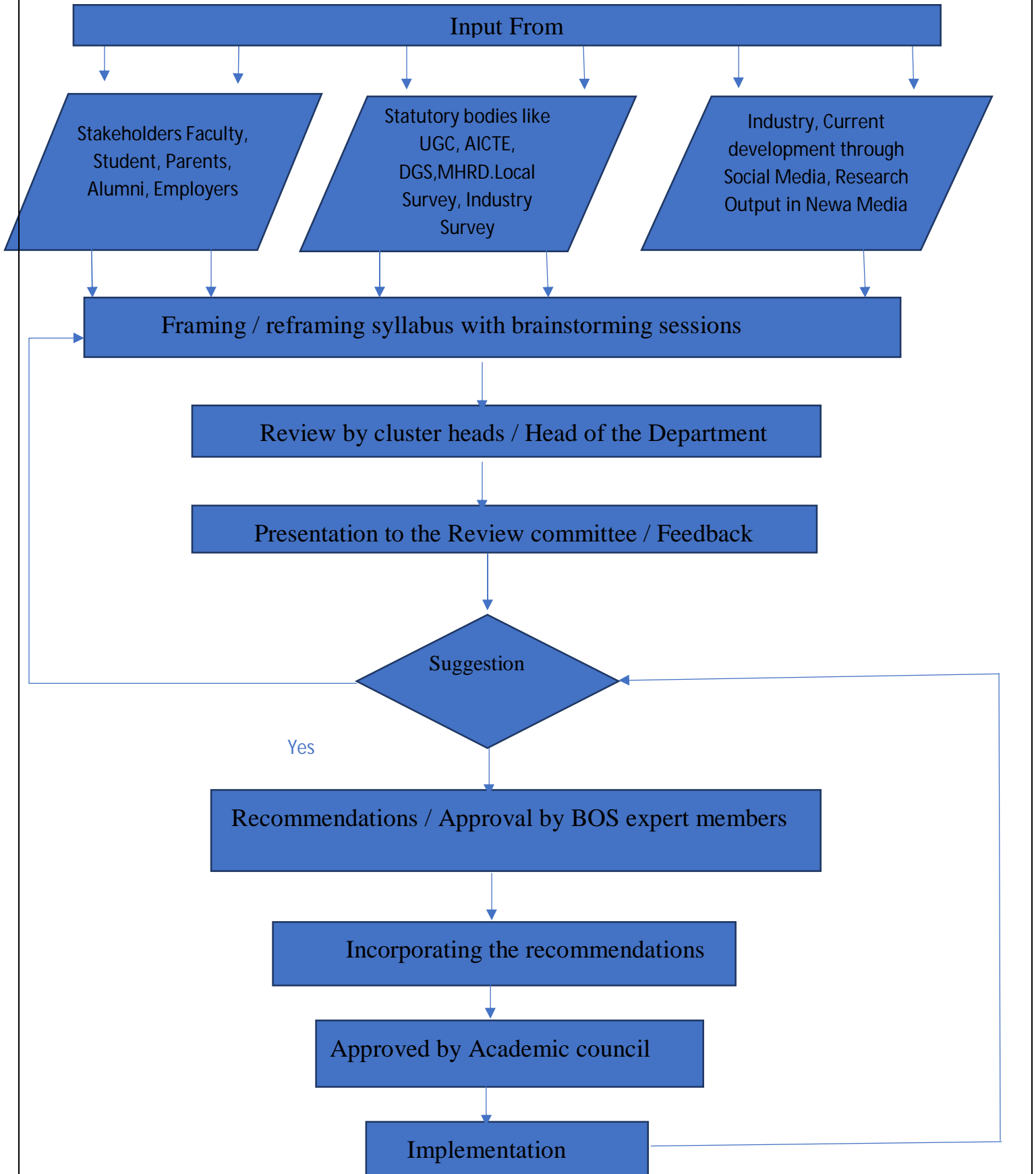
## **Validation**

All the existing courses developed by the University are also reviewed periodically to ensure that they are continuing to be effective and meet user's needs. Where changes are necessary, Vice Chancellor initiates action for the required changes.

It is performed to ensure that the course meets the learner's/ client's requirements. This is done through approval of client/ awarding body/ external institution and treating the first course as a pilot course to ensure that the user's needs are met. After the feedback is received on the first course, it is analyzed to verify whether the course and course modules are meeting the user's needs. The course is then approved after the above validation.

Feedback is also solicited from the faculty members with regard to the duration of time allocation, contents etc.,

## Creation or Revision of New Courses Process



AMET is frequently organizes various conferences and seminars, collects and analyse feedback from various stakeholders, conducts meetings with various statutory and advisory bodies such as International Advisory Board to forecast, identify and update various needs across all dimensions. With these, the University has the vision to empower learners with wholesome knowledge through progressive innovation in training, research and development which will render students a unique learning experience and a transformation impact on the Global Society.

### **Directorate General of Shipping Courses**

The International Maritime Organization (IMO), Directorate General of Shipping (DGS) and Standards of Training, Certification and Watch keeping for Seafarers (STCW) regularly deliberate the global trends and the emerging scenario in the Maritime Industry and evolve various initiatives to be taken care by the industry and the educational institutions to ensure the relevance of the work carried out in the industry and the programs offered by the educational institutions.

Regular updates and key information are obtained by the faculty members from the senior academicians, technocrats from the industry, practicing professionals and visiting shipping companies etc.

The information obtained from the above sources along with the analysis of the feedback from the stake holders is compiled and a proposal is forwarded to the Academic Council for approval to amend the curriculum.

Curriculum & Syllabus of the following courses were revised extensively as per IMO convention of STCW 2010 amendments:

- B.Sc (Nautical Science)
- B.E. (Marine Engineering)
- Graduate Mechanical Engineering (GME)
- Electro Technical Officer (ETO)

As 90% of cargo transportation in our Nation is by sea, AMET creates a positive impact

by grooming students through our highly innovative & specialized curriculum to become successfully employable in this sector and contribute significantly towards the growth of the National GDP.

### **Non-DGS Courses**

Even though DGS Engineering programme following rules and regulations of IMO, it also complies with UGC, MHRD and AICTE rules and regulations. Apart from those courses AMET university conducting other Bachelor of engineering programme in Naval Architecture, Electrical and Electronics Engineering, Petroleum Engineering, Mechanical Engineering, Mining Engineering and Food Processing Technology. It also conducts non-engineering programme in BBA shipping, B.Com Logistics and Computer Applications and B.Voc. All these programmes complies with rules and regulations of UGC and MHRD. AICTE rules and regulations are applicable to all engineering programmes. AMET University conducts post graduate engineering programme in Mechanical Engineering, Electrical and Electronics Engineering; Naval Architecture Engineering, Petroleum Engineering and Management studies. The University has robust system to design, develop and update the curricula and syllabi for various programmes. The University has introduced the Choice Based Credit System in 2015-16 and Outcome Based Education in 2018-19. The curricula and syllabi of the programmes offered are stated with clear course outcomes, programme outcome and programme specific outcomes which aligns with the vision and mission of the University.

### **Curriculum Enrichment**

Since the Education sector is dynamic in nature, curriculum is revised as and when required. The University has formulated a two tier board, the departmental level and other common for all the department levels. Regular feedback is obtained from the stakeholders namely the members of the faculty, peer group and students and reviewed at both the levels of the board. Every department has constituted an international advisory board to give necessary inputs.



The departmental Board Of Studies makes necessary suggestions and recommendations which are forwarded to the central board, Academic Council for further deliberations and approvals. The approved decisions are implemented in the subsequent academic year.

Objective of both the boards is to ensure that there is a continuous improvement, upgradation of the curriculum is upgraded to make it socially relevant, highly job oriented with adequate knowledge to meet the ever-growing industrial needs and the emerging technology.

### **Conferences/Workshops Arranged on Curriculum Development**

#### **(Photos to be included)**

1. International Video Conference on "Industrial Application of Mathematics", organized by Dept of Mathematics, on 07 Jan 2020
2. Centre for ICT Enabled Education and Department of Information Technology organized Faculty Development Programme on E-Learning Content Authoring and Tools, on 06 Dec 2019
3. Department of Physics organized Faculty Development Program on Teaching the Concepts of Materials Science and Their Applications held at DNV Hall II, on 18 Nov 2019
4. Internal Quality Assurance Cell (IQAC) and Human Resources Development Cell (HRDC) organised workshop on E-Content Development for MOOC Platforms at DNV Hall II, on 26 Nov 2019
5. Department of Mathematics organized Faculty Development Programme on Recent Development in Applied Mathematics held at Library AV hall from 05 - 07 Nov 2019
6. Centre for Human Resource organized Faculty Development Programme on Ethics and Human Values at DNV Hall II, on 24 Apr 2019
7. AMET organised a One day workshop on Implementation of Outcome Based Education held at Shri Janakiraman Auditorium, on 09 Mar 2019
8. Dept. of EEE organised one day workshop on Outcome Based Education For NBA Accreditation Process by Dr. Baskar Subramanian, Thiagarajar College of Engineering, Madurai on 28 Jan 2019 at Shri Janakiraman Auditorium

9. Faculty Development Programme on Effective Teaching in the Class Room, organised by Human Resource Development Centre, on 14 Sep 2017
10. Workshop on 'Effective Performance Evaluation', organised by Office of the Controller of Examinations, on 1 Sep 2017
11. One Day Workshop on ICT Enabled E- Learning Tools, organised by Dept of Information Technology & Centre for ICT, on 14 Jul 2017
12. Workshop on 'Curriculum Development in CBCS Frame Work', organized by Centre for Curriculum Development, on 21 Apr 2017
13. Faculty Development Programme on Teaching Methodology, on 25 Nov 2016
14. Launching of Part Time E Learning Programme of B.Sc. Ship Operations Management & B.Sc. Ship Operations Technology for Higher National Diploma Holders, on 09 Jun 2016
15. Awareness Programme on Basis Human Rights & Value Education', organized by Equal Opportunity Cell, on 18 Apr 2016
16. Awareness Programme on 'Free and Open Source Software's, organized by Foss Club and Spoken Tutorial Programme (ERMDC), on 22 Mar 2016.

## **Conclusion**

Over the past several years, the University has strengthened its advisory, feedback and monitoring systems. Various learning outcomes depicted in the curricula of the programmes offered are analysed for attainment at different levels through direct and indirect assessments. The curricular gaps are filled by offering value added courses and skill development programmes to ensure the outcomes are attained completely. The University is offering all the mandatory courses notified nationally. The realization of global and national needs is evidently shown through the University's record on placement, higher studies and entrepreneurial students.