



Employability/Entrepreneurship/Skill Development

Introduction

AMET University vision, mission statement shows that how the university focuses on student's employability, Skill development and promotion entrepreneurial initiatives. The curriculum also emphasizes training of students keeping in view the employability in private and public sectors. Further, University has incorporated the themes on ethics and social responsibility in the course curriculum of various departments that help the students to develop themselves into professionals who are not only equipped with technical knowledge and skills but also develop their emotional, social and spiritual skills by making them successful and responsible citizens of the society. **Employability, Innovation and Research these are the three pillars of the curriculum**

Employability

While designing and developing the curriculum, employability factor is given due consideration by incorporating the industry requirements obtained through feed backs from the experts while their visit to the campus and alumni interactions. Subsequently, various aspects of the feedback are suitably incorporated in the curriculum such as field work, laboratory work, Skill related activities like soft skills, industrial visits, study tours and internships. **Few highlights**

- The curriculum includes internship to be completed by every student for a specified period – for different programs. During the internship, students are posted in the Marine Industry/ Ships to undergo hands-on experience and to interact with the Marine Professionals.
- Faculty members are well experienced in the industry and guest lectures by experts in the industry are arranged at frequent intervals.



- Project works are part of the curriculum.
- Soft skills and Communication skills are also part of the curriculum
- Pre-placement training
- Familiarization with current Engineering software tools like TRIBON, ANSYS etc., is incorporated.
- National Level symposia are organized by the students to get leadership quality and organizing capability.
- **Enhancing the employability** through degree programmes offered for which University extends support services such as
 - Career orientation programmes
 - Personality development programmes
 - Foreign languages
 - Pre-placement trainings
 - Aptitude trainings
 - Training for interview skills
 - Soft skills and spoken English

Online courses approved by AMET and offered through various **MOOC** platforms such as **NPTEL** and **SWAYAM** are recognized by AMET as part the curricular requirements. AMET encourages students to choose online courses both in core, elective and skill development/humanities courses.

As an alternative mode of teaching learning practice students are given opportunities to take up research oriented, **mini projects and major projects** as their curricular requirements.

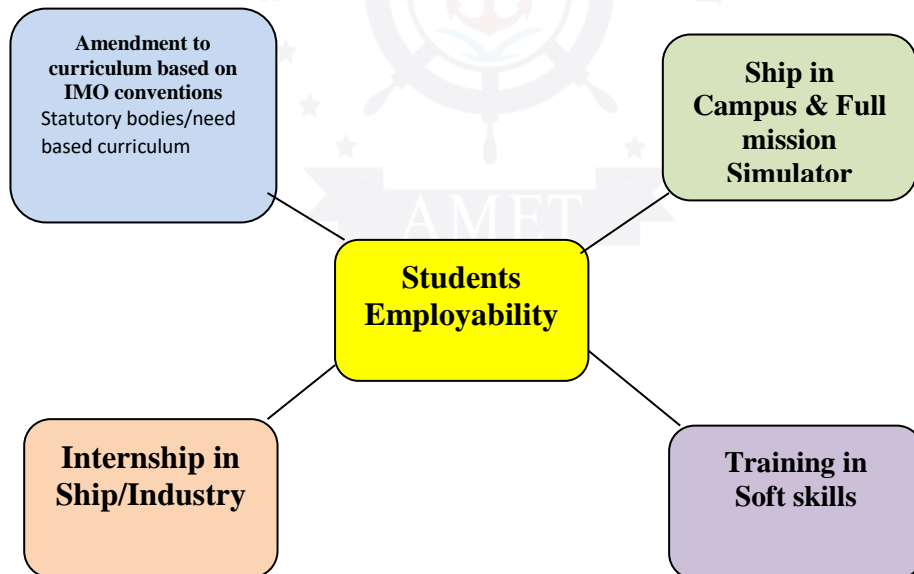


Research work

Research Curriculum encourages enhancement of research acumen in the students by incorporating dissertations, research-based projects and assignments which cover all the aspects of Course related projects and research methodology.

All the programmes offered for both at UG and PG levels are having research as an integral component of the curriculum by allowing students to undertake industry internships, mini projects and final year major projects. This research based learning experience provides students a competitive advantage at an international level.

Employability through Curriculum design development





Skill Development

AMET offers maritime sector specific certificate and short term programmes for serving seafarers and marine aspirants such as:

- Electro Technical Officer (ETO)
- Graduate Mechanical Engineering (GME)
- Standard of Training Certification and Watch keeping (STCW)
- Global Maritime Distress and Safety System (GMDSS)
- Post sea modular courses

These programmes are competency based modular programmes as per the requirements of International Maritime Organization (IMO) that can be offered only as certificate / short term programmes. Apart from the above additional courses AMET provides Skill development courses through core and allied subject practical. Skills of real time industry provided through internship, Industrial visit and Projects.

Entrepreneurship

AMET develops the entrepreneurship skills of the students through the Entrepreneurship Development Cell by guest lecture and seminars. At the same time AMET provides and improves students self-employment capability through curricula also by introducing Industrial Management for Engineers course etc. AMET also insists through curricula by introducing applications of that course in the 5th Unit of each course. This will help the students to understand the course and think about real time implementation. This will lead to their self-employment confidence.



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SAMPLE FOR CLASSIFICATION OF COURSES





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FLUID MECHANICS LABORATORY – SKILL DEVELOPMENT



WORKSHOP (FITTING) LABORATORY – SKILL DEVELOPMENT



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THERMAL ENGINEERING LABORATORY – SKILL DEVELOPMENT





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WORKSHOP (CARPENTRY) LABORATORY – SKILL DEVELOPMENT



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WORKSHOP (PIPE FITTING) LABORATORY – SKILL DEVELOPMENT



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MARINE ENGINEERING (SHIP IN CAMPUS) LABORATORY – SKILL DEVELOPMENT



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WORKSHOP (WELDING) LABORATORY – SKILL DEVELOPMENT



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PARADE – SKILL DEVELOPMENT



GUEST LECTURE ON “RESPONSIBILITY OF SEA FARERS”-EMPLOYABILITY



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- DUTIES**
- Line tracing
 - Engine room rounds and log book
 - Transfers
 - Oils
 - Water Tests
 - Oil Tests
 - Purifiers Overhaul & Troubleshoot, Safety Checks
 - Compressors Overhaul & Troubleshoot, Safety Checks
 - Boilers Burner Cleaning, Safety Checks
 - Generator, Filters, Fuel Pump, Safety Checks
 - Main Engine mountings overhaul
 - STP Maintenance and dosing
 - Safety Checks

**GUEST LECTURE ON “LIFE AT SEA FOR AN ENGINE CADET”-
EMPLOYABILITY**



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ENTREPRENEURSHIP DEVELOPMENT PROGRAM- EMPLOYABILITY



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**WORKSHOP ON “INDUSTRIAL APPLICATION OF MATHEMATICS”-
EMPLOYABILITY**



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GUEST LECTURE ON “RECENT DEVELOPMENT OF GRAPH THEORY AND ITS APPLICATION”- EMPLOYABILITY



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GUEST LECTURE ON “OPPORTUNITY OF MARINE ENGINEERING IN INDIAN NAVY”- EMPLOYABILITY



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**GUEST LECTURE ON “LATEST AUTOMATION ON BOARD SHIPS”-
EMPLOYABILITY**



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GROUP DISCUSSION –EMPLOYABILITY



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GUEST LECTURE ON “SHIP MANAGEMENT” – EMPLOYABILITY



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PLACEMENT TRAINING TO CADETS – EMPLOYABILITY



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HABOUR CLEANING – ENTREPRENEURSHIP DEVELOPMENT



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AWARENESS ON FIRE FIGHTING- ENTREPRENEURSHIP DEVELOPMENT



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COASTAL CLEANUP- ENTREPRENEURSHIP DEVELOPMENT



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ACT OF GOODNESS- ENTREPRENEURSHIP DEVELOPMENT



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AWARENESS ON DRUG ABUSE-ENTREPRENEURSHIP DEVELOPMENT



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AWARENESS ON ROAD SAFETY – ENTREPRENEURSHIP DEVELOPMENT



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Conclusion

AMET University not only provides theoretical knowledge but also provide related practices through laboratory. While designing the syllabus, it takes care of social needs, Industry needs and social responsibility through entrepreneurship development courses. AMET provides all industrial and social requirement not only through curricula but also through guest lecture, video lecture, industrial visit, internship, field project and industrial owners guest lecture.

