

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

1. Details of the Institution

1.1 Name of the Institution

Amrita Vishwa Vidyapeetham

1.2 Address Line 1

Amrita Vishwa Vidyapeetham

Address Line 2

Amritanagar P. O.

City/Town

Coimbatore

State

Tamil Nadu

Pin Code

641112

Institution e-mail address

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Contact Nos.

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Name of the Head of the Institution:

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Name of the IQAC Co-ordinator:

Dr. Sriram Devanathan

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IQAC e-mail address:

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1.3 NAAC Track ID (For ex. MHCOGN 18879)

TNUNGN10142

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

EC(SC)/03/RAR/60 dated 24-09-2014

1.5 Website address:

www.amrita.edu

Web-link of the AQAR:

http://www.amrita.edu/sites/default/files/pdf/aqar_2013-2014.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.20	2009	5 Years
2	2 nd Cycle	A	3.40	2014	5 Years
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

17/04/2009

1.8 AQAR for the year (for example 2010-11)

2013-14

1.9 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)

- i. AQAR __2008-09_____ (20/11/2012)
- ii. AQAR__2009-10_____ (20/11/2012)
- iii. AQAR__2010-11_____ (28/12/2012)
- iv. AQAR__2011-12_____ (27/12/2012)
- v. AQAR__2012-13_____ (23/08/2013)
- vi. AQAR__2013-14_____ (25/05/2015)

1.10 Institutional Status

University State Central deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

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

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

Biotechnology

1.12 Name of the Affiliating University (for the Colleges)

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (Specify)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

172

2.2 No. of Administrative/Technical staff

68

2.3 No. of students

24

2.4 No. of Management representatives

33

2.5 No. of Alumni

18

2.6 No. of any other stakeholder and
community representatives

14

2.7 No. of Employers/ Industrialists

7

2.8 No. of other External Experts

18

2.9 Total No. of members

358

2.10 No. of IQAC meetings held:

49

2.11 No. of meetings with various stakeholders: Students Faculty
 Non-Teaching Staff Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Y X

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

Sample of themes:

- Technology for Education 2014 (T4E 2014), NEURO DISORDERS, Digital Marketing; Financial Management, Medical Education & Research, International mini-symposium, commemorating the school’s 10th anniversary
- ISTE Workshop on Computer Networking, ISTE Workshop on Cyber Security, Workshop on NS3, International Conference on VLSI-SATA 2015, ISTE STTP on Effective mentoring in Computer Programming, ISTE Workshop on Introduction to Design of Algorithms.
- National Workshop on “Embedded System Control for Power Electronics Applications” organized under IEEE Student Chapter Events Held on 10th& 11th Nov , 2014
- MHRD ISTE 2 weeks Workshop on “Control Systems” organized by IIT Kharagpur, held on 2nd Dec – 12th Dec, 2014
- Days Workshop on “Solar PV system design and installation” organized by SSRC, Held on 25th May – 28th May, 2015
- State level workshop on “Inter-professional Collaboration for better patient outcome.
- Awareness about NAAC accreditation
- National Conference titled “Infectious diseases - A Medicinal Chemistry Perspective”
- Research development, Professional development
- Hands on workshop in ‘R’
- Android workshop
- Seminar on Latest Programming Trends
- Empowering Villages through Emerging ICTS”. (Annexure attached)
- Web weaving – Towards Building Successful
- Film Making
- Digital Photography and Image Editing
- Making TV Commercials
- Editing and Reporting
- Present Media Scenrio
- Wild Life Photography

- A hands-on Workshop on ‘Data Analysis Using Statistical Tools’
- One day National seminar on ‘Micro, Small and Medium Enterprises (MSEMEs)
- Two day National Conference on “Emerging Paradigm Shift of Risk Management Systems in Indian Financial Sector”
- Two day National Seminar on “Personal Wealth Management
- One day workshop on Indian Capital Markets and Online Trading.
- Research scope and issues related to various domains such as, Linguistics, Critical Theory, Diaspora and Commonwealth Literature

2.14 Significant Activities and contributions made by IQAC

School of Arts & Sciences-Amritapuri

- Organised awareness programme of NAAC related activities, by chief co-ordinators from the Head Quarters

School of Biotechnology-Amritapuri

- Guidance of restructuring the academic labs to accommodate more students.
- Instrumental to construct two labs in the areas of Cell Biology and Sanitation Biotechnology.
- Facilitate to expand the state of the art instrumentation lab (Amrita-Agilent Analytical Research Centre)with the induction of a Q-TOF mass spectrometer (from Agilent Technologies) to expand its potential to characterize large scale samples.

School of Ayurveda-Amritapuri

- National Seminar on Neuro Disorders
- Ashtanga hridaya Parayana competition (National level)
- Parayana (Recitation/Reading of the scriptures by the students
- Weekly Seminar by the PG Students
- Seminar by Faculty for PG Students

ASB-Bangalore

- Maintenance and improvement of the quality of MBA program
- Improvements in different aspects of school’s functioning
- Ensuring that all the faculty members teaching different courses submit their course outlines in time
- Ensuring course feedback from the students closes the loop by sharing it to respective faculty members in time
- Ensuring that all the courses follow continuous evaluation process
- Ensuring that all the faculty members produce research output: IQAC proposed that the Annual Performance Management System be revised to give more points for research. This suggestion was accepted by the management and a new Integrated Performance Review System has been developed by a faculty team which the management has accepted.
- Ensuring that faculty members have regular Mentors meetings with their students
- Introduction of master thesis in PG level

School of Engineering-Coimbatore

Plans are based on continued enhancement and excellence with respect to the following:

- Procedures to ensure smooth functioning of the university’s day-to-day administration – with transparency, reliability, comprehensiveness, and clarity
- New degree programmes to meet current and future needs of society and industry
- Innovation to enhance the teaching-learning process – learning from national and international best practices
- Achieving faster growth and excellence in research

- Conduct of, and participation in, faculty development programmes
- Outreach to the scientific community, via technical and non-technical seminars/conferences/workshops
- Expansion of its infrastructure with respect to buildings, library facilities, computing facilities, laboratories, etc.
- Links to recognized international and national academic institutions, industries, and Centres of excellence
- Participation in co-curricular, extra-curricular, and community service activities among students.

School of Business-Coimbatore

- IQAC recommended that our school should focus more on research. A Masters' Thesis component was introduced as a part of the curriculum as a result from the academic year 2014-15 onwards. Now, every MBA student in his/her second year has to choose a research topic and do a Masters' Thesis under the guidance of a faculty guide. For this year, it was required that an academic paper would need to be produced out of the thesis work which would need to be submitted to a reputed conference or journal for publication.
- A new course called Business Research Methods was introduced as a part of the syllabus in the First year of the MBA program to provide inputs to students in order to enable them to carry out academic research.

College of Nursing-Kochi

1. Improvement in academic/teaching learning activity - through more student centred and clinical oriented activities
 - Undergraduate students are posted continuously for one shift in the clinical area for continuity of care.
 - Changes are made in the clinical rotation plan to best suit the academic requirement and the level of expertise required and needed by the students of various programmes.
 - ✓ Extended the postings in casualty, blood draw and injection room to get better exposure to skill oriented training for Undergraduate students.
 - ✓ Posting in genetics and nuclear medicine department for MSc Nursing students to get better exposure to recent advances in the field of medicine.
 - ✓ Both undergraduate and post graduate students are posted in Central simulation lab for skill training. Post training evaluation was also done.
 - Ensures completion of all the related clinical assignments in a given area before students are sent to the next area.
 - A core committee was constituted under curriculum committee to identify the core skills in foundations of nursing and to develop a specific format for the same in order to improve the patient assessment skills of first year BSc Nursing students.
2. Inculcating culture and values by regular value based education and plan to prepare a module for the same.
 - By reconstituting the Cultural Education Committee, focussing Value based education not only to students but also to teachers and parents. Plan has been made to start the classes for teachers and parents.
 - By identifying a few core values that may be emphasized specifically for the First year BSc Nursing students.
 - By integrating cultural education/ value based education in the teaching- learning process/ student- teacher interaction whenever possible.
 - By ensuring value based education classes for a minimum of 1 hour/ week for all the courses.
 - Cultural education/ value based education is renamed as Personal Enrichment education.
3. Regular feedback about the teaching learning process is obtained from the students and alumni and modifications are done accordingly.
 - Each department is entrusted to review the assignments every year to make it more creative and focussed. If necessary delete the ones that are not effective and add the ones that are creative.
4. Improved system of documentation

- Undertaking is obtained from the parents and students regarding the awareness about the ineligibility of their ward to appear for University examination
 - Initiated and maintains the documentation system for hourly distribution of work by the faculty.
 - Plan has been made to take feed back on course evaluation/subject evaluation/individual teacher evaluation through AUMS.
5. Utilization of the central/common resources – Students and faculty get hands on training (15hrs) in the central simulation lab on specific clinical skills.
6. Started exchange programme with international universities.
- Three final year students of Bachelor Degree in Nursing from Artevelde University, Ghent, Belgium got experience in AIMS under Amrita College of Nursing for a period of seven to eight weeks. During this period they were posted in different clinical areas and community settings under the mentorship of a Professor, College of Nursing.
7. Class committee meetings are conducted to ensure the smooth running of the academic programme.
8. National Conference on Organ Transplantation is tentatively planned on 20th and 21st November 2015.
9. Improvement in research activities
- Increase in number of researches and publications by the faculty/ students.
 - Focused more on evidence based projects.
 - Ensures that all the Post graduate students publish a research article other than their theses.
 - An increased/ enhanced awareness on publishing the articles in indexed journals is given to faculty and students. The number of publications in indexed journals has been increased.
10. Ensures publication of the post graduate theses in indexed journals as a joint responsibility of both the student and the research guide.

School of Medicine-Kochi

To improve the quality related aspects in education, additional subjects like communication skills, medico-legal training, how to break bad news, etc., were incorporated in the PG curriculum. The Medical Education Unit has been re-constituted, with the inclusion of three additional young and dynamic faculty members.

In our efforts to create a continuous rapport with the public, various awareness programmes were conducted in diabetic prevention and control, organ donation, glaucoma, rise against cancer, pulse polio, blood donation, etc. As mentioned in the report, in the area of environmental awareness, a state level award has been received the institution with the sustained effort of all.

ASAS-Kochi

The IQAC formulates plans for various academic and nonacademic activities

- The proposals of the previous months are discussed and their outcomes are recorded for quality assurance.
- Training & Workshop for teachers & Non-Teaching Staff
- IQAC regularly conducts national level seminars

School of Pharmacy-Kochi

- Conducted national conference on “Infectious diseases: A medicinal chemistry perspective.
- Conducted Alumni meet on 4th October 2014.
- Amrita School of Pharmacy conducted 53rd National Pharmacy Week Celebrations 2014 from 8th to 15th December, 2014. This year’s theme for the National Pharmacy Week as selected by Indian Pharmaceutical Association was “Responsible use of Medicines - Role of Pharmacist”.

As a part of Pharmacy week celebrations commenced on 8th December 2014 with a

- Silent walkathon
- Various outreach programmes were conducted during the week including patient counselling
- Home to Home patient counselling
- Palliative care home visit
- Street Plays

ASB-KOCHI

- Improvements in student involvement in the school activities.
- Improvement in no. of applications received and no. of candidates who attended interview.
- Betterment of infrastructural facilities; further work in progress.
- More student participation in conferences and external events.
- Change in the format of Asthra, the annual event, from a B-fest to a conference format, with a decision to stick to socially relevant themes for the conference.
- Promotion of research activities: Faculty with PhD. have made international collaborations to improve research output; faculty currently enrolled for the PhD programme have made steady progress in terms of courses and research output.
- Improvement in the variety of external programmes attended by students: students sent out for seminars, discussions and workshops.
- Increase in the number of colloquia.

School of Dentistry

- Improving teaching quality by feedback from students.
- Patient satisfaction surveys are conducted by the IQAC.
- Weekly Soft skill classes are conducted for the overall development of students.
- Sterilization monitoring.

School of Arts & Sciences-MYSURU

- Preparation of re- accreditation report.
- Preparation for the NAAC peer team visit as part of accreditation process.
- Conduct of staff and faculty improvement program

School of Education-MYSURU

- Curriculum Revision for 2 Year B.Ed. programme

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 *

School of Arts & Sciences-Amritapuri

School of Biotechnology-Amritapuri

Plan of Action	Achievements
To conduct workshop, individual talks, seminars and refresher courses.	Workshops, invited talks and refresher courses were conducted.

Plan of Action	Achievements
Continue to enhance academic programs with the inclusion of updated cutting edge areas.	With the induction of four new elective courses in Advanced Biochemistry, Cancer Biology, Glycobiology and Phage Biology, students have been given opportunity to enhance their knowledge in the respective areas of biology.
Strengthen interdisciplinary, multifaceted research programs.	With funding from private and government agencies, the program on sanitation biotechnology could be effectively streamlined.
Increase collaboration with leading Institutes for enhancing academic programs/research	In addition to strengthening the existing collaborations, the faculty members of the School were successful in

capabilities.	establishing collaborations with world's leading universities such as University of Cambridge and University of Oxford, UK.
Joint academic and research programs with sister institutes.	<p>1. In a unique effort of its kind, ASBT in collaboration with its sister institutes including Amrita Center for Nanosciences and Molecular Medicine was instrumental to establish for Integrated Medicine and Research.</p> <p>2. To provide better insight into analytical chemistry, biochemistry, photochemistry and Natural Products lead discovery, few faculty members at ASBT offer a program on phytochemistry related analytical techniques to the students of Amrita School of Ayurveda.</p>

School of Business-Amritapuri

Plan Of Action	Achievements
1. Encourage students to participate in international programs in order to introduce a global setting in management education (Value added programme).	1. Two students undergone summer school with the University of Telecom France. Vishnu U Nair and Parvathy S Prasad.
2. Students will be given the opportunity to listen to industry leaders and experts in order to lend a practical and relevant focus to their education (Skill development programme).	2. Students had the opportunity to listen to talks given by several industry experts
3. Provide a global exposure to students by inviting <i>professionals</i> abroad to deliver course lectures via electronic means (Value added program).	3. Students experienced a global setting with international experts interacting via the A-VIEWS video conferencing software of Amrita University.
4. Encourage students to take up internships outside India	4. 4 Students (Arjun Remanan, Radhika , Gokul G Nath, Rahul Sukumaran, Rahul Sukumaran) had done their summer internships in UAE Companies like Barakat , Logwin Air and Ocean, Pearl Hotel Management LLC, Al Naji Infotech)

School of Ayurveda-Amritapuri

Plan of Action	Achievements
Starting PhD & Funded Projects	Experts are invited for the post of Director to design the Research & Development department & Activities.
Infrastructure Modification	Under Construction
Increasing the Number of External Activities	Outdoor & Indoor Free Medical Camps

School of Business-Bangalore

Plan of Action	Achievements
1.To implement Master thesis as a mandatory course for master students	Implemented for 2013 -15 batch
2.Further revised the Integrated Performance Management System	Based on previous year comments the committee further revised the Integrated Performance Review System. This structure gives an equal lot of emphasis on teaching, administrative and on Research while deciding the annual incentives for faculty.
2. To organize more Workshop for students in each course specialization.	We have conducted workshop on Excel, Digital Marketing and Financial Management
4. To encourage our faculty members to participate in research conferences, seminars and Faculty Development Programs;	Many of our faculty members participated in international / national conferences, seminars and FDPs.

School of Business-Coimbatore

Plan of Action	Achievements
1. To introduce a component to the curriculum which can enhance the research quality and output from the school	1. The Masters' Thesis component was added to the curriculum.
2. To equip our students with the capability to do academic research resulting in publication	2. The existing Marketing Research course in the MBA first year was modified with more emphasis placed on the methods of conducting research. This new course is called Business Research Methods.

School of Medicine-Kochi

Plan of Action	Achievements
<u>Academic</u> Preparation for MCI inspection for Degree recognitions in MD/MS/DM/M.Ch. courses MCI inspections seat increase Starting of additional courses	Following Degrees awarded by the University were approved by the MCI : DM Paediatric Cardiology DM Medical Oncology M.Ch. Paediatric Surgery Degree recognition inspections for 7 other courses were held in April 2015 and the outcome is awaited. Inspections for recognition for increased seats for 6 courses were conducted and the outcome is awaited. DM (Endocrinology) seat increased from 2 to 3 per year. Application has been submitted to the MCI for starting additional 28 courses in superspecialty.
<u>Infrastructure :</u> Augmenting in-patient and out-patient facilities	Construction activities for increasing the inpatient bed strength from 1250 to 1500 and out-patient facilities are in full swing,.

<p>Creation of additional facilities in patient care & diagnostic services</p>	<p><u>Achievement:</u> - First both hand transplant in India was performed by the Department of Plastic & Reconstructive Surgery.</p> <p>First heart transplant was conducted at the Amrita Hospital.</p> <p>First Pancreas and Kidney transplant in the State of Kerala was performed at Amrita Hospital.</p> <p>First small bowel transplant in the State of Kerala was performed at the Hospital.</p> <p>Departments of Biochemistry, Microbiology and Molecular Biology has commenced various new laboratory tests.</p> <p>Amrita Centre for Robotic Surgery was established.</p>
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College of Nursing-Kochi

Plan of Action	Achievements
<p>1. Conduct NAAC awareness programme for faculty and students.</p> <p>2. Integration of Nursing service and education</p> <p>3. Release of Nursing College Magazine</p> <p>4. To improve the research and publication in the college</p>	<p>1. Conducted NAAC awareness programme for the faculty and students – by NAAC experts and senior faculty of the college. Faculty and students especially the new comers could get an awareness regarding NAAC and could reinforce the same among the existing members.</p> <p>2. The clinical activities of the Students are planned and implemented in consultation with the nursing service department.</p> <p>3. The 4th college magazine “ Kalochakal” is under the process of printing and will be released during the farewell function of outgoing students 2014-15 on 12th August 2015.</p> <p>4. Increase in the yearly number of publications by faculty/ students from 10 in 2013-14 to 12 during 2014-15. Increased the publications in indexed journals.</p>

School of Pharmacy-Kochi

Plan of Action	Achievements
<p>● Revision of B.Pharm syllabus and switch over to grade system</p>	<p>As per the plan of action, the B.Pharm syllabus has been revised and updated and switched over to grade system from the academic year 2015-16 onwards.</p>
<p>● To organise more international conferences</p>	<p>Co-organised one international conference on computer aided drug & design (AICADD 2014) at Ettimadai on 25th, 26th & 27th July, 2014.</p>
<p>● To increase the number of funded projects</p>	<p>Submitted project proposals to various agencies for funding.</p>

School of Dentistry-Kochi

Plan of Action	Achievements
1) To increase the postgraduate seats in the college. 2) To improve the research activities. 3) To improve the overall development of students	The Dental Council of India (DCI) granted approval to start second postgraduate unit in three departments. More research projects got approval this year. The IQAC was able to conduct many soft skill development classes by various speakers from inside and outside the dental college. These classes were aimed for the overall development of our students

School of Business-Kochi

Plan of Action	Achievements
To improve infrastructure within the campus. To enhance the research output of the university, students would be encouraged to carry out research projects that lead to publications. Selection of the PlaceComm to be made interview-based to increase the seriousness of placement efforts. To help the students to choose electives based on industry requirements and placement potential. To increase the number of colloquia and extension activities of the department File maintenance in the soft format	Work in progress Achieved Achieved Achieved Achieved Achieved

School of Arts & Sciences-Kochi

Plan of Action	Achievements
1. To arrange national conferences on various emerging areas and to arrange sessions by experts from industry	We conducted 3 national level conferences, 13 Institution Level conferences and 30 Vidyamritam Sessions during the year

School of Arts & Sciences-Mysuru

Plan of Action	Achievements
• Incorporation of Yoga classes on a regular basis into the timetable.	Yoga classes have been incorporated into the Time Table for all UG classes
• Initiation of the process of collect feedback for curricular revision from stakeholders – students, alumni, industry experts and course teachers	Inputs for curricular revision were sent to the respective board of studies, based on the feedback from various stake holders
• Extending placement training and assistance to all UG students	Pooled campus recruitment drive was conducted where UG students received about 185 job offers

<ul style="list-style-type: none"> To conduct sponsored National conference 	2 National workshops were conducted
<ul style="list-style-type: none"> To initiate more workshops in emerging areas 	2 Workshops were conducted
<ul style="list-style-type: none"> To conduct quality improvement programmes for non teaching staff 	1
<ul style="list-style-type: none"> To conduct FDPs on topics of general interest focusing on overall personality development 	1
<ul style="list-style-type: none"> To increase the number of surveillance cameras in the campus 	20 more cameras are installed
<ul style="list-style-type: none"> To render all classrooms ICT enabled 	5 more projectors are procured in addition to the 7 existing
<ul style="list-style-type: none"> To enhance infrastructural ambience needed for campus recruitment drive 	The work is in progress

School of Education-Mysuru

Plan of Action	Achievements
Planned to have activities through Placement Cell	Many Students were appointed in reputed Institutions

2.15 Whether the AQAR was placed in statutory body

Yes

No

Management

Syndicate

Any other body

Provide the details of the action taken

Every year, the AQAR is presented to the members of the academic council, and recommendations for follow up actions are taken up for consideration in the next academic council. The discussions are captured in the minutes of the academic council meetings.

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 value added / Career Oriented programmes
PhD	25	1	0
PG	130	11	4
UG	37	4	3
PG Diploma	15	0	0
Advanced Diploma	1		
Diploma			
Certificate	2		
Others			
Total	210	16	

Interdisciplinary			
Innovative			

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options**(ii) Pattern of programmes:**

Pattern	Number of programmes
Semester	107
Trimester	4
Annual	103

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure*

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

Every four years for UG, and every two years for PG programs.

School of Arts & Sciences-Amritapuri

Syllabus Reformation in regular intervals & Updation /advancement in different areas of concern.

School of Engineering-Amritapuri

Yes, UG Board of Studies Meetings for syllabus Revision-Jan and May 2015

Curriculum and syllabi of B.Tech and M Tech has been modified in 2014-15 academic year with following salient features

- Project component is added to lab course. New electives added
- Curriculum is modified with more structured manner to help the student to carry out research i) Understanding of preliminary concepts through lab in first semester ii) Literature search for projects through seminar in second semester iii) Understanding of research project concept through simulations in minor project carried out in third semester iv) Experimental validation of the concept through hardware implementation of the project in fourth semester

School of Biotechnology-Amritapuri

Yes. Revision was recommended by the academic committee.

School of Business-Bangalore

The syllabus of different courses is regulated regularly. Faculty teaching different courses receive a Course Feedback at the end of the course. This helps the faculty members to revise their course syllabus for the next year.

Every year the course outline improve based on the feedback receive.

School of Engineering-Coimbatore

The B.Tech, M.Tech and MSW curriculum and syllabi has been revised for 2015 admission onwards.

School of communication has adopted the UNESCO Model Curricula.

Salient aspects:

- Live in Lab is introduced in the final year, the objective of which is to develop the technologies useful for remote villages.
- The course 15CSE100 Computational Thinking and Problem Solving is Introduced in the I Year in order to improve the programming skills for the students.
- The first semester course Engineering Graphics (15MEC100), common to all branches of B.Tech, is designed to be purely a computer based course.

Highlights of BTech CSE syllabi revision for 2015 batch onwards. Decisions were taken in the Board of Studies meetings held during 2014-2015

Description of Innovation	Benefits to be Achieved/Projected
The following project-based courses were introduced <ol style="list-style-type: none">1. Database Management Systems was introduced in fifth semester2. Software Engineering was introduced in sixth semester3. Web development was introduced in seventh semester	Hands-on, practical learning is emphasized

An initiative by Amrita University to serve the society is introduced as an elective lab which will be evaluated either in fifth or seventh semester.	The Live-in-Labs program aims to expose youth to problems faced by rural communities in India through experiential learning opportunities that put theory into practice by generating innovative solutions and facilitating critical and collaborative problem solving abilities of participants.
A one-credit course negotiated Studies is introduced in the sixth semester	Helps to provide focus on research / self-learning with the following outcomes: <ul style="list-style-type: none"> • Funded project modules • Innovative product development • Patent filing • Publications • Programming contests
A one-credit open lab course is introduced in the fifth semester	This provides an opportunity for students to take choice-based lab courses like <ul style="list-style-type: none"> • Cloud Architecture • C++ • Object Oriented Modeling • Python Programming • SCALA • SCILAB, etc..
Computational Thinking course is introduced for the first semester students of all branches of B.Tech	An argument can be made that computer science is becoming one of the core disciplines of a 21st century university education, that is, something that any educated individual must possess some level of proficiency and understanding. This transcends its role as a tool and methodology for research broadly across disciplines; it is likely that in the near future, at many universities, every undergraduate student will take some instruction in computer science, in recognition of computational thinking as being one of the fundamental skills desired of all graduates. There are implications for institutional resources to support such a significant scaling up of the teaching mission of computer science departments, particularly in terms of instructors and laboratories. -- IEEE ACM curriculum

School of Business-Coimbatore

A Masters' Thesis was added during this academic year. All the course outlines are revisited and revised by the faculty members offering those courses.

School of Medicine-Kochi

In the PG curriculum following subjects were included : Communication Skills, Research Methodology, medical education, medico-legal training, how to break bad news etc.

College of Nursing-Kochi

PG board of studies held on 22/2/2014 discussed regarding curriculum enrichment and has decided to focus on the following

- Newer trends in diseases, diagnosis and Treatment.
- More emphasis should be given to skill during clinical experience.

A few inadequacies are identified in the subject Community Health Nursing in 2nd year BSc Nursing has been rectified.

School of Pharmacy-Kochi

Yes. B.Pharm syllabus and curriculum has been revised and updated and switched over to grade system from the academic year 2015 -16

School of Business-Kochi

Inclusion of Masters Thesis of 6 credits; reduction of number of electives to 10 from 12

School of Arts & Sciences-Kochi

1. Discussions with subject experts, feedbacks from the current students, inputs from the Alumni and suggestions from Industrialists and Corporates are taken into consideration for reviewing the existing programmes.
2. All courses have undergone major syllabus revision once in three years incorporating major thrust areas.

School of Arts & Sciences-Mysuru

MCA programme underwent a curricular and syllabi revision – List of electives were updated as per industry requirement

Publication of a research paper was made mandatory for all PG students. Papers like technical writing are added to equip the students for the purpose.

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

1. AMRITA AUTOMOTIVE RESEARCH AND TECHNOLOGY CENTRE was inaugurated on 28th Jan, 2015 (Coimbatore campus)
2. India's first lab with two ROS Industrial enabled robots from ABB. Lab also has field robots including Clear path HUSKY Unmanned Ground Vehicle (UGV) and robot kits. (Amritapuri campus)
3. State of the art automation lab with PLC/SCADA training kit, Pneumatic kits, hydraulic kits, Servo drives and VFD drives. (Amritapuri campus)

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
1559	848	199	291	221

2.2 No. of permanent faculty with Ph.D.

374 (445 including contract, visiting, part-time, and resigned staff)

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

2.4 No. of Guest and Visiting faculty and Temporary faculty

12	99	4
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	144	305	43
Presented papers	351	205	5
Resource Persons	47	165	35

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

School of Arts & Sciences-Amritapuri

Using the aid of audio-visual devices, Virtual laboratories included in the curriculum of all graduate students. All the students have access to open access educational resources. Digital library presentation.

School of Engineering-Amritapuri

- Interdisciplinary student projects.
- Student/ faculty exchange programs with international Universities.
- Online classes of eminent professors from other Universities.
- Free and Open Source (FOSS) club
- Opportunity to do research along with experts working in centers of excellence within the campus.
- 1 year sponsored Internships for M.Tech /Ph.D students which almost assures jobs for students
- M.Tech Best Project Awards by Austria Microsystems
- Special coaching on subjects/topics beyond the curriculum for placements for B.Tech students
- Bridge Course for S3 and S5 ECE
- Project based theory courses
- Conduct of class committee meetings in class room itself, so that there is direct interaction between students and department

- Parents meeting to give feedback of students and to know about issues that students facing through parents

School of Biotechnology-Amritapuri

- Virtual Labs
- A-VIEW (Amrita Virtual Interactive e-Learning World)
- Hypothesis Proposals / Research Methodology
- Mini Projects
- Continuous Evaluation
- Independent research projects for B.Sc .final year students
- Inter disciplinary multi focus research project within the institution which resulted in the GATES foundation DBT BIRAC award.

School of Ayurveda-Amritapuri

- Department of Saalakyatantra started preparation of medicine by the students with the guidance of the faculty.
- Weekly seminars by Post graduate students.
- Awareness classes by the students to the public.
- Post graduate students were sent to School of Bio technology.
- It is decided to conduct one outdoor free medical camp every month for increasing the clinical exposure

School of Business-Bangalore

- ASB faculty adopt many teaching innovations in their teaching. As a part of the course on Marketing Management, the students did live projects on “One day in Retail store” Different marketing topics assigned on different retail companies by the instructor to get a more real life experience.
- Econometrics elective host a workshop to provide industry inputs to the students

School of Engineering-Coimbatore

Various innovative processes adopted by departments/centres are as below:

- Gave more importance to practice kind of learning, with more number of social work practitioners as visiting faculty
- Thrust Area Groups (TAG) have been formed in the department during the academic year 2014-15. The faculty and students are members of the group.
- TAG provides a strong platform for doing innovative research work. Weekly two hours are allotted in the timetable for TAG activities.
- Each TAG group takes initiative for publishing international journal papers and submitting project proposals to various research organisations and laboratories.
- TAG also encourages interdisciplinary research activities e.g., Exergy group.
- C Programming weekly Workshops for faculty
- Continued the practices of allocation of the same subject to the faculty for a minimum of three years and faculty deployed as co-teacher, if required.
- Project based evaluation introduced earlier in environmental studies was extended to some core subjects.
- The final year student project group size was reduced to increase their participation and contribution
- Conference / journal paper submission made mandatory for award of distinction for B.Tech and award of degree for M.Tech.
- The department continued to offer remedial courses to help the slow learners.
- The electives offered by the department are of interdisciplinary nature to promote projects of interdisciplinary nature.
- Continued to conduct workshop for undergraduate students by external experts in various core and interdisciplinary areas. (see annexure for details)

- Revision of B.Tech curriculum was initiated involving all faculty and through multiple levels of participation.
- Exposure to new Technology & Real time projects
- Webinar and Amrita AVIEW
- Online Tests, Visual Aids and Models

School of Business-Coimbatore

A Masters' Thesis component was introduced this year in order to help sharpen the analytical and research as well as communication and presentation skills of our students.

School of Medicine-Kochi

- (1) DaVinci Xi 4ARM Robotic Surgical Suite, Most advanced robotic system and second in the country
- (2) RUSA

College of Nursing-Kochi

- Comprehensive case management; Case scenario presentations
- Incidental short clinical examination
- Problem based learning
- Interactive lecture
- Posting for all the students in the central simulation lab
- Conducts individual conference; Nursing care conference
- Short clinical examination (incidental) Video assisted teaching
- Brain storming sessions to stimulate the thinking process of the students
- Mock drill on - disaster management; fire and safety
- Posting in the cytogenetic lab
- Creative revision of subjects
- Clinical supervision of a given area by a faculty
- Weekly quiz
- Role plays, debates, puppet shows on selected topics or disease conditions
- Conducts exhibition as part of community postings and as part of observing days of importance
- Regular journal clubs

School of Pharmacy-Kochi

1. Soft skills training programme for students
2. Class committee meeting are conducted for all batches where the students can interact with their faculty, discuss the students issues.
3. Weak students are provided with extra support through assignments and re-tests.

School of Dentistry-Kochi

- 1) Soft skill classes for dental students
- 2) Continuous evaluation of students during patient treatment
- 3) Fish in the bowl method (peer evaluation of the students)

School of Business-Kochi

Introduction of a multi-disciplinary project combining elements from Marketing, HRM, Costing and IT
Inclusion of more number of cases and application oriented activities in courses

School of Arts & Sciences-Kochi

- 1 Teachers adopt innovative methods in teaching. Institute-Industry interaction, online teaching, E-Assignment, supply of subject materials through soft copy, use AUMS, development and usage of software are some of the innovative method
2. The college offers value-added courses to enhance the moral and ethical values among the students. Yoga and Meditation are made compulsory for all UG&PG students with the aim to help the students to physically and mentally fit.

3. Add on courses like Tally ERP, CAT, CPT etc. offered to help students add value to their curriculum vitae.

School of Arts & Sciences-Mysuru

Computer science teachers are using lore.com for uploading notes and assignment and use it as a forum for subject specific discussions.

School of Education-Mysuru

Video recording of few practice-in-teaching lessons and criticism lessons to give effective feedback.

2.7 Total No. of actual teaching days

during this academic year

213 (Average)

2.8 Examination/ Evaluation Reforms initiated by

the Institution (for example: Open Book Examination, Bar Coding,

Double Valuation, Photocopy, Online Multiple Choice Questions)

- Online Multiple Choice Questions for some courses; centralized valuation.
- Continuous assessment or evaluation which includes periodical tests, assignments, tutorials, quizzes, seminars, oral presentations, small projects, visits and an End semester Examination.
- Internal : End Semester = 60 : 40
- Continuous evaluation of each lab course.
- Declaration of Results and conducting supplementary / arrear examination for failed students
- Timely result publication within 10-12 days from the last day of the end semester examination
- Result through AUMS (Amrita University Management System)
- Conduct of online Examinations for the courses- Environmental studies, Cultural Education & Soft Skills.
- Question Paper Booklets: For the courses – ECE220 Signals and Systems, ECE210 Digital Systems, CUL101 Cultural Education I, SSK102 Soft Skills, ECE221 Digital Signal Processing, EEE352 Design of Electrical Systems, AES312 Flight Mechanics and Static Stability, SSK113 Soft Skills III, AES332 Introduction to Avionics, EIE361 Fibre Optic Sensors and Applications, MEC100 Engineering Mechanics, EIE413 Biomedical Instrumentation, HUM258 Health and Life Style, HUM256 Psychology for Engineers, AES221 Mechanics Fluids, EIE331 Electrical Machines, ECE311 Electronic Circuits II, BM603 Signal Processing, BM604 Analog and Digital Electronics, BM613 Bio-Medical Instrumentation, VL613 Analysis and Design of Analog and Mixed Signal VLSI Circuits, EEE342 Control Engineering, PHY274 Astrophysics, ECE100 Electrical Engineering. Candidates can answer the questions in the question booklet itself.
- Publication/ Submission of paper in journal/conference is made mandatory for the award of distinction- UG (B.Tech) students. For PG (M.Tech) paper publication/submission is mandatory for the award of degree.
- Research article based assignments
- Grant proposal/project submissions

2.9 No. of faculty members involved in curriculum

restructuring/revision/syllabus development

161	235	77
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as member of Board of Study/Faculty/Curriculum Development workshop

90

2.10 Average percentage of attendance of students

2.11 Course/Programme wise

distribution of pass percentage : Ranges from 85% to 100%

School of Arts & Sciences-Amritapuri

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
MSc Chemistry	21	48%	48%	4%	-	100%
MSc Maths	5	40%	60%	-	-	100%
BBM	65	26.15%	40%	10.77%	-	76.92%
B.Com	66	28.7%	39.9%	13.66%	-	82.26
M.Com	7	57.2%	42.8%	-	-	100%
MSW	18	55%	38%	-	-	94%
MSc Physics	6	33%	50%	17%	-	100%
Integrated Physics	23	39%	26%	35%	-	100%

School of Engineering-Amritapuri

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech CSE	130	35.4	44.6			96
B.Tech ECE	136	36.95	40.57		12.31	89.83
B.Tech EEE	124	33.87%	50.81%			94.35%
B.Tech ME	133	49	36		5	90
M.Tech CS	25	36%	48%			100
M.Tech VLSI	25	11.54	61.54		26.92	100
M.Tech PR	27	33.33%	55.55%		11.11%	100
M.Tech TF	22	36	22		18	76
MCA	60	23.3%	51.6%			97.9
B.Sc CS	35	22.85	22.85			68.55
M.Sc CS	21	14%	42%			89

School of Biotechnology-Amritapuri

Title of the Programme	Total no. of students appeared	Division					
		Distinction % CGPA 8 & above	I % CGPA 6.5-7.99	CGPA below 6.5	II %	III %	Pass %
B.Sc BT	58	46.55	41.37	8.62	NA	NA	96.55
B.Sc MB	28	28.57	39.28	28.57	NA	NA	96.42
M.Sc BT	37	56.75	29.72	0	NA	NA	86.48
M.Sc MB	26	38.46	38.46	19.23	NA	NA	96.15
M.Sc CBB	3	33.33	33.33	0	NA	NA	66.66

School of Business-Amritapuri

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
MBA	63	7.9%	74%	17.1%		100

School of Ayurveda-Amritapuri

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Ist year BAMS	60		40		11	51
2 nd year BAMS	55		40		30	70
Final BAMS	60		76		07	83
Ist year MD	37					100

School of Engineering-Bangalore

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	Pass %	Failure%
B.Tech	501	23.55	46.91	16.97	87.43	12.57
M.Tech	91	27.17	61.96	09.78	98.91	1.09
Ph.D	03	100			100	

School of Business-Bangalore

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
MBA	47	≥80%	≥60%			
EMBA	24	≥80%	≥60%			

School of Engineering-Coimbatore

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech	1035	22.9	45.6			17.5
MCA	51	7.84	60.78			31.37
BA	27	25.9	62.96			
MA	7	28.6	57.14			
Journalism	2		100			
M.Tech ATE	20+1	33.33	47.62			19.05
M.Tech BME	11	27.27	54.55			18.18
M.Tech CEN	17	29.41	41.18			29.41
M.Tech CSE	27	11.11	51.85			37.03
M.Tech CVIP	24	16.67	62.5			20.83
M.Tech Cyber Security	24	25	45.83			29.17
M.Tech EBS	27	29.63	55.55			14.81
M.Tech EDN	22	22.73	50			27.27
M.Tech MFG	27+2	34.49	51.72			13.79
M.Tech PWE	27	11.11	48.15			40.74
M.Tech RSW	28	17.86	60.71			21.43
M.Tech VLSI Design	27	14.81	59.26			25.93

School of Business-COIMBATORE

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
MBA	111	14	84	13	0	100%

School of Medicine-Kochi

Title of the Programme	Total no. of students appeared	Division				
		Distinction	I	II	III	Pass
MBBS	89	0	9	49	31	--
MD/MS/Dip	88	NA	NA	NA	NA	77
DM/M.Ch	23	NA	NA	NA	NA	23

School of Nursing-Kochi

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BSc Nursing	58	NIL	24	66	-	90
Post Basic BSc Nursing	17	6	35	41	-	82
MSc Nursing	30	NIL	90	7	-	97

School of Pharmacy-Kochi

Title of the Programme	BATCH	Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
B.Pharm	IYr	60	15%	48%	17%		80%
	II Yr	58	16%	54%	0		70%
	III Yr	49	6%	47%	10%		63%
	IV Yr	50	16%	68%	4%		88%
M.Pharm	I Yr	19	74%	26%	0		100%
	II Yr	18	62%	23%	6%		91%
Pharm.D	I Yr	30	17	43	3		63%
	II Yr	29	34%	41%	3%		80%
	III Yr	30	17	77	0		93%
	IV Yr	28	29%	64%	0		93%
Pharm.D(PB)	I Yr	10	30%	70%	0		100%
	II Yr	5	80%	20%	0		100%

School of Dentistry-Kochi

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
I BDS	72	16.6	34.72	16.6		79.16
II BDS	79	3.79	20.25	21.5		69.08

IIIBDS	62	-	20.96	69.35		93.54
IV BDS	155	-	24.5	36.77		76.76
MDS	23	4.34	4.34	91.32		100
DDM	4	-	100	100		100

School of Business-Kochi

Title of the Programme	Total no. of students appeared	Division				
		Distinction % (>8 TGPA)	I %	II %	III %	Pass %
MBA (2013-15)	65	9	40	48	3	

School of Arts & Sciences-Kochi

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
2012 BCA	100	28	43			92%
2012 B.Com.	96	38	36			89.58%
2012 BBM	34	13	13			100%
2012 B.Sc.(VM)	34	15	17			97.06%
2012 MCA	71	11	36			100%
2013 M.Com.	32	9	17			100%
2013MFA (ACM)	17	5	12			100%
2013MFA (AAA)	9	5	3			88.89%
2013 MJMC	14	6	8			100%

School of Arts & Sciences-Mysuru

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
MCA	72	11	37			24
M.Sc	11	05	05			
M.Com	20	05	06			09
BCA	105	23	60			10
BBM	38	09	15			11
B.COM	35	09	18			03

School of Education-Mysuru

Title of the Programme	Total no. of students appeared	Division				
		Distinction	I %	II %	III %	Pass %
01	98	85	13	-	-	-

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

- IQAC is involved in facilitating academic audits - there is a list of activities to be undertaken by all departments and schools, and corresponding documentation. For e.g., record of student feedback on teaching, minutes of Board of Studies meeting, attendance records, work register containing information on classroom transactions, minutes of class committee meetings, etc. The IQAC constantly monitors the teachings and learning process by student evaluation forms, monitoring of exam results, patient satisfaction feedbacks. The IQAC plans and organizes soft skill development classes and CDE classes for the faculty and students. There is a conscious effort to cover address the spirit behind the key assessment indicators provided by NAAC.
- The IQAC of the institution contributes monitors and evaluates the Teaching & Learning processes by way of conducting periodical meetings. The outcomes of various proposals are recorded for improving the system of the quality of education. It also decides on the measures to be taken to improve and sustain the quality of higher education.
- In the Action Plan for the curricular year is prepared after going through the performance in the professional examinations. IQAC gives some guidelines for the faculty to modify their teaching learning methodology.
- The feedback received from the students also utilised for helping the faculty to know the outcome of their teaching learning methodology and make some modifications to achieve the best.
- Change in regulations and grading norms suggested by School IQACs as per the best practices and benchmarks in various programmes subject to regulations stipulated by statutory authorities have been escalated for approval to academic council through University IQAC. For example for B.Tech programmes, internal evaluation percentage for theory courses was reduced from 60% to 50% as per new UGC guidelines.
- Suggestion that answer scripts of all examinations in the University be retained under safe custody for a period of one year only, excepting those related to any judicial enquiry.
- Working with the school head to implement and document a formal system of student feedback and faculty course evaluation as well as ensure closure of the loop.
- IQAC works in tandem with the team developing and maintaining academic ERP system, AUMS (Amrita University Management System) to promote extensive ICT usage in facilitating teaching-learning process using the AUMS module, Academic Administration system which encompasses course registration, management & evaluation, grading, results and certificate generation across all campuses and programmes with central monitoring at the University headquarters.
- Sharing of best practices for continuous evaluation like Weekly Quiz from IQAC of School of Engineering, Coimbatore to other schools Enforce uniform punishments to be awarded for malpractices committed during the Examinations.
- IQAC has suggested an ICT initiative towards blended learning, virtual classrooms, flip classrooms and MOOCs in addition to our strong and sustained programmes in e-learning, skill development, educational technologies and virtual labs.
- Regular Class committee meetings involving IQAC members, teaching faculty and student representatives to review academic programs, address problems and initiate new approaches to improve quality.
- Review online feedback received from students at the end of the semester.
- Monitor and recommend necessary classroom and laboratory infrastructure improvements and upgrades.

- The IQAC monitors the submission of the course outlines of all the courses to the PGP office. It works with the PGP office to ensure that all the classroom hardware and software are kept working efficiently. It ensures that all the students get a copy of the course outline for every course. It monitors the course feedback to ensure that students feel satisfied with different courses and that their suggestions are given due importance.
- Teaching and learning process of all the paramedical programmes are reviewed annually considering the requirement and expertise of the country with reference of the advancement of medical technology.
- Curricular, co-curricular and extra-curricular activities are initiated based on student feedback.
- IQAC also gets periodically involved in initiating discussions and decisions on procurement of library books, staff professional development programs, and procurement of common resources & lab materials.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	182
UGC – Faculty Improvement Programme	16
HRD programmes	279
Orientation programmes	244
Faculty exchange programme	2
Staff training conducted by the university	250
Staff training conducted by other institutions	108
Summer / Winter schools, Workshops, etc.	400
Others	408

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	1586			12
Technical Staff	2130			1

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

General

- Across the whole university, a new initiative was commenced, constitution of Thrust Area Groups (TAGs) under all departments so that junior faculty members are mentored by seniors to start research activity, and importantly, provides an organized way of monitoring the progress of research, sponsored and otherwise. Monthly TAG meetings were made mandatory. The role of TAG includes the following:
 - Publishing research articles in reputed peer reviewed journals/Conferences
 - Applying for research funding to sponsoring agencies.
 - Conduct regular meetings to discuss on technology and project/product initiatives and solutions
 - Guiding student projects in the corresponding area.
- Regular reviews to encourage the progress of research, constituting committees comprising of external experts, conducting course work and comprehensive viva, encouraging publication and paper presentation.
- The IQAC of the institution encourages the staff members to undertake major and minor research projects and to organize seminars, workshops and conferences, etc.
- The staff and students are informed about the various fellowships available and they are encouraged to apply for the same.
- The IQAC meets regularly to discuss various plans to promote research climate and motivate the faculty for academic advancement.
- IQAC provided strong recommendations to intensify the research activities through the induction of cutting-edge research equipments and leverage research initiatives through national and international level collaborations.
- The IQAC with the support of the Dean / Principal, motivates the teachers and students to publish research papers, actively take part in TAG activities/ Curricular/Co-curricular/Extra curricular activities.
- Monetary incentives have been established for UG and PG students to publish scholastic articles in high quality journals.
- IQAC facilitated conduct of sessions on how to prepare research proposals & published research papers, and administer projects, to orient the staff and students for research.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	19	69	16	46
Outlay in Rs. Lakhs	538.51	17926.90	527.10	18030.21

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	47	60	8	29
Outlay in Rs. Lakhs	26.1	92.4	1.2	2.75

3.4 Details on research publications

	International	National	Others
Peer Review Journals	714	93	2
Non-Peer Review Journals	19	3	0
e-Journals	15	0	0
Conference proceedings	754	58	1

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects			5466.31	4798.01
Minor Projects			6.79	1.5
Interdisciplinary Projects			76.05	8.48
Industry sponsored				
Projects sponsored by the University/ College			228.81	228.81
Students research projects (<i>other than compulsory by the University</i>)			12.42	1.62
Any other(Specify)				
Total				

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

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)

3.10 Revenue generated through consultancy:

NIL

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	14	28	7	14	0
Sponsoring agencies	DST, DIT, MNRE, AICTE, UGC, ISRO, BRNS				

3.12 No. of faculty served as experts, chairpersons or resource persons

134

3.13 No. of collaborations

International

41

National

28

Any other

16

3.14 No. of linkages created during this year

27

3.15 Total budget for research for current year in lakhs :

From Funding agency**

682.97

From Management of University/College

2000.00

Total

2682.97

** Amount is research funding ongoing + research funds sanctioned during the year

3.16 No. of patents received this

Type of Patent		Number
National	Applied	20
	Granted	2
International	Applied	4
	Granted	
Commercialised	Applied	
	Granted	7

year

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
75	40	14	8	13	0	

3.18 No. of faculty from the Institution

177

who are Ph. D. Guides
and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

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

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
National level International level

3.22 No. of students participated in NCC events:

University level State level
National level International level

3.23 No. of Awards won in NSS:

University level State level
National level International level

3.24 No. of Awards won in NCC:

University level State level
National level International level

3.25 No. of Extension activities organized

University forum College forum
NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

School of Arts & Sciences-Amritapuri

I) Amalabharatam cleaning campaign at Sabarimala and Pamba.

II) AmritaSelf –Reliant villages Programme under which villages were made aware of Healthcare , education and other activities to make them self reliant .

School of Biotechnology-Amritapuri

Amrita Sanjeevani, “Bringing to Life”, is the seva organization at Amrita’s Amritapuri campus. Seva is an important part of the Amrita experience, where the focus is on “education for life” in addition to “education for a living.”

Organic Garden

Organic Garden is the one thing we treasure the most in our Campus. The members of Amrita Sanjeevani devote their time in cultivating the garden through the guidance of our mentors and in return, we are gifted with the most unique vegetables that are developed and maintained without the use of any chemicals.

Community Outreach:

Clean up drive at Vallikavu (Kerala) and Sabarimala (Kerala)

Fund raising fair for charity during Diwali

Visit to orphanage – Celebrating Diwali at Paripally (Kerala)

Direct Recycling

An innovative way to produce items from waste thus reusing and reducing the waste. Among several of its objectives is the passion to improve the lives of the most disadvantaged children in Kerala. The association provides financial aid to children from the poorest backgrounds and with the highest social risk.

Activities include:

- Workshop on paper making
- Conducting craft workshops using recycling materials (paper, cloth, plastic)

Awareness campaigns on:

World Water Day – Painting competition

World Car Free Day – Cycle Rally

Earth Day

AYUDH (Amrita Yuva Dharma Dhara), seeks to empower young people to integrate universal values into their daily lives. AYUDH aims to help establish a future of hope, peace and social engagement while maintaining an awareness of spiritual principles.

Bharat Mata Pooja

To create awareness among students about peace and satisfaction, Bharat Mata Pooja was conducted at the Campus in observance of the 68th Independence Day of India on August 15. Riding high on patriotism, a cultural event was organised by the students as a tribute to unsung heroes of India, remembering the patriots who were first hand witnesses to history being made.

Vrischikam Onnu Vriksham Onnu - “1st of Vrischikam, One Tree”

A program of planting as many plants as possible across the state of Kerala to coincide with the first of the Malayalam month of Vrischikam. It was conducted on November 17 2014 as part of the nation-wide forestry program undertaken by GreenFriends.

Vishuthaineettam

Along with the tradition of Vishukkaineettam this year, Amma asked all elders to gift seedlings kept in the Vishukkani to the younger ones so that they will plant it and nurture them. This will be known Vishuthaineettam. Ayudh Amritapuri planted more than 1 lakh plants and distributed it to clapan panchayathu.

Community Outreach:

Helping needy students at Attapadi Village - With the aim of empowering the residents of remote villages throughout India, our beloved AMMA identified 101 villages to be uplifted to level of self-reliance (Amrita SeRVe). AYUDH on May 24, 2015, distributed school bags and umbrellas to school children in a remote village in Attapadi Taluk, (Palakkad District, Kerala).

Awareness campaigns:

Participation in the First International yoga day on June 21st 2014

Camp Together was organized as an icebreaking session for Freshers.

As part of the Ramayana Month Celebrations' Conclusion, A pilgrimage (Parikramanam) to Jadayumangalam(Chadayamangalam) had been organized

October 31st, was celebrated as National Unity Day (Rashtriya Ekta Divas) to commemorate Sardar Vallabhbhai Patel's birth anniversary. As a tribute to this National Hero, Ayudh Amritapuri organized a presentation on the life of Sardar Vallabhbhai Patel.

Inspirational Talks

As it is truly said, that learning and experience makes a man. Inspirational talks are organized for the students, where experts and leaders from diverse fields impart their knowledge to the youth.

The following talks were conducted:

- Spiritual discourse series on Thulasidas Ramayana by Swami Amritageetananda Puri
- ADVAYA 2015 - January 12, 2015

It was decided by the Government of India, to commemorate the birthday of Swami Vivekananda, maker of the modern India as National Youth Day; in order to inspire the youth of country towards the philosophy of Swami Vivekananda and his ideals and to complete the aim of making better future of the country by motivating the youth through the way of life and ideas of the Swami Vivekananda. A talk by Sri.HarikumarIlaidam, Bharatheya Vicharakendram, was organized on this day.

Ayurveda-Amritapuri

Free Medical Camps and Health awareness classes and Health Camps and Survey by various departments like Prasoothy, Salakya, etc.

School of Engineering-Bangalore

- Amalabharatham Cleaning Campaign
- Joy of Giving, Servicing old age home & Orphanages

School of Engineering-Coimbatore

- Conducted rural camps at Kothagiri and Coonoor, helped Walayar Irula tribal community for making project proposal get funding from the Government of Kerala for community welfare.
- Supported Amma's 101 tribal village adopting programme 'Live in Labs', by performing a contour survey of Modakkara village, Wayanad District. A crew of two faculty members and four post graduate students carried out the work on three different hills in an eight day camp, which was preceded by one day preliminary camp along with Prof. Walter Grestle of University of New Mexico.
- A group of 85 students visited to two village schools in Chinaiyagoundanputhur & Iyyampathy on 16th November, 2014 and conducted competitions for the children and distributed sweets, lunch and gifts of dresses, books and instructional materials.
- Conducted special courses on Introductory Electronics for the 12th standard students from the Govt. Schools of Pichanur and Madukkarai on October 16, 2014 and November 25, 2014

School of Business-Coimbatore

- PRAGATI, the inter B-School Fest was organized with participation from 16 schools.
- Many student volunteers work for the development of the underprivileged sections of the neighbouring Ettimadai village under the guidance of two of our faculty members.

College of Nursing-Kochi

- Community health activities for the tribal population at Wayanad – Health screening for communicable and non-communicable diseases, screening of under-five children, participation in the health camp.
- Conducted various clinics – under five, elderly, family welfare at Nayarambalam Panchayath, Ernakulam.
- School health programmes at various schools at Nayarambalm Panchayath, Ernakulam
- Participated in the health camps conducted by AIMS.
- Students participated in walkathon at Ernakulam as a part of Glaucoma day organised by the ophthalmology department.

School of Arts & Sciences-Mysuru

- A team of over 150 student volunteers of AYUDH participated in cleaning the surrounding area as part of Swacch Bharath Andolan.
- Around 500 students and staff actively volunteered to serve the gathering during Chancellors visit to the campus.

School of Education-MYSURU

- Amala Bharatham Campaign

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 (acres)	1000			
Class rooms	196			
Laboratories	125			
Seminar Halls	39			
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	127	94		
Value of the equipment purchased during the year (Rs. in Lakhs)	443	1077.8		
Others				

Facilities	Existing	Newly created	Source of Fund	Total
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	4895.59	2951.30	From Tuition	5902.60

			Fee Collection	
Value of the equipment purchased during the year (Rs. in Lakhs)	21316.51	2256.48	From Tuition Fee Collection	5207.78

4.2 Computerization of administration and library

- Bar-coding is implemented for circulation of books.
- Auto e-mail alert is introduced through AUMS software to know the circulation status of the books for every member.
- LIBSYS software for library management
- Bar-coded circulation
- Online reservation
- Email alerts
- Internet access
- Computer terminals increased for Digital Library and OPAC: 100 Nos.
- Network Printing facility
- Wi-Fi connectivity
- Web OPAC

ADMINISTRATION:

Computerization of administration involves the Amrita University Management System (AUMS) with the following features:

- Integrated system that enables easy access to data
- Data recovery across Campuses
- Reports and statistical analysis of student progression
- Security, Roles and Privilege
- Easy management of fee payments
- Complete modelling of the academic workflow

EXAMINATION:

AUMS has been developed exclusively to cater to a credit based system. The system allows flexibility in offering courses to various branches, batches and semesters with credits and staff allocation all possible to be done by department secretaries and users identified for that role. Role based tracking and audit trails offer added security to ensure data integrity. Student attendance, mark records, grade entry, printing of grade sheets, publishing of results in the internet and local intranet, generation of various analysis reports are some of the areas that AUMS strengths lie in. Also, the ease with which system allows for users to get reports has helped the School generate consolidated certificates in just 10 days after final exams result has been published.

LIBRARY:

The library management system uses AUMS to handle basic housekeeping functions of a library. The School Library is an integrated library system. The modules incorporated in AUMS are Acquisition, Cataloguing, Circulation, Serial Control, OPAC (Online Public Access Catalog)

All the administrative activities are fully computerized. All the faculty members are provided computers and email IDs, most of them with internet connections. Laboratory and patient care

We also have a Hospital Management system called HIS.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	172255	454.49	6348	40.9423	178603	495.4323
Reference Books	79922	411.63	3510	39.3905	83432	451.0205
e-Books	4060		1446	43.7615	5506	43.7615
Journals	1204	238.40	708	34.7396	1912	273.1396
e-Journals	26548	136.15	12114	183.8890	38662	320.039
Digital Database	720	387.01	88	127.5156	808	514.5256
CD & Video	13795	9.05	257	0.0014	14052	9.0514
Others (specify)	1363	4.13	6	0.0276	1369	4.1576

Overall, Rs. 238.98 Lakhs spent on books and journals, and Rs. 119.02 Lakhs spent on e-books, e-journals, etc., in 2014-15.

4.4 Technology upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centers	Computer Centers	Office	Departments	Others
Existing	8997	1103	2051	77	84	441	1645	14
Added	365	59	271	1	0	1	11	
Total	9255	1080	2200	136	13	402	1604	14

Overall, Rs. 3253.13 Lakhs spent on creation/upgrading of laboratory equipment.

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

- Giving training to teachers and students to use computers and access internet; frequent upgradation in this field.
- Parents Portal training to all parents of students joined in the academic year 2014-15
- AUMS training for all first year students, both PG and UG
- Two day computer basic training to technical staff (MS office, Autocad and other basic softwares)
- Information and Communication Technology services (ICTS) is an integral part of the School, providing computing resources for all academic, research, and administrative needs.
- Well equipped systems with latest hardware configuration and upgraded versions of software supported by internet facility.
- **Wi-Fi** facility is provided in all our campuses for easy access of Internet to staff and students.
- Computer labs with adequate number of desktop systems, networked with high speed fast Ethernet and wireless LAN enabling **1:1** student-system ratio ensures individual participation and results in practical learning experience.

- Students are permitted to use the lab off their class hours.
- Each faculty member is provided with individual cubicles along with easy and free access to computer and internet facility.
- A-VIEW for online classes like Structural Bioinformatics, Comparative Genomics, Pharmacoinformatics, Computer Aided Drug Design. We also use Skype and WebEx for research meetings.
- All our faculty members and staff have unlimited access to the internet. Students have their own laptops and our computer lab has 49 ethernet ports. Since the School building is Wi-Fi enabled, our students have unlimited access to the internet. The ICT facilities at our School is managed by the University's ICTS department who give us excellent support. We have adopted the AUMS (Amrita University Management System) which is a paperless approach to manage academic related activities like Student registration for courses, attendance, record of marks and grades, academic related resources sharing. All our faculty and staff members have undergone training on how to integrate AUMS in their work. Students are given training on how to use the different library software. There are many courses in the Systems area which gives ample exposure to the students in the area of IT.
- Regular training programs were conducted for all employees in Hospital Information System and other Software. Separate training division under IT department is available.
- Medical school conducted training programs frequently for employees in the following areas.
 1. Hospital Management Information System
 2. Amrita University Management System
 3. Microsoft Office Training
 4. Any other software upon request.
 Developed software for Sepsis patient details for research.
 Software developed for Anaesthesia Case Record.
 Developed mentioned websites
 - www.intd.co.in (NEGLECTED TROPICAL DISEASES)
 - www.ivn.co.in (Indian Virus network)
 - www.adwa.in (Amrita Diabetic Welfare Association)

4.6 Amount spent on maintenance in lakhs :

i) ICT & Equipments	410.02
ii) Campus Infrastructure and facilities	9891.05
iii) Campus Infrastructure and facilities	4391.04
iv) Others	44562.21
Total :	59254.32

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Student representatives on the IQAC to communicate the student requirements and perspectives to IQAC and to disseminate the support services available at the school as well as the new proposed schemes and suggestions among the student community.

- Counselling extra classes for upgradation of academically weak students, students participating in various conferences in India and abroad, provide guidance for presenting papers in seminars and conferences. Health insurance is also offered.
- IQAC provides information about various Student Support Services available at the institution and other levels.
- The IQAC regularly conducts national level seminars
- Amrita Center for International Programmes (ACIP) helps the students to get placed in world wide universities for higher education, internship, projects, etc.
- Feedback from the students to Identify the required area
- Meetings with Administrative staff & faculty members
- Industrial Visits
- Fast track & Contact programmes
- Technical training for placements
- Mock interviews for placement assistance
- Counsellor Ward interaction
- Counselling extra classes for up gradation of academically weak students, students participating in various conferences in India and abroad, provide guidance for presenting papers in seminars and conferences. Health insurance is also offered.
- Opportunities for students to go to foreign universities for exchange programmes
- Flexibility to opt electives across the school/Dept.
- Students can undertake projects in industries / research organizations like ISRO, FACT, NAL etc.
- Minor projects in TBI, IIT's during the vacations
- Placement training by CIR which manages placements, soft skill training and special training for CAT/GMAT/GATE.
- The physical education dept has a modern gymnasium, and organizes regular coaching in games and athletics.
- Initiation of Training programmes for various competitive examinations like GRE, CAT, GATE, and GMAT.
- Initiation of strong Co-curricular engagement of students through the conduct of national-level inter-university techfests and management fests.
- Some fests have been initiated through suggestions from School IQACs.
- Initiation of optional foreign language courses in Japanese, German, Spanish, etc., to improve employability.
- IQAC has pointed out the need to attract more foreign students leveraging the extensive tie-ups and MoUs that AMRITA has with 75 premier universities in USA, Europe, Japan and Australia.
- Regular meetings with Class Counsellors to provide information
- Presence at Class Committee meetings
- Interaction with students to provide guidance for new opportunities e.g. employment, research fellowships, international conferences and workshops
- The IQAC had suggested that every course outline should also contain a section where the instructor mentions his availability for at least one hour every week outside the class. This suggestion has been incorporated from the academic year 2014-15 onwards. Making this mandatory has encouraged greater faculty-student interaction with respect to different courses outside the class.
- As a student support service, a Railway reservation counter has been opened in the campus for going to and fro to home.
- We have a well established IQAC, which monitors the proper functioning of women grievance cell, student mentoring system, student feedback and complaint redressal cell.
- Student mentors other than class coordinators in each class with 10 students under each mentor; Career guidance and student counselling
- Each department in collaboration with Amrita International office offers support to students pursuing internship / projects abroad in reputed universities / organizations and R & D organizations in India by offering fast track courses. The department also provides guidance to such students by allocating an internal guide.

- Each department supports and guides students to participate in national level technical competitions and take up projects that are of social and societal benefits.
- Orientation for first year UG and PG students is conducted at the time of admission. The rules and regulations, curriculum, facilities available, etc., are elaborated.
- Each department conducts workshops for the benefit of increasing research awareness among the UG and PG students.

5.2 Efforts made by the institution for tracking the progression

- Continuous monitoring of the progress of students, counselling, students representation in class committee, course committee etc.
- The institution monitors and ensures the achievements of the learning outcome through analysis of the tests, examination results and the pass percentage
- Faculty counsellors keep a track of the student progression
- Meeting with students & Parents
- Faculty-Advisor for every 60 students and a counsellor for every 20 students to monitor the academic and personnel issues.
- Students having more than 6 arrears have to register for the failed subjects which are being offered before they register subjects of the higher semester subject to a maximum of 28 credits.
- The result analysis is discussed in the academic committee and parents are informed of the arrear subjects.
- Introduction of counselling diary
- Counselling by class advisors and counsellors for students with poor academic record
- Counselling periods increased from 1 to 2 periods
- Discussing the students' progress with their parents
- Coordination with CIR with regards to technical as well as soft skills
- Technical and non technical competitions conducted by AEEE and IEEE students chapter
- Regular interaction with parents
- Strong support for remedial courses
- Continuous assessment is conducted for students for tracking their progression
- International and industrial internship for students.
- In-plant training for 2nd and 3rd year students
- In the Department of Social Work, learning through fieldwork is closely monitored and the reports are corrected and given feedback to improve. Based on the performance in the periodical tests, the feed backs were given to the students by the respective course faculty to improve their academic aspects. A monthly work schedule was prepared for the students regarding their research dissertation to track their progression. The fieldwork manual was used to track the progression of the students in their fieldwork learning.
- Placement cell with dedicated Placement Officer
- Maintaining a register that is updated to reflect recruitment of students to new positions across the country and overseas
- Constant updates through Alumni Association records and information.
- We follow a system of continuous evaluation with a minimum of four evaluation components in every course. There are quizzes, assignments, presentations, projects being continuously evaluated apart from the examinations. This helps us to track student progression continuously.
- Feedback forms are collected from students and parents including international elective trainees.
- The institution takes interest in fast rectification of complaints of the faculty as well as the students. We also make sure that the action taken on the complaints are intimated from time to time.
- Meet regularly with class coordinators and HODs to evaluate progression
- Project Log Book system tracks the Research progress of UG and PG students

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
12644	3410	468	550

(b) No. of students outside the state

1700

(c) No. of international students

33

Men	No	%	Women	No	%
	9147	53.6		7925	46.4

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
15334	132	29	1996	0	17330	15203	149	16	1869	1	17702

Demand ratio 1 : 7.2 **Dropout %** <1%

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

- Special Coaching for NET/JRF Exams
- Soft skill training for career guidance; special coaching for NET/JRF examinations.
- Mock interview sessions handled by alumni, faculty and other external experts
- Training for those appearing for CAT, for a duration of 1.5 years by T.I.M.E.; 5 hours in a week.
- PG Entrance Coaching for internees (Ayurveda)
- Regular Classes for training them to succeed well in GATE, CAT, GMAT, GRE, UPSC, etc.
- The Directorate of Corporate & Industry Relations (CIR) is a unique and dedicated department of “Amrita Vishwa Vidyapeetham”, established to provide expert guidance to students in specific areas beyond their regular academic curriculum and help them fulfil their career ambitions.
- Apart from training in the area of Life Skills, CIR also aids in the preparation and coaching for competitive examinations / entrance tests for higher learning. This is because not all students wish to take up a placement offer immediately and enter the corporate world. Some of them may wish to pursue higher studies, usually in the fields of engineering or management. These courses could be either in India or abroad. Admission to most such programmes requires performing well in an entrance exam.
- CIR conducts extensive Aptitude, Verbal & Communication and Soft Skills courses for students. In addition, CIR arranges training through external agencies for all such exams like GATE, GRE, GMAT, TOEFL, CAT, etc.
- Major competitive exam oriented study material made available in Library reference section.
- The Department of English conducts Coaching classes for Business English Certificate (BEC) conducted by ESOL, Cambridge University.
- The departments encourages the students to appear for GATE, GRE , TOEFL, Tancet etc and most of them conduct GATE coaching class for final year students.

- Interested students are encouraged to form groups and provided area/module/topic specific guidance for competitive exams by respective faculty member.
- Soft skills and area/opportunity specific coaching with mock interviews involving all faculty members in preparation of students for entrance exams e.g. Integrated Ph.D. programs, SRF selection interviews etc.
- GPAT coaching provided to the final year students and online exams are conducted periodically based on previous question papers. This coaching also helps the students to attend any competitive examinations. 12 students qualified in the GPAT exam conducted in the year February 2014.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	<input type="text" value="11"/>	NET/SLET	<input type="text"/>	NET	<input type="text" value="439"/>	<input type="text" value="541"/>	
IAS/IPS etc	<input type="text"/>	State PSC	<input type="text" value="124"/>	UPSC	<input type="text" value="12"/>	Others	<input type="text" value="714"/>

5.6 Details of student counselling and career guidance

- A set of 20 students is assigned to a faculty member to ensure constant individual student monitoring of academic and personal progress.
- The practice of assigning a Faculty Advisor to each class gives an assurance to the students of a ‘one point contact’ for any clarification required.
- Placement cell takes care of providing career guidance to all final year students
 - Each class of 60 or more students have 3 counsellors (one of whom is also the Adviser) such that around 20-25 students have one counsellor to whom they can approach for counselling for academic, personal or psycho-social guidance
 - The faculty are trained in counselling and are periodically given instructions by HOD as to upcoming events, requirements etc.
 - The advisers and counsellors maintain an individual file for each student and keeps constant track of the progress of student.
 - The counsellors are also the point of contact between the department and the students’ parents/guardian. They keep the parents abreast of the events in case of any problems, or concerns.
 - Career guidance programs are arranged by CIR.
- We have a professional student counsellor who counsels students on need basis addressing their academic and personal related problems.
- Batch Coordinators/Class Advisors/Counsellors interact with the students of the respective class.
- Regular counselling of students.
- Counselling status being continuously updated in student counselling diary for each student. This is maintained for the complete course duration of B.Tech. program, in order to have a track of student progress in academic, extracurricular and emotional aspects.
- Display of counselling periods in time table in class rooms
- Counselling periods increased from 1 to 2 periods
- The departments assist the students towards exploring their career options. Orientation sessions are organized for students during their early days at the department highlighting the various opportunities. Equal emphasis is given on ‘research as a career’.
- Whenever an alumnus of repute visits the department, the department organizes a session for the alumni to interact with the current students on various avenues and opportunities for choosing their

career. Through this process students get immensely motivated towards their career. The students are well informed about the opportunities and challenges. This helps the students in choosing their career options.

- Career guidance programs are provided by the CIR. The centre maintains a student record for every student in their final year with details of their performance in quantitative and logical aptitude, verbal communication, group discussions, mock interviews etc. One-on-one interaction, counselling and feedback on performance are provided to each student, increasing their confidence and providing them direction for improvement. The Centre for Corporate and Industrial Relations also conducted student counselling and career guidance session and 3871 students attended.
- Students often seek to clarify their career goals while in the campus. Some of them have career goals that need alignment inputs. These are provided by trainers with industry experience. One-on-one interaction sessions are also provided by asking probing questions, reviewing student records and administering specific tests. If required, training is recommended. Students are encouraged to approach CIR faculty, fix appointments and seek career guidance inputs from them. Support includes career assessment, informational career workshops, individual career opportunity mapping (matching career aspirations, market availability and individual competency), career guidance seminars, industry research, and company research, networking skills, negotiation techniques and guidance on higher education.
- Foreign Language Proficiency
- Many companies, who recruit from Amrita, often send students to other countries for training and projects. They appreciate the fact that CIR goes the extra mile in arranging foreign language training in the campus itself for interested students. CIR offers training in German language. This gives the students a distinct advantage. Likewise, an expert trainer proficient in the Japanese language teaches Japanese to students interested in learning that language. CIR also has access to Alliance Franchise faculty for teaching French. The foreign language experts are handpicked from an array of individuals and institutions. Conducting these courses has been found to be very useful for students joining companies that have international operations.
- In the Dept. of Social Works the following measures are taken to cater to student counselling and career guidance
- Most often it is an open unstructured system of counselling to students on the personal and professional aspects.
- A formal orientation sessions and informal guidance about various specialisations [elective stream] were given to the students.
- Enhanced students' commitment to profession and department in a very generalised but consistent and regular manner.
- Regular consultations to students in joining doctoral programme.
- Significantly improved the starting salary level of passing out students up to Rs. 20,000 p.m.
- Managed internship and job placements of students in national organisations (HAQ, MS Swaminathan Research Foundation, Baba Amte's Organization, Anna Hajare's organization), international organizations (Plan International, regional government-SAARC -Nepal), national commission (national commission for protection of child rights) and corporate sector (AMD capital fund).
- Class counselors are available for regular interactions
- Faculty members frequently provide guidance on best options based on student performance, interest, aptitude and merit.
- Regular updates on school notice boards of new opportunities and announcements
- Frequent updates on school website of new positions, fellowship opportunities/ announcements
- Options to pursue career within School with new research funding for grants and projects
- All the second year MBA students are exposed to 50 hours of Classroom training in Soft Skills to help sharpen the various soft skills like communication, better body language, basic etiquette, making presentations etc. This helps improve our students' readiness for industry jobs. Apart from that, our Corporate and Industrial Relations department helps our students to prepare their CVs, conducts Mock Interviews, and gives them general guidance and counselling to prepare for the placement exercise. Students also receive a lot of mentoring outside the class from the faculty members. For the

last two years Alumni Bootcamps have been conducted where alumni have come and conducted workshops for our graduating students in order to help prepare for the campus placements.

- All the UG students undergone meditation courses (I AM Tech).
- At the time of joining, orientation programmes were conducted with regard to the course, curriculum, teaching and learning process, rules and regulations in the campus etc.
- GPAT coaching provided to the final year students.
- Assignments and special coaching are provided to slow learners.
- Encouraged to perform group projects.
- Career guidance and soft skill training is provided for final year B.Pharm and M.Pharm students.

No. of students benefitted

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
525	2705	2338	

5.8 Details of gender sensitization programmes

- Girl students are given counselling separately. Anti-Ragging committee is coordinated by the advisors, counsellors. Grievance redressal committee to handle gender related issues.
- The Women Development Cell conducts a number of programmes regularly on various issues relating Women empowerment.
- Professional counsellors are invited to conduct programmes for women staff and girls students.
- The cell works under a faculty in charge. It has representation from the staff and students
- The department of Mechanical Engineering nominated student for “SINE” Student Industry Education Programme with focus on ‘Growth Through Diversity’.
- Value education/ cultural education is an integral part of curriculum
- We have a Co-education programme and both male and female students do combined studies and interact freely as a part of different groups for the various group projects and assignments. They also actively participate together in the organizing of different cultural events at the school such as UTSAV (an internal inter-house competition in different sports and cultural and business management events), PRAGATI (A B-School Festival where many B-Schools participate), cultural evenings under the auspices of KALAKRUTI (A forum which has been created for students to showcase their various talents), the Gokulashtami float and many more such celebrations. We do not feel the need for a gender sensitization programme. But our lady students stay in separate girls’ hostels and there are lady wardens to take care of all their needs. Our lady faculty members are also available for them whenever they need it as most of our faculty members live inside the campus. We have a zero tolerance policy towards eve-teasing and ragging. There is a 24 hour camera surveillance of the campus. All these steps taken by us ensure a very pleasant and safe stay for our lady students at the campus.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

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

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	300	150
Financial support from government	295	14.85858
Financial support from other sources	256	18.0545
Number of students who received International/ National recognitions	180	10

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

A few (school/department level) examples are given below.

- Distribution of rice, gram to 20 poor families every month
- Distributed note books, pencil box , school bag to children
- As a part of Pharmacy week celebration, conducted Walkathon
- General hospital counselling
- Palliative care visits
- Home to home counselling
- Street plays on rational drug use

5.13 Major grievances of students (if any) redressed: _____

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

We envision a world endowed with the wealth of knowledge and the strength of discrimination (Viveka).

We envision a system, which is a healthy breeding ground for the sprouting, culturing and dissemination of the whole gamut of knowledge in a wholesome and holistic manner for the well-being of humankind.

We envision a human being empowered with wholesome knowledge, which makes one an enabler and facilitator in the deep search and striving of every human being for that knowledge.

We envision a system where in there is a great interplay and exchange of ideas, thoughts, feelings and actions which develop people empowered with noble character and wholesome values. They go out into the fields of action to build a world of love, harmony, peace and knowledge. They follow the path of “Dharma” and give a clear direction in every thought and human endeavor.

Mission

To provide value-based education and mould the character of the younger generation through a system of wholesome learning, so that their earnest endeavor to achieve progress and prosperity in life is matched by an ardent desire to extend selfless service to society, one complementing the other.

6.2 Does the Institution have a management Information System?

Yes. Amrita University Management System (AUMS) is a comprehensive software system that was developed in-house, and encompasses all aspects of the university’s academic and administrative functioning. A brief discussion of its usage with respect to the above points is given below:

- a. **Administrative procedures including finance:** includes student and staff profiles, fee management, accounting, issue of certificates (bonafide, transfer certificate, grade sheet, degree certificate, etc.), etc.
- b. **Student admission:** a state-of-the-art admissions module enables simultaneous counselling for BTech admissions across multiple campuses (in three different states), and the entire data - from issue of hall tickets, to rank data, and entry data upon admission – is captured in the system, subsequently generating roll numbers that feed into the student registration & evaluation processes.
- c. **Student records:** apart from personal profiles, this includes student registration records, marks & grades, student progression data, progress reports, hostel information, etc.
- d. **Evaluation & Examination procedures:** the entire gamut of activities from registration through results, including attendance and other data are captured and maintained with appropriate access levels to students, faculty, management, administrative personnel, parents, and other stakeholders.

- e. **Research administration:** in the staff profile, there is a provision for faculty members to maintain records of research publications, conferences attended, research grants received, etc.
- f. **Others:** E-learning module – this provides an excellent suite of tools for the teaching-learning process, including the provision to set up question banks, conduct online exams, share teaching materials & resources, host discussion forums, conduct surveys & polls, generate course-related performance-reports, etc.

NOTE: On a pilot basis, the university commenced usage of InPods, a system that facilitates outcome-based learning.

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

6.3.1 Curriculum Development

The University follows a systematic process in the design and development of the curriculum. Syllabus is subjected to periodic updates. Feedback from each course teacher is collected by the respective departments which is consolidated and forwarded to the Board of Studies to be considered at the time of revision. Feedback from employers and alumni gives direction on the required modifications to be made in the syllabus. Subject experts both from academia (Professors from other Universities) and industry who are on the Board of Studies are consulted before revision of syllabus.

The Board of Studies frames the curriculum and the detailed syllabi of each program, after the discussion among its members. The suggestions of the board will be taken up by higher bodies such as Committee for PG Programs and Academic Council.

- Departments introduce new electives in emerging areas on a regular basis as per current and projected needs.
- In some departments the curriculum revision also takes inputs from additional sources like ACM IEEE-CS Curricula, MIT Open Course Ware, Coursera, etc.
- Faculty members are asked to maintain a separate file regarding the changes needs to be made in the next curriculum revision based on their day-today experience with the course content & current issues.
 - Internships : Compulsory for PG Students
 - Courses comprise Lectures/Tutorials/Labs.
 - Seminars/Group Discussions/Presentations are highly encouraged
 - Enrichment courses to support regular academic courses
 - Soft skills training programme for final year UG and PG students
 - Cultural education classes to inculcate social, ethical and moral values
 - Special guidance given to students for qualifying exams like GPAT
 - Experts from pharmaceutical fields are invited to interact with staff and students

Individual departments have customized ways of gathering additional feedback (alumni, employers, etc.).

Some highly innovative enhancements:

1. Live-in-Labs: This is a course that allows students to spend time in villages, identify high priority problems, and develop technological or other solutions for the same, under guidance of department faculty. This is a 3-credit course offered for UG students.
2. Project-based learning: One or two courses in each engineering discipline are conducted in project mode, with some minimal lecture-based learning where needed.
3. In medical school, the following have been included:
 - a. Communication Skills
 - b. Research Methodology
 - c. Medical Education
 - d. Medico-Legal Training
 - e. Breaking of Bad News

6.3.2 Teaching and Learning

The university's teaching, learning and assessment strategies are continually reviewed, ideas for improvement identified, and implemented. Some of these include:

- Outcome-based learning (a pilot implementation of InPods software system was initiated).
- Greater importance for continuous assessment, creatively implemented as per the needs of each course (with appropriate combination of homework assignments, collaborative projects, in-class discussions, presentations, research papers, creation of models and videos, etc.).
- Hiring well qualified staff as available, rather than just as per need (to go well beyond minimum requirement).
- A new comprehensive faculty appraisal procedure implemented that addresses research, teaching, and administrative aspects of duties for faculty – this enabled clear setting of goals and expectations for faculty, and subsequent evaluation for developmental action.
- Significant increase in staff strength over the last four years.
- Fully qualified and competent faculty members with a back ground of academia and Industry.
- Healthy faculty-student ratio (university-level it is 1:11)
- Detailed **course plan** in line with the prescribed syllabus for every theory course and a separate **lab cycle** for lab courses ensures smooth conduct of classes.
- Periodic Class Committee meetings: Chairperson, Faculty Advisor, course teachers and two student representatives of the class meet to ensure transparency in curriculum delivery and evaluation pattern.
- Objective assessment of teachers through student feedback administered in the middle of the semester helps in improved content delivery
- Deployment of AUMS – Amrita University Management System, for academic and administrative purposes
- Use of NCTF (National Capture The Flag) game environment for offensive & defensive skill development
- Faculty development programs are conducted regularly, and faculty members are encouraged to attend FDPs at other eminent institutions as well
- Continuous evaluation system is followed
- Classrooms are equipped with audio-visual aids to enhance the quality of the teaching-learning process

6.3.3 Examination and Evaluation

All the University examinations are conducted under the supervision of the Exam Control Division headed by the Deputy/Assistant Controller of Examinations. The centralized paper evaluation is undertaken in the office of the Exam Control Division itself and the results are declared after the approval of the concerned evaluation committee of the college.

Some of the features include:

- Central valuation
- Question paper vetting by the chief mentor before the exams and auditing after the exam
- Transparent Revaluation - Revaluation will be done in the presence of student, chairman of the department by the same faculty.
- Monitoring the performance of the students by means of Internal Exams, End Semester Exams, and Continuous Evaluation
- Communication of evaluation methods to the students by faculty at the beginning of each semester
- Mini Projects
- Journal/Research Article reading Assignments/Presentations in curriculum
- Declaration of Results and conducting supplementary / arrear examination for failed students
- Timely result publication within 10-12 days from the last day of the end semester examination
- Result through AUMS (Amrita University Management System)

- Systematic evaluation process supported by AUMS allows timely result publication within **10-12 days** from the last day of the end semester examination.
- Effective student support system with constant monitoring and counselling where each Faculty Counsellor mentors and motivates **a group of 30 students**.
- Student progress report sent thrice a semester and access to parent portal for student performance & attendance result in increased rapport with stakeholders.
 - Systematic and methodical conduct of periodical tests and examination.
 - Provision of second chance exam and other remedial courses to support students of different learning capabilities.
- Double Valuation (Ayurveda)
- Revaluation on request
- External reviews of projects:

We follow a continuous evaluation scheme to help the students and the faculty to assess the students' progress in all the courses continuously. All the courses have at least four components to give enough scope for evaluation through projects, group assignments, case analysis and presentations, role plays etc. We have appointed one of our faculty members as an internal Controller of Examination to regulate our examination process better. This includes setting the question papers ready in time, maintain their confidentiality better, conducting the examinations and declaring the results on time, maintaining the standard of the question papers, and to have better discipline during the examinations.

The evaluation of final year project (for both UG and PG students) is carried out in a transparent fashion with the student progress, marks allotted and any issues being documented in the Project Log Book after each periodic review. The Project Log Book is made available to the student immediately after the review so that he/she can go through it and see the marks obtained as well as the comments of the reviewers. Any issues can immediately be taken up with the project review committee.

In the Department of Social Work, a new method of field based student presentation on child protection, women empowerment, water, waste management, etc., was introduced as part of the specialization [elective] courses to evaluate the students' understanding.

6.3.4 Research and Development

In an effort to further enhance the research structure and output, the university initiated the formation of Thurst Area Groups (TAGs). These groups within each department, work together in focused areas, and provide regular reports, which are then reviewed by management for the following reasons:

1. To provide any support (additional infrastructure, facilities, instruments, stipends, etc.)
2. To help in case of any roadblocks and challenges faced by researchers
3. To monitor progress and output

The university has a Research Committee to monitor and address issues related to research. Each school also has a research committee to facilitate, monitor and encourage the research activities. It meets regularly to discuss various plans to promote research and motivate the faculty for academic advancement.

There is a chairman in each campus with overall responsibility for the PhD programme. The Dean of the campus/Dean of the school/Principal of the School/Senior is also involved closely in the overseeing of the research activities. Vice-Chairman and also representatives from each department, eminent scientists/researchers from premier institutes in India and abroad are included as members of the research committee

Teachers are informed about the various fellowships available and they are encouraged to apply for the same.

Faculty members that do not have a doctoral degree are encouraged to register for PhD.

Monitory assistance and incentives provided to faculty members for publication and attending conferences.

- University is directly funding many research projects
- Research publications and guiding research is counted for promotion
- Special Laboratories have been setup for research
- University is funding teachers to participate in conferences /workshops/symposia.
- Support students in participate in International/National competitions.
- Few research centres have been setup attached to school.
- Robust QA team internal and external experts.
- Annual reviews with researchers from other research departments of Amrita University
- Arrange invited talks of experts from reputed International/National institutions.
- Thrust areas for research within the departments are identified and faculty members are grouped to work on the thrust areas, based on their expertise. Students and members of the faculty are encouraged to publish papers in journals and conferences.
- In B.Tech Program, Paper publication in International/National conference/Journal is mandatory for the award of distinction.
- In M.Tech Program, Paper publication in International/National conference/Journal is mandatory for the award of degree.
- Conducted faculty seminars on their research areas
- The Department of Sciences involve student right from their second year of studies in the various funded research projects
- Faculty are encouraged to come out with R&D proposals towards which Head, Reasearch organization is facilitating interaction with various funding agencies like ISRO, NRB, BRNS etc.
- Students are encouraged to take up research based projects associated with the funded projects.
- The Department of Mechanical Engineering has established the Amrita Automotive Research and Technology Centre – supported by Automotive Test Systems, New Delhi and Robert Bosch, Bangalore.
- The Department of Mechanical Engineering has set up of new Tribology Laboratory and Condition Monitoring Laboratory

All the faculty members have a computer and an office to themselves with unlimited access to internet. They have access to most of the major research databases such as Science Direct, Elsevier, EBSCO, PROQUEST, IBID, CAPITALINE etc. We encourage our faculty to publish in good journals and our Performance Management System gives significant weight to such publications. Faculty are encouraged to present their research at different national and international conferences. They are given special casual leave to do so and all their expenses are reimbursed.

Research proposals are reviewed by the Research Advisory Committee/Ethics Committee before implementation.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The university had provided all infrastructures which in turn provide a conducive physical ambience for the faculty in terms of adequate library, research laboratories, ICT, computing facilities and allied services. The faculty can access on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research through internet and intranet facilities. Teachers have access to internet, can download teaching materials and resources and take copies through the reprographic centre, free of cost. The university provides the basic necessities for research also in terms of lab facilities, instruments and open access library facilities which provides good atmosphere for effective teaching and research.

- Library is fully automated with Amrita University Management System (AUMS)
- The E-Learning Centre in the library provides access to the Vidya Digital Knowledge Archive.

- Classrooms, Seminar Halls and Conference Rooms are equipped with Computers and Video Projectors / LED Panels.
- Round the clock internet connectivity with 20 mbps (leased line) speed both for staff and students
- Wi-Fi connectivity to the staff members & students
- Audio Recording Studio, Visual Effects Studio
- Effluent treatments plant
- Uninterrupted power supply
- 1000 acres of land across the university's five campuses
- Over 9 million square feet of built up area across the university's five campuses
- Subscription to research databases (Science Direct, Scopus, Springer, jGate, JSTOR, ASCE, Access-Engineering) and plagiarism detection software (TurnItIn)
- Sophisticated software for design, simulation, modelling, computing, etc.
- The health sciences campus in Kochi has acquired many state of the art equipments and commenced new laboratory investigations and specialty clinics.

6.3.6 Human Resource Management

- The university has a Director of Human Resources, with separate HR offices within each campus.
- Social media is being used to attract the potential and huge base of prospective candidates, given the great success and popularity of social media like face book etc. Occasionally, a few students who were unable to continue the course and were about to discontinue, were provided part time jobs and also concession in the fees so as to motivate them to pursue their education. This has resulted in reducing the numbers of drops out. Staff members who reside in staff quarters are also involved in the student monitoring mechanism. This has resulted in more friendliness in student-faculty relationship.
- The institution has sincere, dedicated and committed faculty and visionary management.
- The college has an adequate number of qualified and competent teachers to handle the courses.
- The faculty members have access to the computer and internet facility that are available in the departments.
- Workshops and training programmes are arranged for the faculty to enrich their knowledge in handling the computers effectively
- Encouragement and support are provided to faculty members for participating and organizing of faculty development programmes.

6.3.7 Faculty and Staff recruitment

- The Strategic HR planning Process includes assessing the current HR capacity, Forecasting HR requirements, Gap analysis, and Developing HR strategies to support organizational strategies. The knowledge, skills and abilities of staff need is identified using skills inventory for each employee for the current as well as beyond the skills needed for the particular position. An employee's performance assessment form is reviewed to determine if the person is ready and willing to take on more responsibility and to look at the employee's current development plans. HR requirements are forecasted based on the ongoing and futuristic project the lab is pursuing and will be in near future. Forecasts are mainly analysed based on how many staff will be required to achieve the deliverables, what jobs will need to be filled and what skill sets will people need. The gap between the future and the current position is analysed and HR strategies for meeting the organization's needs in the future is determined.
- On the basis of the availability of faculty requirement for new programmes new faculties in the emerging areas of study were selected and appointed in the university. Based on the educational qualification, previous experience and personal interview short listed candidates are selected.
- The university gives financial help to the existing faculty in attending various training programmes and national as well as International programmes/Conferences Symposia's/ Seminars/FDPs

organized in the emerging fields of their respective subjects and thus makes the faculty apt for reaching such programmes. Moreover study leave is provided for carrying out higher studies.

- The staff requirement is assessed on the basis of the students' strength, vacancies arising due to retirement and as per the workload norms prescribed by UGC
- The qualifications for teachers of various courses are prescribed by the UGC
- Faculty and staff are recruited as per the recommendations of the selection committee/board where representative of the management is also ensured.
- Recruitment based on requirement especially for well qualified individuals with significant preference for those with already secured funded research projects.
- New recruits encouraged to provide exposure of respective areas of expertise to students to gain advantage
- Faculty and research staff also recruited through School being a host institute for women with break in career and applying for multiple schemes e.g. BioCARE, WOS etc.

6.3.8 Industry Interaction / Collaboration

The Corporate Relations wing of CIR focuses on achieving the following functions:

- To build and maintain excellent rapport with the top management of various organizations and industries and forge collaborative industry-academia alliances.
- Initiating Memoranda of Understanding with major companies, research agencies and institutions to fetch funded projects and bring about improvement in infrastructure and teaching methodologies to enhance exposure of students and faculty to industry practices and developments in technology.
- Facilitating visits by senior industry leaders for interaction with faculty and students.
- Securing sponsorships from industry for technical events like conferences, seminars, symposia, workshops and student contests through strategic relationships.
- Seeking the help of companies to spare working products / prototypes for academic demonstration purposes.
- Facilitating in-plant training, industry visits, summer and final semester internship for students across all disciplines and campuses.
- Soliciting support from highly reputed companies each year for the Corporate Action Plan with respect to engineering, management, biotechnology and other disciplines.
- CIR has signed several win-win Memoranda of Understanding (MoUs) with the industry, leading to mutual collaboration of Amrita and various companies.
- The interface with the industry is maintained by the Corporate and Industrial Relations (CIR) department for all the schools in the university. But we do have a lot of industry interaction apart from the CIR. All our students do a ten week Summer Internship Project at different organizations. Our faculty members interact with industry as consultants, trainers etc. Many industry experts come to us as Colloquium speakers where they address our students, faculty and staff members as a part of the Colloquium guest lecture series. Many of our alumni from the industry visit us from time to time and give us their inputs. Many of them also contribute in the Alumni Boot Camps that are held once every year to help our graduating batch prepare for their placements. Some of our faculty members also take feedback for their course outlines from industry experts. Experts from the industry are also valuable members of our Board of Studies and thus contribute immensely to the administration of our School.

School of Biotechnology-Amritapuri

For M.Sc Students to do their project in premier institutions arrangements were made at the following industries - Biocon, Lupin, Wipro, THSTI, CCAMP, IIT Mumbai, Bugworks

School of Business-Amritapuri

Colloquiums attended by students where the speakers are national and international leaders from various industries or corporations. The focuses of these colloquiums are the "soft" aspects of management particularly ethical perspectives and societal concerns.

School of Business -Bangalore

All our students do a ten week Summer Internship Project at different organizations. Many industry experts come to us as Colloquium speakers where they address our students, faculty and staff members as a part of the Colloquium guest lecture series. Many of our alumni from the industry visit us from time to time and give us their inputs.

School of Engineering-Coimbatore

Amrita Automotive Research and Technology Centre (AARTC), a Rs. 15 crore facility, the first of a kind in a university in India, was inaugurated on 28th Jan, 2015. With an area of 20,000 sq ft, it houses state of art facilities for engine research which includes transient dynamometer and nano particulate counter, instrumentation for NVH analysis, and vehicle handling & simulation. Three technical seminars on road testing of vehicles, power plants including Electric and Hybrid Vehicles, and Vehicle Simulation including Hardware in Loop were conducted as part of the inaugural event.

Establishment of Automotive Electronics Lab MOU signed with Robert Bosch, Bangalore for Rs 7 Lakhs.

Twenty two engines worth Rs. 16 lakhs are donated by Briggs & Stratton Corporation for training the students.

Initiated MoU with the Tamil Nadu Agricultural University, for exploring research in the area of Agricultural Electronics.

Centre for Corporate and Industrial Relations has signed 30 MoU and 7 NDA for the Industry collaboration.

IMS Learning Resource Pvt. Ltd., Kriatec Services (P) Ltd., TIME, Microsoft, ATMEL, ATS, Robert Bosch, Aspiring Minds, CTS, CISCO, Mango Technologies, Info Edge, HCL, Shiksha.com, Mingle box, TCY online.com, Inzane Labs Pvt Ltd., TCS, Infosys, Free Scale semiconductor, Sharp, Cranes Software, National Aerospace Laboratories, Easy Design Systems, ICT Academy, Honeywell, Score Board, TCS Research Engagement, KPIT, are MoU's signed with various companies.

GE Oil and Gas, L&T, Roots, Sharp, Premisys, Titan, Jayem Automobiles, Tech Mahindra have signed Non-Disclosure Agreement with Amrita.

School of Business-Coimbatore

Many of our faculty members take inputs from industry experts while designing their course outlines. Many middle to senior level executives are a part of our PhD program as PhD scholars. Teaching and engaging with them enriches our faculty members. There are dozens of colloquium series talks given by industry experts every year at our school. Many industry experts offer elective courses as visiting faculty.

School of Business -Kochi

Thirteen colloquia were organized to give the students an exposure to the actual industrial scenario; an alumni meet was organized with the idea of giving the students a platform to discuss the challenges in the real corporate world and to provide them with an opportunity for networking.

School of Arts & Sciences-Kochi

- Micro, Small and Medium Enterprises (MSME) Development Institute (*Under the Ministry of Industries, Govt. of India*) – Business Skill Development Programme (BSDP)
- BITS PILANI (WILP Programme)
- CUMI (Carborandum Universal Ltd.)
- Computer Society of India

School of Arts & Sciences -Mysuru

Membership to professional bodies – Confederation of Indian Industry (CII) and Computer Society of India (CSI)

Technical talks by industry experts are arranged by the placement cell for the benefit of students

6.3.9 Admission of Students

To ensure publicity and transparency in the admission process, a separate admissions department exists, and they advertise in local & national dailies, and in our website (www.amrita.edu).

Arts & Sciences

- ❖ Advertisements in Matruvani, leading newspapers and in Web Site.
- ❖ Receiving Applications and Data Entry
- ❖ Prepare Merit list based on Marks in Qualifying Examinations (for U.G. Programme)
- ❖ Prepare Merit list based on Marks in Qualifying Examinations and Aptitude Interview for P.G.
- ❖ Call candidates for Counselling and Admission
- ❖ For M.C.A. Admissions follow the common Amrita Entrance Test, Interview Process etc.
- ❖ Inaugural Induction session (Common)

Ayurveda

- Advertisement
- Written Entrance Exam
- Counselling

Engineering

Admission of B.Tech. students is based on eligibility criterion and rank in the All India Entrance Exam conducted by the University. To maintain quality of students, an aggregate of 60% is prescribed as minimum score in Maths, Physics and Chemistry in Higher Secondary Exam. Additionally, the high ranks in the entrance exam assure quality of the students admitted in B.Tech. programmes. Admission is done through counselling in order to admit students based on their aptitude.

Biotechnology

National level entrance exam followed by stringent interview process for PG programs
High demand for UG programs based on class XII scores.

Many improvements have been made in the admissions process in the last few years. For example, now our application forms can be downloaded from our website and the entire admission process related documentation has been computerized. To ensure that our admission process gets wide publicity we place advertisements in major national and regional newspapers. The admission details are also updated on the University and School website. The school has a tie up with online service providers such as Shiksha.com, MBA Universe, Pagalguy.com, MingleBox.com etc., to promote the school online and to provide the details about the School and the admission process. Facilities are provided to students to apply online through Shiksha.com. We take students only with a good CAT/XAT/GRE/GMAT score to ensure that the quality of our students admitted to the school is good.

Health Sciences: Through All India Entrance conducted by the Amrita Vishwa Vidyapeetham University for MBBS/MD/MS/DM/M.Ch./PG Dip and through written test or interview for all other programmes.

Teaching	
Non teaching	

6.4 Welfare schemes for

Students	
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Medical facilities are easily available to the staff of each school. Suitable arrangements are made to take the students to the hospital whenever advanced medical assistance becomes necessary.

Teaching: Subsidized food, accommodation and health care benefits, Staff quarters, Transportation, maternity leave, sabbatical leave.

Non teaching: Subsidized food, accommodation and health care benefits, Staff quarters, Transportation, maternity leave, sabbatical leave, orientation program for newly joined faculty, Teaching skill enhancement programs during weekly faculty meetings, Industrial visits, cash Incentive for Publications – based on Journal Impact factor, Sabbatical leave for Thesis/book writing, Reduction of workload for faculty involved in research projects

Students: Health care benefits, Motivation and support to attend conferences, Industrial visits, Job oriented training programs, Presentation skill (seminars) enhancement programs, Support for International travel to attend conference, Group Medical Insurance

Non teaching

- Training & Skill Development
- Motivation for acquiring higher qualification
- Multi tasking capability enhancement initiative by providing exposure in diverse technological domains, Industrial visits
- CEN provided training in Aquophonics, a new field of research

6.5 Total corpus fund generated

Rs. (In Lakhs) 26,803.27

6.6 Whether annual financial audit has been done

Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NAAC	Yes	IQAC
Administrative	Yes	NAAC	Yes	IQAC

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

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

The IQAC constantly endeavours to collect feedback from various sources on exam policies, procedures, and student performance, and based on that various meetings are arranged (department level, UG Programs Committee, PG Programs Committee, Academic Council, etc.) to discuss and make improvements. This has led to numerous reforms including changes in the grade point system (letter grades and points), requirement for award of distinction, requirements on publishing journal & conference papers, administration and evaluation of curricular projects, weights associated with evaluation components of a subject, components of continuous assessment in a course, structure of a question paper, etc.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

NOT APPLICABLE

6.11 Activities and support from the Alumni Association

The Alumni Association contributes various services to the institution in general and to the students opting for higher studies and getting employment in particular.

Involvement of Alumni

- Involvement in curriculum development
- Conducted seminars for the students
- Conducting interactive sessions for students and providing opportunities for students in worldwide universities
- Support for projects/ SAE activities
- Feedback for the Alumni is being continuously received for academic development and career opportunities for students
- Contributing books to the department library.
- In the department of social work a social media group is created by the alumni members and through that they shared the field experiences and career opportunities. Using the facility, the current students shared the department level activities along the alumni members.
- Information about placement/ job openings across the country
- Recommendations for curriculum modifications based on industry requirement
- Visits from Alumni to provide guidance to graduating students
- Arranging industrial visits/ educational trips
- Invited talks are arranged
- Internships for students
- Industrial visits
- Alumni entrepreneurs motivate students

School of Management

Our alumni have enthusiastically participated in the alumni boot camps being organized for the last three years to help our students prepare better for the placements. They tutor our students in various skills such as preparing an attractive CV, facing group discussion, interviews, etc., the qualities that industry looks for in a fresh MBA, some important concepts that are essential for different functional areas etc. Our alumni also participate in the admission process by helping us organize the admissions interviews at

different locations. Some alumni who have become entrepreneurs have started to give summer placement projects as well as recruit our graduating students.

School of Medicine

Annual Alumni meetings were conducted. One international alumni association is formed at USA where more than 25 members are available. The number of international students/elective trainees joining the institution is increasing every year due to the active participation of the alumni association.

Dentistry:

We have a strong alumni association. The Alumni members take part an active role in the activities of the college like Amritasmitham and dental camps.

6.12 Activities and support from the Parent – Teacher Association

There is constant interaction between counsellors and parents which helps to provide timely support and encouragement to students in times of need. The faculty coordinators and other faculty members are often in touch with the parents. Additionally, when there is a disciplinary problem or if there is poor performance in the examinations, the parents are contacted over the phone and counselling is held with parents. The Amrita Parent Portal at the University Web Site enables the parents to assess the progress of their ward:

- Parents can contact the faculty any time
- Interactions between the parents and the teachers regarding the support & progression of their respective wards in academic & personal aspects.
- Parents who are working in core sector support the co-curricular activities through guest lectures and advise the department on matters pertaining to curriculum and career opportunities.

Health Science Campus:

We have an active parent teacher association. Parents share their views to improve the hostel facilities and various academic activities. Annual Parents meetings are conducted after declaration of results of the first year university examination. Parents can meet the Principal and the Head the Departments to discuss the performance of the student and measures to improve the results.

6.13 Development programmes for support staff

- Staff Development programmes (lectures/workshops/training programmes) are conducted regularly by the HR department or by individual departments. The training includes:
 - Computer training
 - Internet
 - Audio-visual aids
 - Computer aided packages
 - New laboratory practices
 - Spirituality, yoga, and meditation
 - Fire and safety
 - Office etiquette
 - AUMS
- Additionally, non teaching staff members have been encouraged to continue for higher education (there are instances of staff moving on to MTech, MBA & even PhD programmes) or for specialized programs like Agripreneurship; some were encouraged to attend Technical fairs like ELEKTROTEC 2015, INTEC 2015 to enhance industry exposure

- Development programmes, workshops, conferences, symposia etc., are conducted for knowledge update and skill enhancement
- Some of the courses offered to students are also opened out to non-teaching staff
- Live demos are conducted by the industry representatives to make staff aware about the products supplied to the laboratory.

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

School of Arts & Sciences-Amritapuri

Amrita itself has taken stringent measures for the conservation of nature and natural resources. Inspired by our Chancellor AMMA's vision, we practice the same in our University. The measures are as follows:

- Waste water treatment plants are there and water treated is used for watering plants
- Switching over to solar power
- Water and Energy auditing
- Planting trees in the campus
- Promotion of vegetable garden in the campus with the help of students, faculty and ashram residents
- Establishment of bottle gardens
- Separate bins are kept in the campus for segregating waste
- Solid waste collection, segregation and management of solid wastes
- Preparation of value-added products from waste materials
- Distribution of Vegetable and tree saplings to students, faculty and nearby local people in the area there by promoting organic farming

School of Biotechnology-Amritapuri

Energy conservation

- Regular Awareness campaigns
- Planned power shutdowns in hostels during periods of low occupancy.
- Phasing out of incandescent lamps and partial phasing out tube-lights in favour of CFLs.
- Minimizing of air conditioner use through management controls

Plantation

- Large scale tree plantations within campus and in neighbouring village

Hazardous waste management

- The only hazardous waste that we generate is, from the chemicals that are used during the regular lab experiments in the UG studies. These chemicals are collected in separate containers and discharged at the engineered land sites or collected for appropriate disposal by authorised agency, IMAGE (Indian Medical Association Goes Eco-friendly),Trivandrum, Kerala

School of Business-Amritapuri

- Actively participated in Amala Bharatam programmes

School of Ayurveda-Amritapuri

- Clean up campus (movement) & plantation

School of Engineering-Bangalore

- Trees are planted, Rain water harvested, STP Water has been used for flushing and gardening.

School of Engineering -Coimbatore

- Organised solid waste management with dedicated department and staff to collect and sort solid waste, converting biodegradable waste into compost, selling/reusing non-biodegradable wastes

- Used water from the whole campus is treated and used for watering gardens, fruit orchards and in flush tanks with the help of well connect network of closed drainage system and world class sewage treatment plants.
- Use of compost, cow dung and de-oiled cakes of oil seeds and crushed oil seeds for garden and fruit orchards.

School of Medicine-Kochi

- Received the Kerala State Pollution Control Award for substantial and sustained efforts in pollution control and for initiatives in environment protection in 2014. ;
- Student's initiative – Green Friends Movement;

College of Nursing-Kochi

- Planting of saplings
- Campus cleaning by students
- Participation in Amalabharatham cleaning drive at Sabarimalai
- Observes World Environment Day
- Participation in Swach Bharath campaign at Ernakulam District

School of Pharmacy-Kochi

- Environment science is a part of the curriculum.
- Once a month cleaning is done by staff and students to keep the premises clean.

School of Dentistry- Kochi

- The institution has a central waste management system which is of international quality.
- Our campus is an eco- friendly campus with lots of trees. Every year new plants are planted in and around the campus.
- We have facilities for water filtration, conservation of rain water etc

School of Business-Kochi

- We have a water filtration unit as our bore well water is potable, a waste water treatment plant, incinerator, sorting station for solid waste for segregating reusable and disposable materials in the AIMS campus where we are located.

School of Arts & Sciences-Kochi

- Eco-friendly campus
- Energy Conservation
- Waste Management
- Use of renewable energy
- “SEED” Programme by Mathrubhumi
- Vegetable Cultivation

School of Arts & Sciences -Mysuru

- Installation of 5 street lights of 15 watts within the campus and Solar water heaters of the capacity of 7000 lts cater to the needs of the hostellers
- Rain Water Harvesting Project
- Employment of Effective Microorganisms System (EM system) for conversion of food waste into manure.

School of Education-Mysuru

- Greenery across the Campus

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Department level seminars develop confidence of students in presenting papers in conferences. Systematic monitoring of academics
- Introduction of OMR system in admission (Optical Mark Recognition)
- Attendance monitoring: Information to the parents in case of habitual absences and / or students with continuous absence of more than 5 days.
- Monetary incentive for journal publication of research papers in leading journals
- Focus on project/case/problem based and experiential learning
- Introduced another multi-disciplinary project ‘mysangham’ - A vocational educational portal
- Inclusion of frontier areas such as Cyber Physical systems
- Arranged a 2 week rural internship programme as a part of 101-Village project taken up by Mata Amritanandamayi Math during vacations.
- Launched a project called Serve an Hour as part of which children of nearby 100 schools were given lessons on environmental protection, drug abuse, misuse of technologies and ethics and values.
- Amrita Sanjeevani and green campus initiatives forums arranges number of programmes on societal issues like Sabarimala cleanup drive, Organic Gardening, Street plays.
- All the Students are encouraged & guided to do the Hardware Projects in the college & they are also motivated to present in the Conference. The registration and travel are supported by the management

Some department level initiatives are given below:

Department of ECE

The evaluation of final year project (for both UG and PG students) is carried out in a transparent fashion with the student progress, marks allotted and any issues being documented in the Project Log Book after each periodic review. The Project Log Book is made available to the student immediately after the review so that he/she can go through it and see the marks obtained as well as the comments of the reviewers. Any issues can immediately be taken up with the project review committee.

Department of EEE

Planned and implemented faculty training program to enhance their practical know how and thus improve their project guiding capabilities during all working Saturdays.

Department of Sciences

Seed money given to young staff to initiate research, Faculty encouraged to apply for funded projects

Department of Communication

- Dedicated news room for the purpose of current affairs programme and television news production
- High Definition support Studio System for the purpose of students training
- Campus Beats – Students practice journal of Department of Communication
- Weekly Reporting, Hands on practical training with the industry and regular interaction with media experts

Department of Mechanical Engineering

- In B.Tech Program, Paper publication in International/National conference/Journal is mandatory for the award of distinction.

- In M.Tech Program, Paper publication in International/National conference/Journal is mandatory for the award of degree.

Department of Chemical Engineering & Materials Science

- Centre of Excellence in Advanced Materials and Green Technology has been established with the participation and support of multi-faculty from multi-disciplines
- All faculty from the department are directly or indirectly involved in the research activities of the Centre

Department of Social Work

- Moving away from the focus on clinical approach to community approach
- Addressing the issue of climate change and incorporating the same in the traditional community development specialization

Department of CSE

Innovation	Outcome
<u>State-of-the-Art Technologies & Innovations</u> <ul style="list-style-type: none"> • Identify students with potential in coding/designing and development of software who are waiting to exhibit their technical talents. • Encouraged them to participate in national and international projects contests. 	<ul style="list-style-type: none"> • Google Product Prodigy (75 participated) • <i>GETVU (\$25,000 award money + internship at SFO, US)</i>
<u>Contribution to Computing Community</u> <ul style="list-style-type: none"> • Created an awareness on open source by conduct of workshop/ training to students • Motivated them to solve open issues/bugs in open source tools • Develop tools using open source platforms for the computing community 	<ul style="list-style-type: none"> • Google Summer of Code (5 students) • GlitterGallery tool for Graphics design – Saroop Banskota • Fire Fox - Mozilla Developer (5 students) • <u>Sarup Banskota</u> • GardenCity Ruby Conf 2014, introduction to GlitterGallery • Mysore Ruby meetup 2014, introduction to the Grit ruby library • FOSSASIA 2014, Getting started with FOSS techniques • FOSSASIA 2014, Bringing GlitterGallery into Fedora • Libre Graphics Meeting 2014, Taking the designer's office online • EuroPython, Berlin
<u>Exploring Research</u> <ul style="list-style-type: none"> • Identified students who have interest/potential in research • Associated them with research labs of the department • Co-work with researchers/ JRFs/ PG research scholars • Summer & Winter in-house internship projects 	<ul style="list-style-type: none"> • Research Publications . • Presented work/papers in • AdhocNow-2014, Spain • Asian Summer School, Japan • Augmented-Reality World Expo 2014 @ Santa Clara, California

Biotechnology

- Active involvement of faculty in mandatory research projects for final semester B.Sc. Biotechnology and Microbiology programs. 18 separate group projects yielded high quality data with several publications being submitted and one international publication already published
- Focused effort to support students (Final semester, MSc. Biotech, Microbio, Bioinfo) to secure final semester 6 month project positions at premier research institutes and pharmaceutical/ biotechnology companies (e.g. TIFR, NCBS, IISc. , CCAMP, IGIB; Biocon, Piramal Life Sciences, Lupin)
- Multidisciplinary combined effort by faculty to be selected for Gates Foundation/DBT/BIRAC Grand Challenge Sanitation Innovation Award Proof of Concept Project.

Assurance of learning goals were measured for Ethical Reasoning and Environmental Awareness on a pilot basis this year. This new process has compelled the faculty members to focus on the specific learning goals that their courses will impart to the students. They are also required to mention in their course outline which learning goal/s is/are relevant to their course. Every course would have to cater to at least one of the Learning goals to stay relevant in the curriculum.

School of Medicine

The Amrita clinical skill Simulation Center started in 2013, first in India, caters to all the clinical departments with in-house & exported mannequins, and is a major innovation introduced by the School. Simulation based medical education is an Innovative, Noninvasive Medical-Surgical Technology and Education; various clinical procedures –skills- are practiced on artificial human body parts made of silicon rubber & PVC.

Pharmacy

- Clinical clerkship in M.Pharm Pharmacy Practice (10 credits)
- Hospital Pharmacy Posting for B.Pharm and Pharm D

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Amrita School of Arts & Sciences - Amritapuri

Conducted FDP and invited talks. Promote student involvement in extra curriculum activities.

Amrita School of Biotechnology – Amritapuri

Plan of Action	Achievements
Continue to enhance academic programs with the inclusion of updated cutting edge areas.	With the induction of four new elective courses in Advanced Biochemistry, Cancer Biology, Glycobiology and Phage Biology, students have been given opportunity to enhance their knowledge in the respective areas of biology.
Strengthen interdisciplinary, multifaceted research programs.	With funding from private and government agencies, the program on sanitation biotechnology could be effectively streamlined.
Increase collaboration with leading Institutes for enhancing academic programs/research capabilities.	In addition to strengthening the existing collaborations, the faculty members of the School were successful in establishing collaborations with world's leading universities such as University of Cambridge and University of Oxford, UK.
Joint academic and research programs with sister institutes.	1. In a unique effort of its kind, ASBT in collaboration with its sister institutes including Amrita Center for

	<p>Nanosciences and Molecular Medicine was instrumental to establish for Integrated Medicine and Research.</p> <p>2. To provide better insight into analytical chemistry, biochemistry, photochemistry and Natural Products lead discovery, few faculty members at ASBT offer a program on phytochemistry related analytical techniques to the students of Amrita School of Ayurveda.</p>
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Amrita School of Ayurveda - Amritapuri

- Application invited for the post of research director
- Faculty were instructed to prepare projects for discussions

Amrita School of Business - Bangalore

Infrastructure: New Space given for ASB staff and faculty at 6th floor

Amrita School of Business – Coimbatore

A Masters’ Thesis component was introduced as a part of the curriculum as a result from the academic year 2014-15 onwards. Now, every MBA student in his/her second year has to choose a research topic and do a Masters’ Thesis under the guidance of a faculty guide. For this year, it was required that an academic paper would need to be produced out of the thesis work which would need to be submitted to a reputed conference or journal for publication.

A new course called Business Research Methods was introduced as a part of the syllabus in the First year of the MBA program to provide inputs to students in order to enable them.

Amrita School of Pharmacy - Kochi

1. According to the plan of action, it was decided to revise and update B.Pharm syllabus with grade system and to implement from academic year 2015 onwards.
2. Increasing the funded projects. There is an increase in the Students funded projects.

Amrita School of Dentistry - Kochi

- 1) Starting of postgraduate units in three departments.
- 2) Research projects number is increased.

Amrita School of Business – Kochi

Plan of Action	Achievements
To improve infrastructure within the campus.	Work in progress
To enhance the research output of the university, students would be encouraged to carry out research projects that lead to publications.	Achieved
Selection of the PlaceComm to be made interview-based to increase the seriousness of placement efforts.	Achieved
To help the students to choose electives based on industry requirements and placement potential .	Achieved
To increase the number of colloquia and extension activities of the department	Achieved

Amrita School of Arts & Sciences - Kochi

The plan of action decided upon at the beginning of the year in the IQAC meetings has created a positive impact on the teaching learning process of higher education

Amrita School of Arts & Sciences - Mysore

- Incorporation of Yoga classes on a regular basis into the timetable.
- Initiation of the process of collect feedback for curricular revision from stakeholders – students, alumni, industry experts and course teachers
- Extending placement training and assistance to all UG students
- To conduct sponsored National conference
- To initiate more workshops in emerging areas
- To conduct quality improvement programmes for non teaching staff
- To conduct FDPs on topics of general interest focusing on overall personality development
- To increase the number of surveillance cameras in the campus
- To render all classrooms ICT enabled
- To enhance infrastructural ambience needed for campus recruitment drive

Amrita School of Education - Mysore

Rendering Placement Services:

- Training Students – Mock Interview, Communicative Skill
- Conduction of Campus Interview, approaching different Schools.

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

Innovative practices are presented as examples of the university's continuous efforts towards quality improvement in applied research, teaching, and administrative aspects.

1. Peer Evaluation in Amrita School of Arts & Sciences, Amritapuri

We conduct peer evaluation of the lecture classes of all faculty members twice in a semester. The lecture of each faculty member is evaluated by two other faculty members of the department. All the members of the department are involved in the process.

Objective of the Practice: The objective of the 'best practice' is to improve the quality of the lecture classes and also to point out and rectify defects, if any, so as to make the classes more effective.

The Context: The young faculty members get good opportunity to share the experience of senior faculty members in teaching. This will help them to develop a good teaching methodology. The weakness or defects, if any, can be rectified. The overall performance of the Department can be improved. A cordial relation among the faculty members can be developed.

The Practice: Two members of the faculty will make the evaluation of the lecture class of each faculty member. Prior information will be given to the members. Also all the members will involve in the process of evaluation. The evaluation team will submit a report of the evaluation to the Head of the Department. The Head of the Department will make detailed discussion with the concerned faculty about the report. This will enable the faculty to take necessary changes, if any, in the teaching method.

Evidence of Success: The regular increase in the TEI score of most of the teachers is a clear evidence for the success of the practice.

Problems: For the implementation of the 'best practice' no special resources are required. As all the faculties of our institution whole heartedly welcome the practice, no problem is encountered in its implementation.

Amrita School of Ayurveda, Amritapuri

- Introductory classes by the experts as a bridge to enter into the learning
- Ten days language classes to easy the learning process.
- Special class provided for the exam going batch for a particular course (subject)

Amrita School of Business, Coimbatore

(i) One best practice that we have adopted since the beginning of our school is to give a lot of importance to the education for life courses such as Self Awareness and Personal Growth, Managerial Values and Business Ethics, Environmental Management, Management Beyond Profit, Management of Self for Success and Happiness etc. We have also encouraged our students to participate in social sector projects such as the village outreach programme, Amala Bharatham (Clean India) campaigns, Blood Donation camps etc. These efforts that we make help us to sensitize our students to the problems faced by the bottom of the pyramid segments of our society and also help them to realize the importance of values and ethics in their careers. As a result of this, our students are recognized by the industry as very sincere, grounded and ethical. This is helping us to develop good relations with many of our recruiters.

(ii) Second best practice is what we have started in the last two years. This is the Assurance of Learning program. As a part of this innovative program, the school has adopted five learning goals which are (i) critical & integrative thinking, (ii) global, environmental & societal awareness, (iii) effective communication, (iv) ethical reasoning, and (v) leadership skills. We have visualized a system where the pedagogy focuses upon the actual student learning and how it can be demonstrated through actual measurements. All these five learning goals would be measured at different points in different courses. We would have internal targets for each of these learning goals which would then be compared to actual achievement. For example, for ethical reasoning, the target for the year 2013-14 was that at least 60% of the students would demonstrate acceptable level of 'ethical reasoning' ability. This was measured through a question in the End Term examination of Managerial Values and Business Ethics which is a core course. After the results are obtained from the measurement, analysis is conducted with the entire faculty body to learn from the process. This last part tells us where we can improve the pedagogy and also should we further increase the target. For example, in the above mentioned course, around 66% of the students demonstrated acceptable level of 'ethical reasoning' ability. But they did not do so well on one component of this skill viz. application of theories to analyse a given Business Ethics situation. So, the concerned faculty has decided to raise the overall target for the year 2014-15 to 70% and has modified his course structure to teach the relevant theories better

7.4 Contribution to environmental awareness / protection

- Students are motivated to invited in activities to protect environment, to promote cleanliness and to prevent pollution. Amala-Bharatham programmes like cleaning of Sabarimala

Energy conservation

- Regular Awareness campaigns
- Planned power shutdowns in hostels during periods of low occupancy.
- Phasing out of incandescent lamps and partial phasing out tube-lights in favour of CFLs.
- Minimizing of air conditioner use through management controls

Plantation

- Large scale tree plantations within campus and in neighbouring village
- Vishuthaineettam - As part of the celebrations of the festival Vishu 2015, Amma called up, "vishukaniyodoppam vrikshakani, vishu kaineeethodoppam vrikshakani", a campaign asking everyone to gift a sapling along with the tradition of giving money. An initiative to regain the spirit of farming and love for nature.

Hazardous waste management

- The only hazardous waste that we generate is, from the chemicals that are used during the regular lab experiments in the UG studies. These chemicals are collected in separate containers and discharged at the engineered land sites or collected for appropriate disposal by authorised agency, IMAGE (Indian Medical Association Goes Eco-friendly), Trivandrum, Kerala
- Actively participated in Amala Bharatham programmes
- Cleaning of campus.

- Celebration of water day, energy conservation day etc.
- Nature awareness camps are conducted for people living in our campus
- Nature awareness videos shown to students of B. Tech. Programme, which is open to the staff and their dear ones also
- Nature photography/videography competition cum exhibition conducted in the campus where students and staff across all categories take part
- Vacant land around buildings covered with lawn/carpet grass and garden plants for protection from soil erosion and to improve aesthetics
- Bunds put in vacant lands between buildings to prevent soil erosion by rain, percolation tanks constructed at many places along the bunds to help ground water recharge
- Check dams constructed in many places along the seasonal streams that traverse through the Campus
- Rainwater harvesting done from the roof tops, collected water are stored in huge tanks and used for non-drinking purposes
- There is a core course called dedicated to Environmental Management as a part of our MBA curriculum. There are separate dust bins provided at all the residential quarters of our campus for plastic, on-plastic and food waste. The residents and the house maids in these homes have been trained to segregate the waste at their home itself. Our students, staff and faculty actively participate in Amala Bharatam (Clean India) campaigns launched by Amma. As a part of this exercise, the students, staff and faculty clean the campus and neighbouring areas on the fourth Friday of every month.
- Received the Kerala State Pollution Control Award for substantial and sustained efforts in pollution control and for initiatives in environment protection in 2014. Faculty, students, staff and all other staff actively participate in the “Amalabharatam” a campaign aimed at cleaning India's public places and national highways through which social awareness of humanity's debt to our beautiful earth and nature is highlighted.
- Observed World Environment day
- Ongoing awareness session about environmental sanitation and related topics in the selected community areas by the students and teachers
- Environment science is a part of the curriculum
- Planning to start vegetable garden in the school
- Distribution of saplings to patient and public
- Encouraging certifications to improve employability of students
 - Rewarded as part of course requirements
 - Six Sigma (ISI), Supply Chain Management (CII)
- Increasing student proficiency in Excel as it has been found to be an industry requirement
 - Use of Excel in Costing and Financial Modeling
- Eco-friendly campus
- Waste Management
- Use of renewable energy
- “SEED” Programme by Mathrubhumi
- Vegetable Cultivation
- Samskriti Charity work in Wynad tribal colonies
- Installation of 5 street lights of 15 watts within the campus and Solar water heaters of the capacity of 7000 ltrs cater to the needs of the hostellers
- Approval and sanction for the plan for Rain Water Harvesting Project
- Employment of Effective Microorganisms System (EM system) for conversion of food waste into manure
- Organisation of Environmental Day.

7.5 Whether environmental audit was conducted?

Yes

No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Nil

8. Plans of institution for next year

There are general plans related to curricular enhancements, new programs, program renewal, increase in intake, faculty and staff development (integrated performance appraisal and compensation), research and consultancy (research output linked with incentive and reward schemes, performance appraisal, specific research targets, new centers & labs, seed grants, etc.), facilities and infrastructure enhancements, etc.

Name **Prof. Prashant Nair**

Name **Dr. Sriram Devanathan**

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

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