

# ANNUAL QUALITY ASSURANCE REPORT

1<sup>st</sup> CYCLE

2017-2018



**ACADEMY OF MARITIME EDUCATION AND TRAINING (AMET)**

DEEMED TO BE UNIVERSITY

135, EAST COAST ROAD, KANATHUR

CHENNAI-603112

DECEMBER 2018

## AMET-AQAR-II: 2017-2018

## CONTENTS

<b>SL. NO.</b>	<b>CONTENT</b>	<b>PAGE</b>
<b>PART A</b>		
1	Details of the Institution	4
2	IQAC Composition and Activities	5
<b>PART B</b>		
1	Criterion – I: Curricular Aspects	9
2	Criterion – II: Teaching, Learning and Evaluation	11
3	Criterion – III: Research, Consultancy and Extension	16
4	Criterion – IV: Infrastructure and Learning Resources	21
5	Criterion – V: Student Support and Progression	23
6	Criterion – VI: Governance, Leadership and Management	27
7	Criterion – VII: Innovations and Best Practices	35
<b>LIST OF ANNEXURE</b>		
1	Academic Calendar of the year (2017– 2018)	
2	Analysis of the feedback	

## THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

### PART – A

<b>AQAR for the year 2016-2017</b>	
<b>1. Details of the Institution</b>	
1.1 Name of the Institution	Academy of Maritime Education and Training (AMET) deemed to be University
1.2 Address Line 1	135, East Coast Road
Address Line 2	Kanathur
City/Town	Chennai
State	Tamil Nadu
Pin Code	603112
Institution e-mail address	office@ametuniv.ac.in
Contact Nos.	044- 32577030 / 32577002
Name of the Head of the Institution:	Col. Dr. G Thiruvassagam
Tel. No. with STD Code:	044-32575616
Mobile:	9566112211
Name of the IQAC Co-ordinator:	Dr. M. Jayaprakashvel
Mobile:	9840529274
IQAC e-mail address:	iqac@ametuniv.ac.in
<b>1.3 NAAC Track ID</b> (For ex. MHCOGN 18879)	TNUNGN11431
<b>1.4 NAAC Executive Committee No. &amp; Date:</b>	EC/71/A&A/15.1 DATED NOVEMBER 16, 2015
1.5 Website address:	www.ametuniv.ac.in
Web-link of the AQAR:	<a href="http://www.ametuniv.ac.in/IQAC/AMET-AQAR-2017-18.pdf">http://www.ametuniv.ac.in/IQAC/AMET-AQAR-2017-18.pdf</a>

**1.6 Accreditation details**

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.42	2015	NOVEMBER 15, 2020

<b>1.7 Date of Establishment of IQAC :</b>	13/05/2013
<b>1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011))</b>	First AQAR submitted for the year 2016-17 on 04-08-2017

<b>1.9 Institutional Status</b>						
University	State	Central		Deemed	Private	
	--	--			✓	--
	Yes			No		
Affiliated College	--			✓		
Constituent College	--			✓		
Autonomous college of UGC	--			✓		
Regulatory Agency approved Institution (eg. AICTE, BCI, MCI, PCI, NCI)	✓		(University Grants Commission-UGC and Directorate General of Shipping -DGS)		--	
Type of Institution	Co-education	Men	Women	Urban	Rural	Tribal
	✓	--	--	--	✓	--

Financial Status	Grant-in-aid	UGC 2(f)	UGC 12B	Grant-in-aid + Self Financing	Totally Self-financing
	--	--	--	--	--
<b>1.10 Type of Faculty Programme</b>	Arts	Science	Commerce	Law	PEI (Phys Edu)
	✓	✓	✓	--	--
	TEI (Edu)	Engineering	Health Science	Management	Others (Specify)
	--	✓	--	✓	Maritime Studies
<b>1.11 Name of the Affiliating University (for the Colleges)</b>	Not applicable				

<b>1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc</b>	
<i>Autonomy by State/Central Govt. / University</i>	--
<i>University with Potential for Excellence</i>	--
<i>UGC-CPE</i>	--
<i>DST Star Scheme</i>	--
<i>UGC-CE</i>	--
<i>UGC-Special Assistance Programme</i>	--
<i>DST-FIST</i>	--
<i>UGC-Innovative PG programmes</i>	--
<i>UGC-COP Programmes</i>	--
<i>Any other (Specify)</i>	<ol style="list-style-type: none"> <li>1. AMET is the only deemed to be University for Maritime Education under Ministry of Human Resources and Development (MHRD), Govt of India and University Grants Commission (UGC)</li> <li>2. All the technical programmes offered in the University are now approved by AICTE</li> <li>3. AMET is the only maritime higher education Institute in the Country to hold a membership in the International Association of Maritime Universities</li> <li>4. The DGS has accredited University with A1 outstanding Grade for the past FOUR consecutive years for outstanding maritime education and training, which is a rare distinction</li> <li>5. University is accredited by NAAC with B Grade</li> <li>6. Outstanding Grade in CRISIL rating</li> </ol>

## **2. IQAC Composition and Activities**

<b>2.1 No. of Teachers</b>	6
<b>2.2 No. of Administrative/Technical staff</b>	4
<b>2.3 No. of students</b>	3
<b>2.4 No. of Management representatives</b>	3
<b>2.5 No. of Alumni</b>	2
<b>2. 6 No. of any other stakeholder and community representatives</b>	1
<b>2.7 No. of Employers/ Industrialists</b>	1
<b>2.8 No. of other External Experts</b>	4
<b>2.9 Total No. of members</b>	24
<b>2.10 No. of IQAC meetings held</b>	14
<b>2.11 No. of meetings with various stakeholders :</b>	

No	Faculty	Non-Teaching Staff	Students	Alumni	Others
14	7	2		1	4
<b>2.12 Has IQAC received any funding from UGC during the year?</b>				Yes	No
				--	✓
If yes, mention the amount				-	
<b>2.13 Seminars and Conferences (only quality related)</b>					
<b>(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC</b>					
Total Nos	International	National	State	Institution Level	
7	--	-	--	7	

**(ii) Themes**

1. A total of 12 student contests were organized during March 2013 by the IQAC in commemoration of AMET Silver Jubilee Celebrations.
2. Workshop on Teaching-Learning Practices with special reference to Course File Preparation and Maintenance. 25-04-2018; Shri Janakiraman Auditorium
3. Workshop on Design and development of Curriculum based on AICTE model; 02-05-2018, Shri Janakiraman Auditorium
4. A brainstorming session on design and development of curriculum in the prescribed template with reference to offering Professional and Open Elective Subjects on 08-05-2018 to enrich the curriculum under CBCS system
5. Special lecture on Innovation for Incubation; 27-02-2018
6. Workshop on web based resources for research; 23-05-2018
7. Workshop on Writing Techniques for Research scholars; 22-06-2018

**2.14 Significant Activities and contributions made by IQAC****LIST OF MAJOR QUALITY INITIATIVES UNDERTAKEN DURING 2017-18**

1. IQAC has prepared and submitted mandatory Annual Quality Assurance Report (AQAR) 2016-17 during August 2018. It has been acknowledged by the National Assessment and Accreditation Council (NAAC)
2. IQAC has purchased URKUND, a Plagiarism Detection Software recommended by the UGC INFLIBNET and is used for the checking of plagiarism of research articles and PhD synopsis and manuscripts
3. IQAC has established Executive Committee of the IQAC to meet and discuss the quality improvements in the University. Two meetings conducted during 2017-18
4. IQAC has coordinated the Academic and Administrative Audit for the year 2017-18
5. IQAC has organized 12 student contests as part of AMET Silver Jubilee Celebrations
6. A Steering Committee with the FIVE members has been formed by the IQAC for undertaking pre-preparatory works for the application to NAAC Re-Assessment/Re-Accreditation. An exclusive office space has been created for the preparatory and planning works.

7. The IQAC has revised the student feedback proforma with more emphasis on curricular aspects, teaching learning process and resources. Student feedback were obtained, analyzed and reported to the Authorities and Academic Council.
8. A Steering Committee of the IQAC for Curriculum Enrichment has been established. The committee has prepared a common template for design and development of both UG and PG Curriculum with special reference to Engineering and Technology disciplines in the University as per the AICTE model curriculum.
9. The Internal Quality Assurance Cell of the University has prepared and submitted University information for the National Institution Ranking Framework (NIRF) 2018 during December 2017
10. In compliance with the suggestions of the UGC Expert Committee which visited the University during January-February 2018, the IQAC has created Student Online Grievance cum Feedback Portal in the Student Grievance page in AMET website
11. IQAC has made available all the feedback forms of stakeholders (student, alumni, parents and employers) in the University website to enable online feedback of stakeholders.
12. IQAC has developed and implemented a detailed proforma for collecting feedback from Faculty.
13. The Internal Quality Assurance Cell of AMET has prepared a proforma for proposal of academic events by the University Departments
14. IQAC has prepared and submitted Compliance Report for the suggestions and recommendations of UGC and AICTE Expert Committee visited during January 2018
15. IQAC has prepared and submitted the data for the IAMU Performance Indicators for Maritime Education and Training (PIMET), a global level study done by International Association of Maritime Universities (IAMU).

### ***2.15 Plan of Action by IQAC/Outcome***

The plan of action chalked out by the IQAC in the beginning of the year towards quality Enhancement and the outcome achieved by the end of the year \*

<b>Plan of Action</b>	<b>Achievements</b>
1. Promotion of quality research culture in the campus	<ol style="list-style-type: none"> <li>1. Organized two workshops for promotion of quality research</li> <li>2. Formulated Academic Integrity Policy and governed the anti plagiarism issues</li> <li>3. Procured and implemented the URKUND anti plagiarism software</li> </ol>
2. Strengthening the feedback system in the University	<ol style="list-style-type: none"> <li>1. The IQAC has revised and or formed new proforma for various stakeholder feedback such as student, faculty, alumni etc.</li> <li>2. All the feedback forms are now made available online</li> <li>3. Feedback analysis and action taken reports are submitted in Academic Council</li> </ol>



3.Enrichment of Curriculum and Syllabi	<ol style="list-style-type: none"> <li>1. AICTE has proposed a model curricula for the professional course. IQAC has formed a Steering Committee of the IQAC for Curriculum Enrichment and created awareness for the need of curriculum enrichment to suit the dynamic changes in various spheres. AICTE curricula have been adopted in AMET.</li> <li>2. Curricula of the all the programmes were reorganized with more scope for open and core electives, courses on human values and ethics, valued added courses, more number of experiential learning contents in courses etc</li> </ol>
4. Commemoration of special days of national and international importance	University has extended the number of important days or commemorative days in remembrance of leaders, events and movements of national and international importance

\* Attach the Academic Calendar of the year as Annexure. (Annexure I)

2.15 Whether the AQAR was placed in statutory body	Yes		No
	✓		--
	Management	Syndicate	Any other body
	Provide the details of the action taken	✓	--
			<ol style="list-style-type: none"> <li>1. A separate steering committee has been created involving Faculty Members by the IQAC for preparing the AQAR 2017-18</li> <li>2. The above statutory bodies have recommended the AQAR for submission.</li> <li>3. Suggestions provided by the bodies were incorporated and implemented accordingly.</li> </ol>

### Part – B



**Criterion – I**  
**1. Curricular Aspects**

**1.1 Details about Academic Programmes**

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	15	2	17	0
PG	5	0	5	0
UG	8	3	11	11
PG Diploma	0	0	0	0
Advanced Diploma	0	0	0	0
Diploma	0	0	0	0
Certificate	5	1	6	0
Others	0	0	0	2
<b>Total</b>	<b>34</b>	<b>5</b>	<b>39</b>	<b>13</b>

Interdisciplinary	2 PG programmes
Innovative	University has introduced job oriented Diploma programme specially designed and developed for the underprivileged fishermen community. By involving community representatives and experts from Government Organizations, Private Organizations, Senior Academicians and Technical Experts of the University, the programme has been structured.

**1.2 (i) Flexibility of the Curriculum: Core Elective option / Open Elective options are provided through CBCS system**

1. During 2017-18 academic year, the University has strengthened the Choice Based Credit System by providing more number of elective options both for core and open elective courses
2. Each student shall have an opportunity of taking atleast two open electives among several choices being offered in almost all Departments.
3. Each student shall have an opportunity of taking atleast Four Course electives among several choices being offered in their own Department
4. Besides, each Department is offering a variety of value added courses
5. Industry Internships/Industry visits/Field visits/port visits/shipyard visits are made as part of curriculum

**Academic flexibility**

1. Curriculum is based on Choice Based Credit System (CBCS)
2. Each Curriculum has Core, Elective, Open elective options. Open electives have been introduced, where students can opt any open elective course across Departments hence promotes academic flexibility.

**(ii) Pattern of programmes:**

Pattern	Number of programmes	Remarks
Semester	18	CBCS System
Trimester	0	--
Annual	0	--

<b>1.3 Feedback from stakeholders(On all aspects)</b>	Alumni	Parents	Employers	Students
	✓	✓	✓	✓
Mode of feedback	Online	Manual	Co-operating schools (for PEI)	
	✓	✓	--	
The analysis of student feedback on course delivery *Please provide an analysis of the feedback in the Annexure	<b>Annexure 2 is enclosed as a Model for feedback in each of the categories</b>			

**1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.**

✚ Yes.

**Salient Features:**

- ✚ All the UG and PG programmes offered in the University have been revised to suit the changing needs of dynamic spheres.
- ✚ The CBCS system is strengthened further with more options to choose from both open and core elective courses.
- ✚ Since all the programmes have undergone curriculum revision, the syllabi have also been updated

**Curriculum Enrichment**

- ✚ AICTE has proposed model curricula for the professional course. IQAC has formed a Steering Committee of the IQAC for Curriculum Enrichment and created awareness for the need of curriculum enrichment to suit the dynamic changes in various spheres. AICTE curricula have been adopted in AMET.
- ✚ Curricula of the all the programmes were reorganized with more scope for open and core electives, courses on human values and ethics, valued added courses, more number of experiential learning contents in courses etc

**1.5 Any new Department/Centre introduced during the year. If yes, give details.**

The following new undergraduate departments were established

1. Department of Mining to offer B.E., Mining Engineering (Approved by AICTE and UGC through joint visit during January-February 2018 and AICTE through formal Approval Process held during April 2018 )
2. Department of Food Processing Technology to offer B.Tech., Food Processing Technology Engineering (Approved by AICTE and UGC through joint visit during January 2018 and AICTE through Approval Process held during April 2018)
3. Department of AMET Business School has established a Maritime Commerce Unit to offer B.Com Logistics and Computer Applications programme (Approved by UGC through formal Expert Committee visit during January-February 2018)

**Criterion – II**

**2. Teaching, Learning and Evaluation**

**2.1 Total No. of permanent faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
169	120	34	15	-

<b>2.2 No. of permanent faculty with Ph.D.,</b>	60
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**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
47	0	8	0	5	0	-	-	60	0

<b>2.4 No. of Guest and Visiting faculty and Temporary faculty</b>	Visiting Faculty	Adjunct Faculty
	8	20

**2.5 Faculty participation in conferences and symposia:**

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	12	38	14
Presented papers	38	37	10
Resource Persons	6	3	5

**2.6 Innovative processes adopted by the institution in Teaching and Learning:**

- ✚ University has revised/updated the entire curricula of all the programmes and syllabi of the courses by giving due weightage for ICT enabled teaching and learning process
- ✚ The Centre for ICT Enabled Education established during 2016-17 and Faculty Educational Materials Promotion Centre established during 2013-14, have proactively engaged in creating an innovative teaching learning experience in the University.

***Salient initiatives are***

1. University has adopted **FLIPPED CLASS ACTIVITIES** as one of the innovative teaching and learning method. Quiz, group discussions, activity based learning, video lectures, web assignments etc are
2. The ERP software of the University has been extended with additional features of **LEARNING MANAGEMENT SYSTEM** which is developed exclusively for the University. University has uploaded relevant study materials, e books etc for enhancing the learning experience of the students
3. Prof VBS Rajan Library in AMET has educated students to use the open digital repository **DSPACE** in which the University has uploaded, dissertations, video lectures, audio books, previous year question papers, study materials for higher studies preparation, soft skill development materials etc. Students are actively using the facility to augment their curricular needs.

<b>2.7 Total No. of actual teaching days during this academic year</b>	180
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**2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)**

**AMET has made the following examination and evaluation reforms**

1. Introduction of answer scripts with pre-printed details of students including photographs as enhanced
2. Answer scripts are improved with latest Optical Mark Recognition (OMR) to make it more technical friendly
3. University has made a pilot study with online evaluation of scanned answer scripts. It will be improvised.
4. Barcoding has been made in all answer scripts
5. Students can ask for revaluation and photocopy of their answer scripts

**2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop**

1. All the 169 Faculty Members of AMET are involved in academic activities such as curriculum restructuring and syllabus revision/update. Each Faculty is responsible for the syllabus revision/update of the courses they involved
2. AMET has conducted three workshops for curriculum development/enrichment. In all the workshops, Faculty members have participated

3. Faculty Members are part of Board of Study of every programme.
4. Faculty Members are also functioning as Members of Academic council and Board of Management

<b>2.10 Average percentage of attendance of students</b>	84%
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**2.11 Course/Programme wise distribution of pass percentage:**

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
<b>UG Courses</b>						
B.Sc-Nautical Science	180	37	106			79.44
B.E. - Marine Engineering	189	48	125			91.53
B.E. - Naval Architecture and Offshore Engineering	84	10	50	4		76.19
B.E. - Electrical & Electronics Engineering-Marine	9	3	5			88.89
B.E. - Petroleum Engineering	124	18	85			83.06
B.E. - Harbour Engineering & Ocean Engineering	21	8	12			95.24
B.E. - Mechanical Engineering	48	5	30			72.92
B.B.A-Shipping	82	4	58	1		76.83
<b>PG Courses</b>						
MBA - Shipping and Logistics Management	67	1	62			94.03
MBA - Oil and Gas Management						

MSc - Marine BioTechnology	1	1				100
M.Tech - Petroleum Engineering	8		3			37.5
M.Tech - Naval Architecture and Offshore Engineering	6		2	3		83.33
MS (BY RESEARCH)	1					-
Doctor of Philosophy	12					-

### ***2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:***

1. IQAC acts as a bridge between the administration and academic units with special reference to innovative teaching and learning processes
2. IQAC has been actively involving in the feedback process related to teaching learning processes. Stakeholders feedback forms are constantly improvised by the IQAC
3. IQAC is also involved in the analysis of feedback forms and report the action taken status in appropriate committees.
4. IQAC proactively associates with University Departments to identify suitable modern teaching and learning tools.
5. IQAC is also advising and coordinating with specialized centres and clubs to organize relevant faculty development programmes, student awareness events with reference to teaching and learning process
6. IQAC is conducting the annual Academic and Administrative Audits every year as a tool to Monitor and Evaluate the Teaching & Learning processes.
7. In each of the IQAC meetings and other subcommittee meetings, processes for teaching learning are discussed, reviewed and monitored.
8. The IQAC equally contributes for the monitoring and evaluation of new quality initiatives in the teaching learning process

For effective teaching learning process, the IQAC has conducted the following events:

1. **Workshop on Teaching-Learning Practices** with special reference to Course File Preparation and Maintenance. 25-04-2018; 03.00 pm; Shri Janakiraman Auditorium by Dr S Prabhakaran, Associate Professor of Mechanical Engineering
2. **Workshop on Design and development of Curriculum** based on AICTE model; 02-05-2018, 03.00 pm; Shri Janakiraman Auditorium; Dr T Sasilatha, Dean-Academics & Professor and Head-EEE
3. A brainstorming session was organized with reference to design and development of curriculum in the prescribed template with reference to offering **Professional and Open**

**Elective Subjects** on 08-05-2018 (11 am to 04.30 pm) to enrich the curriculum under CBCS system

The IQAC has contributed for the monitoring of teaching learning experience by following ways

1. IQAC collects on an annual basis the Self Appraisal form of Faculty which is based on the Academic Performance Index. The same is analysed and used for monitoring the faculty performance
2. Feedback collection and analysis in one another monitoring mechanisms of the IQAC for the effectiveness of the teaching learning process
3. During the academic year 2017-18, the student feedback forms are made online and students can register their feedbacks 24x7

### ***2.13 Initiatives undertaken towards faculty development***

<b><i>Faculty / Staff Development Programmes</i></b>	<b><i>Number of faculty benefitted</i></b>
Refresher courses	-
UGC – Faculty Improvement Programme	-
HRD programmes	153
Orientation programmes	56
Faculty exchange programme	2
Staff training conducted by the University	140
Staff training conducted by other Institutions	56
Summer / Winter schools, Workshops, etc.	123
Others	108
All the 169 Faculty Members have participated in any one or most of the above category Faculty Development Programmes or such events.	

### ***2.14 Details of Administrative and Technical staff***

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	171	0	5	0
Technical Staff	48	0	3	0



**Criterion – III****3. Research, Consultancy and Extension*****3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution***

1. The IQAC has formed and implemented Academic Integrity Policy for the promotion of ethically good research
2. IQAC has formed AMET Research Connect Forum through which research scholars organize research oriented events frequently
3. The IQAC has conducted the following events for the Sensitizing/Promoting Research Climate in the institution
  - a. Workshop on web based resources for research; 23-05-2018
  - b. Workshop on Writing Techniques for Research scholars; 22-06-2018

***3.2 Details regarding major projects***

	Completed	Ongoing	Sanctioned	Submitted
Number	0	3	0	11
Outlay in Rs. Lakhs	0	77.73	0	612.2

***3.3 Details regarding minor projects***

	Completed	Ongoing	Sanctioned	Submitted
Number	3	33	0	0
Outlay in Rs. Lakhs	20.02	11.928	0	0

***3.4 Details on research publications***

	International	National	Others
Peer Review Journals	609	52	10
Non-Peer Review Journals	254	4	-
e-Journals	29	-	-
Conference proceedings	78	97	-

**3.5 Details on Impact factor of publications:**

Range	Average	h-index	Nos. in SCOPUS
0.3-5.790	0.55	15	315

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organizations**

Nature of the Project	Duration	Name of the funding Agency	Total grant Sanctioned (Rs)	Received (Rs)
Major projects	2 yrs	SERB	1877303	453335
	3 yrs	SERB	2508000	750000
Minor Projects	2yrs	ICSSR	1000000	400000
	1 yr	BHAVINI	951000	951000
	1 yr	BHAVINI	951000	951000
Interdisciplinary Projects	3 yrs	DAE-BRNS	3388400	490750
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	3yrs	AMET	65000	50000
	3yrs	AMET	50000	35322
	1 yr	AMET has given 14 Faculty Minor Projects	620000	310000
Students research projects (other than compulsory by the University)	6 months	AMET has given financial aid for 17 student projects under student funded project	457800	175800
Any other(Specify) Consultancy projects	Different periods	18 client organizations	3777490	3777490
Total	-	-	15645993	8344697

**3.7 No. of books published**

i) With ISBN No	30
ii) Chapters in Edited Books	9
iii) Without ISBN No	5

**3.8 No. of University Departments receiving funds from**

UGC-SAP	CAS	DST-FIST	DPE	DBT Scheme/funds
-	-	-	-	-

**3.9 For colleges**

Autonomy	CPE	DBT Star Scheme	INSPIRE	CE	Any Other (specify)
-	-	-	-	-	-

<b>3.10 Revenue generated through consultancy</b>	Rs. 3777490
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**3.11 No. of conferences organized by the Institution**

Level	International	National	State	University	College
Number	5	8	1	9	NA
Sponsoring agencies	AMET, CSIR Govt of Inida	AMET	AMET	AMET	NA

<b>3.12 No. of faculty served as experts, chairpersons or resource persons</b>	42		
<b>3.13 No. of collaborations</b>	International	National	Any other
	2	8	1
<b>3.14 No. of linkages created during this year</b>	139		
<b>3.15 Total budget for research for current year in lakhs (Rs)</b>	From Funding agency	From Management of University/College	Total
	79.6	231.36	310.97

**3.16 No. of patents received this year**

Type of Patent		Number
National	Applied	04
	Granted	0
International	Applied	0
	Granted	0
Commercialized	Applied	0
	Granted	0

**3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year**

Total	International	National	State	University	Dist	College
25	1	9	2	13	0	NA

<b>3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them</b>	51
	168
<b>3.19 No. of Ph.D. awarded by faculty from the Institution</b>	11

**3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**

Category	JRF	SRF	Project Fellows	Any other
Newly Enrolled	0	0	0	12
Existing	4	0	2	6

**3.21 No. of students Participated in NSS events:**

University level	State level	International level	National level
453	105	0	0

**3.22 No. of students participated in NCC events:**

University level	State level	International level	National level
-	-	-	-

**3.23 No. of Awards won in NSS:**

University level	State level	International level	National level
1	0	0	0

**3.24 No. of Awards won in NCC:**

University level	State level	International level	National level
-	-	-	-

### 3.25 No. of Extension activities organized

University forum	College forum	NCC	NSS	Any other
36	NA	-	5	2

### 3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility (ISR)

- ✚ AMET has engaged Institutional Social Responsibility initiatives through NSS and other University level Clubs/Centres/Cells
- ✚ AMET has adopted the nearby Kanathur Reddikuppam, a fishing hamlet and orients all its extension activities with a central theme **Health Education Employment Development- HEED**
- ✚ Government of India sponsored Training Programmes, Awareness Programmes and workshops (total 7) were organized by the Research and Development division with total financial assistance from Government agencies
- ✚ **Besides, AMET offer the following innovative flagship outreach programmes for the local community free of cost.** To enhance the skill and make the rural youth and women as entrepreneurs for their economic upliftment, AMET implemented the Honourable Prime Minister Shri NARENDRA MODI's **SKILLING INDIA** and **STANDUP INDIA** programmes such as **Pradhan Mantri Kaushal VikasYojana (PMKVY)** by offering following training and skill oriented diploma programmes for community.
  - ❖ **Certificate Course in Fisheries Engineering in** collaboration with **Indian National Centre for Ocean Information and Services (INCOIS)**, Government of India, exclusively for the unemployed youths of fishermen community.
  - ❖ The **Women Empowerment Cell** of AMET is offering innovative programmes in collaboration with **Computer Society of India** and **ICT Academy**, Chennai for empowering economically poor rural women of the **Kanathur Village (Adopted village)** such as **Certificate Course in Tally**

**Criterion – IV**  
**4. Infrastructure and Learning Resources**

**4.1 Details of increase in infrastructure facilities:**

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	10.22	0	AMET	10.22
Class rooms	93	4	AMET	97
Laboratories	52	2	AMET	54
Seminar Halls	3	1	AMET	4
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	103	10	AMET	113
Value of the equipment purchased during the year (Rs. in Lakhs)	9913785	735850	AMET	10649635
Others- New research centers and Centre for Excellence	3	1	DST-SERB & AMET	4

**4.2 Computerization of administration and library**

**4.3 Library services:**

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	61347	45191486	733	2224258	62080	47415744
Reference Books	6971	20622644	54	119524	7025	20742168
e-Books	10353	11500	51111	249502	40758	261002
Journals	81	319669	293	564630	374	884299.80
e-Journals	169	445607	10495	2580967	10664	3026574
Digital Database	5	-	3	980000	8	980000
CD & Video	31672	-	31780	-	31780	-

Others (specify) Library Automation	Auto Lib Software	42000	-	-	Auto Lib Software	42000
Weeding (Hard & Soft)	Instead of weeding out, Archives was establishe d	-	-	-	-	-
D-Space Digital Library Software	Open Source	-	-	-	-	-

#### 4.4 Technology up gradation (overall)

Category	Total Computers	Comput ers Labs	Interne t	Browsing Centre	Comput er Centre	Office	Departm ents	Othe rs
Existing	592	225 (6 Labs)	592	40	1 (50 comput ers)	154	109	63
Newly added	109	56	109	5	5	28	15	-
Total	701	225	701	40	0	154	109	-

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

1. A separate Centre for ICT Enabled Education has been established
2. The Department of Information Technology has organized Computer Training Programme to Non Teaching staff during July 2017
3. The Department of Information Technology has organized one day workshop on INCT Enabled E Learning Tools during July 2017
4. The ICT Academy Chennai has given an orientation to the Heads of Departments for the use of ICT enabled techniques during July 2017
5. IQAC has organized Workshop on web based resources for research; 23-05-2018
6. IQAC has organized Workshop on Writing Techniques for Research scholars; 22-06-2018



7. The Office of Controller of Examinations has conducted a workshop on online evaluation on 04-09-2017
8. Prof VBS Rajan Library has organized an Awareness Programme on the use of SCIENCE DIRECT and SCOPUS on 18-09-2017
9. Centre for ICT Enabled Education organized a workshop on Employable Avenues for Engineering Graduates in IT Sector on 13-10-2017
10. On 13-12-2018, Centre of Excellence for On Board Ship Automation Laboratory has been inaugurated
11. IQAC has organized a special lecture on Innovation for Incubation on 27-02-2018
12. Centre for ICT Enabled Education has organized Faculty Development Programme on Problem Solving in C and C<sup>++</sup>

**4.6 Amount spent on maintenance in lakhs:**

ICT	Campus Infrastructure and facilities	Equipments	Others	Total
10614049	147138990	10649635	333192370	501595044

**Criterion – V**

**5. Student Support and Progression**

**5.1 Contribution of IQAC in enhancing awareness about Student Support Services**

1. IQAC is promoting Student Council Activities. Through student council the student support services are better heard and attended
2. IQAC has been interacting with the following Clubs/Cells that undertake designated Student Support Services.
  - i. Student Counselling Centre
  - ii. SC/ST Cell
  - iii. Equal Opportunity Cell
  - iv. Career Development Centre
  - v. Entrepreneurship Development Cell
  - vi. Placement Cell
  - vii. Students Grievance Redressal Cell (Green Box System)
  - viii. Anti-Ragging Committee (Black Box)
  - ix. Anti-Sexual Harassment Committee
  - x. Gender Sensitization Cell
  - xi. Earn while you Learn Centre
  - xii. University Centre for International Relations (UCIR)
  - xiii. Yoga Centre

3. The IQAC has made the student feedback and grievances online
4. IQAC has prepared and disseminated the following brochures for the benefit of students on various aspects of student support services
  - a. Scholarships and stipends available in the University
  - b. Government Scholarships
  - c. Placement training and placement information
  - d. Higher education details
  - e. Student welfare measures available in the University
  - f. Facilities for students

### ***5.2 Efforts made by the institution for tracking the progression***

1. University has a registered alumni association which functions proactively
2. University has a Human Resources Development Cell which organizes events and awareness programmes for the students about higher education and placement.
3. University has a Placement Department which arranges campus placements. Besides, the placement department tracks the progression of passed out students especially about their placement
4. The progression of students are tracked through AMET Alumni Association as well
5. Alumni are member of the following bodies through which their tracking is also made
  - a. Academic Council
  - b. Board of Studies
  - c. Internal Quality Assurance Cell (IQAC)

### ***5.3 (a) Total Number of students***

<b>UG</b>	<b>PG</b>	<b>Ph. D.</b>	<b>Others</b>
2960	225	168	12 (Certificate Course)

(b) No. of students outside the state	1041
(c) No. of international students	25

<b>Men</b>		<b>Women</b>	
No	%	No	%
3124	97.4	83	2.6

2017 - 2018						
General	SC	ST	OBC	MBC	Physically Challenged	Total
1027	157	10	1764	227	0	3185

Demand ratio: 1: 1.9

Dropout %: 2.08

#### 5.4. Details of student support mechanism for coaching for competitive examinations (If any)

1. Students are encouraged to write competitive exams. The Departments offer coaching classes for NET, SET and other subject related competitive exam preparation
2. The IELTS Centre has been established. This centre provides the orientation and coaching for examinations like IELTS, TOEFL
3. The Career Development Centre orients the students for the competitive examinations such as GATE, GRE and GMAT and also organizes orientation programmes with the help of experts from outside.

No. of students beneficiaries	1280
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#### 5.5 No. of students qualified in these examinations

NET	SET/SLET	GATE	CAT	IAS/IPS etc	State PSC	UPSC	Others
--	--	--	--	--	--	--	--

#### 5.6. Details of student counselling and career guidance

No. of students benefitted	2683
----------------------------	------

#### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
64	1046	730	163

### 5.8 Details of gender sensitization programmes

1. A separate Gender Sensitization Cell is functioning and creating awareness about gender sensitization in the University
2. Gender sensitization was given for all the incoming first year students during the Induction Programme on 21-07-2017
3. Centre for Women Empowerment has organized a special lecture on Prevention of Sexual Harassment on 24-08-2017
4. Awareness Programme on Gender Sensitization through Special Lecture on 15-09-2017

### 5.9 Students Activities

<b>5.9.1 No. of students participated in Sports, Games and other events</b>		
<b>State/ University level</b>	<b>National level*</b>	<b>International</b>
364	94	-
<b>No. of students participated in cultural events</b>		
<b>State/ University level</b>	<b>National level*</b>	<b>International</b>
110	45	-

\*(including Inter-Maritime University Tournaments conducted by AMET)

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

	<b>State/ University level</b>	<b>National level*</b>	<b>International level</b>
Sports	136	91	-
Cultural	49	15	-

\*(including Inter-Maritime University Tournaments conducted by AMET)

### 5.10 Scholarships and Financial Support

<b>Category</b>	<b>Number of students</b>	<b>Amount</b>
Financial support from institution	108	Rs. 27155112
Financial support from government	0	0
Financial support from other sources	0	0

Number of students who received International/ National recognitions	1	Travel Grant to attend IAMU Student Forum 2017 held at London during 11 – 13 July 2017 (500 USD)
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### ***5.11 Student organised / initiatives***

	<b>State/ University level</b>	<b>National level</b>	<b>International level</b>
Fairs	1	-	-
Exhibition	2	-	-

<b><i>5.12 No. of social initiatives undertaken by the students</i></b>	54
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### ***5.13 Major grievances of students (if any) redressed:***

No major grievances have been received.

## **Criterion – VI**

### **6. Governance, Leadership and Management**

#### ***6.1 State the Vision and Mission of the Institution***

##### **Vision**

To sustain our identity as a leader in maritime education through progressive innovation in training, research and development that will render a brilliant future for our students and a transformative impact on the global society.

##### **Mission**

To deliver technical knowledge and ethical values with uncompromising strides of excellence that will make our students employable, our faculty advance their knowledge, our staff achieve excellence and our alumni become global leaders.

## Quality Policy

Academy of Maritime Education and Training (AMET) is committed to provide highest quality in education and be the most preferred institution for pursuing marine and marine related Programmes.

### **This will be achieved by consistent focus on:**

- Providing a conducive, vibrant, progressive and enriching learning environment.
- Teaching Excellence and Research output
- Global outlook and engaging with the world through learning, teaching and research
- Attracting the best and the brightest students.
- Providing competitive advantage in gaining employment or further academic opportunities.
- Maintaining excellent links with commerce and industry both nationally and internationally.
- Complying with all applicable requirements and continually improving the effectiveness of the Quality Management system.

### ***6.2 Does the Institution has a management Information System***

Yes

### ***6.3 Quality improvement strategies adopted by the institution for each of the following:***

#### ***6.3.1 Curriculum Development***

AMET University has adopted Choice Based Credit System (CBCS) during 2015. The University has a strategy to continuously improve the CBCS system in order to ensure the curriculum development. In this regard, the following strategies are adhered:

1. Curriculum Development is to be need oriented.
2. It shall also focus on Outcome Based Education with defined objectives and outcomes at all levels
3. The Curriculum development shall also involve inclusion of technology such as Information Communication Technology (ICT)

4. While curriculum development, the University provides much emphasis on employability, entrepreneurship and skill development as main components

### **Curriculum Design and Development Procedure**

1. **Mapping the need for design and development** of the curriculum which is achieved through feedback from various stakeholders such as industry, employers, students and alumni, parents and peers.
2. **Design and development of the curriculum and syllabus** by taking into the considerations of vision and mission of AMET, national needs, international competition and industry needs. This is done by the various **Board of Studies** with the involvement of stakeholders.
3. **Approval of the curriculum and syllabus** by the Academic Council.
4. As and when required with reference to the changes in societal needs, feedback from stakeholders and peers, changes in the global scenario and industry sector, the **curriculum and syllabus are redefined** by Board of Studies and implemented with the approval of Academic Council.

While designing the curriculum, AMET takes into consideration the emerging needs in marine related areas, expectations of the stakeholders, scope for the research and global demands.

#### **Academic Flexibility:**

The **Choice Based Credit System (CBCS)** which was implemented from 2015, provides **academic freedom and flexibility** to the students. As a progressive move towards achieving highest benefits of academic flexibility, students are given opportunity to register themselves for the **MOOCs in online platforms** such as **SWAYAM, NPTEL** etc. This **Study from Home** option provides students a flexible mode of learning at their convenience. The credits earned through online courses are considered to calculate **GPA and CGPA**. Courses provide ample opportunity to enhance capability of the students both **vocationally** and **professionally**.

#### **6.3.2 Teaching and Learning**

AMET gives top priority for teaching and learning. Under the CBCS system, the University envisages a student centric teaching and learning process. The University also gives equal importance to:

1. The differential needs of the diverse category of students
2. Adopting learner centric methodologies such as participative learning and experiential learning
3. Promoting the use of technology in the teaching learning process

**As a measure to implement the above strategies, University has adopted the following methodologies:**

1. Constantly upgrading the capabilities of Faculty by organizing Faculty Development Programmes and sensitizing faculty to attend FDPs in other Institutes.



2. Academic Audit has been conducted for every academic year as one of the tool to monitor the effectiveness of the teaching and learning process. During 2017-18, the Academic Audit was conducted by the IQAC during January 2018.
3. AMET follows teaching learning processes such as Final Year Projects and Mini Projects, Internships, Field Trainings, Student seminars and assignments, Real Life hands on Training apart from regular class room teaching. All the 169 Faculty Members have participated in any one or most of the above category Faculty Development Programmes or such events. University has conducted 5 FDPs during 2017-18 excluding seminars, conferences and workshops.
4. University has incorporated technology to enhance teaching learning processes by the way of providing softwares, deploying ICT resources, following alternative teaching methods such as flipped classrooms, ICT enabled education through NPTEL/SWAYAM, use of mobile technology, conducting conferences and workshops, organizing lectures through video conferencing, promoting the use of e-contents such as videos, e-books etc. All the classrooms are ICT enabled among them 37 are smart class rooms.

### ***6.3.3 Examination and Evaluation***

AMET envisages the examination and evaluation procedures shall be the extension of teaching and learning with the ultimate aim of enhancing the knowledge and skill of the students. AMET constantly improve the efficiency of the examination and evaluation system with less errors. AMET also ensures transparent in the processes. The overall examination and evaluation methodologies followed at AMET are a tool to test the competency of the students of diverse categories.

Steps taken for improvising the examination and evaluation processes are

1. 1. The Examination and Evaluation Processes are computerized.
2. Introduction of answer scripts with pre-printed details of students including photographs as enhanced.
3. Answer scripts are improved with latest Optical Mark Recognition (OMR) to make it more technical friendly.
4. University has made a pilot study with online evaluation of scanned answer scripts. It will be improvised.
5. Barcoding has been made in all answer scripts
6. PhD Evaluation Procedures are reviewed. A strategy has been adopted to complete the entire evaluation procedure in six months time
7. URKUND, the anti plagiarism software suggested by the INFLIBNET UGC has been purchased and employed for the detection of similarities or plagiarism

### 6.3.4 Research and Development

No of Faculty provided with incentives for publications	No of articles produced by the Faculty	No of Articles in SCOPUS index	No of articles in UGC listed Journals	Total amount sponsored as Incentive
88	493	315	178	2870840

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

AMET is consciously upgrading the Library, ICT and physical infrastructure including instruments. Strategies adopted are

1. Inclusion of technology in Library and teaching learning processes
2. Upgrading existing facilities
3. Strengthening existing facilities with additional and new features/equipments
4. Maintaining the facilities and instruments

AMET has included three new digital databases in the Prof VBS Rajan Library. In addition to this 10495 new e-journals were also added in addition to the existing 169 e journals. A total of 51111 new e books were added in the Library. With reference to ICT, 37 class rooms have been upgraded as smart class rooms while all the class rooms are having ICT facilities. A total of 109 new computers have been added for research, administration and teaching purposes. Ten new equipments worth more than Rs 1 lakhs have been purchased and installed in this academic year.

### 6.3.6 Human Resource Management

1. AMET has a Human Resource Development Cell which organizes Faculty Development Programmes
2. The Centre for ICT Enabled Education organizes training programmes for the promotion of technology use among Faculty

### 6.3.7 Faculty and Staff recruitment

Faculty and staff recruitment is done by following standard procedures as per the guidelines of the UGC. Advertisements are made widely both in dailies and in the University websites. Approved vacancies are filled with eligible candidates who are selected by a panel of interviewers which includes Vice Chancellor, Registrar, Head of the department, and one /more external expert in the relevant subject. Selection process is strictly as per the UGC norms. A total 60 teaching faculty have been recruited in the academic year 2017-18.

### 6.3.8 Industry Interaction / Collaboration

The Industry Institute Collaborative Cell has been established and strengthened. The Cell is frequently organizing orientation programmes, events etc. The Cell also establishes memoranda of Understanding with industries. The cell acts like a bridge between academic talent in the University and industry.

### 6.3.9 Admission of Students

#### AMET practices the following strategies with reference to admission

1. Advertisement about the programmes offered, date of application sale, date of entrance examination and interview
2. Brochures and pamphlets are prepared and disseminated
3. Admission campaigns organized
4. AMET has participation in Education Expo and other shows
5. Admission process is technology enabled
6. Entrance examinations are held at different examination centres as well

#### 6.4 Welfare schemes available for

Category	Yes	No
Teaching	✓	
Non Teaching	✓	
Students	✓	

#### Teaching staff:

- Free Transportation ( to & fro)
- Free breakfast
- Tea/ coffee ( FN break and AN break)
- Lunch ( subsidized rate)
- In-campus Medical and healthcare facility.
- Casual leave, Earned leave and medical leave facility
- Maternity leave for female faculty.
- Accidental insurance scheme
- YOGA centre
- Fee concession for the children's admission.
- Annual tour for 3 days

***Non- Teaching staff:***

- Free Transportation ( to & fro)
- Free breakfast
- Tea/ coffee ( FN break and AN break)
- Lunch ( subsidized rate)
- In-campus Medical and healthcare facility.
- Casual leave, Earned leave and medical leave facility
- Maternity leave for female faculty.
- Accidental insurance scheme
- YOGA centre
- Fee concession for the children's admission.
- Loan & salary advance
- Annual tour for 3 days

***Students:***

- All students are covered under Accidental insurance scheme
- Wi-Fi in the campus and hostel.
- Gym for Boys and Girls available inside the University campus.
- Hospital and ambulance facility
- Bank ATM , stationary shop, Cafeteria, Café -Coffee day – available inside the campus.

<b><i>6.5 Total corpus fund generated</i></b>	Nil
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<b><i>6.6 Whether annual financial audit has been done</i></b>	Yes	No
	✓	--

***6.7 Whether Academic and Administrative Audit (AAA) has been done? : Yes***

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic Audit	Yes	Each one Expert for each Department	Yes	IQAC
Administrative Audit	Yes	External Experts	Yes	The ISO-QMS has provision for

				Administrative Audit, thrice an year
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**6.8 Does the University/ Autonomous College declares results within 30 days?**

	Yes	No
For UG Programmes	✓	--
For PG Programmes	✓	--

**6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?**

<b>6.10 What efforts are made by the University to promote autonomy in the affiliated / constituent colleges?</b>	Not applicable
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**6.11 Activities and support from the Alumni Association**

1. AMET Alumni Association has 11063 registered members
2. AMET Alumni Association provides full financial aid to the students who are selected for Earn While You Learn scheme
3. AMET Alumni Association has been supporting for the Silver Jubilee Celebrations held from February 2018 onwards

**6.12 Activities and support from the Parent – Teacher Association**

1. AMET organizes Parent Teachers meet every semester through University Departments
2. Parents and Teachers interact during Green Card Meeting every semester in which the student performance will be discussed

**6.13 Development programmes for support staff**

**6.14 Initiatives taken by the institution to make the campus eco-friendly**

1. Both the Centre for Clean Campus and Environmental Awareness (CCCEA) and ECOCLUB (student wing) are taking initiatives for an ecofriendly campus. Following activities are undertaken
  1. Tree plantation
  2. Waste segregation
  3. Solid waste management

#### 4. Awareness on the ill effects of plastic usage

The University has conducted the following events which are aimed to make the campus ecofriendly.

1. A plantation drive on “Do Plantation to Save Environment” was organized by the Department of Marine Biotechnology on 11-08-2017 as part of Mission Green AMET in association with Earth Smiles Trust, Chennai
2. Department of Marine Biotechnology and Department of Food Processing Technology organized “Seed ball preparation and dispersal event” on 07-09-2017 as part of Mission Green AMET
3. Department of EEE has organized a National Seminar on Recent trends in Renewable Energy in collaboration with National Institute of Wind Energy on 15-09-2017
4. Environmental Audit and Energy Audit were conducted during January 2017
5. LEO Club of AMET has organized a special lecture on Protecting our Environment on 12-10-2017
6. Department of Marine Biotechnology and ECOCLUB has organized a tree plantation drive on World Environment Day (05-06-2017)

### **Criterion-VII**

#### **7. Innovations and Best Practices**

***7.1. Innovations introduced during this academic year which have created positive impact on the functioning of the Institution. Give Details:***

1. AMET has started enhancing the role of technology in all the processes but more specifically in the teaching and learning process. This has created a positive impact among the learners who are now a technology loving generation.
2. Faculty members are given training and orientation for the effective usage of technology in teaching learning processes
3. AMET has made tremendous efforts towards strengthening the quality research. It has established faculty empowerment strategies, research promotional activities such as giving incentives, identifying and promoting talents by giving awards, seed money and appreciations.

a. *Provide the Action taken Report(ATR) based on the plan of Action decided upon at the beginning of the year:*

Sl. No.	Plan of action decided	Action taken report
1	Enhancing the role of technology in teaching and learning process	<p>5. Centre for ICT enabled Education has been established</p> <p>6. University has updated the entire curricula of all the programmes and syllabi with ICT features</p> <p>7. University has adopted <b>FLIPPED CLASS ACTIVITIES</b></p> <p>8. <b>LEARNING MANAGEMENT SYSTEM</b> has been uploaded with relevant study materials, e books etc for enhancing the technology enabled learning experience of the students</p> <p>9. Students are encouraged and incentives are given for participation in e-learning modules such as NPTEL/SWAYAM.</p> <p>10. Prof VBS Rajan Library in AMET has educated students to use the open digital repository <b>DSPACE</b></p>
2	Orientation of the Faculty Members towards for the effective usage of technology	A total of 11 porgrammes were organized which are listed in section 4.5 of this report
3	Strengthening the Quality Research	<p>1. Orientation Programmes were organized for upgrading the research potential of the Faculty and Research Scholars</p> <p>2. University has given incentives both as monetary benefits, workload reduction etc to the Faculty who are doing quality research</p> <p>3. Quality of research publications enhanced</p> <p>4. As outcome,</p> <p>i. AMET has produced 897 articles in SCOPUS indexed journals during 2017-2018 (data from SCOPUS).</p> <p>ii. Citations have increased to 2334 numbers.</p> <p>iii. Three research projects have</p>

		received government grants iv. H index of the University increased from 9 to 15
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### 7.3 Give two best practices of the institution

#### **BEST PRACTICE 1: ORIENTING FACULTY MEMBERS FOR BETTER RESEARCH ACCOMPLISHMENTS WITH REFERENCE TO PUBLICATIONS**

 **Title of the Practice:** Orienting Faculty Members for better research accomplishments

 **Objectives of the Practice**

1. To orient Faculty Members of the unique maritime education and training departments to publish quality research articles
2. To recognize the Faculty Members who produce better research accomplishments with special reference to publication of quality research articles

 **The Context**

Academy of Maritime Education and Training (AMET) was established during 1991 and declared as deemed to be University during 2007 under *de novo* category of the section 3 of UGC Act 1956. The University was accredited with Grade B by NAAC during 2015. There have been very few Higher Education Institutions involved in Maritime Education. Because of the inherent uniqueness, AMET has faced many constrains during NAAC, NIRF Rankings and other such common academic exercises. For example, the basic eligibility for Faculty Members of Nautical Science and Marine Engineering is not PG or PhD but the Certificate of Competency only. The Directorate General of Shipping (DGS) Government of India is the statutory/approving authority for maritime education in India. DGS recognizes Faculty Members with high competency even without formal UG/PG or PhD upto the level of Associate Professors to teach maritime education. Since the Faculty resources are not from formal education system with formal research focus, AMET has planned to make systematic efforts to create a research ambience in the campus by organizing orientation programmes workshops, seminars, discussions and brainstorming sessions etc for the promotion of research which may ultimately lead to quality publications and other research accomplishments.

 **The Practice**

1. AMET has intensified the number of orientation programmes and workshops or trainings related to promotion of quality research
2. AMET has established a separate section, Centre for Faculty Research Promotion. With a Coordinator for these activities. The Coordinator is assisting in a systematic



- manner to orient the Faculty Members of the Departments which are relatively weak in research publication numbers
3. University provides publication charges, charges for analytical works for research and other expenses related to research and publication
  4. In addition, University provides financial incentives for those who publish in reputed journals with impact factors

Thus, AMET has groomed its Faculty Members to get inclined towards research by giving all possible financial and intellectual supports which leads to relatively higher research accomplishments.

### Evidence of Success

During 2008, AMET had produced only 5 publications in SCOPUS. It has increased to 235 during 2015 when AMET was assessed and accredited. By continuously upgrading the capacity of the Faculty Members and encouraging them with financial incentives, AMET has produced 897 articles in SCOPUS indexed journals during 2017-2018 (data from SCOPUS). At present, AMET has produced 1230 articles in SCOPUS indexed journals with 2334 citations.

During 2015, the *h* index of the University is 4 and now it has reached 16 (SCOPUS data) due to the best practices followed in the University for promotion of research.


### Problems Encountered and Resources Required

<b>Problem encountered</b>	<b>Resources Required/Plans engaged to rectify the problems</b>
Finding of suitable Journals in some of the Unique domains such as Nautical Science	Interdisciplinary Journals have been identified and Faculty Members are oriented to publish interdisciplinary research

### Notes (Optional)

Moreover, Faculty members of AMET have filed and published 41 patents during 2014-2018. Besides, Faculty Members of AMET have received funded projects from government and private agencies and consultancy projects from industries worth several crores. Though maritime institutions like AMET deserve a separate assessment and accreditation pattern, it has not been considered so far. However, AMET has followed best practices for the improvement of research accomplishments as a measure for the promotion of quality metrics in research.


## **BEST PRACTICE 2: ENRICHMENT OF CURRICULUM FOR STUDENT CENTRIC LEARNING, INDUSTRY INTERACTION AND VALUE ADDITION**

 **Title of the Practice:**Enrichment of curriculum for student centric learning, industry interaction and value addition

 **Objectives of the Practice**

1. To enrich the curricula and syllabi of all the programmes offered in the University to strengthen student centric learning methods
2. To enrich the curricula and syllabi for enhancing the industry interactions
3. To enrich the curricula and syllabi for value addition towards employability and skill development

 **The Context**

 Being a deemed to be University, AMET is involved in continuous improvement of the curriculum to match the needs of various stakeholders. Now, the focus of education witches over to student centric teaching and learning methods world wide. Similarly industry interaction is also more important in this fast evolving technological society where the Industry interaction for the students even while they are studying professional programmes, improves their knowledge and enhance their confidence. Moreover, beyond the formal curriculum, value addition is also required to bridge the gaps in the curricular needs. Keeping above in mind, AMET has taken pivotal steps to streamline the existing curricula and syllabi of the all the programmes in the University for promoting student centric learning, industry interaction and value addition.

 **The Practice**

11. Steering Committee of the IQAC for Curriculum Enrichment was formed and conducted brainstorming sessions for the enrichment of curriculum for promoting student centric learning, industry interaction and value addition
12. IQAC has conducted workshops for curriculum enrichment and student centric teaching learning methods
13. Student centric teaching methods are incorporated in the course delivery.
14. In every semester, it has been made that at least one unit in the entire course syllabi shall be completely delivered by an industry professional. This has formed the basis for students to get first hand interaction with industry professionals within their comfort zone. Industry visits and industry internships are part of the curriculum
15. Value added courses are encouraged. It is made as part of the curriculum.

### 🚩 Evidence of Success

- **Student Centric teaching methods:** University has adopted **FLIPPED CLASS ACTIVITIES** as one of the student centric teaching learning methodologies wherein teachers play as a facilitator. Quiz, group discussions, activity based learning, video lectures, web assignments etc are taken up by the students themselves with the guidance of teachers. These activities are recorded in the lesson plan and course delivery documents.
- **Enhancing the industry participation:** For example, the Department of EEE had established a Centre of Excellence in On Board Ship Automation in the University along with an Industry, CDCE Automation. Students are getting trained in the state of the art recent technologies that are happening in the industry. Industry professionals are also involved in delivering class room lectures and guest lecture, which are made as part of the curriculum.
- **Value Addition:** The curricular gaps are filled with value added course. For example, the students of B.E. Mechanical Engineering are undergoing valued added courses such as Certificate course in CAD using CREO and Certificate course in CNC-Turning and Milling in association with National Small Industrial Corporation (NSIC), Govt. of India.

### 🚩 Problems Encountered and Resources Required

Problem encountered	Resources Required/Plans engaged to rectify the problems
Student enrolment for value added courses. University has not made it compulsory for enrolling value added courses.	<ol style="list-style-type: none"> <li>1. Students are given incentives such as fee reduction for enrolment of value added courses</li> <li>2. University provided logistical support without any additional fee for all the students who undergo such value added courses</li> </ol>

### 🚩 Notes (Optional)

The above three new initiatives which are proposed by the Steering Committee of the IQAC for Curriculum Enrichment has been found much useful for the students to make their learning a more participatory one while the entire curriculum has given them direct industry exposure and value addition.

#### ***7.4 Contribution to environmental awareness/ protection***

AMET has created a Centre for Clean Campus and Environmental Awareness (CCCEA) for making the campus a plastic free campus. It also works towards making the campus greener by taking initiatives such as tree plantation, waste segregation and solid waste management etc.

Students are also motivated and engaged in environmental awareness and protection activities through ECO Club.

The University has conducted the following events towards creating environmental awareness and protection.

7. A plantation drive on “Do Plantation to Save Environment” was organized by the Department of Marine Biotechnology on 11-08-2017 as part of Mission Green AMET in association with Earth Smiles Trust, Chennai
8. Dengue Awareness Programme was organized as a Street play by Fine Arts Club on 31-08-2017
9. Department of Marine Biotechnology and Department of Food Processing Technology organized “Seed ball preparation and dispersal event” on 07-09-2017 as part of Mission Green AMET
10. Department of EEE has organized a National Seminar on Recent trends in Renewable Energy in collaboration with National Institute of Wind Energy on 15-09-2017
11. Department of Marine Engineering had distributed prizes to the Best House Keeping in a Swach Bharath Scheme on 05-10-2018
12. Department of EEE has organized a Clean India-Health India campaign on 13-10-2018
13. Environmental Audit and Energy Audit were conducted during January 2017
14. LEO Club of AMET has organized a special lecture on Protecting our Environment on 12-10-2017
15. AMET ECOCLUB has organized two coastal clean up programmes during July 2017 as part of The International Coastal Cleanup, an International event in collaboration with Ocean Conservancy, International Coastal Cleanup, Ocean Action Network
16. Department of Marine Biotechnology and ECOCLUB has organized a tree plantation drive on World Environment Day (05-06-2017)

**7.5 Weather environmental audit was conducted?**

Yes	No
✓	--

**1.6 Any other relevant information the institution wishes to add (like SWOC)**

**Strengths**

1. AMET is the pioneer and leader in maritime education
2. The programmes offered at AMET are innovative and job oriented
3. AMET provides student centric teaching learning experience at campus
4. AMET has the finest manpower in the country in all areas of the studies in Maritime Education
5. AMET has been well recognized internationally in maritime policy making

**Weaknesses**

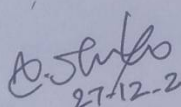
1. Because of the uniqueness of the programmes, less number of girl students enrolment
2. Because of the courses are job oriented and students are getting campus placement with good salary, progression to higher studies is very minimal.

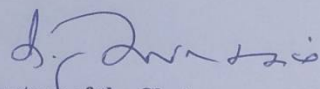
**Opportunities**

1. AMET is a sector specific University. AMET is moving towards becoming one of the worlds best Maritime Knowledge Hub
2. AMET could expand very well in other parts of the country and even abroad, because of the uniqueness of the programmes offered

**Challenges**

1. Since AMET is a sector specific University with lot of unique features which makes it not suitable for any common rankings and accreditation frameworks. University is requesting all such ranking and accreditation bodies to draw a separate benchmark for sector specific University like AMET
2. Since all the programmes are highly job oriented, students enrolling in our PG programmes are very less. University has provided PG scholarships, fee waiver and free transportation to enhance the PG admission which is still a challenge for the University.

  
 27-12-2018  
**Signature of the Coordinator, IQAC**  
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**COL. Dr. G. Thiruvassagam**  
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**Abbreviations:**

AMET	-	Academy of Maritime Education and Training
DGS	-	Directorate General of Shipping
CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test/Continuous Assessment Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
IQAC	-	Internal Quality Assurance Cell
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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