



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

## **ACADEMY OF MARITIME EDUCATION AND TRAINING (AMET) DEEMED TO BE UNIVERSITY**

AMET DEEMED TO BE UNIVERSITY, 135 EAST COAST ROAD, KANATHUR  
603112

[www.ametuniv.ac.in](http://www.ametuniv.ac.in)

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

**Academy of Maritime Education and Training (AMET)** is India's first deemed to be University in **Maritime Education, Training and Research recognized by Ministry of Education** under *de novo* category. It is a pioneering University with membership in **International Association of Maritime Universities (IAMU)**, Japan. AMET is ranked **Third among the Maritime Universities of World in PIMET** (Performance Indicators in Maritime Education and Training) Ranking of the IAMU for three consecutive years. The University is accredited by **NAAC** and also by **Directorate General of Shipping (DGS)**, Government of India with **Grade A1 (Outstanding)** through Comprehensive Inspection Programme (CIP) for the past five consecutive years. AMET has **ISO 9001:2015** certification from the globally renowned DNV-GL, Norway. AMET produced over 15,000 graduates who are occupying indispensable positions in the shipping and allied industries and service sectors all over the World. Over 3500 students are pursuing various Programmes ranging from Degree to Doctoral programs through seven schools comprising of 16 departments in addition to two intensive research centres and seven specialized laboratories.

AMET is equipped with excellent infrastructure and ICT resources for **teaching, training, research and development, co-curricular and extracurricular activities**. AMET has strong International and National collaborations with renowned industry and academia through which the University organizes on-campus placements for students across all disciplines. AMET has successful programmes such as “**Admission with Appointment Order**” in which the **AP Moller Maersk**, the World's largest shipping company, has signed an MoU with AMET to recruit AMET students at the time of admission itself through a merit based selection process. The career guidance, entrepreneurship development activities and innovation promotional events have been found rewarding to the students to shape their future either in higher studies or as entrepreneurs. AMET is a pioneer in not only shaping the maritime knowledge pool and human resource development in India, but also through its associations with several growing maritime nations such as the Republic of Nigeria, Angola and Djibouti to help develop their Nation's maritime human resource.

The **Vision 2025** plan aims to make AMET a **one-stop solution** for all maritime related activities with clear action plan and benchmarks.

### Vision

AMET has strong Vision and Mission statements to aid its stakeholders to achieve their ultimate goal and vital mission. The Vision and Mission Statements of the University have been established by undertaking a systematic and meticulous consultation process with the help of the various stakeholders and the concerned committees.

### Vision Statement

To sustain identity as a World Class Leader in Maritime Education and 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.

## Mission

AMET will strive continuously to

- Impart **value-based higher education** and technical knowledge with uncompromising strides of outstanding quality.
- Emerge as a **Centre of Excellence** inculcating skill development in recent technologies in accordance with industrial trends.
- Create World-class research capabilities on par with the finest in the world and broaden students horizons beyond classroom education
- Nurture talent and entrepreneurship to enable all-round personality development among students.
- Empower students across socio-economic strata
- Make a positive difference to society through technical education

## Quality Policy

AMET is committed to provide the highest quality in education and be the most preferred Institution for pursuing marine and marine related courses.

This will be achieved by consistent focus on:

1. Providing a conducive, vibrant, progressive and enriching learning atmosphere.
2. Teaching Excellence and Research Output.
3. Global outlook and engaging with the world through learning, teaching and research.
4. Providing competitive advantage in gaining employment for further academic opportunities.
5. Maintaining excellent links with commerce and industry both national and international.
6. Complying with all applicable requirements and continually improving the effectiveness of Quality Management System.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

#### Major Strengths of the University are:

- AMET is the first private and deemed to be University (under section 3 of UGC act 1956) in the maritime domain under *de novo* category. AMET is shaping the Maritime Education by transforming the skill based maritime training into knowledge based maritime discipline.
- It has **secured Third rank among World maritime Universities** in the **PIMET** Ranking by IAMU, Japan.
- AMET is accredited with **Grade A1 (Outstanding)** by the **DGS**, Government of India for past five consecutive years
- AMET is a **Global Maritime Knowledge Hub** with all disciplines of Maritime Domain under one roof.

- AMET is a pioneer in offering all Maritime Domains as UG, PG and Research Programmes. AMET offers significantly unique Degree and Doctoral Programmes in India.
- AMET offers academic programmes for both on-shore and off-shore programmes
- AMET has created avenues to seafarers and aspirants to pursue structured academic programmes in all levels in India with credible approval from the **Directorate General of Shipping (DGS)** and **All India Council for Technical Education (AICTE)**.
- AMET's 25 years of association with Worlds' major shipping companies and allied industries, On-Campus placements are remarkable. Under "**Admission with Appointment Order**" scheme, AP Moller Maersk, Denmark, has signed MoU with AMET to recruit Nautical Science, Marine Engineering and Electro Technical Officers (ETO) at the time of admission itself through merit based selection processes
- For the first time in the World, AMET has established AP Moller Maersk-AMET **Centre of Excellence** to develop high quality manpower for shipping industry.
- AMET is the only maritime Institution in India which has tie-ups with foreign countries (such as Nigeria, Djibouti and Angola) to improve their maritime human resources
- AMET has Faculty with over 30 years of sailing experience in all kinds of ships. Faculty Industry experience is exceptional in AMET.
- In the Maritime Research Front, AMET stands as a path setting Institution where structured Doctoral Research programmes are offered. AMET has produced **83 PhD scholars** in maritime and other multidisciplinary domains and over **200 scholars** are pursuing their PhD.

### **Institutional Weakness**

- The University is a **specialized University** which focuses on maritime and related domains with its inherent uniqueness. This core strength of the University itself seems to be a weakness in terms of ranking and accreditations where the University is assessed based on parameters meant for General Universities.
- In Maritime Programmes, as per the approval of the Regulatory Body, Directorate General of Shipping (DGS) the qualification of teachers, student teacher-ratio, fee structure and opportunities for co-curricular and extracurricular activities are quite different from that of general Universities and that seems to be a limiting factor to face generalized accreditations and rankings.
- Various unique maritime programmes offered by the University requires distinctly qualified faculty with 2-3 decades of Industry experience. The DGS, Ministry of Shipping, Govt. of India has prescribed Certificate of Competency as the eligibility criteria for faculty appointment. While the Regulatory Authority DGS approved Faculty with required Certificate of Competency as basic qualification, getting PhD qualified Faculty in these special and unique programmes is a hurdle
- The maritime programmes are highly employable in nature even at undergraduate levels, the students obtain placements even before the completion of the programmes. The average salary and career growth are extremely high. Hence, the assured placement opportunities actually reduces the zeal among the students to pursue higher-level education or to take up entrepreneurial ventures.
- Though the University provides various scholarships, fee concessions and promotional avenues, due to multitude of reasons such as lack of awareness, assumed perceptions, reduced family encouragement, managing cultural differences and work life balance, the number of girl and physically challenged students opting for maritime programmes is rather less.

### **Institutional Opportunity**

Being a *de novo* category deemed to be University dedicated to the Maritime Education and Research AMET has the following opportunities:

- To introduce more **job oriented, advanced programmes at UG and PG level** in the emerging areas of Maritime Studies, Marine Science and Technology
- AMET shall promote entrepreneurship among the students of maritime studies who normally choose only jobs.
- Being the first and only University offering a range of UG, PG and PhD programmes in maritime and allied domains, AMET has the opportunity to produce the finest intellectual capital to the entire World through students from all social strata from India and abroad
- AMET has the potential to provide a blended learning experience to all the students and also to provide online programmes with appropriate approval during the post-Covid period
- AMET shall become the mentoring Institution for establishing and promoting more such wide focused maritime educational Institutions in the Country
- AMET shall inculcate the most recent technological advancements in all its academic and research focus. For example, areas such as communications, autonomous ships, smart shipping, robotics, artificial intelligence, machine learning, digital sensing, Data Mining, big data and analytics, solar and wind power for ships etc.
- AMET's long-term association with shipping industry is capable of creating a variety of placement opportunities for the students.
- The University can design and develop novel programmes in marine and maritime studies to suit women candidates also.

### **Institutional Challenge**

- The shipping and its allied industries are niche industry and the cost of marine-related accessories and software is too expensive and this escalates the investment budget for the University. Being a self-supporting University, AMET has a huge challenge of generating revenue through its own resources
- The University has the challenge to comply with three different Regulatory/Statutory bodies (UGC, AICTE and DGS) and various accreditations (NBA, NAAC). Being an unique University, AMET has deep challenges to mould itself into various generalized formats of assessment
- Promotion of women and physically challenged students to get admitted in the maritime and related programmes is a challenge to the University

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

- AMET has precisely stated vision and mission statement to produce efficient and energetic cadets and students to contribute to the Nation's growth.
- The University introduced the **Choice Based Credit System (CBCS) during 2015-2016** academic year to practice the **Outcome-based Education (OBE)** in the teaching-learning process.
- All the programmes offered by the University have well-defined **Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs)**.
- Every course has a Course (Educational) Objective and Course Outcome.
- **Department Advisory Committee (DAC)** comprises of all the stakeholders, offer inputs and

suggestions for the curriculum development.

- AMET has academic flexibility in its regulations by the way of providing **Open Elective Courses** and **Programme Elective Courses**.
- AMET encourages **Self Learning Courses, Peer Assisted Learning, value-added courses and industry projects** to make the students industry ready.
- AMET's popular pedagogies include Flipped Class Room, Skill development, Case Studies, project-based learning, Alumni Interaction, Internship in reputed Industries, etc.
- To enrich social knowledge and create awareness of constitutional obligations, Environmental Science, Traditional Indian Knowledge Systems, Human values and Professional Ethics, NPTEL/SWAYAM courses etc., have been included in their curriculum.
- Curriculum and syllabi are reviewed by Peers including International Advisors of the Departments.
- The **Board of Studies (BoS)** comprises of all stakeholders, including current students, alumni, industry representatives and teachers, who regularly modify and introduce new courses to enhance programme outcome.
- Mandatory industrial internship, communication and soft skills, personality development, leadership and other Career Development Programmes contribute to student's confidence-building.
- All the programmes are offered and evaluated based on OBE and Continuous Improvement Model.
- Yoga is one of the **value-added courses** provided by AMET to all students to improve their mental and physical health.
- **Feedback System** helps all the Departments and Management to improve curricula and syllabi.
- Feedback from all stakeholders, including **Students, Parents, Alumni, Employers, and Faculty** are periodically obtained, analyzed, action plan arrived and corrective actions are taken where necessary to improve the system

## Teaching-learning and Evaluation

- Admission based on Admission Policy as per **DGS, UGC and AICTE** norms with National Level Entrance Examination.
- The Reservation norms of Government of India (**50% for SC, ST and OBC**) followed.
- Reserved category, differently abled and special category students (sports achievers) supported through various scholarships from University, Government and NGO
- Psychometric tests and mentor analysis helps to classify slow and advanced learners; supporting plans, remedial coaching organized.
- Bridge courses, orientation programmes and Induction programmes conducted every year
- **100% of classrooms ICT enabled.** 100% of teachers utilize ICT resources. AMET has LMS: **CAMU (2020), uLektz (2018) and SMART ERP (2008)**
- Student centric teaching learning methods such as computer simulations, case studies, tutorials, concept mapping, flipped class activities, group discussions etc., organized
- Centre for ICT Enabled Education, Education Materials Resource Development Centre, Media Centre, Audio Visual Centre available
- Digital resources:
  - **Software** (Maxsurf, Surpac, Siemens StarCCM+, MatLab, ViewKeil, Tribon, MIKE21, Ansys, Solidworks; ARI-Drilling Simulator etc)
  - **Databases** (IEEE, ProQuest, DELNET, Scopus, ScienceDirect; remote access possible via INFED)
- Industrial Connection made through syllabus development, field visits/Industry visits, industry internship, industry projects, guest lecture, seminar-conferences, value added courses.

- Strong Mentor Mentee system (Green Card System) **Ratio 1:18**; Student Counselor available
- Faculty appointments as per norms of regulatory bodies (UGC, AICTE, DGS)
- 88 Faculty with PhD; Faculty retention is higher; Average experience more than 3 years.
- 80% of Faculty either participated in FDPs and/or received awards/recognitions with incentives
- AMET has well written Examination Manual; Examination processes 100% automated through CAMU LMS and SMART ERP. Examinations, Evaluations and proctoring are done online. Results are declared within 12 days after exams; Grievance redressal mechanisms available
- Choice Based Credit System (CBCS) and Outcome Based Education (OBE) implemented in all Programmes since 2015.
- The Course Outcomes (COs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) derived from Graduate Attributes (GAs) are integrated in curricula and syllabi and its attainments are measured through direct and indirect assessment tools
- Online/Offline Feedback collected and analyzed; action taken reports made to improve teaching learning process.

### **Research, Innovations and Extension**

- Being a unique and sector focusing University, AMET has established policies and procedures for promotion of research, innovation and extension and implemented the same through various systems and procedures.
- Academic Research is promoted by providing Full Time Research Fellowships (Rs.15,000) for the full time PhD scholars.
- Annual Fee waived off for fulltime PhD scholars and Faculty doing part time PhD in AMET. The total fee waiver per year amounts to Rs. 48 Lakhs
- Eighty-Three PhDs awarded so far; 68 PhDs in last five years.
- Full time PhD scholars-51; Part time PhD scholars-155 (including 57 AMET Faculty)
- AMET provides incentives/financial supports to researchers for their awards, recognitions, publications, patents, higher studies, IPR, and innovations (Rs 112.36 Lakhs).
- Four Faculty produced MOOCs in 3 platforms (Vidyamitra, Udemy, Teachers Academy); More than 300 E-contents by Faculty in University LMS
- AMET encourages Faculty to get funded projects, industry and consultancy projects.
- The University provides seed money (Rs.114.92 lakhs) for Faculty to strengthen their research capabilities and to attract external funds.
- Thirteen Faculty have jointly generated a research based revenue of Rs.449.23 Lakhs through Govt. funded projects
- Thirty Faculty have generated Rs.65.43 Lakhs through various Non-Government sources for their research and consultancy services
- Seventy-one student innovations are funded with Rs.46 Lakhs
- ATBI incubated 8 companies and promoting six start-ups.
- Business Incubator is approved by Ministry of Micro, Small and Medium Enterprises, Govt. of India given Rs.350 lakhs through MSME-CLCSTUS scheme
- AMET IPR Cell, filed and published 45 patents; One patent granted. No. of Events on innovation and entrepreneurship-225; Faculty and students awards for research/innovation-237
- AMET published 2180 research papers in journals listed in Scopus, Web of Science and other UGC-CARE List. More than 613 books, book chapters and conference proceedings are published with ISBN.
- Revenue from Industry Projects, Consultancy and Corporate Training is Rs. 456.21 Lakhs; Rs.136.86 Lakhs shared with faculty as per Consultancy Policy

- 343 extension/outreach activities conducted; received 124 recognitions/awards from Government and NGOs
- More than 90% of the students have participated in these extension activities
- Functional MoUs: 92

## Infrastructure and Learning Resources

AMET is constantly developing, upgrading and maintaining infrastructure for teaching-learning, research, student support and other common facilities to have adequate facilities as per the requirement.

- Seven academic/administration blocks
- 82-laboratories, three simulators (ship engine, ship navigation and Petroleum Engineering), 7 specialized laboratories.
- 100% of the classrooms (117) and Seminar Halls (11) are ICT enabled; Total campus has internet connectivity (1.1 GBPS) with WiFi and LAN under NKN
- Common Computer Centre – 2 (608 computers; dual core i3-i5 processors; 6th/7th Gen); Student-Computer Ratio 3:1; Total Computers-1132
- 7-Research laboratories and specialized software like MIKE21, Tribon, Bentley Maxsurf, Star-CCM+, BentleyMoses, Drilling Simulator
- 119- Smart boards, 128-LCD Projectors, 122-Laptops, 3- LED TVs, Two Conference Halls; one Auditorium
- Two LMS-CAMU and uLektz; One ERP System: SMART.
- Dr. V.B.S. Rajan Library (2342 sq.m; two floors; 700 seating capacity; Air conditioned) fully automated AUTOLIB - ILMs software with Web-OPAC, RFID, Barcode Scanner, reprographics facility, Talking Library, Digital Knowledge Centre, Book Bank, Research Corner, Audio-Visual Hall.
- Databases/e-resources available: IEEE, ASME, J-gate, DELNET, ProQuest, Scopus, ScienceDirect, EBSCO, Shodhganga, e-ShodhSindhu etc); Remote Access through INFED-INFLIBNET
- Library has **1,02,738 books**; e-journals – 49,718; print journals-132; e-books- 79,435
- **EMRDC-Media Centre** with video recording and audio-video mixing devices, editing software etc. (Produced 4 MOOCs; 326 E-Contents; 265 video lectures)
- Playgrounds (outdoor game facilities-9; indoor game facilities-5), gymnasiums (boys-2; girls-1), Yoga Centre, Cultural Club etc.
- Parade ground (2495 Sq.m) for routine roll-calls, cultural, social and recreational events; it serves as an **Open Air Theatre** for weekly film screening.
- Hostels (Girls Hostels 3; Boys Hostels-5; total capacity-2900 students; dining halls 7)
- Swimming Pool, Cafeteria, Canteens Stationery Shop, Saloon, ATM, Health Care Centre, TV Hall and Common Rooms, etc.
- Maintenance and upgradation of physical facilities infrastructure through standard policies and procedures (ISO 9001-2015 Quality Management System)
- Two Solar Power Plants (30 kw): connected to Grid; certified by TNEB
- Sewage Treatment Plant (530 KLD capacity), Composting Pits 3; Biogas Plant-1 (50 kg)
- Two generators (600 KVA, 500 KVA) for Power backup
- Annual Maintenance Contracts (AMC); MoU with National Small Industries Corporation (NSIC) for Maintenance and Calibration of lab equipment
- Insurance available for major facilities.



## Student Support and Progression

- AMET gives paramount importance on student support and progression. University facilitates the scholarships/fellowships through its own resources, NGOs and Government Agencies.
- AMET's own scholarship given to more than 3,000 students (Rs 589.92 lakhs); full tuition fee waiver for PG programmes.
- 480 students received government scholarships, 548 students received NGO (NAESEY) Scholarships worth Rs 4.98 lakhs
- Career Development Centre (CDC), AMET Centre for IELTS, Placement Centre and Department level Clubs organize career counselling, coaching for competitive examinations and skill development in collaboration with external agencies such as EBK, SCALE-UP etc. CDC organized 55 capacity/skill enhancement programme/workshop. More than 80% of the students benefitted.
- Around 68 % of students received on-campus placement in companies (India and Abroad) with average salary package Rs.3.30 Lakhs per annum through Placement Centre.
- 107 students appeared in competitive examinations and 79 students cleared such examinations; Students also undergo higher studies and take up entrepreneurial ventures.
- 96.37% of the students have participated and benefitted in career development events.
- Value added courses and special programmes for capacity enhancement, soft, communication and life skills are organized along with awareness programme on latest trends and technology.
- University enabled grievance and feedback systems through online and offline. Students are sensitized through various events on processes for grievance redressal. Grievance Redressal Committee, Committee Against Sexual Harassment, Anti-Ragging Committee help to implement and monitor guidelines of Statutory/regulatory bodies and to ensure timely redressal of grievances.
- The Student Council provides suggestions and recommendations for University development; Represents the student requirements; Address the student welfare.
- More than 300 students have participated and received 117 awards and medals for their outstanding performance in sports and cultural activities.
- University has organized more than 103 sports and cultural events.
- AMET Alumni Association (AAA) registered with 12218 members has two Overseas and two Indian Chapters. AAA contributed more than Rs 1 crore to construct a Hostel and Media Centre.
- AAA funds **Earn While You Learn Scheme** and **Entrepreneurship** Development Centre (EDC).
- Alumni takes part in Board of Studies, Academic Council and IQAC.
- Alumni gives Guest Lectures and assists in student placements.

## Governance, Leadership and Management

- AMET progress towards **Vision 2025**, namely to become **International Maritime Knowledge Hub** is effectively monitored through systems and procedures
- The University has clear governance set-up; well-defined through organogram; structured hierarchy of leadership followed to ensure decentralization and participative management through consultative processes
- Various authorities, Officers and academic administrators are functioning as per MoA; ISO 9001-2015 policies and procedures; Roles and responsibilities are clearly stated in service rules available in website

- E-Governance is implemented in all areas of operations through SMART ERP and CAMU ERP/LMS
- Appointment and promotional avenues (Career Advancement Scheme) as per UGC guidelines with Academic Performance Indicators (API).
- Performance Appraisal is done through API scores for Teaching Faculty and non-teaching staff through structured system
- More than 46% of Faculty receive incentives and/or financial support to attend professional development events and membership in professional bodies.
- Over 300 professional development and administrative training organized
- More than 47% of teachers undergone Faculty Development Programmes.
- Internal (yearly twice) and external financial audits (one in a year); audited statements are published in website.
- The University mobilizes funds through tuition fee (**84.46%**), research grants by Government (**2.69%**), corporate training (**10.03%**), sponsored projects (**0.42%**) others including funds and grants from NGO, individuals etc. (**1.33%**) and philanthropists(**1.07%**)
- The University has effectively and optimally utilized the financial and physical resources with average surplus of **14%** which is utilized for infrastructure augmentation, student support and scholarships etc.
- Internal Quality Assurance Cell (IQAC) established in 2013 has institutionalized five major quality initiatives including implementation of outcome based education (OBE), promotion of ICT, promotion of research culture, identification of priority areas for quality improvement; formation of Core Working Group to facilitate quality initiatives through which University has achieved many laurels ( Five times Grade A1 (Outstanding) in CIP ranking of DGS; Three times ranked within top 3 in IAMU-PIMET Ranking; NIRF Rank-Band 200-250; ARIIA Ranking 25-50 Rank-Band; Four Awards for Green Campus Activities)
- Academic and Administrative Audit conducted every year
- IQAC conducted 33 events to promote quality attributes
- IQAC contributed towards incremental improvements in compliance with various committee reports including NAAC Peer Team Report of 2015 first cycle accreditation.

## **Institutional Values and Best Practices**

- AMET designed its programmes, activities and preferences for overall development of students to create a positive impact in the society.
  - AMET promotes Gender Equity through mandatory course on Gender Sensitization; Gender Champions; Gender Sensitization Cell (more than 70 events in five years)
  - Safety and Security: CCTV, 24x7 security; Common Rooms (separate for boys and girls), Day Care Center available; Counseling Centre with full time Counselor
  - Ensuring participation of all genders in administrative and academic committees and authorities.
- AMET is environment conscious and promotes sustainability
  - Use of alternative energy (2 Solar Power Plants; 30 kw; connected to grid; certified by TNEB; Biogas plant)
  - Energy conservation measures (use of LED bulbs-80%; sensor based energy control devices; use of power efficient equipment (5 star rated)
  - Collaborations for solid waste management (3 composting pits; vermicomposting)
  - Reduce paper usage; Paper recycle unit
  - Liquid waste management (STP-530 KLD capacity, FBBR type; recycled/treated water used for

toilet flush and ornamental plants)

- Biomedical waste management (incinerators)
- E – waste management through certified service providers; Received 3 awards
- AMET has rainwater harvesting (RWH) system (13 RWH pits) in all buildings; surface water storage by construction of tanks and bunds.
- AMET maintains water bodies in its campus and the neighborhood through the outreach activities of NCC, NSS and Eco Club of University.
- AMET banned plastic usage. Bicycles and battery powered vehicle usage are promoted. Pedestrian friendly campus; landscaping done with trees and plants; “No-Vehicle Day” observed.
- AMET conducts Green Audit, Energy and Environmental Audit annually (certified by WasmanPro Environmental Solutions LLP); Received three awards for green campus initiatives.
- Various Clubs/Centres/Departments/NCC/NSS/YRC organized environmental promotion and protection events in neighborhood community
- Five villages adopted for Unnat Bharath Abhiyan and Swachh Bharath Schemes.
- Barrier Free Campus; disabled friendly.
- Inclusive environment and cross-cultural harmony promoted through 343 activities
- More than 80 events organized on constitutional obligations, human values and commemorative days
- Code of conduct for students, teachers and Staff available in website. Awareness events conducted and audited for implementation of same

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the University	
Name	ACADEMY OF MARITIME EDUCATION AND TRAINING (AMET) DEEMED TO BE UNIVERSITY
Address	AMET Deemed to be University, 135 East Coast Road, Kanathur
City	Chennai
State	Tamil Nadu
Pin	603112
Website	<a href="http://www.ametuniv.ac.in">www.ametuniv.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Col.G.Thiruv asagam	044-27444625	9566112211	044-2747280 4	vc@ametuniv.ac.in
IQAC / CIQA coordinator	D.Arivazhaga n	044-27444627	9940296595	044-2747290 4	prof.arivazhagan@ ametuniv.ac.in

Nature of University	
Nature of University	Deemed University

Type of University	
Type of University	Unitary

Establishment Details	
Establishment Date of the University	21-08-2007
Status Prior to Establishment,If applicable	Other
Establishment Date	15-02-1993
Any Other, Please Specify	Directorate General of Shipping approved

<b>Recognition Details</b>		
<b>Date of Recognition as a University by UGC or Any Other National Agency :</b>		
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>
2f of UGC		
12B of UGC		

<b>University with Potential for Excellence</b>	
Is the University Recognised as a University with Potential for Excellence (UPE) by the UGC?	No

<b>Location, Area and Activity of Campus</b>							
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>	<b>Programmes Offered</b>	<b>Date of Establishment</b>	<b>Date of Recognition by UGC/MHRD</b>
Main campus	AMET Deemed to be University, 135 East Coast Road, Kanathur	Rural	10.22	54242	Seventeen		

## **2.2 ACADEMIC INFORMATION**

**Furnish the Details of Colleges of University**

Type Of Colleges	Numbers
Constituent Colleges	0
Affiliated Colleges	0
Colleges Under 2(f)	0
Colleges Under 2(f) and 12B	0
NAAC Accredited Colleges	0
Colleges with Potential for Excellence(UGC)	0
Autonomous Colleges	0
Colleges with Postgraduate Departments	0
Colleges with Research Departments	0
University Recognized Research Institutes/Centers	0

Is the University Offering any Programmes Recognised by any Statutory Regulatory Authority (SRA)		: Yes
SRA program	Document	
AICTE	<a href="#">106035 5466 1 1609125957.PDF</a>	

### Details Of Teaching & Non-Teaching Staff Of University

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned	36				59				158			
Recruited	23	9	0	32	47	10	0	57	102	46	0	148
Yet to Recruit	4				2				10			
On Contract	0	0	0	0	0	0	0	0	0	0	0	0

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned				188
Recruited	154	34	0	188
Yet to Recruit				0
On Contract	0	0	0	0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned				80
Recruited	77	3	0	80
Yet to Recruit				0
On Contract	0	0	0	0

#### **Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	23	9	0	12	9	0	23	11	0	87
M.Phil.	0	0	0	0	0	0	5	10	0	15
PG	0	0	0	35	1	0	74	25	0	135
UG	0	0	0	0	0	0	0	0	0	0

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

#### **Distinguished Academicians Appointed As**

	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Emeritus Professor	1	0	0	1
Adjunct Professor	0	0	0	0
Visiting Professor	14	0	0	14

#### **Chairs Instituted by the University**



Sl.No	Name of the Department	Name of the Chair	Name of the Sponsor Organisation/Agency
1	NIL	NIL	NIL

**Provide the Following Details of Students Enrolled in the University During the Current Academic Year**

Programme		From the State Where University is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	1879	1076	0	9	2964
	Female	50	45	0	0	95
	Others	0	0	0	0	0
PG	Male	156	63	0	1	220
	Female	11	7	0	0	18
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Does the University offer any Integrated Programmes?	No
------------------------------------------------------	----

**Details of UGC Human Resource Development Centre, If applicable**

Year of Establishment	Nil
Number of UGC Orientation Programmes	0
Number of UGC Refresher Course	0
Number of University's own Programmes	0
Total Number of Programmes Conducted (last five years)	0

**Accreditation Details**

Cycle Info	Accreditation	Grade	CGPA	Upload Peer Team
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				Report
Cycle 1	Accreditation	B	2.42	<a href="#">Annexure2.pdf</a>
Cycle 2	Accreditation	A	3.13	

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Amet Business School	<a href="#">View Document</a>
Chemistry	<a href="#">View Document</a>
Electrical And Electronics Engineering	<a href="#">View Document</a>
English	<a href="#">View Document</a>
Food Processing Technology	<a href="#">View Document</a>
Information Technology	<a href="#">View Document</a>
Marine Biotechnology	<a href="#">View Document</a>
Marine Engineering	<a href="#">View Document</a>
Maritime Commerce	<a href="#">View Document</a>
Mathematics	<a href="#">View Document</a>
Mechanical Engineering	<a href="#">View Document</a>
Mining Engineering	<a href="#">View Document</a>
Nautical Science	<a href="#">View Document</a>
Naval Architecture And Offshore Engineering	<a href="#">View Document</a>
Petroleum Engineering	<a href="#">View Document</a>
Physics	<a href="#">View Document</a>

# Extended Profile

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## 1 Program

### 1.1

#### Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
17	16	18	16	12

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 1.2

#### Number of departments offering academic programmes

Response: 12

## 2 Students

### 2.1

#### Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
3297	3299	3185	2840	2595

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 2.2

#### Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
945	840	813	730	601

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.3

### Number of students appeared in the University examination year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
3171	3237	3151	2837	2589
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

## 2.4

### Number of revaluation applications year-wise during the last 5 years

2019-20	2018-19	2017-18	2016-17	2015-16
30	23	35	32	31

## 3 Teachers

### 3.1

#### Number of courses in all programs year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
925	884	924	695	602
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.2

#### Number of full time teachers year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
253	254	172	107	148
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.3

### Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
253	254	172	107	148

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 4 Institution

### 4.1

#### Number of eligible applications received for admissions to all the programs year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
7388	6222	8061	5908	5088

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 4.2

#### Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
395	809	607	523	483

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 4.3

#### Total number of classrooms and seminar halls

Response: 128

### 4.4

#### Total number of computers in the campus for academic purpose

Response: 1132

## 4.5

### Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
6879.63	6449.25	5894.19	5058.57	4515.74

NAAC

## 4. Quality Indicator Framework(QIF)

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### Criterion 1 - Curricular Aspects

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#### 1.1 Curriculum Design and Development

**1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.**

**Response:**

- The mission statement of AMET clearly addresses the needs of the modern society through **Value-Based Education**. To actualize this vision, AMET introduced the **Outcome Based Education (OBE)** and **Choice Based Credit System (CBCS)** in the Academic Year 2015-16.
- AMET has developed diverse programmes with well-structured curricula **reflecting the graduate attributes, Local/Regional/National and Global** needs with all necessary fundamentals. These are comprehensively reflected in **Course Outcomes (CO), Programme Outcomes (PO) and Programme Specific Outcomes (PSO)**, and well integrated in curricula and syllabi.
- The University is keen on ascertaining the attainments of PO's, PSO's and CO's for the respective programs which in turn relates to Vision and Mission of the University and Department as well.
- AMET adopts the mechanism of collecting Local, Regional, National and Global needs by organizing various conferences and seminars frequently.
- Suggestions from the internal and external stakeholders (experts from Industry, Academia, Students Alumni and Parents) feedback analysis report plays vital role.
- Inputs from Academic Events like Conferences, Advisory bodies like Department Advisory Committee, obligatory bodies like Board of Studies and International Peers helps to forecast, identify and update various needs across all dimensions in the curricula and syllabi.
- The University has a robust system to design, develop and update the curricula and syllabi for different programmes, in relevance to the developments needs at various levels and of stakeholders.
- Such a robust curriculum design and development process enable the University to realize its vision to empower learners with wholesome knowledge through progressive innovation in training, research and development which will render students a unique learning experience and affects a transformation impact on the Global Society.
- The University has established the Board of Studies (BoS) in every Department, which is represented by all stakeholders including experts from academia, alumni and industries.
- Committees such as Department Advisory Committee (DAC), Programme Assessment Committee (PAC), Implementation and Monitoring Committee for OBE (IMCO), BoS and Academic Council monitor the implementation of OBE and report to the Board of Management (BOM).
- Over the past several years, the University has strengthened its advisory, feedback and monitoring systems.
- Various learning outcomes depicted in the curricula of programme offered are analyzed 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 that outcomes are attained perfectly and satisfactorily.
- The University offer all mandatory courses notified by the apex bodies.
- The realization of global and national needs is evidently shown through the University's record on placement, higher studies and entrepreneurial ventures.

AMET is an unique Institution which is governed by four apex bodies:

- The Engineering, Technology and Management Programmes of the University are governed by All India Council for Technical Education
- Commerce and Science programmes are governed by University Grants Commission
- Maritime Programmes are governed by Directorate General of Shipping, Government of India
- The entire University is governed by the Ministry of Education

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

### 1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.

**Response:** 89.87

#### 1.1.2.1 How many Programmes were revised out of total number of Programmes offered during the last five years

Response: 71

#### 1.1.2.2 Number of all Programmes offered by the institution during the last five years.

Response: 79

File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Details of Programme syllabus revision in last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill



## development offered by the institution during the last five years

**Response:** 80.47

1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
765	760	649	456	589

File Description	Document
Programme/ Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

**1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.**

**Response:** 46.53

1.2.1.1 How many new courses were introduced within the last five years.

Response: 1875

1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.

Response: 4030

File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).**

**Response:** 100

**1.2.2.1 Number of Programmes in which CBCS / Elective course system implemented.**

Response: 17

<b>File Description</b>	<b>Document</b>
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3 Curriculum Enrichment

**1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum**

**Response:**

AMET follows an **Integrated Curriculum Structure** that connects different areas of study by cutting across technical boundaries and emphasizing unifying concepts. Integration focuses on making connections for students, allowing them to engage in relevant, meaningful activities that can be connected to real life.

Socially relevant courses are offered in the areas of Gender Equality, Pollution Control, Environmental Safety, Health, Stress Management, Indian Tradition, Indian Constitution, Business Ethics, Professional Ethics, Management, Language and Disaster Management. These features not only make learning more challenging but also help students develop their abilities to make meaningful connections by applying and transferring knowledge to real time issues.

Given below are some of the courses in sample areas which integrates various cross cutting issues.

**Professional Ethics**

- Ethics and Corporate Governance (Course Code: PABS404)
- IPR, Bioethics and Biosafety (Course Code: UBFP801)
- Indian Ethos and Business Ethics (Course Code: PDBS109)
- Professional Ethics and Human Values (UDVCC06) is a compulsory course for all UG students

**Gender**

- Gender Sensitization (Course Code: UDGSC01) is compulsory for all UG students

## Human Values

- Ethics and Values (Course Code: UDVCC04)
- Essence of Indian Traditional Knowledge (Course Code: UDVCC10)

## Environment and sustainability

- Marine Environmental Protection and Environmental Studies (Course Code: UABTC02)
- Quality Health Safety and Environmental Management (Course Code: UANA610)
- Environmental Science (Course Code:UDBS305) is compulsory course for all students

Apart from curricular aspects AMET also organizes various programmes to add intensity to learning process like:

- Value Added Courses on promotion of **Human Values and Professional Ethics** such as (**Yoga and Human Excellence**) are offered
- Awareness Events on Energy Conservation, Environment protection, Waste Management and heritage sites maintenance are organized periodically
- Coastal Clean-up programmes conducted every year
- Blood donation Camps, organ donation campus organized
- Events on empowerment, welfare and equality of women are organized

AMETians graduate out both technically and practically fit usable to the society.

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

**Response:** 115

#### 1.3.2.1 How many new value-added courses are added within the last five years.

**Response:** 115

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Brochure or any other document relating to value added courses	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.

**Response:** 94.4

#### 1.3.3.1 Number of students enrolled in value-added courses imparting transferable and life skills offered year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
7022	2541	2203	1652	1419

### 1.3.4 Percentage of students undertaking field projects / research projects / internships (Data for the latest completed academic year).

**Response:** 96.21

#### 1.3.4.1 Number of students undertaking field projects or research projects or internships.

Response: 3172

File Description	Document
List of Programmes and number of students undertaking field projects research projects / / internships (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni**

**Response:** A. All 4 of the above

<b>File Description</b>	<b>Document</b>
URL for stakeholder feedback report	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Action taken report of the University on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>

**1.4.2 Feedback processes of the institution may be classified as follows:**

**Response:** A. Feedback collected, analysed and action taken and feedback available on website

<b>File Description</b>	<b>Document</b>
URL for feedback report	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Demand Ratio (Average of last five years)

**Response:** 5.2

##### 2.1.1.1 Number of seats available year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1520	1590	1256	1054	976

#### File Description

#### Document

Demand Ratio (Average of Last five years) based on Data Template upload the document

[View Document](#)

• Any additional information

[View Document](#)

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the last five years (Excluding Supernumerary Seats)

**Response:** 63.84

##### 2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
260	495	387	336	310

#### File Description

#### Document

Average percentage of seats filled against seats reserved (Data Template)

[View Document](#)

Any additional information

[View Document](#)

### 2.2 Catering to Student Diversity

#### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

**Response:**

The University assesses the learning levels of the students and organises special programmes for advanced and slow learners. At the commencement of every academic year, the University conducts the following programmes and assesses the newly joined students' learning levels.

1. Psychometric Analysis
2. Fresher's Orientation Programme
3. Three Weeks Induction Programme
4. Bridge Courses

During the Induction Programme and Bridge courses, the students' differential requirements and learning capacities are assessed. Slow and Advanced Learners are grouped to avoid discrimination among the students. However, the University organises special programmes to meet the differential needs of the slow and advanced learners.

Also, along with these programmes, University Departments have their modalities to assess student learning levels through formal mechanisms.

1. Continuous Internal Assessments
2. Seminar and Assignments
3. Classroom interactions
4. Mentor-Mentee Programme
5. Green Card system (Student Performance Analysis System of the University)

**Programmes offered for the Advanced Learners**

1. **Additional Credit Courses-MOOCs:** Advanced learners are provided with opportunities to undergo online courses through various MOOC platforms, including NPTEL. The credits earned through MOOCs is added as additional credits for the Advanced Learners
2. **Conference/Seminar Participations:** Advanced Learners are provided with financial support and mentoring assistance to attend and present papers in conferences and seminars
3. **Summer internships and special trainings** are arranged for advanced learners
4. **Student Project Funding** is a scheme of the University to support the innovative projects (beyond curricular requirement) financially
5. **Career Development Centre** organises various promotional events for the career advancement of advanced learners
6. **Institutional Innovation Cell and Incubation Cell** promotes and financially supports the innovative and entrepreneurial ventures of advanced learners. Hackathons are organized to identify the talents of advanced learners.
7. **Advanced Learners** are provided with many **incentives** such as additional cards for library, extension of the retention period, an extension of access to advanced E-resources etc. in the library and provided with various Membership in Clubs, Student Chapters of Professional Bodies

**Programmes offered for the Slow Learners and others**

1. **Remedial classes and special coaching classes** are organised for the slow learners to improve their performance and provided Question Banks; Study materials are made available in the University

LMS/Server.

2. **Bridge courses** are organised to bridge the gap in fundamental subjects
3. Through **soft skill training, professional development courses and spoken tutorial** are offered to all the students, slow learners are provided with additional care and support
4. **Tutorial Classes** are organised to provide a balanced learning experience for both slow and advanced learners who will also ensure that the slow learners are adequately addressed for their needs.
5. **Peer Learning** is promoted by providing assignments, internships, projects and co-curricular activities in small groups. The groups are made with a blend of slow and advanced learners to promote peer learning.
6. Slow learners are provided with opportunities to improve their performance in internal assessments by giving additional tests and assignments
7. Parent-Teacher Meetings are organized as part of the Green Card System to improve the performance of slow learners

File Description	Document
Upload Any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 2.2.2 Student - Full time teacher ratio (Data for the latest completed academic year)

**Response:** 14:1

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

### 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

**Response:**

The University is committed to provide student-centric methods for enhancing the learning experience with the following concepts:

1. Having a curriculum that makes students engage and become responsible. The assessment and feedback methodologies ensure the active participation of students in every part of the learning exercise.
2. Promoting the student participation in every step of learning; Choices are given to the students to choose their elective courses, valued-added programmes and add on courses such as MOOCs.
3. The University provides power and freedom to students regarding the content and period of study.
4. Promoting the outcome of the curriculum is equal for all levels of the students.



5. Promoting technology-enabled education to all students.
6. Student representatives are in academic level decision making bodies such as Board of Studies and Academic Council.
7. Promoting the teacher's role from the level of knowledge provider to the level of knowledge facilitator. Teachers acts as Guides.

### **Examples of student-centric methods followed in the University listed below:**

#### **Experiential learning**

- Industrial visits, ship visits, field trips (mandatory as per curriculum with credits)
- Flipped class activities followed
- Simulators are used in selected courses (Marine Engineering, Nautical Science and Petroleum Engineering) to augment the experiential learning
- Unique programmes such as Marine Engineering and Nautical Science have activities like PT, Parade, Roll-Call, and watch keeping, which are an integral part of the learning.
- Science, Technology and Engineering programmes have high weightage for the practical courses to increase the experiential learning.
- In Management and Commerce programmes, Business Labs and software are part of the curriculum.

#### **Participative learning**

- Mini Projects and Final Year Projects are given as group activities for UG students as part of the curriculum
- Quiz, Group Discussions, Group based practical and projects
- NPTEL and other MOOCs promote group learning
- Student Seminar and peer interactions
- Students take part to organize technical symposiums to exhibit their leadership qualities and organizational skills.
- Skill and professional development programmes, spoken tutorial and soft skill programmes promote the participative learning
- Cadet Captains are assigned in maritime programmes; platoons are made within classes to promote participative learning in maritime programmes
- Special programmes are organized for slow and advanced learners with their fullest participation.

#### **Problem-solving methodologies**

- Case studies are included in applicable courses for developing the students' problem-solving skills.
- Tutorial classes are organized for the selected courses as per curricular requirements
- Software courses/lab sessions are part of the curriculum
- Through Institution Innovation Cell (IIC), students are encouraged to take up practical challenges and to provide solutions with their innovative approaches
- Students undertake Field Studies and Field Projects in areas like Petroleum Engineering, Mining Engineering, Management and Commerce discipline where the societal problems are addressed for which solutions are identified by the students
- Students are encouraged and financial supports also provided for problem-solving research projects beyond curricular requirements

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

#### Response:

The University has modern ICT enabled tools to make teaching and learning process more effective. 100% of teachers and students are using ICT tools. ICT usage registers available in Departments; ICT usage through LMS is tracked with system generated periodical reports.

100% examination automation through ICT improved examination and evaluation process. Results are published within 12 days of exams.

EMRDC produced more than 326 e-contents in LMS including 265 video contents made available to public. Faculty of AMET have produced 3 MOOCs (Teachers Academy -2; Udemy-1) in private platforms and one in Government MOOC platform (Vidyamitra)

Cells/Centre for effective implementation, monitoring and promotion of ICT enabled education

1. Internal Quality Assurance Cell (IQAC)
2. Centre for ICT Enabled Education (CIEE)
3. Educational Materials Resources Development Centre (EMRDC)
4. Human Resources Development Cell (HRDC)
5. Centre for E-Governance

They also conduct ICT enabled education training programmes (29 events organized) for students and faculty.

#### ICT enabled education's tools and facilities

1. Learning Management Systems: uLektz, MYCAMU with Mobile App
2. SMART, an in-house developed ERP System
3. Media Centre facilitate E-content and MOOCs development with audio-video recording facility, editing software and mixing equipments
4. Audio-Visual Room
5. Full Mission Ship Simulator (Polaris and Neptune for both Deck and Engine Simulation)
6. Available ICT Tools: Interactive White Boards, Smart Boards, LCD Projectors, Audio-Video

- equipments, computers/laptops
- 7. 100% Wi-Fi enabled campus
- 8. High Bandwidth Internet Connection more than 1Gbps through BSNL-NKN network
- 9. Computer and Internet facility to all the faculty
- 10. Video Conferencing equipment
- 11. Facilities for Flipped Class activities
- 12. Digital Library Resources
- 13. Remote Access to Library Online Resources: INFED
- 14. Fully automated Dr VBS Rajan Library: RFID, Barcode, AUTOLIB, Web-OPAC
- 15. Students can bring their device (BYOD) for active learning inside the smart room
- 16. ICT enabled examination tools

### **Innovative Teaching and Learning practices through ICT**

1. **ICT is employed in Preparation of lesson plans** and compilation of study materials in digital forms.
  2. **Delivery of course content-** such as PowerPoint presentation, simulation of real-time problems, and animated video
  3. **Online assignments , assessments, online test and online proctoring**
  4. **Flipped Classroom activities** for deep learning and team building.
  5. **Virtual Classroom activities**
  6. ICT is used for **monitoring and recording** students' academic performance
1. Facilities (servers) and incentives are provided for the usage of NPTEL/SWAYAM and other MOOCs

### **Online resources for ICT Enabled Education**

- National Knowledge Network
- Video Conferencing Tools such as Google Meet, MS Teams, Google Classroom, Zoom App for online classes
- Online Assessment sites such as [www.mentimeter.com](http://www.mentimeter.com)
- Assessment and feedback through GoogleForms
- SWAYAM PRABHA
- National Digital Library of MHRD
- ShodhGanga and e-shodhsindhu
  - Online databases: SCOPUS, J-GATE, ProQuest, DELNET, IEEE, etc.

The University has utilized the fullest potential of its IT and ICT potential for teaching learning processes during the COVID-19 lockdown period where the University has completely moved into online activities such as online classes, online internal assessments, virtual laboratories, online examinations, proctoring of online examinations.

**LMS MYCAMU:** <https://www.mycamu.co.in/#/>

- <http://172.20.1.65:8080/smart/>
- <https://www.ulektz.com/>

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the " LMS/ Academic management system"	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 18:1

#### 2.3.3.1 Number of mentors

Response: 186

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 96.64

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. year-wise during the last five years

**Response:** 32.17

**2.4.2.1 Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
88	70	53	33	43

File Description	Document
List of number of full time teachers with Ph D/D M/M Ch/D N B Superspeciality/DSc/D Lit and number of full time teachers for 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)**

**Response:** 3.26

**2.4.3.1 Total experience of full-time teachers**

**Response:** 772

File Description	Document
List of Teachers including their PAN, designation, dept and experience details	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years**

**Response:** 0

**2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of award letters (scanned or soft copy)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

**Response:** 12.68

#### 2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
14.6	13.2	11.88	10.71	13

<b>File Description</b>	<b>Document</b>
List of Programmes and date of last semester and date of declaration of results	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

**Response:** 1.02

#### 2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
30	23	35	32	31

File Description	Document
Number of complaints and total number of students appeared year wise	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### **2.5.3 IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution**

#### **Response:**

Over the years, the examination processes and procedures such as continuous internal assessment and end semester assessment have brought considerable improvement in the examination management system.

Until 2019, the University was using **SEET (Software Enabled Evaluation Tool)** as part of SMART ERP, developed by Centre for E-Governance, user friendly, server based-secured Examination Management System. From 2019-20 onwards, CAMU LMS has been integrated with SEET to make it more effective and the entire process is now scalable to large extent. The EMS system is highly secured and fully controlled by Controller of Examinations. The information stored, exchanged and transferred/transmitted are end to end encrypted.

AMET has ensured automation and IT integration 100% in the examination and evaluation procedures and processes such as

1. Conducting internal and end semester examinations online
2. Proctoring of online examinations
3. Conducting Online Evaluation
4. OMR answer scripts
5. Online verification of Certificates (Direct Verify)
6. Embedding safety measures for the grade reports and degree certificates
7. Generating hall ticket
8. Generating mark entry sheet
9. Generating Grade report
10. Analysis of GPA and CGPA
11. Web portal for Examination under University website
12. SMS to parent and student regarding End Semester results

ICT helps in maintaining data of students like student details, attendance, Continuous Assessment Test marks and rank details etc.

The extent of automation through IT integration and subsequent reforms in examination processes have brought in remarkable improvement in the examination management system of the University. During COVID-19 lockdown period, AMET has exhibited its fullest potential by conducting entire examinations, evaluation and exam proctoring processes through online (**CAMU and SMART ERP**). Examination reforms are made to suit the changing scenario due to COVID-19 pandemic. AMET is very successful in completing exam processes and publishing results even during the lockdown period mainly due to the IT

integration and examination reforms.

### **Reforms in the examination procedures and processes through IT Integration**

AMET has made sincere attempts in reforming examination systems by the integration of IT in the examination processes in following ways

1. **Improvement in the conduct of examination and evaluation:** AMET has enhanced the measures such as centralized seating arrangement to reduce malpractices.
2. **Changes in instructional materials and methodology:** AMET has provided alternate study materials such as video lectures, additional web resources, multimedia presentations etc. These materials available on the website/LMS.
3. **IT Integration in the Examination for PhD programme**
  1. NPTEL and other MOOC courses are accepted for Course Work Examinations with suitable credits
  2. **Publications requirement** (at least two articles in SCOPUS indexed journals) are tracked with online resources
  3. **All DC Meetings, Pre-Ph.D. presentation and Viva Voce are also conducted online**
  4. **Online Plagiarism Checking:** All the research manuscripts, synopses and Theses are checked for plagiarism using the software, **URKUND** which is recommended by the UGC INFLIBNET. University allows only 10% of reproduced content (plagiarism) and insists 90% of the original content in manuscripts.
  5. **Foreign Examiners in PhD evaluation are permitted to submit their adjudication reports online**

<b>File Description</b>	<b>Document</b>
Year wise number of applications, students and revaluation cases	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

#### **2.5.4 Status of automation of Examination division along with approved Examination Manual**

**Response:** 100% automation of entire division & implementation of Examination Management System (EMS)



File Description	Document
Current manual of examination automation system and Annual reports of examination including the present status of automation	<a href="#">View Document</a>
Current Manual of examination automation system	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual reports of examination including the present status of automation	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

### 2.6.1 The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

#### Response:

- AMET offers degree programmes in the Science, Technology, Engineering, Management, Commerce and Maritime disciplines.
- The University implements **Outcome Based Education (OBE)** under **CBCS** for all the programmes since 2015-16. The teaching learning process is augmented with modern ICT tools.
- The University has robust procedure for the design and development of the curricula for degree programmes in compliance with various Statutory Bodies (Management, Technical and Engineering programmes are governed by All India Council for Technical Education (AICTE); Commerce and Science programmes governed by University Grants Commission (UGC); Maritime Programmes governed by Directorate General of Shipping (DGS); The University is governed by Ministry of Education).
- The graduate attributes of the Technological, Engineering and Management programmes are adopted from the Washington Accord and other programmes are in line with the Vision and Mission of the University.
- Graduate attributes, **Learning Objectives** (Programme Educational Objectives (PEO); Course Objectives) and **Learning outcomes** (Programme Outcome (PO), **Programme Specific Outcome** (PSO) and **Course Outcome** (CO)) are inculcated into the Curriculum of all programmes.
- These attributes, objectives and outcomes are mapped in the curricula and syllabi which are widely publicized through website and documents like manuals
- Curricula and syllabi of all the programmes are framed by considering the guidelines from UGC, AICTE, Professional Bodies, Stakeholders, Department Vision and Mission, PO's, PSO's, PEO's and University Regulations.
- The University ensures the stated learning outcomes which are integrated into the assessment process
  - Suitable assessment methods **both direct and indirect methods** are employed to **assess** the learners level to attain the different set of outcomes.
  - The outcomes are mapped for attainment of the same as per the identified schedule.
  - The University follows an assessment pattern in which 40% of the marks are obtained

through Continuous Internal Assessment while the remaining 60% of the marks are derived from the End Semester Examinations.

- The attainment of course outcomes is measured using direct assessment tools such as internal assessments, assignments, seminars, quiz etc and indirect assessment tools such as course end survey
- The attainment of PO and PSO is measured through the CO attainment and indirect tools such as student exit survey, employer survey and alumni survey

The entire process of outcome-based education is widely publicized to the students through:

- Making available on the University website
- Three weeks of compulsory **induction programme**.
- The processes and features of the Outcome Based Education explained to the students at the start of every semester by the respective course teachers and HoD
- Departments organize special orientation programmes for Outcome Based Education
- The CBCS-OBE manual is uploaded in the University website
- Students are also oriented towards OBE through the **Mobile App and online resources of the LMS** (uLektz till 2019 and CAMU since 2020)

Thus, Learning outcomes (generic/specific) derived from graduate attributes are stated in the curriculum and well integrated into the assessment process (direct and indirect) which are widely publicized through the website and other documents.

File Description	Document
Upload COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

### 2.6.2 Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution

#### Response:

- AMET has introduced Outcome Based Education (OBE) as a teaching learning strategy during 2015-16 in all the academic disciplines.
- AMET has formed committees like Programme Assessment Committee, Course Committee for the effective implementation and monitoring of outcome based education in the University.
- Programme outcomes, Programme specific outcomes and course outcomes are clearly defined during the stage of curriculum design and development.
- OBE features such as **Attainment of Programme outcomes (PO), Programme specific outcomes (PSO) and Course Outcomes (CO)** have been implemented in the following functional areas

- Curriculum Design
- Curriculum Delivery
- Assessments
- Among these facets, the Assessments are crucial part for the evaluation of the level of attainments of various outcomes (CO,PO and PSO).
- AMET follows a 40:60 proportional of continuous internal and end semester examinations to assess the attainment level of various outcomes.
- Students are well aware of and able to track their level of attainment through the Continuous Internal Assessment (CIA).
- **Mentoring Programmes and Remedial Classes** are organized for weaker students to reach the desired level of attainment. The levels of attainment in the CIA helps the students to overcome their gaps and fill up the same in the end semester examinations.
- Both **direct and indirect** modes of outcome attainment are being assessed for every course and are documented in Course File.
- **The assessment pattern of the University has considered the following principles to evaluate the outcome attainment**
- **Direct Assessment of outcomes:**Development of Examination Tools such as question papers, assignment and seminar topics are done to qualify various levels of attainment (**Remembering, understanding, applying, analyzing, evaluating, and creating.**) with appropriate **Blooms Taxonomy Action Verbs**
- All the questions are appropriately **mapped with respective COs** which will help to map with PO and PSO and make the attainment covering all the outcomes to reach the graduate attributes eventually
- Marks given for individual questions are used to evaluate the attainment of CO in turn proportionately to the POs and PSOs
- All the outcomes (CO, PO, PSO) are mapped along with pre-defined weightages.
- Grades are assessed such as Low (1 : 75-85%), Moderate (2: 85.1-95%) and Substantial (3: > 95.1%) for outcome attainment.
- The attainment levels are computed, level of the performance evaluated and root causes are identified; in case outcome is not attained where corrective action plan suggested and implemented.
- All these aspects are recorded in **“Course File”** to make the process effective
- **In-direct Assessment of outcomes:** Course exit survey, feedback from employees and other stakeholders
- Thus, the University ensures the evaluation of Attainment of COs, POs and PSOs by the following ways
  - Curricula and Syllabi are designed, developed and modified based on assessment of learning outcomes
  - Teaching-Learning processes are refined through feedback mechanisms
  - Learning outcomes are continuously assessed through direct and indirect assessments

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

### 2.6.3 Pass Percentage of students(Data for the latest completed academic year)

**Response:** 95.86

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 903

2.6.3.2 **Total number of final year students who appeared for the examination conducted by the Institution.**

Response: 942

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for the annual report	<a href="#">View Document</a>
Link fo any additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:** 3.44

File Description	Document
Upload database of all currently enrolled students	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Promotion of Research and Facilities

**3.1.1 The institution's Research facilities are frequently updated and there is a well defined policy for promotion of research which is uploaded on the institutional website and implemented**

**Response:**

#### Physical Facilities

- Number of Departments engaged in Research: 16
- Total Laboratories: 82
- Major equipment worth over Rs 1 lakhs:126
- Simulators for Research: 3
- Research Centres with Government funded projects: 2
- Specialized Labs: 7
- **Research databases and software:** Shodhganga; e-Shodhsindu, Scopus, IEEE, EBSCO, ASME, J-GATE, PROQUEST; SPSS, URKUND, AIMA BizLab, CAMU, SMART ERP

#### Research Promotion Policy

- AMET has well defined Research Promotion Policy uploaded in the website (<https://www.ametuniv.ac.in/IQAC/Research-Promotion-Policy.pdf>). Various guidelines and recommendations of the policy are implemented by competent authorities such as Vice chancellor, Registrar, Director Research, Board of Research, Research Monitoring Committee, Research Policy Committee, Research Ethics Committee etc.

#### Implementation of Research Promotion Policy:

- **Promotion of Academic Research** offering PhD Programmes; University Research Fellowships (Rs. 15000 Per month) for the full time PhD scholars provided; Annual fee is waived off for fulltime PhD scholars and Faculty doing part time PhD in AMET. The total fee waiver per year amounts to Rs 48 Lakhs
- **Budget provision for Research and Development Activities**
- **Promotion of Consultancy Research** by implementing the Consultancy Policy and revenue sharing (Faculty 30%: University 70%)
- **Promotion of Sponsored Research:**
  - University provides seed money (Rs.114.92 lakhs during last five years) for Faculty to strengthen their research capabilities and to attract external funds
  - Funded projects are supported with advancing funds for sanctioned projects, timely release of grants, submission of Utilization Certificate to funding authorities and providing incentives to Faculty with funded projects
- Revenue from Government funded projects: Rs.449.23 Lakhs
- Revenue through Non Government Sources for research: Rs.65.43 Lakhs
- **Promotion of Innovation and Incubation:** AMET has funded 71 student innovations with overall expenditure of Rs.46 lakhs. **AMET Technology Business Incubator (ATBI)** incubated 8 companies and promoted six start-ups; Events on innovation and entrepreneurship-225 numbers;

Faculty and students awards for innovation-237

- Business Incubator approved by Ministry of Micro, Small & Medium Enterprises, Government of India, with financial grants of Rs. 350 Lakhs
- **Promotion of Extension Activities:** AMET has organized **343 extension/outreach activities** through various Cells/Centres/Departments including NCC, NSS, YRC which have received 124 recognitions/awards from Government and NGOs with participation of over 90% students every year.
- More than 300 research promotion events organized to enhance the research capacity
- **Financial Support for the Promotion of Research:** University is providing incentives/financial supports to researchers for their awards, recognitions, publications, patents, higher studies, IPR, and innovations which amounts to Rs 112.36 Lakhs for past five years.
- **As a results of incentive oriented research promotion, AMET IPR Cell** has filed and published 45 patents; One patent granted
- AMET **publihsed 2180 research papers** in journals listed in Scopus, Web of Science and other UGC CARE List. More than 613 books, book chapters and conference proceedings were published with ISBN.
- Ministry of Shipping has given grant of Rs 815 Lakhs under Sagarmala Project
- Skill and Personality Development Centre for SC/ST is sponsored by AICTE for Rs. 17.48 Lakhs

File Description	Document
Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL of Policy document on promotion of research uploaded on website	<a href="#">View Document</a>

### 3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

**Response:** 22.98

#### 3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
31.06	49.60	17.70	16.26	0.3

<b>File Description</b>	<b>Document</b>
Minutes of the relevant bodies of the University	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.3 Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.**

**Response:** 0.86

**3.1.3.1 The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
3	4	0	0	1

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the award letters of the teachers	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.4 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years.**

**Response:** 66

**3.1.4.1 The Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
37	6	18	3	2



File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.1.5 Institution has the following facilities to support research

1. Central Instrumentation Centre
2. Animal House/Green House
3. Museum
4. Media laboratory/Studios
5. Business Lab
6. Research/Statistical Databases
7. Mootcourt
8. Theatre
9. Art Gallery
10. Any other facility to support research

**Response:** A. 4 or more of the above

File Description	Document
Upload the list of facilities provided by the university and their year of establishment	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link of videos and geotagged photographs	<a href="#">View Document</a>

### 3.1.6 Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies (Data for the latest completed academic year)

**Response:** 16.67

#### 3.1.6.1 The Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other similar recognitions by national and international agencies.

**Response:** 2

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-version of departmental recognition award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.2 Resource Mobilization for Research



**3.2.1 Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the last five years (INR in Lakhs).**

**Response:** 65.43

**3.2.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years (INR in Lakhs).**

2019-20	2018-19	2017-18	2016-17	2015-16
55.43	9.70	0.30	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by non-government	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.2.2 Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs).**

**Response:** 449.22

**3.2.2.1 Total Grants for research projects sponsored by the government agencies year-wise during the last five years (INR in Lakhs).**

2019-20	2018-19	2017-18	2016-17	2015-16
200.01	122.59	0	71.96	54.66

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by government	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.2.3 Number of research projects per teacher funded by government and non-government agencies**

during the last five years

Response: 0.39

3.2.3.1 Number of research projects funded by government and non-government agencies during the last five years.

Response: 68

3.2.3.2 Number of full time teachers worked in the institution year-wise during the last five years..

Response: 875

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste Link for the funding agency website	<a href="#">View Document</a>

### 3.3 Innovation Ecosystem

3.3.1 Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge.

Response:

- Having developed and implemented Research Promotion Policy, AMET is committed to promote an ecosystem for innovation. AMET has formed the following Units to promote through creation and transfer of knowledge.
  - Industry and Institution Collaborative Cell (IICC)
  - AMET Technology Business Incubator (ATBI)
  - Institution Innovation Council (IIC)
  - Entrepreneurship Development Cell (EDC)
- **Industry and Institution Collaborative Cell (IICC)** acts as a bridge between Industry and Academia
- **AMET Technology Business Incubator (ATBI)** is promoting innovations by providing incubation facility for the start ups of AMET students/Faculty. So far ATBI has provided incubation support of 6 start ups by students of AMET. It has 2000 sq feet fully furnished office space with high-speed internet (1 GBPS) connectivity and computers to support startups and incubatees.
- ATBI incubated 8 companies (Cognatio Techno Solutions Pvt Ltd, City Delivers, Vetbiotic Animal Care Pvt Ltd, Aran Cyber Security Pvt Ltd, Sensigo Technologies Pvt Ltd, CE2020 Technologies Pvt Ltd, Aquatics Victory Sphere, Mamallan Farmers Producer Company Limited)
- **List of Start ups**
  - Tritons – Afreeth .S
  - Greenzit- Suraj Rajshekhar Nair

- Rapid- Mohamed Akil Saleem Khan
- Zero App –Doddap Aneni and Venkata Chandra Shashank
- Women Safety Band- Vikram Selvaganesh
- Hackoholics- Roobesh Balasubramani
- **Funding from MSME – Development Centre under DC-MSME scheme:** Business Incubator at AMET has been approved as Host Institution to carry out Business Incubation (HIBI) by Ministry of Micro, Small & Medium Enterprises, Govt. of India, and as Design Centre under Incubation Scheme of MSME with a financial grants of Rs. 3.50 crores
- **The Institution Innovation Council (IIC)**, is established as per the initiative of Ministry of Education which is recognized with **Four Golden Stars** by the Ministry; Promoted 86 innovative ideas by teachers and students
- In the National level **Smart India Hackathon**, more than 50 students have participated every year. Mr.Milan and Gurukesh from Department of Mechanical have received recognition and prize.
- The IIC has 45 faculty and 367 students as Members
- Number of business ideas promoted from students : 65
- Number of Student innovations supported to participate in Smart India Hackathon : 169
- AMET has funded 71 student innovation with overall expenditure of Rs.46 Lakhs during past five years.
- 225 workshops/seminars conducted on the themes of innovation and entrepreneurship; Faculty and students have received 237 awards for innovation
- **Entrepreneurship Development Cell (EDC)**- Academic Partner with Entrepreneurship Development and Innovation Institute – Tamil Nadu (EDII-TN)
  - Nodal Institution with Centre for Entrepreneurship Development (CED) Anna University.
  - Conducted 17 major activities in which 453 students have participated
  - Sponsored by AMET Alumni Association
- **AP Moller Maersk AMET Centre of Excellence:** MoU signed on 25-10-2019; Every year, 160 students from Marine Engineering, Navigation and ETO cadets selected and sponsored by AP Moller Maersk; Admission with Appointment Order is rare innovation in Shipping Industry.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development during the last five years.**

**Response:** 224

**3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
142	25	18	22	17

File Description	Document
Report of the event	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.3.3 Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.**

**Response:** 207

**3.3.3.1 Total number of awards / recognitions received for *research* / innovations won by institution / teachers / research scholars / students year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
128	39	11	23	6

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e- copies of award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4 Research Publications and Awards

**3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee**

**Response:** A. All of the above

File Description	Document
Code of ethics for Research document, Research Advisory committee and ethics committee constitution and list of members on these committees, software used for Plagiarism check, link to Website	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.2 The institution provides incentives to teachers who receive state, national and international recognitions/awards** 1. Commendation and monetary incentive at a University function  
**2. Commendation and medal at a University function** 3. Certificate of honor 4. Announcement in the Newsletter / website

**Response:** A.. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e- copies of the letters of awards	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.3 Number of Patents published / awarded during the last five years.**

**Response:** 45

**3.4.3.1 Total number of Patents published / awarded year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
3	1	20	1	20

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.4 Number of Ph.D's awarded per teacher during the last five years.**

**Response:** 1.1

**3.4.4.1 How many Ph.D's are awarded within last five years.**

Response: 68

#### 3.4.4.2 Number of teachers recognized as guides during the last five years

Response: 62

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL to the research page on HEI web site	<a href="#">View Document</a>

#### 3.4.5 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 8.43

##### 3.4.5.1 Number of research papers in the Journals notified on UGC website during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
352	543	527	64	88

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.4.6 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 2.7

##### 3.4.6.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
274	118	46	21	46

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.7 E-content is developed by teachers :

1. For e-PG-Pathshala
2. For CEC (Under Graduate)
3. For SWAYAM
4. For other MOOCs platform
5. Any other Government Initiatives
6. For Institutional LMS

**Response:** C. Any 3 of the above

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
Give links or upload document of e-content developed	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.8 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

**Response:** 2.62

<b>File Description</b>	<b>Document</b>
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.9 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

**Response:** 18

<b>File Description</b>	<b>Document</b>
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.5 Consultancy

**3.5.1 Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy.**

### **Response:**

AMET has **Consultancy Policy** uploaded in the website. AMET actively encourages its faculty members to undertake consultancy projects with industry and other comparable institutions of higher learning in order to create new knowledge and widening the research profile of its faculty and staff members. Collaboration between Universities and the industrial sector intensifies the consultancy services or R&D based research projects. Consultancy services also provide an opportunity for University students to gain work experience, and for postgraduate projects in various disciplines in industry. Therefore, the institute has established a Consultancy Policy in 2017 to support all faculty to undertake consultancy projects and generate revenue.

### **General Regulations:**

- Consultancy and related assignments can be taken up by full-time Faculty Members of the University
- Director Research will coordinate and give guidance for consultation activities.
- All consultancy assignments by Faculty Members should be undertaken with prior permission of University Authorities with a copy to concerned Head of the Department and Director Research.
- The University is providing advance amount to undertake consultancy until the client releases the consultancy fee
- AMET engages following types of Consultancy and related services offered will be categorized mainly as under:
  - **Category 1: Individual Consultancy:** One Faculty alone involved by using existing or shared physical resources
  - **Category 2: Departmental Consultancy:** Consultancy that requires departmental and/or inter-departmental expertise and involves the use of University infrastructure / facilities such as equipment, instrument, laboratory staff, etc.
- The revenue sharing for consultancy as per the policy are as under
  - In first category, Individual consultancy where Principal Investigator and University will get 30% and 70% of the revenue, respectively.
  - In second category Institutional/Departmental Consultancy Principal Investigator and team will get 40% of the revenue and University gets 60% of the revenue.
- Following are the sample consultancy projects undertaken during the past five years
  - Indian Space Research Organisation (PI: Dr. N. Manoharan; Amount; Rs. 10 Lakhs Year 2016-2017)
  - National Remote Sensing Centre –Indian Space Research Organisation



- (PI: Dr. N. Manoharan; Amount: Rs. 9.4 Lakhs; Year 2016-2017)
- Sun agro biotech research centre (PI: Dr. M. Jayaprakashvel; Amount: Rs. 0.68 Lakhs; Year: 2017-2018)
  - Tamil Nadu Corporation for Development of Women Ltd (PI: Dr. N. Manoharan; Amount: Rs. 814.3 Lakhs ; Year:2018-2019)
  - Lambda Instruments Private Limited (PI; Dr. C. Gnanavel; Amount; Rs. 0.8 lakhs; Year: 2018-2019)
  - Hindustan Shipyard Ltd (PI: Dr.B.M.Shameem & MSP.Raju; Amount: Rs. 1.06 lakhs; Year 2019-2020)
  - International American Council for Research and Development ( PI: Dr. D. Rajasekar; Amount: Rs. 0.6 Lakhs; Year : 2019-2020)
  - Durgapur Corporation Private Limited (PI: Dr. K.S. Sivasubramanian; Amount: Rs. 5.85 Lakhs; Year:2019-2020)

**Consultancy Revenue:** Overall, Rs.456.21 lakhs has been generated through consultancy from which Rs.136.86 lakhs has been provided to faculty as the share of consulta

File Description	Document
Upload soft copy of the Consultancy Policy	<a href="#">View Document</a>
Upload minutes of the Governing Council/ Syndicate/Board of Management related to consultancy policy	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste URL of the consultancy policy document	<a href="#">View Document</a>

**3.5.2 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).**

**Response:** 1822.65

**3.5.2.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

2019-20	2018-19	2017-18	2016-17	2015-16
1318.87	144.30	125.26	124.58	109.64

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Audited statements of accounts indicating the revenue generated through consultancy	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.6 Extension Activities

#### 3.6.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years.

##### Response:

- AMET takes top priority in social commitment. The crucial importance of social outreach services for holistic growth and integrated learning is highlighted by students and Faculty orientation programs.
- The University believes and encourages students to strive to introduce social values to society for ethical and moral practices, grooming, other Cells/Centres /Departments organize extension activities such as awareness events, Social services, technical knowledge sharing which has created positive impact in the neighbourhood community.
- On an average, every year over **90% of the students** participate in extension activities through various Cells/Centres/Clubs/Department activities.
- Students are sensitized towards social issues through various extension and social service activities.
- Students involved in distribution of relief materials **worth Rs 7 lakhs during COVID19** pandemic and lock down period
- Relief materials worth Rs 20 lakhs distributed by students during **Gaja Cyclone (2019)**
- Relief materials worth Rs 10 lakhs distributed by students during the **Chennai Floods (2015)**
- More than 50% of the students have financially contributed to generate a total of Rs 10 lakhs financial assistance to the Kerala Flood Relief fund during 2019
- The University has **adopted five villages** in Chengalpattu District (previously Kanchipuram District) and engaged more than 800 students in organizing various events to promote **Unnat Bharath Abhiyan Scheme, Swachh Bharat, Swachta Pakwada** etc
- Faculty members are encouraged to attend NGO-organized workshops, lectures, and conferences and become more professional in implementing the University's extension activities.
- By generously contributing to the relief fund, the faculty and students respond with sensitivity to natural calamities and other problems.
- The extension activities organized by the University improve the academic learning experiences of the students and reinforce moral and ethical values and skills in them to promote the holistic development.
- Some of the notable events which promoted holistic development of students and caused a positive impact on society
  - **Organ Donation Camp** was organised on 2019 by AMET NCC Unit and 163 students have shown their interest and registered for organ donation
  - Diploma in Fisheries Engineering in association with **INCOIS** for fishermen community

- Every year Blood donation camps are organized by NCC/NSS/LeoClub etc and around 200 units are donated annually
- AMET Eco Club has conducted **Coastal Clean-up programmes** in Association with with Indian Maritime Foundation on 19th September 2016. 102 students have participated along with 22 AMET Faculty.
- The University has organized several training programmes for the **School students on Advanced Techniques (Remote Sensing)** with the financial support of Government Agencies such as ISRO, INCOIS, Chennai Port etc.
- Cleaning of Plastic material through Swachh Bharat program
- AMET has organized **343 extension/outreach activities** with more than 90% of student participation; Received **124 recognitions/awards** from Government and NGOs
- The anticipated effect of these activities can be summarised: Students are socialized and they learn to think beyond individual interests and social welfare through these activities. The theoretical knowledge gained in the classroom can be used for the benefit of society.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.6.2 Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the last five years

Response: 0

#### 3.6.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

**Response:** 343

**3.6.3.1 Number of extension and outreach programs conducted by the institution those through NSS/NCC, Government and Government recognised bodies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
185	73	45	28	12

<b>File Description</b>	<b>Document</b>
Reports of the event organized	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years**

**Response:** 94.02

**3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
3192	3250	3071	2758	2108

<b>File Description</b>	<b>Document</b>
Report of the event	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### **3.7 Collaboration**

**3.7.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

**Response:** 115.4

**3.7.1.1 Total number of Collaborative activities with other institutions / research establishment / industry for research and academic development of faculty and students year-wise during the last**

**five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
178	147	161	48	43

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
Copies of collaboration	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.7.2 Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.**

**Response:** 92

**3.7.2.1 Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
40	16	17	8	11

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the MoUs with institution/ industry	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.**

**Response:**

AMET has adequate facilities for teaching–learning. The University ensures facilities for all curricular, co-curricular and extra-curricular activities. Departments are fully equipped with necessary infrastructure to meet ever increasing requirements and norms of regulatory bodies.

**Academic facilities- Class rooms:**

The University has 100% ICT (Smart board, Laptop, Projector, Audio-video recording system, Wi-Fi) enabled Classrooms with well-equipped laboratories and updated technological facilities.

- All the **117 Class rooms and 11 Seminar halls have** ICT facilities
- University has **119 Smart boards, 128 LCD Projectors, 122 Laptops and 3 LED TVs**
- Two Well-equipped **Conference Halls**
- **Educational Materials Resource Development Centre (EMRDC)** is a **Media Centre** with video recording, audio video mixing and editing equipment and Premiere Pro software.

**Laboratory facilities:**

- **82** laboratories are available for all the programs including **Ship-in-campus (Jewel of AMET)** and **Full Mission Ship Simulator** (Polaris Bridge Simulator and Neptune Engine Room Simulator from Kongsberg, Norway).
- **1132** Computers are available for **Students academic purpose**
- **Student-computer ratio is 3:1 and 1: 1 ratio** in the laboratories
- **English language laboratory:** 45 Computers with **Clarity English Software**
- **AMET Centre for IELTS** is a certified IELTS Registration Center of British Council of India, Gold member of British Council IELTS Partnership Programme. It has 41 computers with **Author Plus** and **Clarity English** Software.
- The University has **two Research Centers** and **seven specialized laboratories** with latest equipments ( purchased through Government Funded Projects)

**Computing equipment:**

- **Two Common Computer Centres** with **608 computers** for the general needs of students
- Entire campus has high speed Internet connectivity through Wi-Fi and LAN.
- **1100 Mbps** Bandwidth of Internet facility through **National Knowledge Network (NKN)** is provided by **BSNL and TIC**
- Design Software like Tribon Mike21, STAAD Pro, Siemens STAR CCM+, Bentley Moses, CAD Lab-41 Computers; Tribon software lab-27 Computers, DSP and Embedded System Lab-23,

Drilling Simulator etc

- AMET has 10 servers (HP/DELL/INTEX/IBM etc), two fire walls (PALO ALTO, SONIC), Ruckus Wi-Fi Access points (285)
- **LMS:** CAMU, uLektz and in house developed ERP - **SMART**.

### **Library facility**

- Dr. V. B. S. Rajan Library at AMET has 102738 books, 25 Technical magazines, 132 print journals, 2648 Dissertations/Theses and other study materials
- Subscription for E-Journals (49718), E-Books (79435), Databases (IEEE, Scopus, J-Gate, ProQuest, EBSCO etc.), Shodhganga, e-Sodhsindhu etc. available
- Digital Knowledge Centre has 24x7 access INFLIBNET - INFED remote access.
- Library is fully automated with AUTOLIB ILMS, Web OPAC, INFED, RFID, Barcode
- Each Department has its own Library
- Library has Digitization facilities (Reprography, Scanning) Audio Visual Hall, Research Corner, Book Bank, Digital Knowledge Centre, etc.,

### **STUDENT SUPPORT AND OTHER FACILITIES**

- Barrier Free Environment
- Green Campus
- Career Development Centre
- Placement Centre
- Counseling Centre
- Health Care Centre
- Cultural Club
- Common Rooms
- Gymnasium
- Swimming Pool
- RO Purified Water
- Automated Teller Machine
- Biometric attendance
- Saloon
- Stationery Shop
- Wi-Fi Enabled Campus and Hostel
- Reprographic Facility
- Travel Desk
- Browsing Center
- Indoor and outdoor games
- Cafeteria and Canteen
- Lifts in all Blocks and hostels
- Help Desk

**Links to some of the important infrastructure facilities: <https://www.ametuniv.ac.in/videos.html>**

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.2 The institution has adequate facilities for cultural activities, yoga, games and sports (indoor & outdoor); (gymnasium, yoga centre, auditorium, etc.,)

##### Response:

AMET has adequate facilities for sports, games (indoor, outdoor), Gymnasium, Yoga Centre etc., and cultural activities. More than 60% of the students are undergoing residential programmes. They are involved in regular roll calls in morning and evening, March-past, watch keeping activities. PT and Parade is compulsory course along with swimming for residential students.

##### Sports and Games facilities

- Courts for Basketball-1, Kabaddi -2, Volleyball -3, Beach Volley ball-1, Hand Ball-1, Futsal-1
- Cricket Nets-2
- Multi-Purpose 200 Mtrs Mud Track / Cricket Field with Gallery
- Swimming Pool (**1008 Sq.m**) with Gallery; 6 lanes; 4 ladders; learner area (5 ft) and deep area (12 ft); Life Guards and Swimming Coaches.

##### Sports and Games facilities: Indoor

- Table Tennis -6 units
- Badminton Court -1
- Chess -10 tables
- Carom-10 tables
- Snooker-1 table

**Gymnasium-Three gyms** (Gym I-760 Sq.mtrs; Gym II-1441 Sq.mtrs; Girls Gym-89 Sq.mtrs) with Treadmill, Elliptical Machine, 12 section multi machine (11 Nos), Cycling Machine, Leg Extensor, Chest Extensor, Leg Curl, Pull Up Bar, Lat Pull Down, Incline Bench, Pec Dec machine, hip twister, hyper extension bench, forearm strengthen machine, preacher bench, Dumbbells, Double Hip Twister, Bench



Press, Weight Rods, Weights etc.

**CENTRE FOR YOGA AND HUMAN EXCELLENCE** has 1001.04 Sq.ft practice area with Certified Yoga Trainer and offers Valued Added Courses in Yoga with “**Vethathiri Maharishi Institute for Spiritual and Intuitional Education (VISION)**”. **International Yoga Day** observed every year; Yoga Training is mandatory in student induction programme.

### **Facilities for Cultural Activities**

- 1.AMET Cultural Club has amenities for cultural events and fine arts. Musical instruments like Drums, Keyboards, Violin, Guitar and equipment such as Speakers, Amplifiers and Microphones available.
2. Air-Conditioned Rehearsal room (over 1000 Sq.ft ) equipped with musical instruments is available. AMET has a unique Band Team.
- 3.AMET has a **multipurpose parade ground** (26855.96 Sq.ft). It serves as open air theatre and is available for all cultural activities in events like “**VIZHA**” annual cultural event of AMET Cultural Club, weekly film screenings, Independence Day, Republic Day, Pongal, Onam, Ugadhi, Holi celebrations
4. Interdepartmental and Inter-institutions Cultural events are conducted in **Shri Janakiraman Auditorium** (fully air conditioned with advanced audio-video equipment, stage, podium in 3788.9 Sq ft with 400 seating capacity)

### **Other amenities for sports, cultural, yoga and recreational activities**

1. Common Rooms available for Boys and Girls
- 2.AMET Waves-Magazine for career promotion through AMET Alumni Association
- 3.AMET Vidyarthi Pathrika-student magazine
- 4.Hostels have TV Halls, News Papers and indoor game facilities
- 5.**AMET** has MoU with Tamil Nadu Physical Education and Sports University to share facilities mutually.
- 6.The University organizes “**AMET UNISPO**” an Intra-University sports event and **National Level Inter Maritime Institutions Sports Tournaments (NLIMIST) every year**
- 7.**Physical Training / Parade / Games** is part of the curriculum with 1 Credit
- 8.Departments organize inter-department games/sports
- 9.More than 80% of the students use sports and recreational amenities such as indoor game facilities, outdoor games and sports, AMET Band, AMET Cultural Club, Centre for Yoga and Human Excellence, Gymnasium and swimming pool.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Geotagged pictures	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.3 Availability of general campus facilities and overall ambience

##### Response:

- The Overall ambience and general campus facilities of AMET are ample and adequate to support the Teaching Learning, Research, Extension, co-curricular and extracurricular activities, and requirement of visiting stake holders.
- The entire campus is **Wi-Fi Connected and Barrier Free**. Campus has signage boards and seating arrangements. Manual assistance through Duty Officers and Receptionist available. Campus is secured through CCTV and security On-Duty in all major facilities 24x7.
- Two generators of Capacity 600 kVA, 500 kVA for power back up 24x7.
- **Student Counselling Centre** with full time student counsellor for stress related issues
- AMET has separate hostel for boys and girls (Ganga, Yamuna, Saraswathi, Kaveri, Narmada, etc.) to accommodate more than 2900 students. Hostels have TV Halls, separate bath rooms and toilets, laundry facility, saloon, washing machines, recreational facilities, indoor games, access to sports and games, RO purified water etc.
- AMET has Common Rooms for boys and girls, day care centre, yoga centre, cafeteria (2), stationary shop, ATM, cultural club and other life style amenities.
- **Guest House for Visitors** and residential facilities for Staff is available.
- **Health Care Centre** with dispensary, sick-bay, two duty doctors and nurses, Ambulance available. MoU with Chettinad Speciality Hospitals for major medical emergency.
- Shri Janakiraman Auditorium, two Conference Halls with all major **ICT facilities and Parade Ground** as Open Theatre available to conduct indoor and outdoor events.
- Campus is environment friendly has ample green area, herbal garden, tree plantation, landscaped with lawns and ornamental plants, paper recycle unit, composting pits and biogas plant.
- Campus is energy efficient; with LED bulbs, Sensor based energy conservation, 30-kW solar power plant. The Facilities are audited and certified by WasmanPro through **Green Audit, Energy and Environmental Audit** every year.
- AMET received three awards for energy efficiency and green practices.
- Annual Maintenance Contracts (AMC) for all major equipment; MoU with National Small Industries Corporation (NSIC) for maintenance and calibrate the equipment
- University has fulltime Plumber, Electrician, Maintenance, Support Staff and gardeners to maintain facilities.
- AMET has NCC, NSS, YRC, Rotaract Club, Leo Club, Eco Club etc., for student involvement in social activities
- Placement Centre, Career Guidance Centre are there to provide career orientation for the students.
- AMET situated in Kanathur on State-Highway (East Coast Road; SH49) is well connected with railway stations (Thiruvanniyur-12 km) Airport (Chennai-25 km) and has a bank (IOB) and Post Office. The Campus is closer to Ports (Chennai), Shipyards (Ennore) and Harbours (Royapuram) etc., to facilitate co-curricular and curricular related activities of maritime specialized programmes.

- 60% of the students undergoing residential programmes. Hence, the University taken extra efforts to provide all possible general campus facilities for better campus life. Facilities are inspected by DNV-GL Norway, every year through Comprehensive Inspection Programme (CIP) after which AMET was awarded with Grade A1 Outstanding for the past five years consecutively by Directorate General of Shipping (DGS), Govt.of.India.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

**Response:** 15.11

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
1040.72	1173.18	1100.22	564.95	560.19

File Description	Document
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

**Response:**

Dr V.B.S. Rajan Library (formerly George TR Campbell Library) fully automated through AUTOLIB-ILMS, Web-OPAC, RFID, Barcode and INFED Remote Access with separate block of 2342 sq.m area in two floors, Wi-Fi enabled and with seating capacity of 700, air conditioned reading halls and lifts. Library functioning 09.00 am to 09.00 pm on working days; 09.00 am to 10.00 pm on examination days; 09.00 am to 05.00 pm on Sundays.

## Library Automation facilities

Library services fully automated in the year of 2008 with AUTOLIB (Java V.60) Integrated Library Management System and Web OPAC (2015) and augmented with Barcode technology and RFID Technology in 2019

1. Library housekeeping activities such as data entry, issue and return and renewal of books, member logins, online book reservation, report management, acquisition control systems, articles indexing system, e-resources linkage through remote access, serial control systems Report generation, User rate analysis, User data Maintenance, Storage and retrieval of data, Improved Student Service, Cataloging Improvements, selective dissemination of information, article alert service etc. are carried out through **ILMS, AUTOLIB and Web OPAC.**
2. Remote access to the e-library facilities is extended 24x7 through **INFED from INFLIBNET and Web OPAC.**
3. Books are classified according to Dewey decimal classification.
1. Library is well protected with automated facilities such as E-Gate, automated fire alarms, smoke detectors, CCTV etc.
2. Library has a web portal to provide all digital and electronic resources in one area to facilitate the usage by students, Faculty and Staff (<https://www.ametuniv.ac.in/library.html>)
3. Institutional Membership in National Digital Library of India, Madras Library Network (MALIBNET), Developing Library Network (DELNET), UGC-INFLIBNET, Shodhganga, E-ShodhSindhu
4. Memberships/linkage with Anna University Central Library, American Consulate Library, British Council Library

## Digitization facilities at Library

Digitization facilities are inevitable in this IT era in University environment. AMET has established and using the following digitization facilities such as

1. Reprographic facility (2 machines)
2. Scanners (3)
3. Printers (3)
4. Computers- 50 computers including 40 in **Digital Knowledge Centre**
5. Barcode scanner-5
6. **RFID** Antenna, Gate, Workstation-1
7. Plasma TV-1
8. LCD Projector-1
9. **Audio Visual Room** with audio video facilities

## Digitization initiatives at Dr VBS Rajan Library

1. PhD Theses are digitized and uploaded in Shodhganga (<https://shodhganga.inflibnet.ac.in/handle/10603/190485>)
2. Dissertation's and Project Reports are digitized and uploaded in DSpace
3. Question bank, Model question papers and study materials are uploaded in Dspace : From campus: <http://172.20.1.126:8080/jspui/>

From Outside the campus:

1. Scanning and preservation of rare books for reference purposes
2. Audio Books
3. Educational videos related to maritime studies
4. Multimedia Supplements of Text Books and Reference Books in CD format
5. More than 40000 videos of NPTEL are available in Hard Disc
6. More than 50000 open access e-books are preserved in CD format
7. 32 DTH Channels through SWAYAM Prabha
8. Urkund Plagiarism detection software

More than 25 awareness events were conducted on library automation and digitization such as Remote Access Awareness Programme.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources**

**Response:** A. Any 4 or more of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

**Response:** 84.18

4.2.3.1 Annual expenditure for the purchase of books and journals including e-journals year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
90.83	85.35	122.24	71.60	50.86

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year

**Response:** 23.38

##### 4.2.4.1 Number of teachers and students using library per day over last one year

Response: 830

File Description	Document
Details of library usage by teachers and students (Library accession register, online accession details to be provided as supporting documents)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1 Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities. (Data for the latest completed academic year)

**Response:** 100

##### 4.3.1.1 Number of classrooms and seminar halls with ICT facilities

Response: 128

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **4.3.2 Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility**

##### **Response:**

AMET has comprehensive IT policy for making appropriate budgetary provisions and updating the IT facilities. The IT policy applies to everyone who accesses University Information Technology Resources such as students, Faculty, Staff and parents. The main scope of this Policy include, but are not limited to, University-owned transmission lines, networks, wireless networks, servers, exchanges, internet connections, terminals, application, and personal computers. The IT Policy of AMET covers the following functional aspects.

- Information and Communication Technologies –ICT
- Hardware and Hardware Resources
- Software Resources
- Access Procedures
- Policy and Procedures
- E-Waste Management

##### **Salient Features of the IT Policy:**

- Governance of computing and networking resources
- Standard procedures for purchase of software and hardware (Technical Committee and Purchase Committee)
- Accessibility control of IT resources
- Monitoring of all computing and networking resources
- Adherence to the policy during purchase itself

##### **Notable Hardware Infrastructure**

- Student Computer Ratio Overall- 3:1; Lab- 1:1
- Total computers 1400; Common Computer Centers-2
- 10 Servers
- 128 LCD projectors

##### **Notable Networking Infrastructure**

- 1700 LAN nodes
- Wi-Fi Networks: 100% campus and hostels covered; 285 access points
- Biometric systems-17 ; Face recognition
- 1100 MbPS High Speed internet connectivity through BSNL (1000 MbPS), TIC (100 MbPS) via National Knowledge Network

##### **Software Resources**

- Design Software like Tribon, Mike21, STAAD Pro, Siemens STAR CCM+,
- Development Software like C, C++
- Analytical Software like SPSS, Urkund plagiarism detection software

- ERP-SMART, CAMU
- LMS- uLektz and MYCAMU

### **Implementation of Systems and procedures through formal Committees/ Cells/ Centres**

- Centre for ICT Enabled Education
- Centre for E Governance
- Educational Materials Resource Development Centre-Media Centre
- Department of Information Technology
- IT Support Unit

### **Upgradation and Augmentation of IT Facilities through appropriate budgetary provisions**

With the guidance from IT policy through various systems of the University, appropriate budgetary provisions are made every year, which are sanctioned by Authorities.

- Amount sanctioned for IT Infrastructure Augmentation in Last Five years: Rs. **1085 Lakhs**
- Number of **Facilities updated and augmented in last five years**
  - 254 computers, 206 laptops, 128 LCD projectors, 77 smart boards are purchased
  - 185 new Wi-Fi access points established
  - Six new servers established
  - Three new firewall systems
  - 81 new software purchased
  - Media Centre newly established
  - Audio Visual Room is upgraded
  - Digital Knowledge Centre is updated

### **Role of Centre for E-Governance in implementing IT policy through budgetary provisions and updating IT facilities**

- Updating and upgrading University computing requirements, network infrastructure, firewall, vigilance, campus surveillance, content management, new labs etc.
- Maintenance of high-end servers such as Database server, Application server and Back-up sever
- University Mail IDs for teaching and non-teaching Staff
- ICT based teaching aids, Video conferencing, Virtual Classrooms
- E-learning tools
- Institutional Digital Resources management (IDRM)
- Learning Management System (LMS) and ERP Maintenance and upgradation
- Annual Maintenance AMC with vendors of software and hardware
- Preventive maintenance of hardware/software/networking infrastructure
- Attending Ad-hoc Demands of campus ICT
- Online Classes , Examination Proctoring during 2020 Covid-19 , Online Convocation , Virtual conference etc



File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.3.3 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 3:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

#### 4.3.4 Available bandwidth of internet connection in the Institution (Leased line)

**Response:** A. ?1 GBPS

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

#### Other Upload Files

1	<a href="#">View Document</a>
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#### 4.3.5 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

**Response:** A. All of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Links of photographs	<a href="#">View Document</a>

## 4.4 Maintenance of Campus Infrastructure

### 4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years

Response: 40.9

#### 4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
3276.34	2519.76	2153.18	2107.88	1788.29

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

### 4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

- AMET has effective systems and procedures for maintaining and utilizing physical, academic and support facilities. AMET has a separate Maintenance Department operated by an Assistant Registrar, has functional units such as House Keeping, Electrical, Plumbing, Carpentry, Civil Works, Gardening etc.
- There are Supervisors for every functional units who undergo routine checks and maintenance. Whenever repair or maintenance is required or any purchase needed to augment the facilities, requests are raised in Standard Proforma , passed through proper channel and established by following standard set of procedures.
- **Purchase Committee and Technical Committee** are formed for major purchase or technical works.
- The Maintenance Department-Purchase Department-Office of the Registrar-Accounts and Finance work in a coordinated manner to complete every repair, maintenance or purchase work engaged through identified and approved vendors from whom invoices are received based on which purchase order or work order raised. After certification of completion of work or purchase from the Department concerned, payments are made to vendors as per agreed purchase-orders/work-orders.
- AMET has **Quality Management System (QMS)** where Quality Procedure are described for every functional aspects under the requirements of **ISO 9001: 2015 standards**. Wherever, needed, IQAC also develops forms and procedures to implement and sustain the quality in all areas. Minimum **two internal audits** and Inventory audits are conducted annually to ensure the effectiveness of the

process

- With reference to systems and procedures for maintaining and utilizing physical, academic and support facilities, **AMET ISO QMS** has Procedure for infrastructure facilities (QP-20 updated on 01.03.2019)

### **Laboratories**

- Each Lab has one Faculty as Lab in Charge along with instructors and attenders. The Lab in Charge maintains lab manuals, lab records, inventory register, usage registers/log-books, **AMC**, equipment care. Any maintenance or repair is reported through HoD in prescribed forms and the same is being attended by respective Departments

### **Library**

- Library is managed by Librarian, Deputy Librarian and Technical Staff. Library usage details are recorded digitally in ILMS Autolib. Library is 100% automated through software and digital resources including RFID and Barcode technology. Librarian takes the requirement from all the Departments as per curricular needs, consolidated requirements are processed for purchase. The facilities are maintained by in-house staff and AMC as applicable. Software and subscriptions for e-resources renewed suitably. The University has a **Library Committee** to suggest improvements.

### **Sports Facilities**

- Director of Physical Education manages the entire sports and recreation facility in the campus. Sports facilities like grounds, indoor games units, gymnasiums and swimming pool are maintained by Games markers, Swimming Coaches/Life Guards etc.

### **Computers and IT facilities**

- The IT Support Team headed by a System Manager maintains the hardware systems and networking gear. They undertake diverse service requirements with a team of trained technicians. Centre for E-Governance with its software programmers and technical Staff manages all the software, ICT resources, LMS and ERP.

### **Classrooms**

- General maintenance of classroom facilities such as furniture, electricity, student amenities (water) etc are carried out by Maintenance Department. ICT Facilities are managed by **Centre for E-Governance**.

Thus, the University has well established system with a perspective plan for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers and classrooms. The Planning and Monitoring Board of the University periodically meets to assess the creation, maintenance and utilization of physical, academic and support facilities. Due approval is granted by the Finance Committee and the Board of Management for the recommendation of Planning and Monitoring Board. The **Civil and Maintenance Departments** jointly manage the general campus amenities.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

NAAC

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

**5.1.1 Average percentage of students benefited by scholarships and freeships provided by the institution, Government and non-government agencies (NGOs) during the last five years (other than the students receiving scholarships under the government schemes for reserved categories).**

**Response:** 29.06

**5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2019-20	2018-19	2017-18	2016-17	2015-16
3130	412	316	381	377

#### File Description

#### Document

Upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Link for additional information

[View Document](#)

**5.1.2 Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.**

**Response:** 96.37

**5.1.2.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
3116	3079	3154	2807	2495

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology**

**Response:** A. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.1.4 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies 2. Organisation wide awareness and undertakings on policies with zero tolerance 3. Mechanisms for submission of online/offline students' grievances 4. Timely redressal of the grievances through appropriate committees**

**Response:** A. All of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 5.2 Student Progression

**5.2.1 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

**Response:** 56.59

**5.2.1.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
32	31	13	3	0

**5.2.1.2 Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
50	33	20	5	0

<b>File Description</b>	<b>Document</b>
Upload supporting data for the same	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.2.2 Average percentage of placement of outgoing students during the last five years**

**Response:** 91.8

**5.2.2.1 Number of outgoing students placed year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
718	748	793	497	421

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 5.2.3 Percentage of student progression to higher education (previous graduating batch).

**Response:** 8.75

#### 5.2.3.1 Number of outgoing student progressing to higher education.

Response: 79

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 5.3 Student Participation and Activities

**5.3.1 Number of awards / medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) during the last five years.**

**Response:** 117

**5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
55	36	15	6	5



File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 5.3.2 Presence of Student Council and its activities for institutional development and student welfare.

#### Response:

AMET has a Student Council with selected students representing each of the programmes and year of study with due representation of the Girl Students. The **Student Council** elects its **Office Bearers** once a year and conducts meetings as and when required besides one General Body Meeting once a semester.

The Student Council effects its recommendations and suggestions for the development of University and student welfare. To state a few:

1. The Student Council of AMET organizes various sports, cultural, literary, co-curricular activities, fairs, exhibitions and shows to nurture and promote talent of student community.
2. Student Council organizes fairs, exhibitions and shows
3. Student Council brings AMET Vidyarthi Patrika, a bi-annual magazine
4. Student Council helps University in curbing ragging through Anti Ragging Squad
5. Student Council make representation in Library Committee, Mess Committee, IQAC and other student related committees to bring student friendly atmosphere in the campus
6. Student Council volunteers in NSS/NCC/YRC/RotractClub events
7. In Maritime Programmes, students are grouped into Platoons to engage group activities (parade, watch keeping) and participative learning. These platoons are entirely managed by students themselves through Cadet Captains.

#### 1. Examples of Student Council recommendations addressed

1. Modernization of hostel facilities (water heater, washing machine etc)
2. Feedback on Teachers and remedial actions
3. Change of pattern of exams, internal marks compositions

2. **Other committees that have student Representation are Academic Council, Class Committees** (primary organ for bringing student opinion about academic related aspects), **Internal Quality Assurance Cell (IQAC), High Level Monitoring Committee** (an advisory body on Teaching Learning processes), Placement Coordinators, Hostel Management Committee, Grievance Redressal Cell etc

#### Notable Initiatives and Creative Campaigns by the Student Council of AMET in the last five years

1. Student council organizes events like art competition about child labour, photography contests and programme on drug abuse
2. Institution Innovation Council (IIC) entirely managed by students creates innovation environment

and recognized with Four Golden Stars by the MHRD, Government of India.

3. Every year, the student council participates in Anti-Ragging campaign
4. No Vehicle Day is actively organized by the students
5. Plastic Free Campus Campaign
6. Stop the Drop- a campaign for water conservation in campus
7. Save Electricity campaign
8. Student Council has actively participated and volunteered in the
  1. Gaja Cyclone Relief - The Council Members participated in Rehabilitation in villages in Nagapattinam District.
  2. Kerala Flood Relief: Student Council mobilized Rs 10 lakhs for Kerala Chief Minister Relief Fund along with University.
  3. Student Council Members actively participated in all the NSS/NCC activities.
  4. Student Council participated in various Swachh Bharath initiatives in the adopted villages (five), participated in Beach cleaning and Pond cleaning and created a cleanliness environment in the areas which benefits the public to a tune of Rs.200000
  5. They were also involved in the Blood donation campaign and donated over 200 Units of blood every year.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

**Response:** 12.2

#### 5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
32	10	11	2	6

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 5.4 Alumni Engagement

**5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.**

### Response:

**AMET Alumni Association (AAA)** functioning since 2011 was **registered on 28th September 2015** at Office of Registrar, Chengalpattu (Ref No 135/2015). AMET is a leading Global Institution of higher learning in Marine and Maritime studies. The cadets and students of AMET are placed worldwide and occupy a high position. AMET with 28 years of existence, has good strength of alumni and the University keeps track of them through online and offline mode of communications. The association has 12218 alumni till date. Registration with AAA is enabled via online portal: <http://www.ametuniversity.com/alumni/>

The Alumni association has **chapters in Dubai, and Singapore** in addition to Indian **Chapters in Chennai and Mumbai**. AMET has a fine tradition of inviting luminary alumni for various functions organized at AMET as Chief Guests and they are honoured suitably. In all such occasions, the alumni relationships are strengthened which has resulted in enhanced academic atmosphere at AMET and to a considerable extent increase in the number of placement of students in shipping companies.

AMET Alumni Association (AAA) has a separate website and bank account.

AAA weblink: <https://www.ametuniv.ac.in/alumni/>

Bank account Details: 282202000000070, IOB, Kanathur, Chennai

### Some Salient Contributions of AMET Alumni Association

#### Financial Support

- The **Entrepreneurship Development Cell (EDC)** is sponsored by AMET Alumni Association
- **Earn While You Learn Scheme** is a flagship programme by the AMET Alumni Association in which students from low income families are supported with monthly stipend in equation to their work to assist various works at University such as Library Stacking, Green House Maintenance, Paper Recycling, and Documentation of Student Events etc. Per annually, around 30 students are supported through this scheme
- AMET Alumni Association has contributed financially **Rs 116.20 Lakhs** during the past five years (**Rs 2.89 in 2015-16; Rs 4.12 Lakhs in 2016-17; Rs.11.10 Lakhs in 2017-18; Rs.28.78 Lakhs in 2018-19 and Rs 69.31 Lakhs in 2019-20**)
- From the above contribution, Educational Material Resource Development Centre (EMRDC) is upgraded as a holistic **Media Centre** with an expenditure around **Rs. 7 Lakhs**
- **More than Rs.90.00 Lakhs** from AAA is utilized for the construction of **Kaveri Hostel**.
- Alumni have donated books to the department library.

#### Other Supports

- **AMET-Waves** is the Newsletter from AMET Alumni Association (AAA)

Link:[https://www.ametuniv.ac.in/amet\\_news\\_letter.html](https://www.ametuniv.ac.in/amet_news_letter.html)

- AAA also conducts Alumni meet, Social events, Alumni guest lecture and support for internship and placements.

Link:<https://www.ametuniv.ac.in/alumni/Gallery-alumni.html>

- Alumni network supports the students in project work, higher studies, competitive exam etc.
- Members of the AAA extends their expertise as resource persons for Seminars/Conferences and Workshops
- The Placement Centre at AMET effectively utilizes the AAA for bringing resource persons for placement training, skill development and experience sharing from highly positioned alumni.
- Alumni are **Members in the Board of Studies** of all the Departments. Alumni are also Members in the **IQAC**.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

#### 5.4.2 Alumni contribution during the last five years (INR in Lakhs)

**Response:** A. ? 100 Lakhs

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

**6.1.1 The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance.**

**Response:**

AMET, a Maritime sector specific University and an **Global Maritime Knowledge Hub** aimed to fulfill the dreams of young minds on Contemporary fields of Maritime and allied domains. The Vision, Mission and Quality Objectives of the University are designed to implement all its Academic, Research and Outreach activities with appropriate benchmarking.

**Dissemination of Vision and Mission:** The Vision, Mission and Quality policies are clearly stated and available on the website, publicized through Academic Calendar, Display Boards, Academic Programs and Events such as Faculty Meetings, Seminars, Conferences, Workshops, Student Induction Programs, and Parent Meetings. They are available on the ERP system and CAMU LMS and made open to Students and other applicable Stakeholders.

The University complies with the regulatory requirements of the **Ministry of Education, UGC, AICTE** and **DGS**. Relevant details are given in the website.

Mandatory Disclosure: [https://www.ametuniv.ac.in/mandatory\\_disclosure.html](https://www.ametuniv.ac.in/mandatory_disclosure.html)

#### **Academic and Administrative Governance**

The Academic system of AMET governed by the Board of Management, Academic Council, Vice-Chancellor, Pro Vice-Chancellor, Deans, School Chair Persons, HODs to handle the Academic affairs to attain the Vision and Mission of University.

The Administrative system of AMET is governed by the Board of Management, Vice Chancellor, Pro Vice-Chancellor, Registrar, Joint Registrar, Finance Controller, Controller of Examinations and Directors to frame the Administrative policies related to Strategic Plans, Research, Human Resource Development, Financial Aspects, Rules & Regulations, Planning & Execution and Students Welfare activities.

At every level of governance, appropriate checks are made to avoid exercise of over powers. Policy statements are well written, made public and Transparency in Governance is ensured.

#### **Governance Practices:**

The Academic and Administrative Governance are aligned with the AMET Vision and Mission in the following aspects.

1. AMET Vision and Mission are suitably incorporated into every Academic and Administrative endeavors.
2. Departments have separately stated their Vision and Mission to fulfil University Vision and Mission.

3. Programmes are designed with Specific Objectives and Outcomes that are in keeping with the Vision and Mission
4. Assessment methods are designed to verify stated Learning Objectives and Outcomes thereby overall Vision and Mission.
5. AMET developing suitable Systems, Policies, Procedures and Committee etc., to implement the same for continuous improvement
6. Mandatory Administrative bodies like Board of Management, Academic Council, Planning and Monitoring Board, Finance Committee, etc., are functioning as per the guidelines of the Statutory Bodies and they are translating the AMET Vision and Mission into every Administrative function
7. Academic Committee such as Board of Studies, Department Advisory Committee, Programme Advisory Committee, Class Committee etc., ensure the effective implementation and monitoring of Vision and Mission continuously and periodically
8. AMET has Internal and External Audits within ISO system, Academic and Administrative Audit and Internal Quality Assurance Cell (IQAC) for the effective monitoring of these Policies, Procedures and Systems.
9. AMET has a robust Feedback system from all the Stakeholders to ensure effectiveness and improvement of Academic and Administrative Governance
10. Annual Reports are published and is also circulated to all the Stakeholders via AMET website and as printed document during Convocation every year.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 6.1.2 The effective leadership is reflected in various institutional practices such as decentralization and participative management.

#### Response:

#### Decentralization and Participative Management

- **Decentralization** of Power is executed in a **Top Down** approach where top most body, **Board of Management** delegates its powers to the **Vice Chancellor** who in turn decentralize it to various functional Heads and Committees.
- **Participative Management** is practiced in a **Bottom Up** approach where Academic and other decisions are made jointly with the participation and inputs from all levels of Stakeholders through consultative processes.

#### Decentralization

1. Power and Responsibilities of AMET are shared by the Board of Management through Vice Chancellor to all **decision making and advisory bodies** and various Officers, Academic fraternity

such as School Chair Persons, Deans (Heads of Specialized functions such as Dean Academics), HoDs, Directors (Heads of Special Centres such as Centre for Research) and Coordinators (for special cells such as Coordinator, IQAC).

2. Roles and responsibilities distributed to the **Administrators and Authorities** based on **hierarchy** are explained in the **Memorandum of Association** (with UGC) and **organogram** of the University (available in website).
3. Board of Management oversees all policies and procedures. The Vice Chancellor implements its decisions and plans through University Authorities. Vice Chancellor also reports the action taken to Board of Management and get ratified some of the policy and procedural decisions taken with discretionary powers of Vice Chancellor. Based on advice from Board of Management and on his own powers, Vice Chancellor oversees and implements the corrective actions as and when needed; Vice Chancellor takes decision through consultative process involving various stakeholders and report to the Board of Management.

### **Participative Management Practices:**

AMET promotes Participative Management at various levels to ensure the equity and inclusiveness of practices. Stakeholders of AMET allowed to take part in **Decision Making process** based on their capacity.

- Participative Management effectively implemented in all Decision Making processes such as faculty recruitment, disciplinary actions etc through a consultative process by involving respective stakeholders
- Directors, Deans and HoDs convene Departmental meetings regularly to discuss the Academic, Administrative, Infra-structure, Hostel related and other issues.
- **Autonomy** is given to Departments to design, develop and implement the curriculum as per the needs of the society, University Vision and Mission
- The Vice-Chancellor convenes frequent meetings of the Directors, Deans and HoDs to discuss all the Academic and Non-Academic issues before implementation
- Decision making bodies such as Board of Management, Planning and Monitoring Board, Academic Council, Board of Studies etc are having wide representation of stakeholders
- Departmental budgets are given due consideration by the Finance Committee and funds are allocated.
- Students are representing in Students' Council, Mess Committee, Sports Council, Cultural Committee, IQAC and Board of Studies.
- Teaching and Non-Teaching staff are empowered through Human Resource Development Cell to improve their leadership skills by participating and organizing various Seminars, Conferences, Orientation Events, Faculty Development Programmes and other events.
- ERP and LMS helps in **data management and retrieval** during decision making processes.

Thus, AMET exhibit effective leadership at all levels through Decentralization and Participative Management in all its practices.



File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic plan is effectively deployed.

#### Response:

AMET is progressively marching towards getting established as an **International Maritime Knowledge Hub** by expanding its all-academic, research and outreach activities in the chosen fields. The priorities outlined in the Vision 2025 plan would help the University to achieve excellence in all facets of higher education. This AMET Vision 2025 plan has been publicized through various means including hosting the same on the University website (Link: [https://www.ametuniv.ac.in/mandatory\\_disclosure.html](https://www.ametuniv.ac.in/mandatory_disclosure.html))

#### Major Targets to be achieved before 2025

To receive and sustain the highest ranks and recognitions in all applicable accreditation and ranking frameworks such as National Assessment and Accreditation Council (NAAC), National Board of Accreditation (NBA), Comprehensive InsPection Programme (CIP) of the Directorate General of Shipping (DGS), Performance Indicators in Maritime Education and Training (PIMET) Ranking by the International Association of Maritime Universities (IAMU) and National Institutional Ranking Framework (NIRF) of Ministry of Education (MOE), Government of India, etc.

As per the AMET Vision 2025, the following are the strategic plans with identified action plans to implement

#### Goal 1: To Provide a quality maritime and associated professional education and acquire the stature as one of the top-ranking maritime Universities by

- Continuously improving the Teaching Learning process
- Improve the students' skills and industry readiness
- Enhance the Research (Academics, Sponsored and Consultancy)
- Overall improvement through good governance practices, Enhancing Interactions with the Society and Community

#### Goal 2: To Enhance Interaction with Society and Industry

#### Goal 3: To Generate Revenue to the University through Research, Consultancy and Collaborative initiatives by identifying and improvising the various avenues to generate revenue to the University

#### Goal 4: To Enhance the interaction with Alumni

#### Goal 5: To Develop and maintain the State of the art infrastructure by



Maintenance of the existing Infrastructure, identification of areas for improvement promoting the Sustainable Development.

For the effective implementation and monitoring of the Institutional Strategic Plan, AMET vision 2025, the University has:

- Strategic Planning and Steering Committee: Meets twice a year; consists of internal members at senior level including representation from Board of Management; monitoring body to review the strategic plan and report to the Institutional Planning and Monitoring Committee.
- Planning and Monitoring Board: Meets once a year; Consists of both internal and external members; Advisory body on achieving the vision 2025

The University had set its goals, drafted action plan and monitoring its progress through IQAC and other bodies.

File Description	Document
Any additional information	<a href="#">View Document</a>
Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.**

**Response:**

The University has various Governance Bodies, Policies, Procedures and Plans for the effective Administrative Setup, Appointment Rules, Service Rules and Procedures to enhance the Academic Avenues.

The University has various bodies, policies, procedures and plans for the effective implementation of AMET Vision 2020 and **Vision 2025** strategic plans of the University for achieving greater heights and sustaining the legacy.

The University has appointment and service rules as per the MoA. The Service rules are uploaded in the Website which defines Roles, Responsibilities and functions of the University Authorities, Officials, Committees and Academic and Administrative staff.

**Policies**

The Major policies of the University have been framed and implemented to achieve the Vision 2025 such as Appointment Policy, Service Rules in line with the Statutory Regulations and MoA with UGC and can

be found on the website.

### **Administration Set up**

The Management, administrative and executive authorities and committees like Board of Management, Academic Council, and Vice Chancellorship etc. are formed and practiced as per the requirements of the Statutory and Regulatory bodies such as the Ministry of Human Resource Development (Government of India), All India Council for Technical Education (AICTE), University Grants Commission (UGC), and Directorate General of Shipping (DGS) etc. The University is committed to follow the participatory governance to implement and upkeep new and existing systems, respectively.

Following are the various Committees/Bodies that helps in the **implementation and monitoring** of the strategic plan of the University and the same can be found on the website (<https://www.ametuniv.ac.in/attachment/organization-chart.pdf>)

1. Board of Management-Four meetings/year; The highest decision making body
2. Planning and Monitoring Board-One meeting/year
3. Finance Committee-Two meetings/year
4. Management Review Committee: Three meetings/Year
5. Internal Quality Assurance Cell (IQAC); Meets as and when required

### **Appointment Rules**

Based on UGC Regulations appointment rules were framed and followed to appoint both Teaching and Non-Teaching staff of AMET. API Score for Teaching and other parameters for Non-teaching are considered to shortlist the candidates and then screening are done by both Internal and External Experts to select the staff members.

### **Service Rules**

The Memorandum of Association of the University, defines the roles and responsibilities of all Leadership Authorities, and Academic and Administrative Bodies. Besides, the Service Rules of the University also define the roles and responsibilities of the University Faculty, Staff and Students. These documents are uploaded on the University website. (<https://www.ametuniv.ac.in/attachment/amet-policies.pdf>)

### **Procedures**

**ISO QMS 9001: 2015** policy and procedures were followed to ensure the **Quality Management Systems (QMS)** by undergoing the Internal and External Audits (Once a Year) to ensure that both operations and controls of these processes are effective; Management Review Meetings are conducted to implement and monitor the action plans as per the QMS. The availability of resources and information necessary to support the operation and maintenance of the processes are also ensured by **Internal and External Audits**.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link to Organogram of the University webpage	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.2.3 Institution Implements e-governance covering following areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

**6.3.1 The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff .**

**Response:**

The University has defined policies for the appointment and promotion of teaching and non-teaching staff in accordance with respective guidelines of UGC.

The University exercises performance appraisal through following systems

1. For Teaching faculty, appraisal is assessed through student feedback, **Key Performance Indicators (KPI)** based on the Performance Based Appraisal System (PBAS) of UGC
  1. Faculty are monitored on monthly basis about their key performance indicators through the **SMART- ERP** system
  2. The annual increment of the faculty members has been linked with an annual report submitted by each of the faculty members, wherein they are required to provide the following details:

- 1.Regular academic duties such as course delivery, examination duties etc.,
  - 2.Developing additional Educational Qualifications
  - 3.Honours, Recognitions and Awards
  - 4.Research Publications
  - 5.Academic Events organized
  - 6.Academic Events participated
  - 7.Professional development through membership
  - 8.Collaborative initiatives
  - 9.Extension and outreach activities
  - 10.Administrative responsibilities
- 3.In every semester, student feedback is obtained on every teacher and same is utilized for appraisal
  - 4.Periodical announcements are made for **Career Advancement Schemes** to select eligible Faculty for promotion to next level as per UGC PBAS linked with API

The faculty member is required to earn a specific score in **Academic Performance Indicators (API)** to be considered for promotion.

Selection is based on the Key Performance Indicators (KPI)

- 1.Performance in teaching, learning and evaluation related activities
- 2.Co-curricular, extension and professional development related activities
- 3.Research and academic contributions
  - 1.Research projects
  - 2.Research guidance
  - 3.Training courses and conference /seminar/workshop papers

### **Procedure for CAS Promotion**

- 1.Notification is circulated among Faculty for eligible applications under CAS Scheme
- 2.A committee comprising of both Internal and External Experts scrutinize the eligible applications and select prospective candidates for CAS promotion as per UGC, AICTE qualification norms and API score
- 3.A Selection Committee comprising of both Internal and External Experts interview the selected candidates and recommend for promotion of eligible and meritorious Faculty
- 4.Promotion to position along with suitable emoluments are provided to selected Faculty

### **Promotion for Non-Teaching Staff**

- 1.Self-appraisal forms obtained from eligible staff
- 2.Personal and confidential remarks from the Heads of the section are taken
- 3.A selection Committee comprising of internal members review the submissions and recommend eligible non-teaching staff for promotion and salary increment

### **Examples of Faculty welfare measures**

- 1.Free Transportation
- 2.Food at subsidized rate

- 3.Free refreshments
- 4.Free Uniform for Support Staff
- 5.Incentives for faculty empowerment strategies
- 6.Incentive for Article Publication
- 7.Conference Registration Fee
- 8.Staff Family Tour
- 9.Medical Camps
- 10.On Duty for Research and Academic Activity
- 11.Provident Fund
- 12.Health Centre
- 13.Vehicle Loan
- 14.Over time Allowance
- 15.Pongal & Ayudha Pooja Gift
- 16.Health Insurance
- 17.Festival Advance
- 18.Education loan for Staff Pursuing Higher Studies
- 19.Personal Loan
- 20.Maternity and Paternity Leave
- 21.Reimbursement of membership fees of professional bodies
- 22.Fee concession for Staff children
- 23.Employment for Wards of Deceased

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.**

**Response:** 0

**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Details of teachers provided with financial support to attend conferences, workshops etc. during the last five years (Data Template)	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

Other Upload Files	
1	<a href="#">View Document</a>

**6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.**

**Response:** 42.8

**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
97	56	27	19	15

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	<a href="#">View Document</a>
Reports of Academic Staff College or similar centers	<a href="#">View Document</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

**Response:** 25.37

**6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise**

## during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
116	75	36	24	12

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Details of teachers attending professional development Programmes during the last five years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

#### Response:

AMET Deemed to be University has qualified Internal Auditors to supervise the Internal Audit Functions and they ensure that all the procedures and guidelines set by the Board of Management are strictly adhered to while carrying out the transactions. The Chartered Accountants also ensure that the recording of transactions are carried out and participate in the purchase procedure/approval of purchases initiated by the respective HoDs/Deans/Directors of the Department/Centre.

The External and Internal Auditors' reports are reviewed by Management and forwarded to the respective accountants / Internal Auditors to bring in desired improvements in the areas highlighted by the External/Internal Auditors. The AMET Deemed to be University ensures that legitimate balanced governance are set up in regard of Financial/Procedural angles and furthermore guarantees that the exchanges are recorded in books with appropriate endorsements.

#### Strategies for mobilization of funds

1. Tuition Fee from Students
2. Funds and Grants from Government and Non-Government Agencies for Research Projects
3. Funds and Grants from Industries for sponsored projects
4. Consultancy income from Industry and other organization
5. Corporate Training –OPRC, GMDSS, Post Sea Modular Courses
6. Funds and grants from Alumni, individuals, philanthropists, organizations, etc.

## Optimal Utilization of Resources

1. AMET has adequate funds which makes it financially viable.
2. Budget requirements of every Department is obtained annually based on which overall budget is prepared annually, Department wise allocations made and approvals are obtained from the Finance Committee and Board of Management.
3. Fund is allocated, expenses are made as per norms, and purchases are made transparently through Technical Committee and Purchase Committee.
4. The accounts of University are maintained in the name of AMET.
5. Statement of Accounts prepared, audited and published annually.
6. Both internal and external financial audits are conducted
7. Statement of Accounts of AMET are also submitted to University Grants Commission
8. Audited account statements are displayed in the website

Process of Utilization of Funds started with allocation from Management to University. Department Heads / Section-in-charges are intimated of the extent of funds allocated against their budget proposals. Major works like Construction, Up-gradation of Existing Infrastructure, Procurement and Maintenance of Common utilities, House-keeping, Procurement of furniture etc. are controlled directly by the Finance Controller. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated by respective Departments through Purchase Department and the funds are released on a case to case basis by the Finance and Accounts section of the University after obtaining approval from Management.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.4.2 Funds / Grants received from government bodies during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V ) (INR in Lakhs).

**Response:** 0

#### 6.4.2.1 *Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).*

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0



File Description	Document
Details of Funds / Grants received from government bodies during the last five years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 6.4.3 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)

**Response:** 140.48

6.4.3.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
140.48	0	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 6.4.4 Institution conducts internal and external financial audits regularly

**Response:**

AMET follows transparency in financial aspects. Finance Committee is the decision making body and Finance Controller is implementing the financial decisions. Multistage verification and transparency are followed. The Finance Controller conducts Finance Committee Meeting, Internal and external financial audits

- Finance Controller prepares Financial and Accounting Statements for both Receipts and Payments of the University as per Compliances considering Fee Receipts, Data Extracts, Bank Statements, Tax Payment Challans etc., Finance Controller checks the accuracy and verifies the documents and sequence for further proceedings.
- AMET Financial Audit system is a continuous process and follows a structural protocol and has

well-established checks and balance methods to ensure continuous monitoring and adherence to the Financial Governance to comply with the Accounting Standards as laid down by Statutory Bodies

- AMET Conducts Two Internal Audits (May and October every year) and one External Financial Audit by Chartered Accountants for each financial year.
- Internal Auditors validate and verify supporting documents of Deposit receipts, Loans and Liability, Asset Purchase, payment of statutory dues and budget and actual comparison to prepare statements and communicate major observations and recommendations to the management. Finance Controller prepares the draft report to Management and places reports and statements in the Finance Committee.
- External audit team visit AMET and physically verify the transactions with supporting documents. This process takes almost a month for completion of audit work and preparation of statements of accounts that are submitted to the Statutory Bodies and displayed publicly on website
- External Audit adopts the sampling techniques for auditing programme through detailed verification, internal control measures adopted by the University, identify and assess significant risks within the process, evaluate the design effectiveness of controls, identify control gaps, deficiencies and process non-compliances, obtain management action plan to address irregularities, conduct meeting to discuss the draft report, focusing on review of findings and management action plans and issue final audit report to Management.
- Budget and Actuals, Revenue and Expenditure, Statutory Compliances in accordance with Standards, Loans and Liabilities as per given statements, Assets purchased during Audit periods, Review of periodical reports are the key areas of External Audit to verify documents.
- The final audited statements help AMET to prepare the budget for subsequent years and make plans accordingly.
- The audited finance statements is published on AMET website to maintain the transparency of the reports.

#### **Audit flow chart – Internal Audit**

- Engagement of Audit Assistants
- Vouching and Verification of Documents, Bills & Invoices, Books etc.,
- Verification of Bank Statements, Mobilisation of Resources
- Statutory Payables
- Verification of Receipts & Payments and Application of Funds
- Submission of Reports with relevant supporting papers.
- Finance and Accounts statement preparation

#### **Audit flow chart – External Audit**

- Vouching and Verification of Documents, Bills & Invoices, Books etc.,
- Verification of Loan Liabilities, Deposits and other Documents
- Statutory Payables and Reports
- Preparation of Income and Expenditure and Balance Sheet
- Financial Statements and other Reports as required by Statutory bodies
- Appraisal Note / Reports to the Management

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

**6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals.**

### Response:

The Internal Quality Assurance Cell (IQAC) established in 2013 has coordinated and oriented 1st Cycle of NAAC Accreditation during 2015. As per NAAC guidelines, IQAC is well represented by all stakeholders such as Eminent Academicians, Faculty, Administrative/Technical Staff, Students, Management Representatives, Alumni, Community Representatives, Employers/ Industrialists. IQAC is proactive in institutionalizing various quality assurance strategies and processes by the way of

1. Promoting forms and policies on quality initiatives
2. Promoting Committees/Cells/Centres to implement and monitor diversified quality initiatives
3. Sensitizing the stakeholders through meetings, events, workshops, seminars, conferences, lectures, etc.
4. Streamlining the stakeholders feedback process of various academic and administrative systems

### Significant contributions of IQAC in institutionalizing quality initiatives

#### • Teaching and learning

1. IQAC improved the feedback system by strengthening the forms and procedures.
2. IQAC contributed in implementing the CBCS and Outcome Based Education model
3. CBCS and OBE manuals are produced and disseminated to the stakeholders widely through brochures, website uploading, and awareness programme (more than 17 events)
4. It has formed Implementation and Monitoring Committee for Outcome Based Education (IMCO) to implement and monitor OBE through forms, procedures and feedback.
5. IQAC conducted annual Academic and Administrative Audits by subject specific Experts as Auditors to each Department.
6. It assisted to establish Media Centre -EMRDC through alumni contribution, procurement of design, analytical and research software in addition to digital databases such as SPSS, J-Gate, Scopus, URKUND etc.
7. It has conducted 48 events, workshops and orientation programmes in quality enhancement areas
8. IQAC meets stakeholders (48 meetings in five years) frequently and the representations of the stakeholders are discussed in the Executive Committee of the IQAC; quality initiatives are implemented with the involvement of various Cells and Centers of AMET.

Minutes of the IQAC of the University are uploaded year wise in the University website at <https://www.ametuniv.ac.in/iqac-meeting.html>

The Annual Quality Assurance Report of the past four academic years are also uploaded year wise in the University website <https://www.ametuniv.ac.in/iqac-aqar.html>

### Promotion of Research Culture in the Campus

- IQAC has promoted policies such as Research Promotion Policy, Research Ethics Policy, Academic Integrity Policy, Consultancy Policy for the implementation of academic and sponsored research activities
- Formed AMET Research Connect Forum which organized over 23 Events during the past five years in various aspects of contemporary research through Research Scholars and Faculty.
- Facilitated web based resources such as SCOPUS, J-Gate, ProQuest, URKUND Plagiarism Detection Software and INFED Remote Access.
- Applied and received SIRO recognition from DSIR Government of India

### OTHER MAJOR ACTIVITIES OF THE IQAC

- IQAC has contributed in the revision of ISO Quality Management System
- It is constantly upgrading the Policies, forms and procedures for smooth governance
- IQAC also conducted meetings for quality improvement in prioritized areas
- Proposed and arranged recognition and honoring for Faculty who have contributed in priority areas
- Organized AMET Student and Faculty Awards function
- Coordinated the AMET Silver Jubilee Student Events

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.5.2 Institution has adopted the following for Quality assurance 1. Academic Administrative Audit (AAA) and follow up action taken 2.Confernces, Seminars, Workshops on quality conducted 3. Collaborative quality initiatives with other institution(s) 4.Orientation programme on quality issues for teachers and students 5. Participation in NIRF 6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).**

**Response:** B. 4 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of University	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### **6.5.3 Incremental improvements made for the preceding five years with regard to quality (in case of first cycle), Post accreditation quality initiatives (second and subsequent cycles).**

#### **Response:**

IQAC has played key role in taking pivotal steps to improve the quality attributes in the post accreditation period. Areas of special consideration are as follows

- PG and Doctoral programs enhanced: Three more PG programmes introduced in the Engineering domain (2017-18 onwards with AICTE approval); PhD is offered in 4 more additional Disciplines (from 2016 onwards)
- Interdisciplinary research encouraged: 63 PhDs are produced in various core and interdisciplinary areas.
- More Ph.D. Faculty appointed in Engineering, Technology and Management
- Received projects from Industry and Govt. agencies.
- Transparency in budgeting and fund allocation for various activities ensured

#### **Innovation in Teaching Methods and Teaching Quality**

- 100% of the programmes in CBCS model
- Outcome Based Education introduced in 2015-16 which opened avenues for various innovative teaching methods which include flipped class activities, smart board usage, web assignments etc
- 100% of the classrooms are ICT enabled
- Faculty –Student Ratio improved from 1:20 to 1:15
- Mentor Mentee ratio improvised from 1:40 in 2015 to 1:20 in 2020

#### **Operational Quality**

- 100% of the Office procedures are automated with SMART-indigenously developed ERP system
- In built 100% automated Examination Management System
- Two Learning Management Systems in the last three years, uLektz and CAMU

#### **Research Quality**

- Research Facilities are updated with new equipment purchased by own funds and grants from

government and private funded projects; 126 equipment each worth over Rs 1 lakh; 82 labs upgraded; 2 research centres established; 7 specialized labs created

- Digital resources like databases (SCOPUS, EBSCO etc) and software (SPSS, URKUND etc) have been subscribed/purchased
- Number of publications and quality of publications increased
  1. During 2015, h index was 3 in SCOPUS and now it is 23
  2. During 2015, number of citations was less than 300 and now it is around 2400
  3. During 2015, there were less Government funded research projects. Now more than 16 Government Projects are ongoing of which six have been completed. Total grant received is more than Rs. 12 crores
  4. The University is recognized as Scientific and Industrial Research Organization by the DSIR Government of India
- Number of Faculty with PhD increased from 31 to 88
- Number of PhD awarded increased from 3 to 85
- Enrolment of PG students and PhD scholars increased every year

### Overall Quality Ranking

- **Grade A1 (Outstanding)** in the **CIP** ranking of the DGS
- For the past three consecutive years AMET has ranked in **Upper Fourth Quartile; one among top 3 Maritime Universities** in **PIMET Ranking** by **IAMU**, Japan
- AMET is in the 200-250 Rank-Band in Engineering Category of NIRF 2020
- ARIIA Ranking 25-50 Rank-Band in Private Universities
- Four Awards for Green Campus Activities

### Improvement in other quality areas

- 92 MoUs were signed during the period, all are functional with notable activities
- Industry interaction enhanced by way of industry funded projects, internships and projects through MoU, industry representatives in Academic Council, Board of Studies and IQAC

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

**7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.**

**Response:**

AMET undertake notable **measures for the promotion of Gender Equity:**

- As per UGC Guidelines, AMET has formed **Gender Champions**.
- Gender Sensitisation Cell creates awareness among Stakeholders through programmes and activities; Organized 27 Guest Lectures, 16 Orientation Programmes, 11 Cultural Events and 16 Webinars on gender sensitivity and equity.
- “Gender Sensitization” (Code-UDGSC01) course is mandatory for UG students; Conducted in collaboration with AWARE Trust.
- Gender Sensitisation Advisory Committee has representation of HoDs, Faculty and Students, provides necessary action plan for the Gender Sensitisation Cell and reviews its annual activity
- AMET ensures Gender Equity by giving equal importance for women in all key positions,
  - Women as HoDs: 32%
  - Women as Faculty : 40%
  - Women Non-Teaching staff : 35%
  - Women in decision making bodies: 35%
- PG and Ph.D. programmes have healthy boys and girls ratio
- International Women’s Day commemorated every year with active participation of women from all sections
- Programmes regarding women health and hygiene are organised
- Single Girl Child Scholarship (Rs 27500 per student) through NGO New Era Association of Self Employed Youth (NAESEY)
- National Maritime Trust and AMET provides scholarships for Girl students to study Marine Engineering and Nautical Science where worldwide enrolment of Girls is less given the unique work environment.
- Following are some of the selected events (out of 55) conducted by University to promote Gender Sensitivity and Gender Equity
  - 1.05-03-2020: Save Girl Child campaign for Zero Tolerance on Female Genital mutilation (26 participants)
  - 2.19-07-2019 Awareness programme on Cyber Bullying against Girls - Measures for their prevention (300 participants)
  - 3.12-04-2018 Introduction to Protection of Women from domestic violence act, 2005 (63 participants)
  - 4.12-10-2018 Girl Child awareness program on good-touch and bad-touch in Society (40 participants)
  - 5.9-2-2016: Open Forum on Building Innovations and Leadership in Women (35 participants)
  - 6.30.9.2015 Awareness Program on Legal Literacy and Women’s Rights (28 participants)



- AMET ensures facilities for **safety and security** for women and others
  - 24x7 Surveillance by CCTV and security staff
  - Girls Hostels are well protected with security and wardens
  - Separate facilities for women: Toilets, common room, gym
  - Grievance Redressal Mechanisms
    - Grievance Redressal Committee
    - Committee Against Sexual Harassment
    - Internal Complaints Committee
    - Anti-Ragging Committee
    - Discipline Committee
    - Grievance and Feedback Submissions
      - Online-AMET-E-grievances portal
      - Offline- Green Box and Black Box
- **Counselling Facilities are available**
  - Counselling Center with full time professional Counsellor functioning. Helpline numbers are widely publicized.
  - Proctor and Wardens (Men and Women) handle student issues in Hostels
  - Lady Medical Officer and Lady Nurse on routine duty
  - Effective mentoring system for academic and general mentoring of students (1:20 ratio)
- Separate **Common Rooms** available for boys and girls with common amenities, Magazines, Newspapers, indoor games and recreational facilities
- **Day Care Centre** available since 2013 for children of Faculty, Staff and Research Scholars and visitors

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Annual gender sensitization action plan	<a href="#">View Document</a>

**7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

**Response:** A. 4 or All of the above



File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

#### Response:

#### Solid waste management

- Biogas plant with 50Kg digester unit converts food waste generated from Canteen into Biogas; utilized by Cafeteria. Food waste 500 Kg/day is sent to M/S Rajendran Consultants for composting purposes as per Government norms.
- University established three Units of Biocomposter Pits in collaboration with AADIA for composting of organic wastes in-to manure through earthworms (Vermicompost); used in Herbal Garden
- AMET has agreement with ITC India for recycling of waste papers
- University has paper recycle unit, operated by student volunteers and “Earn While You Learn” beneficiaries. Department of Marine Biotechnology organized a Training cum Orientation Programme on Hand Made Paper from Paper wastes (2017)
- Other office wastes, furniture are supplied to third party for recycling
- The glass and plastic wastes, which are very minimum, sent for recycling
- Campus is plastic free

#### Liquid Waste Management

- AMET has Fluidized Bed Bioreactor (FBBR) type Sewage Treatment Plant (STP) with 530 KLD capacity; Flow Rate of 25 Cubic Meter/hour to ensure quality.
- The process utilizes mechanical (sand-filters) and biological processes (microorganisms).
- STP is operated and maintained by consultant (AIMS O&M Services) with three technicians on shift. Annual Maintenance Contracts are made.
- Effectiveness of STP certified NABL accredited Labs with standard APHA protocols and complies the Tamil Nadu Pollution Control Board norms.
- The treated water used for flushing of toilets and watering of ornamental plants and landscape areas

#### Biomedical Waste Management

- 1.No biomedical implants or human or animal body parts are handled for any training or research

purposes. The Research Ethics Committee ensures that all research conducted are complying bioethics.

- 2.However, other related wastes such as masks generated during COVID19 pandemic period are discarded through biomedical incinerators. Women Toilets have sanitary napkin incinerators.
- 3.Biomedical wastes from Health care Centre such as used cotton gauze and plaster are handled using Biomedical Incinerator and/or autoclave.

### **E-waste Management**

The E-waste of the University are collected and checked for its life span, service due; after reviewing product usability, they are stored in E-waste storage place and are sent for recycling with authorized vendors for recycling purposes. The memory devices are crashed and crumbled properly for preventing the misuse of the University confidential data in future.

### **Waste recycling system**

- 1.Biogas unit converts cooked food into biogas; remaining are disposed by authorized vendors.
2. University encourages re-use of papers. One side papers used for domestic documentation works.
- 3.Paper waste is used to make handmade paper
4. Waste Water treated in STP; re-used for flushing of toilets and watering of ornamental plants
- 5.Organic wastes composted in composting pits and valued added as vermicomposts (in technical collaboration with AADIA Trust, three biocomposter units functioning).

### **Hazardous chemicals and radioactive waste management**

- 1.AMET is not handling any radioactive materials for teaching or research purposes; no radioactive waste generated. This is ensured by Research Ethics Committee
- 2.Science and Engineering research Departments use optimal amounts of corrosive and toxic chemicals (through fume hoods-3 numbers) which are discarded as per standard manuals and published methods.

<b>File Description</b>	<b>Document</b>
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>
Geotagged photographs of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### **7.1.4 Water conservation facilities available in the Institution:**

#### **1.Rain water harvesting**

2. Borewell / Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

**Response:** A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

**Response:** Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Any other relevant documents	<a href="#">View Document</a>

#### 7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

**Response:** C. 2 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Certificates of the awards received	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Divyangjan friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

**Response:** A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

**Response:**

- Maritime domain and Shipping industry is globalized industry, which engages multicultural work environment. A highly sector focusing University, AMET is committed to promote multicultural values by providing inclusive environment for students and staff from all strata.
- AMET has a very diverse range of students and staff from all over the country (more than 60% of students and 20% of staff are from other States) and across the Globe.
- The University has **Equal Opportunity Cell and SC/ST Cell** to provide guidance and orientation to students of various sectors
- AICTE approved Skill and Personality Development Programme Centre (SPDC) with a financial

- grant of Rs.17.48 lakhs is providing skill development training to SC/ST students
- AMET on its own and in association with social service organizations like NAESEY, established scholarships worth Rs. 5,00,000/- for a year for the students from various socio-economic backgrounds
    - Avul Pakir Jainulabdeen Abdul Kalam Fishermen Scholarship-63 students
    - Indira Gandhi Women Scholarship-34 students
    - Kamarajar Scholarship for Economically Weaker Section-127 students
    - Mahatma Gandhi Rural Scholarship-49 students
    - P.T. Usha Sports Scholarship-28 students
    - H. Ramakrishnan Physically challenged Scholarship-1 student
    - Swami Vivekananda First Graduate Scholarship-174 students
  - Being in a coastal area, AMET promotes well-being of fishermen community through various extension, social service and philanthropic activities. AMET is offering a certificate course (Fisheries Technology) for fishermen community students free of cost.
  - AMET identifies economically weaker students under **Earn While You Learn Scheme** where they work and earn after class hours at Library, Herbal Garden, and Paper Recycle Unit etc.
  - AMET is organizing various events and festivals for ensuring an inclusive environment to promote Tolerance and Harmony towards Cultural, Regional, Linguistic, Communal, Socio-economic and such other diversities.
  - Some events conducted periodically are as follows:
    - Pongal Celebrations- Both National and Regional festival
    - Onam Celebrations- Cultural festival of Kerala state
    - Ugadhi- New year for Andhra Pradesh, Telangana and Karnataka
    - National Days of Djibouti and Nigeria
    - Holi Celebrations for Northern States of India
    - Matri Basha Diwas – Mother Tongue Day celebrated every year (<https://www.youtube.com/watch?v=VOOrDRrZ0Ug>)
    - Gandhi Jayanthi
    - Inter-departmental cultural and sports events
    - Honouring of National Flag on every sunrise and sunset-AMET Band
  - AMET provides platform for students to exhibit cultural, regional and social welfare events to bring out social responsibility and unity.
  - Students are oriented towards addressing the regional issues and provide their humanly contribution during natural calamities irrespective of region and language
    - 2020: Relief materials worth of Rs. 7 lakhs distributed for financially backward people during COVID19 pandemic lockdown period
    - 2019: More than 50% of students have financially contributed to generate a total of Rs 10 lakhs financial assistance to Kerala Flood Relief Fund
    - 2018: More than 100 students have participated and distributed relief materials worth Rs 20 lakhs during Gaja Cyclone in Tamil Nadu
    - 2017: More than 300 students volunteered to clean Ennore Oil Spill
    - 2015: More than 200 students involved in distribution of relief materials worth Rs 10 lakhs during December 2015 Chennai Floods

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### **7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

#### **Response:**

- Apart from regular teaching learning process, AMET pays emphasis on imparting basic rights, values, duties and responsibilities. It enriches the patriotism and makes them aware of their basic duties and rights as proud citizens of India.
- AMET Band consisting of a troop of Cadets who are good at playing musical instruments for Parade, Muster, honour our National Flag on every Sunrise and sunset. This is part of their residential training including Guard of Honour for guests.
- Course on Essence of Indian Traditional Knowledge, Indian Constitution, Professional Ethics and Human Values and Environmental Science are compulsory for UG students
- Keeping all this in mind, AMET organizes awareness programmes for students and staff throughout the year to underline their constitutional obligations.

Along with Independence Day and Republic Day, following events are organized to observe the constitutional obligations, values, rights, duties and responsibilities of citizens.

1. National Unity Day on October 31 (57 participants)
2. National Mother Language Day on February 21 (90 participants)
3. National Education Day - Birth Anniversary of Maulana Abul Kalam Azad on November 11 (52 participants)
4. National Youth Day-Vivekanandar Birthday on January 12 (65 participants)
5. Childrens Day on November 14 (82 participants)
6. Teachers Day on September 5 (65 participants)
7. National Service Scheme (NSS) Unit - 70th Anniversary Celebration of Constitution Day on 26 Nov 2019
8. AMET Cultural Club organizes Awareness Rally on Voting
9. National Science Day celebrated on February 28 (71 participants)
10. Innovation Day celebrated on 15 October (65 participants)
11. Platinum Jubilee Year for Quit India Movement (August 2016)
12. Mass recitation of National Anthem on 23-08-2016 Azadi 70-Yaad Karo Kurban (Freedom Fortnight)

Events like Right to vote campaign, Swachh Bharath Campaign and Green India Initiatives, are conducted to impart moral duties and to make them feel that they are saviors of the Nation. Sample list of events conducted are as follows:

- Mock election program – 18/04/2019 (250 participants)



- Cardio Camp – 27/05/2019 (70 participants)
- Dengue Awareness Event – 13/02/2018 (75 participants)
- Eye camp – 12/03/2018 (56 participants)
- Medical camp – 22/02/2020 (100 participants)
- Blood Donation Camp - 14/06/2019 (75 participants)
- AIDS Awareness Camp - 01/12/2019 (82 participants)
- Women Equity Program - 04/11/2019 (57 participants)
- Ethnic Day Celebration – 02/11/2017 (95 participants).
- Census Survey – 16/04/2018 (60 participants)
- Anti-Plastic Awareness Rally - 06/07/2019 (200 participants)
- Rain Water Harvesting Awareness Program – 31/07/2019 (80 participants)
- Awareness program on ground water pollution - 31/07/2019 (65 participants)
- Pollution Free India Run – 25/08/2019 (56 participants)
- Mega Cycle Rally for Swachh Bharath Campaign – 12/03/2020 (250 participants)
- Drug awareness program - 27/03/2018 (80 participants)
- Awareness program on cancer diagnosis - 29/04/2019 (85 participants)
- Awareness program on World Organ Donation Day - 13/08/2019 (65 participants)
- Rally on right to vote – 18/04/2019 (200 participants)
- Socio-Economic Survey in the adopted villages of Thirupporur Block, Chengalpattu District under Unnat Bharath Abhiyan Scheme – 21/08/2018

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

AMET takes initiatives in remembering many National and International commemorative days to impart the values of humanity. Notable days and events are periodically observed inside the campus and outside the campus by AMET students. Based upon the nature of the programme, local school students and local community people were also involved.

Course on Indian Traditional Knowledge Systems, Indian Constitution, Professional Ethics and Human Values, Environmental Science are compulsory for UG students

- AMET has named its Academic and Administrative Blocks in the Names of National Leaders
- Mahathma Gandhi Block
- Rabindranath Tagore Block
- VO Chidambaram Block
- Mahakavi Bharathiyar Block
- Jawaharlal Nehru Block
- Swami Vivekanandar Block
- AMET also named hostels with the names of rivers flowing throughout India such as Kaveri, Ganga, Yamuna, Saraswathi, Narmada

#### **National Level Commemorative days observed in the University**

- Kargil Vijay Diwas
- National Unity Day (Rashtriya Ekta Diwas)
- Gandhi Jayanthi
- National Science Day
- Teachers Day
- National Maritime Day
- Navy Day
- Mother Language Day
- Jallianwala Bagh Massacre Day
- Engineers Day

#### **Celebration of Birthdays of National Leaders like**

- Mahathma Gandhi
- Swami Vivekanandar
- Sardar Vallabai Patel
- Subramania Bharathiyar
- Jawaharlal Nehru
- Bhagat Singh
- Dr BR Ambedkar
- Bharath Ratna Atal Bihari Vajpayee
- Bharath Ratna Dr Abdul Kalam

#### **Celebration of Cultural Festivals like Pongal, Onam, Ugadhi, Holi etc**

#### **International Commemorative Days**



- Biodiversity Day
- International Coastal Clean Up Day
- UNO Day
- UNESCO Literacy Day
- International Mother Language Day

All these important local, National and International events were celebrated to give the students an over view of all the great leaders and the worldwide significance of events.

Movie screening was organized for students to develop social awareness and value systems and to implement those values in their personal lives.

To promote the Indian Cultural Heritage, the University conducted Workshops within the Campus and Street Plays through various Student Clubs in and around the Campus. NSS Unit and NCC Unit are involved in cleanup activities of heritage sites such as Thiruvidadanthai Temple and Mahabalipuram UNESCO Heritage Sites.

As AMET has much diversified student community, to inculcate qualities like integrity, commitment, strong communication skills, teamwork, work ethics, risk-taking, positive attitude, leadership qualities and responsibility, events like Foundation Day, Hostel Day, Mess Day and Clean Room Day are organized by the students themselves. Curriculum related Seminar/Workshops were also conducted in the University for a better understanding of self and also for group dynamics, team building and leadership qualities.

File Description	Document
Geotagged photographs of some of the events	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

### CROSS-CULTURAL HARMONY

**1. Name of the Best Practice:** Cross-cultural Harmony

**2. Objectives of the Practice**

- To provide an inclusive ambience to engage cross-cultural harmony in the campus
- To design and implement avenues and activities to ensure crosscultural harmony

**3. The Context**

The shipping industry is a unique industry both on-shore and off-shore activities, where work environment is quite isolated and happens within relatively a small crew. In such a small workforce environment, professionals are employed from diverse countries and they are usually engaged for specific voyages only. For example, a Captain or a Chief Engineer employed in a shipping company may not work in the same ship or same shipping activity. Every voyage is special and has unique crew. Hence, they need be ready to work in a multicultural environment and any kind of team without any preferences. Having understood this uniqueness of shipping industry, AMET has promoted cross-cultural harmony in all its activities with the aims to

1. Inculcate the values of pluralism among students
2. Understand the uniqueness of different cultural, ethnical, regional and social groups
3. Make them ready to acclimatize to any kind of team environment

**4. The Practice**

1. AMET pays special attention to promote the admission campaign all across the globe in diversified cultural and regional environments
2. AMET has Entrance Examination Centers in all the regions of India to facilitate the students across the country to get the opportunity
3. Scholarships are provided to culturally, religiously and socially diversified students to make a diverse array of students in the campus

4. Liaising with Government of foreign countries to promote manpower in their countries by inviting their students with government sponsorship
5. Identifying the differential level of understanding and learning levels of students and organize them special programmes
6. Organizing events to promote multicultural environment

## 5. Evidence of Success

- In all the past five academic years, more than 60% of the students are from diverse locations of India and overseas
  - There is a wide distribution of diverse students in terms of ethnicity (Asians/Africans/Arabs etc), Language, region (Asia/Africa), culture (western and oriental) etc
  - Students from Africa come with different language background due to colonial influence (French, English and Portuguese). They are separately grouped and provided with formal English coaching to bring them into mainstream English based teaching learning process.
  - The Centre for IELTS and Department of English organizes special programmes prior to the commencement of semester to these students as a crash course and make them comfortable. Students are also trained to the level that they complete IELTS examinations to facilitate their dreams to pursue higher education in western countries.
  - University Centre for International Relations (UCIR) facilitates all immigration and visa requirements of foreign students
  - University has organized specialized events to promote cultural pluralism in campus with full financial support from the organization
- 
- Pongal (Mahara Sankranthi, Lohri) Celebrations
  - Onam Celebrations (Cultural festival of Kerala)
  - Ugadhi- (Andhra Pradesh, Telengana and Karnataka)
  - National Days of Djibouti and Nigeria
  - Holi Celebrations
  - Matri Basha Diwas – Mother Tongue Day

## 6. Problems Encountered and Resources Required

### Problems encountered

1. While organizing remedial coaching either before commencement of semester and after regular working hours, willingness of students in the initial stages is a hurdle. The University overcomes this hurdle through strong mentoring system
2. Some of the students have requested a whole day leave for these kind of events. However, due to scheduled academic activities time bound permissions alone are given

### Resources Required

Sufficient resources available in AMET Campus to execute the work. The issues mentioned about could be sorted out with available resources

## 7. Notes (Optional)

The University has established a congenial and flexible socio-cultural environment through its initiatives on Cross cultural harmony. Through this best practice University has transformed the human resource requirement of diverse locations in India and Overseas especially African countries.

## **ADMISSION WITH APPOINTMENT ORDER THROUGH INDUSTRY INTERACTION**

**1. Name of the Best Practice:** Admission with appointment order through industry interaction

### **2. Objectives of the Practice**

- To enhance the placement avenues for the students by establishing and maintaining strong industry relations
- To provide assured placement opportunities for the meritorious students in Maritime Studies at the time of admission itself and to expand the same to other Departments
- To prepare the selected students with fundamental knowledge and specialized skills for the chosen job profile

### **3. The Context**

AMET is maintaining excellent industry interactions. The programmes offered at AMET are highly industry oriented. The University enhance the industry relations through various initiative such as mandatory industry internships and industry visits. Industry experts are part of Board of Studies, Academic Council and IQAC

The maritime industry is quite dynamic industry and its human resource requirement fluctuates with the progress of industry. In this context, this special drive “Admission with Appointment Order” provides progressive advantage to the students who are pursuing these programme and also attracts more such young minds into this domain. Hence, the University has made collaborative efforts with our long time industry associate AP Moller Maersk (APMM), Denmark, to engage in this important initiative “Admission with Appointment Order”

### **4. The Practice**

AMET’s relationship with APMM is paramount for the past 25 years. Previously AMET conducted DNS and DMS courses and BE Marine Technology (first of its kind) with total sponsorship by MAERSK. It was the first of its kind in the history of Maritime Education in India as well.

1. AMET and AP Moller Maersk have associations since 1999
2. MoU was signed on 24-10-2019 by and between AMET and AP Moller Maersk for the following purposes
  1. Admission cum Recruitment Drive campaign

2. Establishment of AMET-AP Moller Maersk Centre of Excellence (foundation stone laid on 24-10-2019)
3. AMET and AP Moller Maersk jointly associate to select eligible students under “Admission with Appointment Order” scheme. An Admission cum Recruitment Drive campaign is jointly promoted by both AMET and AP Moller Maersk.
4. Eligible students are selected based on following criteria
  1. A pass in 12th Standard/equivalent; minimum 60% aggregate in Maths, Physics and Chemistry; 50% in English.
  2. To clear following entrance and interview
    1. Psychometric Test by AMET
    2. AMET Online Common Entrance Test
    3. PI/LI test by AP Moller Maersk
    4. Personal Interview by AMET and AP Moller Maersk
  3. Medical Fitness as per DGS norms.

## 5. Evidence of Success

- The Programme has been started in the mid of academic 2019-20, efforts are made to widely popularize the scheme by giving Television advertisement and advertisement in national dailies besides campaign in social media and in field.
- More than 2000 cadets have been recruited by APMM during all these years and many of them are currently occupying coveted position in various renowned International Shipping companies as Managing Directors and CEOs.
- A total of 160 students admitted with appointment orders from AP Moller Maersk BE Marine Engineering and B.Sc. Nautical Science programmes

## 6. Problems Encountered and Resources Required

### Problems encountered

1. In the previous years there were no problems encountered. However, during COVID19 pandemic, student participation in Admission cum Recruitment Drive was relatively less.
2. Six students who were selected and given admission with appointment orders have dropped out themselves citing COVID19 as the reason.
3. Few Students selected in this scheme are not successful in academic achievements, they needed remedial coaching

### Resources Required

There is always a requirement of qualified Teachers in Maritime Domain. Due to the requirement of statutory authorities, Faculty must have Certificate of Competency (MEO Class-1 for Marine Engineering; Master Mariner-FG for of Nautical Science which require over 20 years of actual sea time experience). The salary expectations of such internationally qualified Faculty are extremely high than usual salary commitments as per UGC scale of pay. Hence, retaining such faculty is also difficult.

## 7. Notes (Optional)

- AMET is the only maritime University not only in the Country but also in the entire world to have

established relations with maritime industry to provide Admission with Appointment orders

File Description	Document
Best practices in the Institutional web site	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

### 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

**Response:**

#### **DISTINCTIVENESS OF THE UNIVERSITY**

##### **Uniqueness of the University**

The Maritime and Marine related degree programmes as well as allied degree programmes are also offered in few other premier institutions of India separately through specialized Centre's. However, AMET is the only educational Institute in India to offer maritime and allied degree and doctoral programmes under one roof.

##### **AMET, the pioneer in Maritime Education**

- The unique nature of the programmes and studies in the University causes distinctive workforce, activities and student genre. Originally, maritime domain was conceived as a skill based domain in India. Only the Training Ships and specialized Institutions were offering time bound training to produce manpower for shipping and allied industry.
- AMET, the pioneer in privatized maritime education, has started introducing degree programmes in these niche domains since 1990s
- Following the footsteps of AMET, over 140 Educational Institutes in India offering maritime programmes. However, still AMET stands as **the unique and only Institution offering all maritime programmes in single campus and at UG, PG and PhD levels.**
- AMET is pioneer in introducing Doctoral programmes in unique areas such as Marine Engineering, Nautical Science, Harbour Engineering, Naval Architecture, Shipping and Logistics etc.

##### **Transformation of skills into Knowledge**

The University is continuously excelling in the process **of transforming skill based maritime domain into knowledge based domain by creating and offering innovative and unique degree programmes at undergraduate, post graduate and Doctoral levels**, which is the distinctiveness of the University.

These disciplines cascading from ship design, ship construction, navigation, ship operation, ship maintenance, port planning and maintenance, marine life sciences, shipping business, logistics and maritime commerce etc are being offered at one place have the advantage of **providing multidisciplinary exposure of highly unique disciplines.**

### **One Stop Solution for all maritime related programmes**

1. AMET offers formal degree programmes, short term competency courses and specialized courses to prepare manpower to suit all the three levels of maritime domain (Support level, Operational level and Management level)
- The cadets from Pre-Sea courses such as B.Sc., Nautical Science and B.E., Marine Engineering take up management level jobs such as Captains who navigate the ships, and Chief Engineers who operate the ship from Engine room.
  - The University offers short term courses such as ETO Course which produces Electro Technical Officers for shipping industry.
  - The University offers post sea courses such as Second Mate (FG), Chief Mate Phase – I, Chief Mate Phase – II, Advanced Shipboard Management, Ship Maneuvering Simulator & Bridge Team Works etc. These courses are for serving seafarers who wants to get promoted from one level of job to next level.
  - AMET is the only organization in India which offers courses as preliminary as GP Rating Certificate Course suitable for entry level jobs with 10th standard qualification and to the highest level competency certificate courses for Captains and Chief Engineers with 15 years experience
  - The Global Maritime Distress and Safety Systems (GMDSS) Department of AMET is very unique and only unit in India approved both by Maritime Coastguard Agency, UK, Ministry of Communications and Ministry of Shipping, Government of India to offer GMDSS GOC (U.K.version) GMDSS (Indian Version)
  - AMET also provides opportunities for the students with general engineering degree to get qualified for the shipping industry jobs through its courses such as GME, ETO and MBA Shipping and Logistics.
  - The pre-sea and post-sea courses offered at AMET imparts uncompromising education and training to all the three levels as required by the convention thereby AMET serves as a **one stop solution for Global maritime human resource requirement**

### **International and National Recognitions for the Distinctiveness of the University**

- The International Association of Maritime University (IAMU), Japan, having rightly identified the distinctiveness of the University has selected and appointed Col.Dr.G. Thiruvassagam, Vice Chancellor, Capt K Karthik, Dean, Nautical Science and Dr T Sasilatha, Dean, Academics from our University to review and recommend the research projects submitted to the IAMU.
- The Faculty of Maritime Studies (Marine Engineering and Nautical Science) in the University have an average of 30 years industry experience who have sailing experience in all types of ships, voyaged on all sea routes of the World and immensely experienced in every aspect of navigation AMET is the only organization having such a great number of highly qualified and richly experienced maritime professionals as Teachers.
- Similarly, Department of Naval Architecture, Department of Petroleum Engineering, Department of Harbour Engineering are having highly qualified experts as Teachers to engage in consultancy, research and development.

- Faculty of Physics and Information Technology jointly getting funded project from DST to work cross-disciplinary areas such as ballast water management is made possible only through the distinctiveness of the University.

Because of the inherent uniqueness, the University is having the greatest advantage of creating finest intellectuals in maritime disciplines.

### Testimony for the Distinctiveness of the University

- **The IAMU, Japan** has listed AMET in the **PIMET Ranking** as one of the **top 3 maritime Institutions of World** in Teaching, Research and overall grading for the **past three consecutive years**.
- AMET received **Grade A1 (Outstanding)** for the past **five consecutive years** in the Comprehensive Inspection Programme of the Directorate General of Shipping, conducted by DNV-GL, Norway
- Having realized the distinctiveness in the maritime domain, during October 2019, AP Moller Maersk (world shipping giant owning over 780 ships) has signed a MOU with the University and laid the foundation stone to establish **AP Moller Maersk-AMET Centre of Excellence**, for the first time in the world. The programme has commenced in 2020-21 where in around 160 students from Marine Engineering and Nautical Science are selected at the time of admission itself with appointment orders in AP Moller Maersk. The AP Moller Maersk have committed in their MoU that they will make their entire Admission with Appointment Order scheme from India exclusively from AMET, which is a rare distinction.
- **ADMISSION WITH APPOINTMENT ORDER** in the maritime domain is probably the most suitable testimony to the Distinctiveness of the University.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Appropriate web in the Institutional website	<a href="#">View Document</a>



## 5. CONCLUSION

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### Additional Information :

- AMET is the only educational Institute in India to offer maritime and marine degree programmes and doctorate programmes under one roof (**all maritime programmes in single campus and at UG, PG and PhD levels**).
- AMET is first in India to offer doctoral programmes in Nautical Science, Harbour Engineering, Shipping and Logistics etc.
- AMET offer programmes for both on-shore and off-shore programmes by **providing multidisciplinary exposure of highly unique disciplines**.
- AMET is the only organization in India which offers all levels of maritime courses (From GP Rating course (eligibility SSLC) to highest level of competency certificate courses (eligibility: 15 years of sailing experience).
- Global Maritime Distress and Safety Systems (GMDSS) Department of AMET is unique and the only organization in India with recognition from UK and Indian Maritime Authorities to conduct GMDSS GOC (U.K.) and GMDSS (IND) courses.
- AMET provides opportunities for general degree students to get qualified for shipping industry jobs through its courses such as **GME, ETO and MBA** Shipping and Logistics.
- The IAMU has appointed Col.Dr.G.Thiruvassagam, Vice Chancellor, Capt.K.Karthik, Dean-Nautical Science and Dr.T. Sasilatha, Dean-Academics to review and recommend the research projects submitted to IAMU.
- Faculty Members of Marine Engineering and Nautical Science have average of **30 years industry experience with highest certificate of competency** (Master Mariner (FG) and MEO Class-1). AMET is the only organization in India having such a great number of richly experienced maritime professionals as Teachers.
- Department of Naval Architecture having experts in Ship design who provide consultancy for ship design industries
- Faculty Members of Physics and Information Technology undertake cross-disciplinary **DST funded project** on ballast water management
- Department of Petroleum Engineering has experts in different aspects of Petroleum Engineering with credible publications, consultancy and government funded projects, patents (2), etc.

Because of the inherent uniqueness, the University is having the greatest advantage of creating finest intellectuals in maritime and allied disciplines.

### Concluding Remarks :

- AMET as a **sector specific de novo category deemed to be University**, which is being assessed through general parameters, is making remarkable achievements in areas such as curriculum development, teaching learning processes, research, student support and other related areas.
- The University is setting a benchmark to all Maritime Institutions in India and is rapidly expanding its operations to marine related disciplines as well.
- During the academic year 2019-20, the University has overcome all obstacles faced due to **COVID19**

**pandemic** and excelled in all regular accomplishments.

- The visionary leadership of the University, committed service of the Faculty and Staff, sincere outcome of the students and able support of all stake holders, have made the University to fulfill all the recommendations and suggestions given during the 1st Cycle of NAAC Accreditation.
- The University has made remarkable improvements in the past five years to make itself eligible to get highest grades in the 2nd Cycle of NAAC Accreditation.

NAAC

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p><b>Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years</b></p> <p>1.1.3.1. Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2019-20</th><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th></tr></thead><tbody><tr><td>925</td><td>884</td><td>924</td><td>695</td><td>602</td></tr></tbody></table> <p>Answer After DVV Verification :</p> <table border="1"><thead><tr><th>2019-20</th><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th></tr></thead><tbody><tr><td>765</td><td>760</td><td>649</td><td>456</td><td>589</td></tr></tbody></table> <p>Remark : DVV has excluded the courses which are not directly focus on employ-ability/ entrepreneurship/ skill development .</p>	2019-20	2018-19	2017-18	2016-17	2015-16	925	884	924	695	602	2019-20	2018-19	2017-18	2016-17	2015-16	765	760	649	456	589
2019-20	2018-19	2017-18	2016-17	2015-16																	
925	884	924	695	602																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
765	760	649	456	589																	
1.2.1	<p><b>Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.</b></p> <p>1.2.1.1. <b>How many new courses were introduced within the last five years.</b> Answer before DVV Verification : 2756 Answer after DVV Verification: 1875</p> <p>1.2.1.2. <b>Number of courses offered by the institution across all programmes during the last five years.</b> Answer before DVV Verification : 4030 Answer after DVV Verification: 4030</p> <p>Remark : DVV has made the changes as per new courses excluded Industrial visits and Viva-voce.</p>																				
2.1.2	<p><b>Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the last five years</b></p> <p><b>(Excluding Supernumerary Seats)</b></p> <p>2.1.2.1. <b>Number of actual students admitted from the reserved categories year wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2019-20</th><th>2018-19</th><th>2017-18</th><th>2016-17</th><th>2015-16</th></tr></thead><tbody><tr><td>395</td><td>809</td><td>607</td><td>523</td><td>483</td></tr></tbody></table>	2019-20	2018-19	2017-18	2016-17	2015-16	395	809	607	523	483										
2019-20	2018-19	2017-18	2016-17	2015-16																	
395	809	607	523	483																	

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
260	495	387	336	310

Remark : DVV has made the changes as per report of actual admitted reserved students shared by HEI.

**2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years**

**2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
88	34	9	6	4

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

**2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years**

**2.5.2.1. Number of complaints/grievances about evaluation year wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
31	32	35	23	30

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
30	23	35	32	31

Remark : DVV has made the changes as per revaluation report shared by HEI.

**3.1.3 Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.**

**3.1.3.1. The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
4	9	8	6	2

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
3	4	0	0	1

3.3.2 **Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.**

3.3.2.1. **Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
142	25	18	23	17

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
142	25	18	22	17

3.3.3 **Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.**

3.3.3.1. **Total number of awards / recognitions received for *research* / innovations won by institution / teachers / research scholars / students year-wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
138	49	19	25	6

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
128	39	11	23	6

3.4.5 **Number of research papers per teachers in the Journals notified on UGC website during the last five years**

3.4.5.1. **Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
467	695	712	109	197

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
352	543	527	64	88

**3.4.6 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

**3.4.6.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
299	127	103	29	55

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
274	118	46	21	46

**3.5.2 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).**

**3.5.2.1. Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
504.89	958.66	125.25	124.56	109.63

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1318.87	144.30	125.26	124.58	109.64

**3.6.2 Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the last five years**

**3.6.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
112	4	3	2	3

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

**3.7.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

**3.7.1.1. Total number of Collaborative activities with other institutions / research establishment / industry for research and academic development of faculty and students year-wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
302	230	276	72	80

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
178	147	161	48	43

**4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)**

**4.1.4.1. Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
2263.68	2557.59	2364.16	1805.97	1650.25

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1040.72	1173.18	1100.22	564.95	560.19

Remark : DVV has made the changes as per addition of fixed assets excluding library books duly signed by CA.

**4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year**

**4.2.4.1. Number of teachers and students using library per day over last one year**

Answer before DVV Verification : 1073

Answer after DVV Verification: 830

Remark : DVV has made the changes as per provides logbook entries online and offline using library on 03/Feb/2020 to 07/Feb/2020.

**5.3.3 Average number of sports and cultural events / competitions organised by the institution per year**

**5.3.3.1. Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
36	21	18	18	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
32	10	11	2	6

**6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.**

**6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
193	157	53	22	34

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

Remark : HEI has not shared any proof for the disbursement of incentives i.e. In the form of vouchers.

**6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.**

**6.3.3.1. Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**



Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
177	68	34	28	18

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
97	56	27	19	15

Remark : DVV has not considered programs for the year 2020-21 and DVV has not considered programs of duration of less than five days.

6.3.4 **Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

6.3.4.1. **Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
183	142	72	43	30

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
116	75	36	24	12

Remark : DVV has excluded programs of duration of less than five days. Also not considered duplicate entries of teachers.

6.4.2 **Funds / Grants received from government bodies during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V ) (INR in Lakhs).**

6.4.2.1. **Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	27.43	20

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
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0	0	0	0	0
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Remark : Copy of letter from government has not provide by HEI.

6.5.2	<p><b>Institution has adopted the following for Quality assurance</b></p> <ol style="list-style-type: none"> <li><b>1. Academic Administrative Audit (AAA) and follow up action taken</b></li> <li><b>2.Confernces, Seminars, Workshops on quality conducted</b></li> <li><b>3. Collaborative quality initiatives with other institution(s)</b></li> <li><b>4.Orientation programme on quality issues for teachers and students</b></li> <li><b>5. Participation in NIRF</b></li> <li><b>6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).</b></li> </ol> <p>Answer before DVV Verification : A. Any 5 or more of the above          Answer After DVV Verification: B. 4 of the above          Remark : DVV has made the changes as per supporting SL. No. 1, 2, 3 and 6 by HEI.</p>
7.1.6	<p><b>Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:</b></p> <ol style="list-style-type: none"> <li><b>1. Green audit</b></li> <li><b>2. Energy audit</b></li> <li><b>3. Environment audit</b></li> <li><b>4. Clean and green campus recognitions / awards</b></li> <li><b>5. Beyond the campus environmental promotion activities</b></li> </ol> <p>Answer before DVV Verification : A. Any 4 or all of the above          Answer After DVV Verification: C. 2 of the above          Remark : DVV has select 2 of the above as per report of campus environmental promotion and certificates for clean and green campus shared by HEI.</p>

## 2.Extended Profile Deviations

ID	Extended Questions										
1.2	<p><b>Number of outgoing / final year students year-wise during last five years</b></p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="197 1899 986 2011"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>903</td> <td>719</td> <td>681</td> <td>610</td> <td>543</td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	903	719	681	610	543
2019-20	2018-19	2017-18	2016-17	2015-16							
903	719	681	610	543							

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
945	840	813	730	601

2.2

**Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
237	191	169	109	169

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
253	254	172	107	148