# The Annual Quality Assurance Report (AQAR) of the IQAC

## 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
- univhq@amrita.edu

#### Contact Nos.
- +91 9943984498, +91 994394483

#### Name of the Head of the Institution:
- Dr. P. Venkat Rangan

#### Tel. No. with STD Code:
- (0422) 2685888

#### Mobile:
- +91 9047037777

#### Name of the IQAC Chair:
- Dr. Sriram Devanathan

#### Mobile:
- +91 9943984498
IQAC e-mail address: sriram@amrita.edu

Name of the IQAC Vice-Chair: Prof. Prashant R. Nair

Mobile: +91 9943984483

IQAC e-mail address: prashant@amrita.edu

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-

1.5 Website address: www.amrita.edu


1.6 Accreditation Details

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Cycle</th>
<th>Grade</th>
<th>CGPA</th>
<th>Year of Accreditation</th>
<th>Validity Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1st Cycle</td>
<td>A</td>
<td>3.20</td>
<td>2009</td>
<td>5 Years</td>
</tr>
<tr>
<td>2</td>
<td>2nd Cycle</td>
<td>A</td>
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<td>2014</td>
<td>5 Years</td>
</tr>
<tr>
<td>3</td>
<td>3rd Cycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4th Cycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.7 Date of Establishment of IQAC: DD/MM/YYYY  
17/04/2009
1.8 AQAR for the year (for example 2010-11)  

2015-2016

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)

vii. AQAR __2014-15________ (22/02/2016)

1.10 Institutional Status

<table>
<thead>
<tr>
<th>University</th>
<th>State</th>
<th>Central</th>
<th>Deemed</th>
<th>Private</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affiliated College</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constituent College</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autonomous college of UGC</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Regulatory Agency approved Institution | Yes | No |

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

<table>
<thead>
<tr>
<th>Type of Institution</th>
<th>Co-education</th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban Rural</td>
<td>Tribal</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Financial Status</th>
<th>Grant-in-aid</th>
<th>UGC 2(f)</th>
<th>UGC 12B</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Grant-in-aid + Self Financing</th>
<th>Totally Self-financing</th>
</tr>
</thead>
</table>

1.11 Type of Faculty/Programme

<table>
<thead>
<tr>
<th>Arts</th>
<th>Science</th>
<th>Commerce</th>
<th>Law</th>
<th>PEI (PhysEdu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEI (Edu)</td>
<td>Engineering</td>
<td>Health Science</td>
<td>Management</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Engineering</th>
<th>Health Science</th>
<th>Management</th>
</tr>
</thead>
</table>
1.12 Name of the Affiliating University (for the Colleges)

N.A. We are unitary university with constituent campuses

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-Special Assistance Programme

UGC-Innovative PG programmes

Any other (Specify)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

128

2.2 No. of Administrative/Technical staff

41

2.3 No. of students

40

2.4 No. of Management representatives

14

2.5 No. of Alumni

13

2.6 No. of any other stakeholder and community representatives

4

2.7 No. of Employers/ Industrialists

9
2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held:

2.11 No. of meetings with various stakeholders: Students 46

Non-Teaching Staff 12

Alumni 2

Others 2

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

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. 73 International 14 National State 4 Institution Level 55

(ii) Themes

Sample of themes:

- Literature
- ‘Samasyayumsamasyapooranavum’-a talk on Sanskrit and Mathematics.
- workshop on MATLAB/OCTAVE
- FDP in Algebra
- Talk on Work well, increase your market value
- " Enterprise Content Management (ECM) Solutions: Towards the goal of social inclusion
- Internet of Things (IoT)
- One day Hands-on workshop on Android Application Development.
- Data Analytics & Learning, System Administration and Networking Tools
- Two days National Conference on “DATA SCIENCE APPLICATIONS, ANALYTICS AND VISUALIZATION.
- IT- 2020 Computer Society of India Regional Meet on interdisciplinary research and technical exhibition.
- Formation of Cultural Identities
- Science Communication, Script Writing, Photography/Videography, Dramatics, Clay modelling, Web Designing, E-Learning, Advertising/Cinematography, Film Direction
- Cinema and Formation of Cultural Identities,
• Innovations in marketing in the New Global order-Stretching the limits: Marketing beyond Marketing.
• Careers in Digital Marketing.
• Internet Economy.
• Responsible growth towards sustainable future.
• Direct and Indirect Taxes
• Emerging business idea, data analytics
• SAP and Enterprise Resource Planning.
• Digital Marketing cum Branding
• Indirect Tax- its assessment and procedures.
• One- day Workshop on Finance and Online Trading
• Innovations in marketing in the new global order.
• General Management – Hospital Administration and Public Relation
• Biotechnology and Health
• Sensitization to Research
• Continuous Professional Development
• Fire fighting
• Pollution Control
• Tobacco control
• Reflections on NCTE suggested 2 year B.EdProgramme guidelines.
• Workshop on 2 year B.Ed Curriculum construction
• Syllabus formation for 2 year B.Ed programme
• Tentative finalization of 2 year B.Ed curriculum.
• Quality in Research and its Output
• Organ Transplant: Together, Towards Tomorrow.
• A workshop on ‘Question Paper Review & Revision’
• Challenges faced by clinical pharmacists in patient care
• Responsible use of Antibiotics Saves lives
• Spectral Analysis
• Textual learning methodology, various principles, learning tools of ayurveda texts
• National Workshop on Computer Networks and Network Simulation/ Emulation using NS3 held on 2nd and 3rd August 2014
• ICPC 2015
• A Biennial International Conference on “Power & Energy Systems Towards Sustainable Energy: PESTSE-2016” by Dr. Muhammad H Rashid, Dr. J Holtz & Dr. Ralph M Kennel, held on 21.01.2016 to 23.01.2016
• 2 days workshop on “IEEE WIE Symposium 2015” held on 7th, 8th November 2015 Coordinated by Dr. Deepa K
• 1 day workshop on “Industrial Energy Audit” held on 19.09.2015 Coordinated by Ms. Sreekala M
• 2 days workshop on “Quad Copter” held on 8th & 9th August 2015 Coordinated by Dr. Deepa K and Dr. Shankar S
• 2 days workshop on “Six Sense Robotics” held on 8th & 9th August 2015 Coordinated by Dr. Deepa K and Dr. Shankar S
• One Day Workshop on “Real Time Simulation for Modern Industrial Applications” by Dr. Ilamparithi & Team, OPAL-RT Tech., held on 02.04.2016
• Medical Education, hands on training and research

2.14 Significant Activities and contributions made by IQAC

School of Arts & Sciences-Amritapuri

• Organised awareness programme of NAAC related activities, by chief coordinators from the Head Quarters

School of Biotechnology-Amritapuri

• Academics: To increase intake with induction of one more batch in B.Sc. Biotechnology, suggestions were made to reorganize the ASBT infrastructure and thereby increase the number of class rooms and labs.
• Research: Purchase of Gas Chromatography instrument to facilitate research efforts of Sanitation group. The instrument is to be integrated with the analytical instrumentation capabilities in the Amrita Agilent Analytical Research Centre.

ASB-Bangalore

• The IQAC is constantly trying to ensure to maintenance and improvement of the quality of our course. At the School management to IQAC make improvements in different aspects of school’s functioning.
• The PGP office to ensure that all the faculty members teaching different courses submit their course outlines in time.
• To ensure the course feedback from the students closes the loop by sharing it to respective faculty members in time
• IQAC ensure that all the courses follow continuous evaluation Process.
• To ensure 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.
• IQAC ensure to that faculty members should have regular Mentors meetings with their students.
• Introduction of master thesis in PG level.

School of Engineering-Coimbatore

• Submitted Research Proposals in Agriculture Electronics – As decided in the previous report.

School of Business-Coimbatore

• The IQAC had suggested the introduction of a Course of Independent Study in order to allow the students greater flexibility in the choice of elective courses. It was accepted by the management.
• It was suggested that our MBA students should be given more exposure to real life situation of rural India so that they can understand the problems faced by farmers and their families; the
different bottlenecks to rural development; and the different stakeholders involved in that process. Other Amrita institutions such as the Mata Amritanandamayi Trust (MAM Trust) and Amrita Center for Research in Advanced Technologies for Education (CREATE) could be involved as our collaborators to give our students this opportunity. To implement this suggestion, the programme curriculum was changed. A two week window was created to accommodate a ten day visit by the students to different villages in the country accompanied by a faculty mentor. Students were assigned projects of study by the School with the help of MAM Trust and CREATE Labs which were later evaluated. We have started this programme last year under the name of Live In Labs (LILA). 1.5 credits have been allocated to this new module in the curriculum.

**College of Nursing-Kochi**

*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 M. Sc 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.
- 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.

**Research and publications**

Given emphasis on more evidence based and clinical oriented research activities.

In order to inculcate research culture among the faculty and students, research projects are made mandatory for both undergraduates and post graduates. In the academic year 2015-’16, the Post Graduate students have conducted individual research projects in addition to their theses. Unlike the previous years, the undergraduates did the group projects in smaller groups of three to four. This resulted in more active involvement of students in research in addition to an increase in the number of research projects and publications.

- It was made compulsory to publish the student projects immediately after its completion.
- Publishing the student projects guided by the faculty has been considered as a joint responsibility.
Sending the research work for publication in standard peer reviewed journals like scopus indexed was monitored using the university guidelines.

Measures have been taken to publish the unpublished theses of the previous batches of students. As an initial step, all the investigators of the unpublished theses were contacted by the assigned faculty and had taken consent to proceed with the publication. The process is ongoing.

Two faculty proposals for obtaining internal SEED grands are approved awaiting the order for the exact amount.

Five faculty student research proposals also are approved with an internal grand ranging from Rs.8, 000 to Rs.25, 000.

A few faculty members, forming Thrust Area Group (TAG), have presented five research proposals and submitted it for ethical clearance.

There is an increase in the number in the number of publications from 12 in 2014-15 to 31 in 2015-16.

**Structured value based education.**

- By reconstituting the Cultural Education Committee.
- By extending cultural education to teachers and parents.
- By identifying a few core values that may be emphasized specifically for the First year B. Sc Nursing students. 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.
- 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 feedback on course evaluation/subject evaluation/individual teacher evaluation through AUMS.
- Utilization of the central/common resources – Students and faculty get hands on training (15hrs) in the central simulation lab on specific clinical skills.
- Student exchange programme with international universities.
- MBBS students from Lee Kong Chian School of Medicine, Singapore got experience in AIMS under the department of Community Health Nursing, Amrita College of Nursing for a period of seven days from 21/12/2015 to 29/12/2015. They were posted in community settings along with the second year Post Basic BSc Nursing students benefiting

Class committee meetings are conducted to ensure the smooth running of the academic

Conducted National Conference on Organ Transplantation on 20th and 21st November 2015
Ensure publication of the post graduate theses in indexed journals as a joint responsibility of both the student and the research guide.

ASAS-Kochi

- Interdisciplinary talk on sanskrit and mathematics ,‘Samasyayumsamasyapooranavum’ ,as a part of vidyamritam lecture series on 14th November, 2015. Shri Sunil kumarR,Assistant Professor in Mathematics(Research scholar,CUSAT),BJM Govt. Collge, SankaraMangalam, Kollam, was the resource person.
- Two day workshop on MATLAB/OCTAVE on 29th & 30th January 2016. Dr. M. Ravishankar, Associate Professor, Department of Marine Geology and Geophysics, CUSAT, Kochi was the invited speaker.
- Faculty Development Programme on 16th July,2015. Ms.SaradaJayan , Assistant Professor (Selection Grade) ,Amrita School of Engineering , Bangalore, was the resource person who gave a session on Linear Algebra.
- Conducting Seminars , Conferences and Expert lecture series called Vidyamritam .Conducting Faculty development Programs. Conducting technical talks on latest technologies, Quiz programs. Conducting seva and community programs like Students of BCA visited Headquarters Southern Naval Command.
- A Six-day workshop on “Science Communication” was held in the Campus. Sri. K.P. Madhu, a veteran trainer in Science Communication and former head, IISER, Pune conducted the workshop for MJMC 3rd semester students. The workshop was a tremendous success as it instilled in the students and the faculty a renewed vigour in their academic and research perspectives.
- A ten-day Script and Film Production workshop was organized from 14th September to 29th September for the 3rd semester PG students. The workshop was handled by the veteran script writer Sri. RaganathPaleri. The students made five short films as part of the workshop
- A three-day Photography / Videography workshop was organized catering to the needs of 5th semester MA Integrated English Students. Sri. M.A. Krishnakumar and Sri. T. VarunPrabha, coordinated the workshop. The workshop was a success in introducing the new Digital Media to the literature students.
- A six-day production oriented workshop on Dramatics was organized in the Department for 3rd semester B.Sc. Visual Media and 3rd Semester M.A. English students from14th to 19th September 2015. Dr. C.S. Jayaram and Sri. Kalesh, performer and cine artist, conducted the workshop.
- Workshop on script writing was organized on 16th November, 2015 for Visual Media final year P.G students in our campus. Sri. BabuPallasseri, renowned script writer, director of Malayalam film industry, conducted the workshop. The workshop gave a deeper insight to students on writing film scripts. He also presented a one act play on drug addiction.
- A five-day workshop on clay modelling was conducted for First Year MFA students from 16th to 21st November. The mentor of the workshop, Prof. C.S. Jayaraman, gave a session on clay modelling. The students are given hands on experience in clay modelling.
- Interdisciplinary talk on sanskrit and mathematics ,‘Samasyayumsamasyapooranavum’ ,as a part of vidyamritam lecture series on 14th November, 2015. Shri Sunil kumarR,Assistant Professor in Mathematics(Research scholar,CUSAT),BJM Govt. Collge, SankaraMangalam, Kollam, was the resource person.
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School of Pharmacy-Kochi

• Teachers training programme conducted from 9th to 13th June 2015 an objective of empowering teachers and to impart basic skills needed to become excellent teachers.

• Seminars and workshops were conducted.

• 54th National Pharmacy week celebration from 23rd November to 7th December, 2015.

• The theme selected for this year’s Pharmacy Week by IPA (Indian Pharmacy Association) was “Responsible use of Antibiotics Saves lives”. As part of National Pharmacy week, various awareness programmes were conducted at the Health Sciences campus.

Activities

• Patient counselling at Primary health centre, Edappally

• Street plays at AIMS & Amrita Vidyalayam by Pharm.D II Yr&VIth year (interns)

ASB-KOCHI

• Streamlining of departmental processes, activities and documentation

• Data maintenance in soft format in shared drives

• Examination process improvements

• Student internship review and approval process revisions
• Orientation for administration staff on regular data updates and filing
• Periodic data maintenance scrutiny
• Improvement in mentoring system to actively involve parents
• Significant improvement in number of applicants for the programme
• Improvement in the variety of external programmes attended by students: students participated in budget analysis on television channels and seminars
• Increase in the number of colloquia.
• Improvement in digital marketing and social media presence
• Improvements in infrastructure: Library, elective rooms and auditorium

School of Dentistry-Kochi
• Ensuring feedback from patients from regularly conducted outreach programmes. Special emphasis given for improvement of patient care.
• Improvement in outreach activities which have social accountability.
• Student feedback of lectures taken by faculty.
• Educational movies screened on a regular basis for the purpose of inculcating values.
• Soft skill training for students.
• Initiation of Anti-tobacco movement.
• Improvement in research activities. Undergraduate research initiated.

School of Arts & Sciences-MYSURU
• Conduct of FDPs for an improved quality.
• Suggesting strategic plan for an overall improvement of the campus

School of Education-MYSURU
Curriculum revision for 2 year B.Ed programme

Amrita Centre for Nanosciences and Molecular Medicine
Academic evaluations, Anti-plagiarism, Publication requirements, Research quality evaluation – data documentation, Institution Bio Safety (IBSC), Cell culture and Lab Safety, Research.

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

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Increase of research activities</td>
<td>i) Awarded 3 PhDs</td>
</tr>
<tr>
<td>ii) Organize workshop, invited talks</td>
<td>ii) Produced 35 International journal papers, 5</td>
</tr>
</tbody>
</table>
School of Biotechnology-Amritapuri

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully equipped and functional Sanitation Biotechnology and Cell Biology research labs</td>
<td>1. The research output and findings helped the investigators to also secure an Indo-Canadian project (IC-IMPACTS) on Water Sanitation worth Rs. 38.48 Lakhs.</td>
</tr>
<tr>
<td></td>
<td>2. The researchers were able to submit five research grant proposals to various funding agencies with an estimated amount of 728.8 Lakhs.</td>
</tr>
<tr>
<td></td>
<td>3. The other achievements include 10 B.Sc. dissertations, 7 M.Sc. theses, 14 poster presentations, 2 invited talks at the national level and 5 international presentations.</td>
</tr>
<tr>
<td>Modification of UG Physics, Chemistry Labs to provide additional space as facilities</td>
<td>With the change, more number of students could be accommodated simultaneously to perform lab-related activities.</td>
</tr>
</tbody>
</table>

School of Business-Amritapuri

<table>
<thead>
<tr>
<th>Plan Of Action</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1. Encourage students to participate in international programs in order to introduce a global setting in management education (Value added programme).</td>
<td>1.2 students (Vivek U Nair and Parvathy S Prasad) undergone summer school with the University of Telecom Paris France</td>
</tr>
<tr>
<td>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).</td>
<td>2. Students had the opportunity to listen to talks given by several industry experts. There were 9 colloquiums held on various topics like Marketing Communication, The birth of an entrepreneur, Negotiation skills, NPD,</td>
</tr>
</tbody>
</table>
3. Provide a global exposure to students by inviting *professionals* abroad to deliver course lectures via electronic means (Value added program).

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting PhD</td>
<td>Achieved</td>
</tr>
<tr>
<td>Infrastructure Modification</td>
<td>Under Construction</td>
</tr>
<tr>
<td>Speech by experts from various skills</td>
<td>achieved</td>
</tr>
</tbody>
</table>

4. Encourage students to take up internships outside India

4. Students experienced a global setting with international experts like Mr. Rajan Krishnan who retired from ExxonMobile, USA and Mr. Michael Barton who is a US Tax Lawyer.

5. Recruit more faculty

5. Recruited 3 faculty

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**School of Ayurveda-Amritapuri**

<table>
<thead>
<tr>
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<tbody>
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**School of Business-Bangalore**

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcomes achieved by the end of the year

<table>
<thead>
<tr>
<th>Plan of Action</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1. To implement Master thesis as a mandatory course for master students</td>
<td>Implemented</td>
</tr>
<tr>
<td>2. Further revised the Integrated Performance Management System</td>
<td>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.</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. To revamp the Performance Management System (PMS) for faculty evaluation in order to give more weightage to SCOPUS indexed research in order to motivate faculty to increase the quality and quantity of their contributions;</td>
<td>1. The PMS was restructured with adoption of ABDC (Australian Business Deans’ Council) approved journals as our benchmark for faculty publications.</td>
</tr>
<tr>
<td>2. To ensure that all the faculty members teaching different courses submit their course outlines which should have clearly laid out course objectives and evaluation criteria;</td>
<td>2. All the course outlines were monitored. They were submitted in time with clearly laid out course objectives and evaluation criteria.</td>
</tr>
<tr>
<td>3. It was suggested that all the full time faculty members teaching courses in the MBA programme allocate at least one hour per week outside regular class hours for interaction with the students. This should be mentioned clearly in the course outline;</td>
<td>3. The suggestion was implemented by all the faculty members.</td>
</tr>
<tr>
<td>4. A thorough review of the MBA Curriculum was carried out in this academic year.</td>
<td>4. The main outcomes of this review process are: introduction of fractional credits, student tutorials as well as courses in the area of Business Analytics to strengthen our curriculum in alignment with the industry trend.</td>
</tr>
</tbody>
</table>
### School of Engineering-Coimbatore

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
</table>
| Initiate Research in Agriculture     | Internal Seed Grant Rs.2.55 Lakhs- Received in January 2016  
                                          Received by Dr. C. Santhosh Kumar  
                                          Dr. K. I. Ramachandran  
                                          Mr. K. A. Pradeep Kumar  
                                          Mr. M. Ganesan  
                                          Mr. R. Gandhiraj  
                                          4 Scholars graduated from the department  
                                          M.Tech Automotive Electronics- Started in Collaboration with TCS.  
                                          Vehicular Electronics Lab – Funded by TCS Set Up: Academic Block II: C-103  
                                          Lab to be upgraded in the coming years.  
                                          14 Total Amount: Rs.560 Lakhs  
                                          2 Amount: Rs.31.454 Lakhs  
                                          2 with funding from  
                                          ISRO: Rs. 45000  
                                          DRDO: Rs.45000  
                                          IETE: Rs.5000  
                                          Details in Annexure for section 2.13 of Part B  
                                          Training program on Women Entrepreneurship through Electronics  
                                          Date: 19th March 2016  
                                          Number of Members: 35 |

| No.of Research Proposal Submitted to external funding Agencies | 14  
| No.of research Proposals Sanctioned: | 2  
| No.of Sponsored Workshops Conducted- National Level | 2  

### College of Nursing-Kochi

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
</table>
| 1. Increase the number of research and publication | □ Publication of theses in SCOPUS/indexed journals is made mandatory and this could be achieved.  
                                                    □ Ensured publication/processing of all student research (both group and individual) projects of PG and UG students before the commencement of University examinations. |
<table>
<thead>
<tr>
<th>2. Structured cultural education</th>
<th>□ Discussions are going on and Syllabus is yet to be prepared.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. National conference; Inter professional collaboration</td>
<td>Conducted National conference on Organ transplantation: Together, Towards Tomorrow</td>
</tr>
<tr>
<td></td>
<td>□ Two day conference where the whole transplant team (State Nodal Officer), Doctors, Nurses, Transplant co-ordinators, Social workers, Donors and recipients jointly took sessions and presented papers and posters.</td>
</tr>
<tr>
<td></td>
<td>□ State level workshop organised by the first year MSc Nursing students on inter professional collaboration. Participants could get the need for IPE(inter professional education) and IPC (inter professional collaboration) in health care.</td>
</tr>
<tr>
<td>4. Symposium on Ragging—a menace and Anti Ragging measures.</td>
<td>One day symposium on ragging—a menace and anti ragging measures. It could create awareness on the ragging events and its legal aspects and importance of preventing, monitoring, reporting and taking necessary actions.</td>
</tr>
<tr>
<td>5. Measures to refine the teaching skills of Faculty</td>
<td>• Training for all faculty members in central simulation lab.</td>
</tr>
<tr>
<td></td>
<td>• Proposal for financial assistance from NAAC for conducting a workshop on Quality sustenance and maintenance in educational methodology for nurse educators</td>
</tr>
<tr>
<td>6. Measures to strengthen the nursing skills of first year BSc Nursing students</td>
<td>• Formed core group to identify the skill gaps among first year nursing students and focus on these skills.</td>
</tr>
<tr>
<td>7. Workshop on ‘Evaluation and Modification of Question Paper’</td>
<td>• Conducted three day workshop on evaluation and modification of the University Question papers of all the three programmes.</td>
</tr>
<tr>
<td></td>
<td>• All university question papers for the UG and PG</td>
</tr>
</tbody>
</table>
Programmes were analysed by the faculty in subgroups which was presented, discussed and finalised in the core committee.

- Model question papers were prepared by faculty concerned and sent to ECD.

<table>
<thead>
<tr>
<th>8. A) Assignments- Review and revision.</th>
<th>Department wise assignments for various subjects were reviewed based on INC requirements and student feedback. A few assignments were cut and a few modified.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B) Procedure book- Review.</td>
<td>Procedures mandatorily to be done by the students were noted. Rare clinical procedures were made optional.</td>
</tr>
<tr>
<td>C) Record -Review</td>
<td>A few procedures were removed from the procedure book as they were outdated.</td>
</tr>
<tr>
<td></td>
<td>The practical record for second year BSc Nursing in Medical Surgical Nursing I was modified adding health education, drug files, normal values along with the care studies to be written under specific headings.</td>
</tr>
</tbody>
</table>

| 9. Release of newsletter               | The college newsletter is under the process of editing and will be released by the first week of July. |
| 10. Integrated Ph D in Nursing         | Academic council has approved integrated MSc PhD for candidates with excellent academic track. |
|                                        | Planning to start in the next academic year 2017-18. |
|                                        | Measures taken to appoint an external research consultant to support along with the existing PhD faculty in the college and campus. |
| 11. Faculty empowerment                | Assigned a faculty co-ordinator to |
- Identify a few more sessions to be taken by the concerned clinical nurses.
- Involve the PG students in organising and participating in the continuing nursing educations programmes planned by the Staff Development Centre (SDC).
- Co-ordinate with the SDC in organising clinically significant workshops for the faculty or facilitating the faculty to participate in the workshops conducted for the clinical nurses.

- Regular sessions are conducted for the faculty by faculty development committee of Amrita College of Nursing
- Training is given for the faculty in the central simulation lab.
- Each faculty member is sponsored by the institution to attend two national/international conferences of which the faculty should present a paper in one of the two.

<table>
<thead>
<tr>
<th>12. Invited talks</th>
<th>Conducted talks on Ragging—a menace and anti ragging measures, Cyber crime, Life goals, Preamble of Indian constitution and five sessions on Environmental studies by experts.</th>
</tr>
</thead>
</table>

| 14. Plans on online feedback system of the course/subject/teacher | Yet to implement |

| 15. Release of Nursing College Magazine | The 4th college magazine “Kalochakal” was released during the farewell function of students on 12th August 2015. |


**School of Pharmacy-Kochi**
Plan of Action | Achievements
---|---
● Revision of B.Pharm syllabus and switch over to grade system | 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.
● To increase the number of funded projects | Two projects
   - Department of Science & Technology (Nanomission) of 34 lakhs
   - Spices Board of Rs. 25 lakhs.
The duration is 3 years.
Introduction of parents portal | Parent’s portal for B.Pharm and Pharm.D. The parents can view their wards progress report and attendance & University mark list.

**School of Dentistry-Kochi**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) To improve the patient satisfaction from treatment rendered at the hospital</td>
<td>1) Definite improvement in the patient satisfaction levels in many of the departments.</td>
</tr>
<tr>
<td>2) To improve the research activities</td>
<td>2) Research methodology workshop conducted. Undergraduate students and interns encouraged to take up research and papers being prepared for publication.</td>
</tr>
<tr>
<td>3) Improvement in postgraduate and training.</td>
<td>3) More seminars, lectures in basic sciences, Continuing Dental Education programmes conducted, increased participation from postgraduates in outreach programmes</td>
</tr>
<tr>
<td>4) Improvement in undergraduate training.</td>
<td>4) Students were given opportunity to take part in more field activities.</td>
</tr>
<tr>
<td>5) To improve the overall development of students</td>
<td>5) Educational movies were screened. Efforts were made to instil values. Soft skill training given to students.</td>
</tr>
</tbody>
</table>
| 6) Initiating activities which have social accountability. | 6) a) Participation in Chennai Flood Relief operations in December2015  
  2. b) Tobacco cessation cell was set up. Post graduates were trained in tobacco cessation activities and students were sensitized about the ill effects of tobacco. Improvement in outreach activities. |
**School of Business-Kochi**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>To consolidate the student activities.</td>
<td>Achieved</td>
</tr>
<tr>
<td>To further improve the efficiency of the examination process.</td>
<td>Achieved</td>
</tr>
<tr>
<td>Improve physical infrastructure:</td>
<td></td>
</tr>
<tr>
<td>• Library expansion</td>
<td>Achieved</td>
</tr>
<tr>
<td>• Elective rooms</td>
<td></td>
</tr>
<tr>
<td>• Examination hall cum auditorium</td>
<td></td>
</tr>
</tbody>
</table>

**School of Arts & Sciences-Kochi**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Workshop on MatLab</td>
<td>Two day workshop on MATLAB/OCTAVE on 29th &amp; 30th January 2016.</td>
</tr>
<tr>
<td>3. FDP</td>
<td>FDP in Algebra on 16th July, 2015.</td>
</tr>
<tr>
<td>4. Conferences, Seminars, Vidyamritam</td>
<td>2 National, 1 State level exhibition and 5 Institution level programs were conducted as per the plan. All other activities other than academic activities were planned and done successfully.</td>
</tr>
<tr>
<td>5. Plan to conduct national seminar, conference, workshop and vidyamritam sessions</td>
<td>1)On 17th September 2015 the department conducted a vidyamritam session on “Careers in Digital Marketing”.</td>
</tr>
<tr>
<td></td>
<td>2) Two day National Seminar on “Internet Economy” on 18th</td>
</tr>
</tbody>
</table>

1) On 17th September 2015 the department conducted a vidyamritam session on “Careers in Digital Marketing”.

2) Two day National Seminar on “Internet Economy” on 18th
&19th September 2015.

3) On 29th September 2015 a session was organized on “Responsible growth towards sustainable future”.

4) Conducted a session on “Direct and Indirect Taxes” on 8th October 2015.

5) On 9th October, 2015 conducted a session on an emerging business idea, data analytics.

6) On 11th November 2015, conducted a session on SAP and Enterprise Resource Planning.

7) Conducted a session on Digital Marketing cum Branding, on 27th January 2016, Wednesday.

8) Conducted a session on Indirect Tax- its assessment and procedures on 2nd February 2016.

9) A “One-day Workshop on Finance and Online Trading” was organized on Monday, 15th February 2016.

10) Two day national conference on Innovations in marketing in the new global order on 8th and 9th March 2016.

11) Conducted a session on General Management – Hospital Administration and Public Relation on 1st April 2016.

---

**School of Arts & Sciences-Mysuru**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• To work towards introducing new PG programmes in the Dept. of Visual Communication</td>
<td>• Three PG programmes are introduced in the Dept of Visual Communication to be commenced from 2016 onwards.</td>
</tr>
<tr>
<td></td>
<td>• Two Faculty Members with Ph D are appointed.</td>
</tr>
<tr>
<td></td>
<td>• A broadcast quality audio visual studio is setup with the following features:</td>
</tr>
</tbody>
</table>
- Sony 4k Cameras  
- High End MAC Machine  
- Powered Monitor Speakers  
- Separate Audio-Video Suite  
- High End Audio-Video Interface  
- Fully Air-Conditioned Acoustic Cabins  
- Professional Cameras and Mixers  
- Audio Booth and Lighting Console  
- A dedicated lab exclusively for Visual Communication.

- Appointing more faculty members with Ph.D qualification.
- Five Faculty members with Ph.D qualification (Three in the Dept of Mgmt& Commerce and Two in the Dept of Visual Communication) were appointed.

- Vidyaanveshane
- Vidyanveeshane – a series of seminars and workshops to give an exposure to the students of all streams and all classes was conducted.

- Extending Placement Assistance to UG programmes and inviting more companies to the campus.
- Placement assistance was extended to all UG students as well. A total of 233 offers were generated through over 20 companies visiting the campus.

  This service was also extended to the students of other First Grade Colleges in and around Mysuru by conducting pooled recruitment drive.

- Introduction of Yoga session for all classes.
- Yoga session was scheduled once a week in the timetable for all classes.

- Introduction of Blazers for UG students.
- Introduction of Blazers for UG students.

- Request made to management for provision of a hall with a capacity of
- A multipurpose hall (Amritamayi) with a capacity of 300 was made available for the purpose in the new block which is also used for conducting yoga
300 for the conduct of Workshops and guest lectures etc.

- Other infrastructural augmentation
- A new block is set up for placement and to facilitate visits of the recruiting companies.
- A bakery is set up to provide students with fresh supplies.

### School of Education-Mysuru

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned to have activities through Placement Cell – Exposure content knowledge and various skills</td>
<td>Significant number of Students were appointed in reputed Institutions through on and off campus</td>
</tr>
<tr>
<td>Planned to conduct workshop on curriculum revision and finalisation</td>
<td>Experts were invited from different universities and had brainstorming sessions with them. Finally the tentative 2 year B.Ed syllabus was formulated.</td>
</tr>
</tbody>
</table>

### Amrita Centre for Nanosciences and Molecular Medicine

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting up of GMP facility</td>
<td>80% completed</td>
</tr>
<tr>
<td>Setting up nude mice test facility</td>
<td>Completed</td>
</tr>
<tr>
<td>Streamlining flow cytometry lab</td>
<td>Completed</td>
</tr>
<tr>
<td>Setting up Cath-lab for animals</td>
<td>Completed</td>
</tr>
<tr>
<td>Setting up of an energy storage lab</td>
<td>Completed 80%</td>
</tr>
<tr>
<td>Setting up a thin film deposition lab</td>
<td>Completed 20%</td>
</tr>
<tr>
<td>Improvements in Bioreactor lab</td>
<td>Completed</td>
</tr>
</tbody>
</table>

#### 2.15 Whether the AQAR was placed in statutory body

<table>
<thead>
<tr>
<th>Management</th>
<th>Syndicate</th>
<th>Any other body</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Level of the Programme</th>
<th>Number of existing Programmes</th>
<th>Number of programmes added during the year</th>
<th>Number of value added / Career Oriented programmes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>22</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>PG</td>
<td>52</td>
<td>6</td>
<td>--</td>
</tr>
<tr>
<td>UG</td>
<td>22</td>
<td>3</td>
<td>--</td>
</tr>
<tr>
<td>PG Diploma</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Advanced Diploma</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Diploma</td>
<td>1</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Certificate</td>
<td>3</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Others</td>
<td>M.Phil. -1</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>101</strong></td>
<td><strong>9</strong></td>
<td><strong>--</strong></td>
</tr>
</tbody>
</table>

| Interdisciplinary      | 83                            | 1                                        | 82                                                 |
| Innovative            | 1                             |                                          |                                                    |

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

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Number of programmes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>78</td>
</tr>
<tr>
<td>Trimester</td>
<td>1</td>
</tr>
<tr>
<td>Annual</td>
<td>11</td>
</tr>
</tbody>
</table>

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.

School of Arts & Sciences-Amritapuri:
Syllabus is revised after every three years

School of Engineering-Amritapuri
Yes, all PG Board of Studies Meetings for syllabus Revision- With effect from July 2016
Curriculum and syllabi of M Tech has been modified for 2016-17 academic year with following salient features

- 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 two semesters 
  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**
Both PG and UG syllabi were modified as per the recommendation of ASBT academic committee followed by approval by the Board of Studies. The syllabi were further ratified by the respective University agencies on PG and UG programs. The revision has a mandate to bring up-to-date information to the student community. For example, courses such as Omics and Proteomics, Mass Spectrometry & Proteomics, Plant & Animal Biotechnology and Information Systems are expected to provide cutting-edge information to the students in the respective domains/areas.

**School of Business-Amritapuri**
A mandatory Independent Study Course was introduced where all students have to work on a research paper and submit to a journal.

**School of Engineering-Coimbatore**

**ECE** - Yes, every four years

**CSE** - M.Tech (CSE) and MTech (CVIP) curriculum and syllabi revised for 2016 onwards batches.

**MECH**

**New Regulation and Syllabus for 2015 admissions B.Tech**

1. Marks for attendance. Students who have been selected to be trained for International competitions or have secured a CGPA of 8.00 and above and are working on directed research under a faculty member, and approved by the Chairperson of the Department, shall be given an additional attendance up to 25%

2. Award of additional marks for paper publication, seva work, winners in technical, sports and cultural competitions

3. Changes in evaluation pattern based on number of theory or tutorial hours

4. Changes in the award of class
   Candidates securing a CGPA of 8.00 and above – HONOURS
   Students pursuing the programme in the Honours stream, shall have published TWO papers, to qualify for the Degree with ‘Honours’, in addition to the other requirements prescribed for the award of an ‘Honours’ degree.
   Candidates securing a CGPA of 8.00 and above – FIRST CLASS WITH DISTINCTION
   All students, if they are to be considered for award of Distinction at the time of graduation, are required to have published ONE paper. This is in addition to the other requirements already prescribed for the award of Distinction
   Candidates securing a CGPA between 6.50 and 7.99 – FIRST CLASS
If the programme is completed after eight semesters of study, the candidates securing even a CGPA of 8.00 and above shall be classified to have completed the programme, only with FIRST CLASS.

5. Introduction of Computational thinking in the curriculum
6. Introduction of Live in Lab: This initiative is to provide opportunities for students to get involved in coming up with technology solutions for societal problems. The students shall visit villages or rural sites during the vacations (after 4th semester or sixth semester) and if they identify a worthwhile project, they shall register for a 3 credit Live Lab project, in the fifth or seventh semester.

**New Regulation and Syllabus for 2016 admissions of M.Tech**

1. Course contents were updated and new electives introduced in all the PG programs offered by the Department.
2. Research Methodology course introduced to PG students
3. Lab courses are added and the existing lab courses were enhanced to suit the new requirements.

**ENGLISH**

Yes .salient aspects :

1. Online Resources have been included

**CEN- YES, Complete Revision of Subjects were made for M.Tech CN & RSWSN**

**CHEMICAL- B.Tech Curriculum Revision 2015**

**School of Business-Coimbatore**

A thorough review of the MBA curriculum was carried out in the academic year 2015-16. The main results of this review: introduction of fractional credits, student tutorials as well as courses in the area of Business Analytics in alignment with the changing trend towards analytics in the industry.

**College of Nursing-Kochi**

- As per the Indian Nursing Council regulation, no school or University is supposed to make any modification of the curriculum. So no revision of the curriculum is done after the revision in 2010 by the INC.

- But, Board of Studies meetings are held at specific intervals and are suggested to make curriculum enrichment in par with the local or societal needs and changes, epidemics etc. Hence teachers are incorporating the recent advancements and evidence based practice issues in the teaching-learning process.

**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**

- Regular update of curriculum and syllabi based on industry requirement
- All campus committee set up for course curriculum update
- Introduction of Business Analytics as a specialization
School of Arts & Sciences-Kochi

- Grading pattern changed
- Change in Syllabus
- Policies regarding Supplementary Examination changed.
- Integrated courses and fractal syllabus introduced, syllabus updated as per latest industrial requirements.
- Syllabi for all courses (UG, PG, M.Phil.) under Visual media department were revised based on industry standards.

School of Arts & Sciences-Mysuru

Syllabi of all UG programmes and M Sc and M Com were revised and is applicable to the 2015 admission batch onwards.

- Introduction of Open Electives with an intention of adding variety and to nurture interest
- Introduction of Live in Labs to inculcate practical application of the technical knowledge for societal benefits.
- Introduction of Amrita Value programme as an extension of Cultural Education for study in 2nd and 3rd year of the programme.
- New grading pattern as per the UGC guidelines has been adopted
- The Internal assessment part of the continuous assessment component has been reduced to 50 from the earlier 60.
- More practical papers are introduced in programmes related to Visual Communication.
  ➢ Mandatory publication in SCOPUS indexed journals for all PG students.
  ➢ Fulfilment of publication requirement for the award of distinction for UG students
  ➢ Monitory incentive to UG students for publication in SCOPUS indexed journals

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

1. Amrita Dental College-Kochi:
   Tobacco Cessation Centre – A Tobacco cessation cell was established to strengthen the already existing Anti-Tobacco Movement at Amrita (ATMA).

2. Amrita School of Arts and Science-Mysore
   i. Dept of Visual Communication has been set up with Three full time faculty members (including two doctorates) and Two Technical Associates and One attender.
   ii. Experts from the industry and freelancers are invited to give sessions on specialised areas.
   iii. Apart from the classrooms the department is equipped with a dedicated lab and a professional audio/visual studio.

3. Amrita School of Engineering, Coimbatore:
   ECE- Vehicular Electronics Laboratory – Department of ECE

4. Amrita Institute of Medical Science, Kochi:
   i. Department of Hepatology
   ii. Department of Organ Transplant Anaesthesia & Critical Care
iii. Department of Reproductive Medicine
iv. Department of Virology
v. Department of Infectious Diseases
vi. Department of Paediatric Nephrology
vii. Department of Gynaecological Oncology
viii. Department of Endocrine Surgery
Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

<table>
<thead>
<tr>
<th>Total</th>
<th>Asst. Professors</th>
<th>Associate Professors</th>
<th>Professors</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>527</td>
<td>291</td>
<td>52</td>
<td>73</td>
<td>130</td>
</tr>
</tbody>
</table>

2.2 No. of permanent faculty with Ph.D.

- 140

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

<table>
<thead>
<tr>
<th>Asst. Professors</th>
<th>Associate Professors</th>
<th>Professors</th>
<th>Others</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>V</td>
<td>R</td>
<td>V</td>
<td>R</td>
</tr>
<tr>
<td>152</td>
<td>26</td>
<td>6</td>
<td>5</td>
<td>9</td>
</tr>
</tbody>
</table>

2.4 No. of Guest and Visiting faculty and Temporary faculty

- 22
- 43
- 0

2.5 Faculty participation in conferences and symposia:

<table>
<thead>
<tr>
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2.6 Innovative processes adopted by the institution in Teaching and Learning:

**School of Arts & Sciences-Amritapuri**
- Audio-visual devices are incorporated in teaching.
- Virtual laboratories included in the curriculum of all graduate students of the department.
- All the students have access to open access educational resources.

**School of Engineering-Amritapuri**
- Interdisciplinary student projects.
- MOOC course "Computer Programming" conducted by IIT Bombay is made available for first year B.Tech CSE students.
- Student/faculty exchange programs with international Universities.
- Research seminar by faculty members in every fortnight.
- Classes of eminent professors from foreign Universities.
- A very active Free and Open Source (FOSS) club.
- Programming club and dedicated ICPC Lab.
- Opportunity to do research along with experts working in centres of excellence within the campus.
- Bridge Courses on fundamental subjects are offered every year.
• Facility for BTech students to work in Research Lab under the department.
• 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
• Increased emphasis on well-structured projects, including grading based more heavily on demonstrating practical knowledge through applied project.
• Pedagogical emphasis on students being required to ask questions during class to ensure engagement and comprehension.
• Use of alternative learning activities such as "improv" which allow the class to combine imagination and embodied understanding along with traditional intellectual understanding of content
• Project based learning, Bridge courses, Vacation project, Pedagogical techniques applied in curriculum and syllabus building.

Amrita Centre for Nanosciences and Molecular Medicine

Group meetings and presentations, Translating learning to society, and Student Newsletter

School of Biotechnology-Amritapuri
1. Virtual lab based theory and practical acquaintance:

The main objective of Virtual lab is to provide remote-access to labs in various disciplines of Science and Engineering. These Virtual Labs covering nine broader disciplines expected to cater students at the undergraduate level, post graduate level and also research scholars.

This project is an initiative of Ministry of Human Resource Department under National Mission on Education through ICT. These experiments and labs will be hosted for open access through the main project website http://virtual-labs.ac.in or http://vlab.co.in.

2. Research article based class room presentations:

From B.Sc. second year onwards, emphasis is given to read original research papers and its subsequent presentation in the class rooms. In the B.Sc. fifth semester, research methodology course is introduced which involves individual literature mining, research paper presentation and hypothesis based grant writing.

3. Independent research projects for undergraduate programs and thereby enable the students to publish their findings:

A program named “B.Sc. Research Initiative Towards Excellence (BRITE)” is initiated at the School for the undergraduate students which is anticipated to help them to understand the nuances of handling research problems. As part of the program, the PIs were able conceive and execute diverse research problems through B.Sc. students, many of the findings were published in peer-reviewed journals with impact factor ranging from 1-3.

School of Ayurveda-Amritapuri

• Department of Panchakarma conducted a Vamanna Camp as a part of teaching learning process.
• Learning from the society. Classes and medical camps in the nearby villages as part of learning.

School of Business-Bangalore

1. ASB faculty adopt many teaching innovations in their teaching. As a part of the course students are sent to organization industry to do independent project

School of Engineering-Coimbatore

CSE
• C Programming weekly FDP for faculty
• CTPS weekly FDP for faculty
• CTPS FDP Conducting Two times for faculty for next academic year

Mechanical:
• Thrust Area Groups (TAG) formed in our department provides a strong platform for doing innovative research work. Weekly two hours are allotted in the timetable for TAG activities and the progress of each TAG is monitored every month
• Each TAG group takes initiative in getting internal seed fund for carrying out their research activities and also submitting proposals to various external agencies. One of the TAG has received internal seed fund to explore their research outcomes.
• Students are actively involved in research activities and research outcomes are published in International Journals/Conferences.
• Arranging Guest lectures in thrust area and also motivating students to participate in soft skill programs
• Encouraging faculty members to register for Ph.D and stipend is given for full time Ph.D scholars.
• Encourage the students to participate in Curricular/Co-curricular/Extra curricular activities by giving weightage for each activities to improve their overall performance.

MSW
• Social communication lab – teaching students’ communication aids to work with the community.
• Students were asked to keep and update a file on newspaper clippings on various issues. The students started keeping the newspaper clippings and updated their knowledge on current issues.
• Students’ assignment on various social institutions helped them to understand the institution in real life situation.
• Teaching includes case study presentations and handling the current national and international level social issues in the class.
• The MSW students took part in the internship organised by the Amrita Live-in-Labs which is a multidisciplinary experiential learning program that facilitates the research, development, and deployment of sustainable solutions for current challenges faced by rural communities in India.
• The students were also given opportunity to work in the initiatives of Amrita SeRVE, Ammachi lab and Amrita Create.

ENGLISH - Audio Visual Sessions have been included

MATHS- ONLINE TESTS, VISUAL LEARNING
CEN- Exposure to new Technology & Real time projects

EEE- QEEE (on-line vedio course)

School of Business-Coimbatore

- A practical component called Live In Lab (LILA) was introduced this year. As a part of this First year students were taken in groups of 10-15 with faculty mentors for a period of a week to 10 days to different villages in various parts of the country to give them practical exposure to the challenges faced by the rural population and to try and work out solutions for some of them using their theoretical knowledge of Management gained in the classroom through various MBA courses. Students were assigned individual as well as group projects and assignments which were evaluated. This new module was assigned 3 credits which is equivalent to a full 30 hour course.

College of Nursing-Kochi

- Comprehensive case management; Case scenario presentations
- Incidental short clinical examination
- Problem based learning
- Interactive lecture
- Posting 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

School of Pharmacy-Kochi

- Soft skill training programme for final year B.Pharm and Pharm.D students. Mock interview conducted for the students to improve the confidence of the students and also an opportunity to test out their interview skills.
- Class committee meeting are conducted for all batches where the students can interact with their faculty, discuss the students issues.
  - Weak students are provided with extra support through assignments and re-tests.
  - Faculty development programme organised with an objective of empowering teachers and to impart basic skills needed to become excellent teachers.
  - Students are encouraged to attend seminars and conferences and present papers

School of Dentistry-Kochi

- Value-based training and soft skill classes for students.
- Screening of educational movies.
- Special attention given by faculty to any student issue related to academic training
School of Business-Kochi
- Data driven approach across courses
- All faculty panel in summer internship reviews

School of Arts & Sciences-Kochi
- Dramatics, developing content for PR campaign, education tour, feature reading at AIR and interviewing eminent personalities, manuscript journal.
- Field Trips and Industry visits to television channels, advertising agencies, and news agencies.
- Bridge course for non-commerce students

School of Arts & Sciences-Mysuru
- Mandatory paper publication for PG students has set in a research culture in teaching and learning.
- The practice of employing a blend of teaching methodology - including lecture method, case study, role play, group discussions, simulated activities, seminars and presentations - is continued.

School of Education-Mysuru
- Video recording of few practice-in-teaching lessons and criticism lessons to give effective feedback.
- Use of smart board
- Video clippings were shown during class room
- More scope for interaction to strengthen the teaching
- Inclusion of seminar, discussion, collaborative teaching learning methods.

2.7 Total No. of actual teaching days

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.

- 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
- Open book examination for post-graduates of dental college, nanoscience

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

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<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Distinction %</th>
<th>I %</th>
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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
### School of Engineering-Amritapuri

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Distinction %</th>
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### School of Biotechnology-Amritapuri

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### School of Business-Amritapuri

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### School of Ayurveda-Amritapuri

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### School of Engineering-Bangalore

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- **Results of Foreign exchange Programme (1 No.) is yet to be published**

### School of Business-Bangalore

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**School of Business-COIMBATORE**

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**School of Medicine-Kochi**

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<td>88%</td>
</tr>
<tr>
<td>M.Sc.</td>
<td>31</td>
<td>5</td>
<td>16</td>
<td>10</td>
<td>0</td>
<td>100%</td>
</tr>
</tbody>
</table>

**School of Nursing-Kochi**

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Distinction %</td>
</tr>
<tr>
<td>B. Sc Nursing</td>
<td>79</td>
<td>1.2</td>
</tr>
<tr>
<td>Post Basic B. Sc Nursing</td>
<td>19</td>
<td>5.2</td>
</tr>
<tr>
<td>M. Sc Nursing</td>
<td>36</td>
<td>2.7</td>
</tr>
</tbody>
</table>

**School of Pharmacy-Kochi**

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Distinction %</td>
</tr>
<tr>
<td>B.PHARM</td>
<td>I Yr</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>II Yr</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>III Yr</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>IV Yr</td>
<td>48</td>
</tr>
<tr>
<td>Pharm.D(R)</td>
<td>I Yr</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>II Yr</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>III Yr</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>IV Yr</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>V Yr</td>
<td>28</td>
</tr>
<tr>
<td>Pharm.D(PB)</td>
<td>I Yr</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>II Yr</td>
<td>10</td>
</tr>
<tr>
<td>M.Pharm Pharmaceutics</td>
<td>I Yr</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>II Yr</td>
<td>4</td>
</tr>
<tr>
<td>M.Pharm Pharmaceutical Chemistry</td>
<td>I Yr</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>II Yr</td>
<td>1</td>
</tr>
<tr>
<td>M.Pharm Pharmacy Practice</td>
<td>I Yr</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>II Yr</td>
<td>10</td>
</tr>
<tr>
<td>M.Pharm Pharmacology</td>
<td>I Yr</td>
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**School of Dentistry-Kochi**
<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
<th>Distinction %</th>
<th>I %</th>
<th>II %</th>
<th>III %</th>
<th>Pass %</th>
</tr>
</thead>
<tbody>
<tr>
<td>I BDS</td>
<td>76</td>
<td></td>
<td>2.63</td>
<td>36.84</td>
<td>25</td>
<td>14.47</td>
<td>78.94</td>
</tr>
<tr>
<td>II BDS</td>
<td>70</td>
<td></td>
<td>4.28</td>
<td>24.28</td>
<td>32.85</td>
<td>14.28</td>
<td>75.71</td>
</tr>
<tr>
<td>III BDS</td>
<td>62</td>
<td></td>
<td>1.69</td>
<td>22.88</td>
<td>38.98</td>
<td>11.01</td>
<td>74.57</td>
</tr>
<tr>
<td>IV BDS</td>
<td>118</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDS</td>
<td></td>
<td>Exam in progress</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DDM</td>
<td>8</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

**School of Business-Kochi**

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
<th>Distinction % (&gt;8 TGPA)</th>
<th>I %</th>
<th>II %</th>
<th>III %</th>
<th>Pass %</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA</td>
<td>36</td>
<td></td>
<td>3</td>
<td>12</td>
<td>16</td>
<td>5</td>
<td>100</td>
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</tbody>
</table>

**School of Arts & Sciences-Kochi**

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
<th>Distinction %</th>
<th>I %</th>
<th>II %</th>
<th>III %</th>
<th>Pass %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013 Bachelor of Computer Applications (BCA)</td>
<td>87</td>
<td></td>
<td>22 (25%)</td>
<td>39 (45%)</td>
<td>NA</td>
<td>NA</td>
<td>15 (17%)</td>
</tr>
<tr>
<td>2013 Bachelor of Commerce (B.Com.)</td>
<td>68</td>
<td></td>
<td>22 (32%)</td>
<td>29 (43%)</td>
<td>NA</td>
<td>NA</td>
<td>10 (15%)</td>
</tr>
<tr>
<td>2013 Bachelor of Business Administration (BBM)</td>
<td>30</td>
<td></td>
<td>11 (37%)</td>
<td>7 (23%)</td>
<td>NA</td>
<td>NA</td>
<td>6 (20%)</td>
</tr>
<tr>
<td>2013 Bachelor of Science (Visual Media)</td>
<td>28</td>
<td></td>
<td>15 (54%)</td>
<td>10 (36%)</td>
<td>NA</td>
<td>NA</td>
<td>1 (4%)</td>
</tr>
<tr>
<td>2013 Int. MA (Exit Option)</td>
<td>4</td>
<td></td>
<td>1 (25%)</td>
<td>3 (75%)</td>
<td>NA</td>
<td>NA</td>
<td>NIL</td>
</tr>
<tr>
<td>2013 Master of Computer Application (MCA)</td>
<td>53</td>
<td></td>
<td>13 (25%)</td>
<td>22 (42%)</td>
<td>NA</td>
<td>NA</td>
<td>18 (34%)</td>
</tr>
<tr>
<td>2014 Master of Commerce (Finance and Systems)</td>
<td>28</td>
<td></td>
<td>9 (32%)</td>
<td>11 (39%)</td>
<td>NA</td>
<td>NA</td>
<td>1 (4%)</td>
</tr>
<tr>
<td>2014 Master of Fine Arts (Animation and Content)</td>
<td>22</td>
<td></td>
<td>10 (45%)</td>
<td>10 (45%)</td>
<td>NA</td>
<td>NA</td>
<td>NIL</td>
</tr>
</tbody>
</table>
School of Arts & Sciences-Mysuru

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Distinction %</td>
</tr>
<tr>
<td>MCA</td>
<td>72</td>
<td>31</td>
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<tr>
<td>M.Com</td>
<td>18</td>
<td>22</td>
</tr>
<tr>
<td>BCA</td>
<td>78</td>
<td>18</td>
</tr>
<tr>
<td>BBM</td>
<td>33</td>
<td>27</td>
</tr>
<tr>
<td>B.COM</td>
<td>30</td>
<td>37</td>
</tr>
</tbody>
</table>

School of Education-Mysuru

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Distinction %</td>
</tr>
<tr>
<td>B.Ed</td>
<td>98</td>
<td>66.32</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

Amrita Centre for Nanosciences and Molecular Medicine

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Distinction %</td>
</tr>
<tr>
<td>M.Tech Nanomedical Sciences</td>
<td>12</td>
<td>9</td>
</tr>
<tr>
<td>M.Tech Nanotechnology and Renewable Energy</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>M.Tech Molecular Medicine</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>PhD</td>
<td>51</td>
<td>NA</td>
</tr>
</tbody>
</table>

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.

School of Education:
- Procurement of Lab Materials
- Common Resources – Computer Lab
- Procurement of Library Books
- Feedback at the end of each semester.
- Reflections and analysis of the feedback
- Follow-up work after analysis of the feedback
- Staff Professional development programmes.
- Curriculum Revision for 2 Year B.Ed. programme
- IQAC supports the school keeping spiritual backdrop it visualises teacher education programme in such a way that it provides the enrolled personality and professionally relevant experiences that enable students to enhance their competencies and skills to become wholesome, sensitive teachers

School of Nursing:
- Ensures that the teaching learning process is implemented strictly as per the INC norms and regulations.
  - Delivers the teaching learning contents as per the course requirement; unit and lesson plans.
  - Implements clinical experience in accordance with the requirement
  - Plans assignments as per the INC guidelines and skill requirement.
- Selection and organization of learning experience through feedback obtained from the students, alumni, Parents and teachers.
- The guidelines put forth by IQAC along with INC influence the overall quality of the teaching learning-structure, process and outcome
- The periodic assessment by the IQAC helps to monitor the teaching learning activities.

School of Pharmacy:
- Online Faculty feedback is collected from the students. Faculty Evaluation report is collected and evaluated.
- Teacher training programme was conducted from 9th to 13th June, 2015

2.13 Initiatives undertaken towards faculty development

<table>
<thead>
<tr>
<th>Faculty / Staff Development Programmes</th>
<th>Number of faculty benefitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresher courses</td>
<td>51</td>
</tr>
<tr>
<td>UGC – Faculty Improvement Programme</td>
<td>1</td>
</tr>
<tr>
<td>HRD programmes</td>
<td>54</td>
</tr>
<tr>
<td>Orientation programmes</td>
<td>209</td>
</tr>
<tr>
<td>Faculty exchange programme</td>
<td>13</td>
</tr>
<tr>
<td>Staff training conducted by the university</td>
<td>96</td>
</tr>
</tbody>
</table>
2.14 Details of Administrative and Technical staff

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Permanent Employees</th>
<th>Number of Vacant Positions</th>
<th>Number of permanent positions filled during the Year</th>
<th>Number of positions filled temporarily</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Staff</td>
<td>489</td>
<td>0</td>
<td>24</td>
<td>4</td>
</tr>
<tr>
<td>Technical Staff</td>
<td>536</td>
<td>1</td>
<td>60</td>
<td>5</td>
</tr>
</tbody>
</table>

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 compromising 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.

• **School of Education, Mysore:**
  o Procurement of Journals
  o Provision to attend Seminar / Conference / Workshop
  o Flexibility in Time-Table, Formation of TAG
  o Internet accessibility continued.
  o Facilitate to complete Author AID Research writing Online course.

• **Amrita Centre for Nanoscience and molecular medicine**
  Personal research mentoring of every single student, Six monthly evaluations, Publication emphasis

• **School of Nursing:**
  • Promote faculty projects through institutional SEED grants.
  □ Two faculty projects are in the consideration of institutional research committee for the SEED grant this year.
  • Initiatives have been taken to give financial grants for faculty student projects.
  • University plans bear the publication charge for the SCOPUS indexed journals.
  • Publication of group research by undergraduate students made compulsory before the completion of the course.
  • Decided to conduct individual research studies by under graduate students from next academic year onwards.
  • Individual/group research by faculty is made mandatory by the university and specified for promotions.

• **School of Pharmacy:**
  • IQAC encourages the Faculties in various research activities like sending the proposals for funded projects.
  • Encourage M.Pharm students to publish their thesis work after submission.

• **School of Ayurveda:**
  • Started pg programmes
  • Started PhD programme.
  • Encouraged the faculty & PG students to have more publications

**Amrita school of Business, Bangalore:**

1. Faculty are encouraged to engage in research activities.
2. An MBA thesis component has been introduced into the curriculum which will build research
cultural and encourage students to pursue research.

Faculty members writing research papers with students and students are encouraged
presenting these papers in Conference

Amrita School of Engineering, Coimbatore:

ECE
- To initiate Research Motivation in Undergraduate Students, Workshops are conducted to Third
  year students, on research, and how to undertake Project Work.
- Encourage Faculty to take up High Impact Socially relevant research work
- Proposal for Integrated M.Tech in Communication and Signal Processing

CSE
All the faculty members of the department are associated with one of the following thrust area groups:
1. Biometrics
2. HCI (Human Computer Interaction)
3. Image Analysis and Pattern Recognition
4. Computer Vision for Medical Imaging
5. Multimedia Signal Processing and Security
6. Multidimensional Data Analytics
7. Evolutionary Computation
8. Next Gen Computing
9. Data Analytics
10. Information Security
11. Predictive Analytics and Internet of Things
12. Machine Learning

The role of thrust area group includes the following:
- Writing research proposals.
- Regular meetings were conducted to discuss on technology and project/product initiatives and
  solutions
- Guiding student projects in the corresponding area.
- The progress of the group is reviewed by a committee on regular basis.

MECH
Encouraging faculty and students to explore their research findings in participating in conferences.
Special leaves are sanctioned for both students and faculty to present their research outcomes in
national/international conferences
Motivating the students to take innovative research work as a minor project in the lower semester itself
and guiding them properly to publish their work in conferences/journals.
Motivating faculty and students to actively take part in Curricular/Co-curricular/Extra curricular
activities.

CEN
Conducting number of workshops for students to update their knowledge. Submitting research proposals
to the different funding agencies

School of Business, Kochi:
- Linking quality of publications to faculty appraisal and career development
- Mandatory independent study course for students to promote research
- Grading of independent study course linked to publication
3.2 **Details regarding major projects**

<table>
<thead>
<tr>
<th></th>
<th>Completed</th>
<th>Ongoing</th>
<th>Sanctioned</th>
<th>Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>32</td>
<td>100</td>
<td>31</td>
<td>153</td>
</tr>
<tr>
<td>Outlay in Rs. Lakhs</td>
<td>1859.7329</td>
<td>6064.10907</td>
<td>1783.03423</td>
<td>16188.04939</td>
</tr>
</tbody>
</table>

3.3 **Details regarding minor projects**

<table>
<thead>
<tr>
<th></th>
<th>Completed</th>
<th>Ongoing</th>
<th>Sanctioned</th>
<th>Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>6</td>
<td>73</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Outlay in Rs. Lakhs</td>
<td>9.65</td>
<td>43.756</td>
<td>0.19</td>
<td>25.60</td>
</tr>
</tbody>
</table>

3.4 **Details on research publications**

<table>
<thead>
<tr>
<th></th>
<th>International</th>
<th>National</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peer Review Journals</td>
<td>725</td>
<td>81</td>
<td>20</td>
</tr>
<tr>
<td>Non-Peer Review Journals</td>
<td>6</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>e-Journals</td>
<td>92</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Conference proceedings</td>
<td>568</td>
<td>99</td>
<td>1</td>
</tr>
</tbody>
</table>

3.5 **Details on Impact factor of publications: (amrita school of dentistry)**

Range: 0 – 13.1

Average: 0.7

h-index: 

Nos. in SCOPUS: 347

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

<table>
<thead>
<tr>
<th>Nature of the Project</th>
<th>Duration Year</th>
<th>Name of the funding Agency</th>
<th>Total grant sanctioned</th>
<th>Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major projects</td>
<td>25894.92559</td>
<td></td>
<td>3747.74</td>
<td></td>
</tr>
<tr>
<td>Minor Projects</td>
<td>20.655617</td>
<td></td>
<td>12.63300</td>
<td></td>
</tr>
<tr>
<td>Interdisciplinary Projects</td>
<td>83.052</td>
<td></td>
<td>11.484</td>
<td></td>
</tr>
<tr>
<td>Industry sponsored</td>
<td>183.05084</td>
<td></td>
<td>20.1770</td>
<td></td>
</tr>
<tr>
<td>Projects sponsored by the University/ College</td>
<td>130.255</td>
<td></td>
<td>8.9435</td>
<td></td>
</tr>
<tr>
<td>Students research projects <em>(other than compulsory by the University)</em></td>
<td>0.1</td>
<td></td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Any other(Specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>7387.128</td>
<td></td>
<td>3801.078</td>
<td></td>
</tr>
</tbody>
</table>
3.7 No. of books published

i) With ISBN No. 11

Chapters in Edited Books 60

ii) Without ISBN No. 2

3.8 No. of University Departments receiving funds from

- UGC-SAP 1
- CAS
- DST-FIST 6

- DPE
- DBT Scheme/funds 5

3.9 For colleges

- Autonomy
- National
- UGC-ST, CAS, DST-FIST

- INSPIRE
- DBT Scheme/funds

- CE
- DBT Star Scheme

- Any Other (specify)

3.10 Revenue generated through consultancy: 210000

3.11 No. of conferences organized by the Institution.

<table>
<thead>
<tr>
<th>Level</th>
<th>International</th>
<th>National</th>
<th>State</th>
<th>University</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>10</td>
<td>9</td>
<td>2</td>
<td>5</td>
<td>22</td>
</tr>
</tbody>
</table>

- DST-SERB, IIT-Bombay, KTH, SWEDAN, CTS, IBM, St. Ambrose University
- USA, EMC, KSIDC, ICREST, KCCI, IACC, CMRL

- National Commission for Women

- Kerala Child Right Observatory

3.12 No. of faculty served as experts, chairpersons or resource persons: 152

3.13 No. of collaborations

- International 28
- National 41
- Any other 14

3.14 No. of linkages created during this year: 35

3.15 Total budget for research for current year in lakhs:

- From Funding agency**: 1765.714
- From Management of University/College: 322.26125

Revised Guidelines of IQAC and submission of AQAR
** Amount is research funding ongoing + research funds sanctioned during the year

3.16 No. of patents received this year

<table>
<thead>
<tr>
<th>Type of Patent</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
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<td>International</td>
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<td>Applied</td>
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<td>Granted</td>
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<td>Applied</td>
<td>15</td>
</tr>
<tr>
<td>Granted</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Total</th>
<th>International</th>
<th>National</th>
<th>State</th>
<th>University</th>
<th>Dist</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>78</td>
<td>30</td>
<td>40</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

<table>
<thead>
<tr>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>197</td>
</tr>
<tr>
<td>467</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>59</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>JRF</th>
<th>SRF</th>
<th>Project Fellows</th>
<th>Any other</th>
</tr>
</thead>
<tbody>
<tr>
<td>44</td>
<td>39</td>
<td>40</td>
<td>25</td>
</tr>
</tbody>
</table>

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  

Total 2087.9752
3.24 No. of Awards won in NCC:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
<th>National level</th>
<th>International level</th>
</tr>
</thead>
</table>

3.25 No. of Extension activities organized

<table>
<thead>
<tr>
<th>University forum</th>
<th>College forum</th>
<th>NCC</th>
<th>NSS</th>
<th>Any other</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>180</td>
<td></td>
<td></td>
<td>29</td>
</tr>
</tbody>
</table>

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

**School of Arts & Sciences-Amritapuri**
As part of our chancellor AMMA’s 101- village adoption programme, across different villages all over India, our students visited several villages in the country, stayed there and identified the problems associated with the villagers, provide solutions to the potential problems associated with them.

**School of Biotechnology-Amritapuri**

.Sadgamaya (August 5-6, 2015)
A student personlaity development camp was conducted for the First Year UG Students on August 5 & 6, 2015 at Amrita School of Biotechnology.

To give a very brief intro to the SADGAMAYA camp, it began in 2013 June and in the last two years, delivered its contents to more than 6000 students.
There are the 5 sessions planned to be taken for the students(details given below), also with a small Introduction, Ice breaker and periodic energizers (games) in between all sessions to keep them spirited.
There shall also be a final conclusion session This one day camp shall cover topics on Mind management, cultivating values, inculcate patriotism

Modules of the Camp:

Session 1: "My Life" - There are two types of Education. The one that children get through schools and colleges and helps them earn a living – Education for living, while the other, the most important but often most uncared for – Education for life which helps them to live their life cheerfully. With mind blowing stories and real time examples, the first session is going to teach them how to lead a happy life. Mind, the
root of all happiness and sorrows, how to manage it, is a principal part of this session. Also they will be taught the importance of loving respecting our parents, doing meditation etc (briefly) in order to expand their happiness to the society.

Session 2: "Values in Life" - Most of the problems that we see around us are the consequences of a degenerated value system. This session inspires them with living examples of common men who lived their whole life displaying values like service to the society, honesty etc. Augmented by videos, the session, for sure will drive them to live a life with ideals.

Session 3: "Glorious past of India" - Oh what a wonderful land we are born into! But unfortunately most Indians are ignorant of her contributions to the world. This session brings in light the contributions of our motherland in all fields of science, technology, literature, education, arts and so on.

Session 4: "Invasions" : What happened to such a great country? The story of invasions will take them through the painful plight of our motherland under the clutches of many a foreign rule. The real history what they wouldn't have learned much through their history text books shall be explored here..

Session 5: "Freedom struggle and the revival of India" : The struggle for freedom shall be portrayed here through inspiring real time examples. Also the re-emergence of India to the leading power position after the freedom struggle. Concludes at a point asking them to live for country..

- Chennai Rains Relief work (December, 2015)

As a support to the rehabilitation and relief efforts in Chennai after the devastation brought out by unprecedented rains at Chennai, student Volunteers from Amrita University, Amritapuri Campus especially Amrita School of Biotechnology, AYUDH, Amrita Sanjeevani were in action along with devotees under the leader ship of Amma's senior disciple Swami RamkrishnandaPuri and Swami AbhayamrithaChaitanya, the COO of Amrita University.

Food & Relief Materials was packed from Amrita University, Ettimadai Campus everyday to reach Chennai. The paramedical team and the Tele-Medicine unit from Amrita Institute of Medical Sciences (AIMS, Kochi) conducted Medical Camps around the city. AYUDH also sent volunteers and a truck of relief materials from Amritapuri. Volunteers helped Ashram's rehabilitation work round the clock in Chennai spear-headed by Swami RamakrishnandaPuri, BrahmachariAbhayamritaChaitanya, BrahmachariVinayamritaChaitanya, BrahmachariAjamritaChaitanya&BrahmachariGuruprasadChaitanya.

AYUDH, a youth initiative at Amritapuri setup a 3 day collection drive from 7-9 December 2015, collecting some clothes, essentials, food and drinking water for those who have been staying in the shelter homes and public places. Amrita School of Biotechnology students actively contributed and helped in the Flood Relief efforts of Amrita Institutions. The Students & Faculty team packed and distributed relief material in Chennai, Cuddalore and Pondy.

- AmalaBharatham Clean Up Drive (January, 2016)

In celebration of India’s 67th Republic Day with the spirit of selfless service, reflecting a strong patriotic spirit towards our motherland India, Amrita Sanjeevani organized the AmalaBharatham Clean Up drive at Karunagappally Hospital, Kollam. The students and faculty did the cleaning of
the hospital premises, along with renovating their garden and painting the hospital wheelchairs, shelves and hospital trip stands.

- **Sanskar 2016: “Smile, Share, and Serve” (February, 2016)**

Inspired from our Chancellor, Amma on “Education for life”, First year students participated value and cultural education classes, in order to learn about how to live an enriched life that is beneficial to society.

As a part of their cultural education class, the first year students of Amrita School of Biotechnology coordinated Sanskar, a charity fundraiser benefitting the children at the Paripalli orphanage located near the school. Sanskar included hand-made crafts and mehendi stalls, a game zone, and a two-part onstage production: Gananjali and Nritanjali. Gananjali, a musical program, exhibited the talents of the ASBT students. Nritanjali, the finale of Sanskar, was a collage of both North and South Indian dance forms. This Kathak and Bharatanatyam infused performance told many well-known tales of Krishna. Highlights included Krishna portrayed as the beloved of the Gopis, Kaliyamardhana – the destroyer of the serpent king, Kaliya, and the great charioteer during the Battle of Kurukshetra.

Following Sanskar, the students had the opportunity to visit the Paripalli orphanage to offer the proceeds from the fundraiser and spend the day with children.

**Innovative practices introduced:**

- **“CREATOME”- Consortium of Creativity**

Amrita School of Biotechnology launched a Consortium of Creativity - “CREATOME”, a cornucopia of creativity and ideas. A student driven club that acts as a platform to showcase the fabulous array of talents that the students of our department possess. We have 7 wings – Performing Arts, Non-Performing Arts, Literature, Sports, Multimedia, Science, Values for Life that broadly represent most of the activities that take place at ASBT. Creatome hopes to inspire creativity, ingenuity, team spirit and individuality in our students and help our students prepare to take on the big world, confidence in themselves and their abilities.

- **ASBT Observes International Day of Women and Girls in Science**

The 11th of February 2016 was the first ever International Day of Women and Girls in Science, declared by the UN in order to promote and encourage a larger number of women to take on careers in the fields of Science, Technology, Engineering and Medicine (STEM fields).

The program began with the problems faced by women being highlighted, along with examples of various women who have overcome these problems to become successes in their respective fields. These examples included Marie Curie, the first woman Nobel Prize winner and the first person to win the prize twice, as well as Rosalind Franklin and Ada Lovelace.

This was followed by a quiz styled on the game show Jeopardy, where questions were on the basis of women in the scientific community and their achievements. The quiz had a special round that included questions about the scientific achievements of the women who are a part of Amrita School of Biotechnology as well.

The hour long session also had a few short inspirational videos showcasing women in science, the difficulties they faced and their eventual rise in their respective fields. The day proved to be quite an eye
opening for many among the audience, including both men and women, as to the realities and battles that most women and girls in science have to wage to achieve their dreams.

Magician Mr. Pramod Kerala is famous for his fire escape magic performance with the highest number of obstacles. Mr. Pramod is also a contestant in UgramUjjwalam, a talent show, aired on a television channel, MazhaviManorama. He has performed spectacular stunts like driving during rush hour traffic, blind folded and with both his hands tied to the steering wheel for 1Km! Mr. Pramod was kind enough to entertain the students and staff of Amrita School of Biotechnology as a part of celebrating the first ever International Day of Women and Girls in Science

**Ayurveda-Amritapuri**

**School of Engineering-Bangalore**

Joy of Giving, Servicing old age home & Orphanages

**School of Engineering-Coimbatore**

ECE

**Training program on Women Entrepreneurship through Electronics**

a. Date: 19th March 2016
b. Number of Members: 35
c. Objective of the workshop: Empowering the rural women with technical knowledge, to bring them awareness about the need of entrepreneurship
d. Speakers Included: Guest Dr. Nagalingam Professor MSW Amrita VishwaVidyapeetham, Dr. M. Nirmala Devi , Professor, ECE Department, Amrita VishwaVidyapeetham and Executive committee member IETE Coimbatore Centre, Sri. N. Sreenivasan ,Canteen In charge, Amrita VishwaVidyapeetham, and Mr. Utharakumar, staff of AV-School
e. Topics covered included:
   i. LED Bulb Manufacturing
   ii. Honey Bee cultivation
   iii. Scope of getting financial support from various areas and the marketing for their products
f. Workshop was inaugurated by the chief guest Dr. Nagalingam Professor MSW Amrita VishwaVidyapeetham, Dr. M. Nirmala Devi, Professor, ECE Department, Amrita VishwaVidyapeetham and Executive committee member IETE Coimbatore Centre.
g. Organized by AMETS Amrita ECE Technical Staff Sahayog, Mr. N. Prabhu, Ms. R. Smitha, Ms. R. Sudha, Mr. B. Chandrasegharan Nair, , Mr. S. Velmurugan, Mr. Dinesh Kumar and Ms. L. Aswathi

This program was organized jointly by AMETS (Amrita ECE Department Technical Staff Sahayog) and AMRITA ECE REACHE (Rendering Educational Assistance for Children) with the financial support from Amrita VishwaVidyapeetham and IETE Coimbatore Centre, a one day workshop on empowering the rural women with technical knowledge, to bring them awareness about the need of entrepreneurship.

**CSE**

- Department of CSE visited schools in C.G.Pudhur, Muruganpathy, Chinnampathy, Puthupathy and Ettimadai on 05th November 2015 by 20 faculties 36 students. The team conducted competitions for the children, distributed sweets, lunch and gifts, dresses, books and instructional materials.
• A team of CSE department students and faculty members visited the orphanage Helping Hearts home of Children and elder people on February 14th 2016. The team played and interacted with the inmates and served the food for the day. The team also discussed with the manager to know their need like beds, bedspreads, grocery items, sports accessories which was bought and handed over to them with the funds received from Pradnya group.

MECH

Students involved in Chennai flood relief activities in December, 2015

A visit is made and survey is taken to assess the living style of the ettimadai village for further development of people through sustainable technological development.

MSW

• Department of Social Work and Students Affairs conducted an awareness programme on mental health in the university on 10/10/15. A flash mob and mime was enacted by the students and handouts were distributed to the participants.
• District Child Protection Unit (DCPU) in association with world vision organized an awareness programme on child rights on 14/11/15 in the Coimbatore Railway Station. The students performed a Street Play on the occasion.
• District Child Protection Unit in association with world vision organized an awareness programme on child rights on 19/11/15 in the VOC Park Grounds. The students performed a Mime on child abuse on the occasion.
• Eleven MSW students volunteered in the Chennai Flood Relief work from 11th to 16th Dec 2015 organised by Amrita University Mata Amritanandamayi Math and AIMS hospital. Two MSW students volunteered for Chennai Flood need assessment survey in association with SevaBharathi Organization from 22nd to 26th Dec 2015.
• The dept. of social work closely works with Amrita SeRVe project, AMRITA Center for International Programs (ACIP) and Amrita Multi Modal Applications and Computer Human Interaction (AMMACHI Labs) Ammachi lab and ACREATE.

School of Business-Coimbatore

• More than 10 students went to the village nearby called Ettimadai under the supervision of a faculty member every weekend to offer tuition to the need village children.
• Around 35 first year MBA students had visited the Akshaya Trust old age home in Madurai founded by the world famous social entrepreneur Mr. Narayanan Krishnan in March, 2016
• All the 128 first year students went to various villages in different parts of the country for a week to 10 days as a part of the Live In Labs (LILA) module of the curriculum.

School of Dentistry, Kochi

• Participation in the Flood Relief operations at Chennai in the month of December 2015
• The annual denture camp Amritasmitham 2015 was conducted from September 1st to September 4th, 2015. Free dentures were provided for 62 patients.
• Tobacco cessation Centre was set up at the dental school. The activities in the dental school were able to strengthen the exiting Anti-Tobacco Movement in Amrita (ATMA) in health care campus.
• Oral health awareness and free treatment at special schools adopted by institute.
• Many outreach dental camps organised by the institution

**College of Nursing-Kochi**

• The department of college of nursing and Community Medicine from School of Medicine AIMS jointly organised a training of trainers programme for tribal health workers- Certificate Course For Community Health Worker -Amrita SwasthyaMitr from 27th January 2016 To 15th February 2016. Amrita SeRVe (Amrita Self Reliant Villages) is an initiative of Mata Amritanandamayi Math (MAM) by adopting 101 villages throughout India with the aim of helping them become self-reliant and thriving. The overall development of these villages is the goal of the programme, health being an integral part of development.

• Topics like anthropometric assessment, monitoring vital signs, and basic skill in communication, stress management, health education and first aid for emergencies were covered. The response from the participants was good.

• The final year BSc Nursing students continue to have the community health activities for the tribal population at Wayanad – Health screening for communicable and non-communicable diseases, screening of under-five children and participation in the health camps.

• Conducted various clinics – under five, elderly, family welfare at NayarambalmPanchayath, Ernakulam.

• Conducted school health programmes at various schools at NayarambalmPanchayath, Ernakulam and Koilandy, Kozhikode.

• Participated in the health camps conducted by AIMS.

• Students participated in walkathon at AIMS as a part of world Alzheimer’s Day organised by the Mental Health Nursing department.
• Participated in the Seva day at Amritapuri in association with Amma’s Birthday celebrations.
• Participated in AmalaBharatham cleaning campaign.
• Facilitates observation visits regularly from Nursing students and faculty from college in and outside the state.

**Amrita Centre for Nanosciences and Molecular Medicine**

• Seminars with theme on Research Methodology and Research Ethics
• Study tour with visit to other research institutions
• Seminar and workshop on Meditation and Cultural Education

**School of Education-MYSURU**

• AmalaBharatham Campaign
• Visit to AIISH to make students to get exposure about special education.
School of Pharmacy – Kochi

- Extemporaneous Drug Preparations (AIMS & Amrita Kripa Charitable Hospital, Wayanad)
- AmalaBharatam Campaign (ABC) : Students actively participate in Amalabharatam cleaning campaign at AIMS, local premises in Ernakulam district and Sabarimala temple
- Medical Camp : Students actively participate in medical camps conducted by Amrita hospital at various locations.

- Pharmacy week celebrations :
  - As a part of National Pharmacy week celebration, patient counseling was conducted at Primary Health centre, Edappilly High school in which around 200 patients participated.
  - Street plays on rational drug use was conducted at Amrita Vidyalayam school, AIMS hospital.

- Monthly distribution of Rice & gram:
  - Students and staff actively participate in the monthly distribution of rice, grains and other essential provisions to 20 families in nearby areas.

School of Business-Kochi

- MBA first year students went to Thattekad bird sanctuary as invited guests of forest Dept, Govt of Kerala, They could really study the details there and had a very enriching experience. They prepared short essays of their experiences during the trip. The best among them were given gifts by Mathrubhoomi.
- MBA second year students carried out an access audit in EKM South JN station twice and EkmTown(North) and Edapally Stations to estimate the real needs of physically challenged persons who travel by rail. This data was used to prepare a detailed memorandum that was submitted to honourable central minister of railways Sri. Suresh Prabhu requesting modification of facilities in railway station across India to suit the needs of the differently able population of India.
- MBA second year students visited (with necessaries needed by inmates) govt. old age home and govt. home for disabled ladies. The inmates there were very happy with the time our students spent with them and gifts our students gave.
- MBA first year students gathered with record speed of few hours, many things-they spent money and bought things-sent them to Chennai, as a help when flood submerged Chennai.
- On Dec 3rd which is heralded as the world disabled day, MBA students served as volunteers in servicing food etc to around 250 disabled children and their parents who gathered for a day of togetherness at changampuzha park and also @lulu mall our students did the service with so much dedication that everyone present there marked deep appreciation. This is the 5th consecutive year of this dedication.
- Students helped in hosting an ONAM lunch for around 150 HIV/AIDS infected people of different age groups belonging to Ernakulam Dist.
• Students helped to provide groceries for 5 families in and around Edapally area.

**School of Arts and Science-Kochi**

1. “Fog” a ten minutes short film was produced by 6th semester B.Sc. Visual media students, with an aim to create awareness on diabetic retinopathy among general public. This was done as part of diabetic day activities at Amrita Institute of Medical Sciences.

2. Students of B.Sc Visual Media presented various programs on All India Radio for the program ‘Yuvavani’24th August 2015. Programme was broadcast on 8th and 15th October 2015. HarithaThamban, sixth semester student of the department was interviewed in the Yuvavani programme of All India FM Radio. She was selected for the interview for her unending passion towards dance. The programme was aired on 18th Feb, 2016.

3. ‘Lore’, a short film made by the video production team of B.Sc. Visual Media 2013 batch got shortlisted into the best films category in the prestigious ‘Nottam’ short film festival jointly organized by Information and Public Relations Department of Government of Kerala and C-DIT. Out of the 242 entries, and 400 delegates, the short film LORE was shortlisted among the best 36 films..The team of nine students, had the privilege to compete with highly experienced professionals from the industry and also to interact with them. The team got special mention from the organizers since they were the only educational institution team qualified for the competition.

4. Picasso day was celebrated in the college on 27th October, 2015. A painting theatre conceived and performed by veteran artist Sri. Kaladharan, the guest of honour was held in the college auditorium. The function was attended by honoured guests Sri. Ajoy, renowned Animator and Sri. BinurajKalapeetham renowned Documentary film maker.

5. The third semester B.Sc. Visual Media students participated in a three day wildlife camp (29th to 31st October, 2015) in Parambikulam Wild Life sanctuary. A three day camp (3rd to 5th November, 2015) to Thekkadi was also held for PG students.

6. PG students participated in a three day wildlife camp (3rd to 5th November, 2015) in Thekkadi Wildlife sanctuary.

7. Students of B.Sc visual media (video production) produced ‘Wastages’, a social awareness video, as part of film festival based on Swatch Bharat Campaign.

8. Inter district quiz program for differently abled students.
Criterion – IV
4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

<table>
<thead>
<tr>
<th>Facilities</th>
<th>Existing</th>
<th>Newly created</th>
<th>Source of Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus area (acres)</td>
<td>1000</td>
<td>--</td>
<td>--</td>
<td>1000</td>
</tr>
<tr>
<td>Class rooms</td>
<td>395</td>
<td>20</td>
<td>AMRITA</td>
<td>415</td>
</tr>
<tr>
<td>Laboratories</td>
<td>209</td>
<td>9</td>
<td>AMRITA</td>
<td>218</td>
</tr>
<tr>
<td>Seminar Halls</td>
<td>46</td>
<td>1</td>
<td></td>
<td>47</td>
</tr>
<tr>
<td>No. of important equipments</td>
<td>118</td>
<td>112</td>
<td>Funding agencies and University</td>
<td>5 equipments worth 15 Lakhs</td>
</tr>
<tr>
<td>purchased (≥ 1-0 lakh) during the current year.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value of the equipment purchased during the year (Rs. in Lakhs)</td>
<td>621.66019</td>
<td>350.48938</td>
<td>Funding agencies and University</td>
<td>972.149</td>
</tr>
<tr>
<td>Others</td>
<td>Workshop: 3</td>
<td>Drawing Hall: 1</td>
<td>Computer Centre: 4</td>
<td></td>
</tr>
</tbody>
</table>

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 and dental administration system. Efforts are being made to implement Electronic medical record (EMR) so as to make the dental school paperless with respect to patient records.

MEDICAL COLLEGE:
We have a Hospital Management System (HIS) and dental administration system. An academic portal called Amrita Vidya enables the parents and students to know about the academic details at any point of time. All the departments and library are networked via intranet. Efforts are being made to implement Electronic medical record (EMR) so as to make the dental school paperless with respect to patient records. The school also has a digital library.

4.3 Library services:

<table>
<thead>
<tr>
<th></th>
<th>Existing No.</th>
<th>Existing Value</th>
<th>Newly added No.</th>
<th>Newly added Value</th>
<th>Total No.</th>
<th>Total Value</th>
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<tbody>
<tr>
<td>Text Books</td>
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<td>3850867</td>
<td>228629</td>
<td>70891209</td>
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<td>Reference Books</td>
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4.4 Technology upgradation (overall)

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<td>139</td>
<td>35</td>
<td>413</td>
<td>1679</td>
<td>227</td>
</tr>
</tbody>
</table>

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)

- Amrita Centre for Nanoscience and Molecular Medicine:
  Server, intranet, and internet access provided to all Faculty and Students. All research and academic data regularly updated on the allotted shared folder.

4.6 Amount spent on maintenance in lakhs:

i) ICT & Equipments 82.612

ii) Campus Infrastructure and facilities 429.540

iii) Equipment 33.150

iv) Others 19.5011

Total: 564.8

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 redress all 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.

• School of education:
  o Providing Placement Services
o Training them to face interviews
o Communicative English classes
o Online Lab Usage & Language Lab (Amrita English Language Lab)
o Induction Programme for the fresher’s
o Alumni meet- Quantity enhancement and constructive feedback

- **Amrita Centre for Nanoscience and Molecular Medicine:**
  All students informed about mental health support and career counselling.

**Amrita School of Nursing:**

- Formulated various student clubs such as yoga club, gardening club, Music club and dance club at school level. These groups were formed to enable the students to have a more focused approach to life situations and personal development.

- Conducted various sessions by expert resource persons from outside like session on Life Goals by Dr. Razeena Padmam, former HOD, School of Behavioural Sciences, MG University, Kottayam

- Session on Cyber Issues by Mr. Francis Perera, retired CI, Cyber Cell, Kochi.


- Multiple Sessions on Environmental Studies by Mr. Thomas Sajan, Social Worker

- Symposium on antiragging by Dr. B Umadethan Prof. Dept of Forensic Medicine AIMS and Ms. Anjana Balakrishnan, Asst. Manager, Law, AIMS.

- Anti ragging measures are insisted in the college; anti ragging squad is constituted; squad visits the hostel for a period of one to two months after the admission of the First year B Sc Nursing students and ensures that no attempts of ragging takes place in the hostel.

- Contact no. Of all the members of the anti ragging squad is displayed n the notice boards of the college and hostel. Students are informed that they can contact these members in case of any issues.

- Student counselling cell helps the students to discuss the personal and professional problems and takes appropriate action.

- Parent teacher executive committee meets periodically to discuss the student welfare issues.
  
  o Assigned teachers as student mentors who meet the students regularly and discuss issues if any and provide direction and advice on important matters.

  o Class committee meetings are held with the entire students of a batch to address the issues of all the students.

  o Suggestion box is placed in the college where students can drop in any issues. The
box is under the custodianship of the Principal of the College.

- Provisions are made for participation in extracurricular activities like arts and sports through Student Nurses Association (SNA) at Zonal, State and National Level.

**School of Pharmacy:**

- Invited talks by experts are conducted regularly.

- Soft skill training sessions are conducted regularly for outgoing B.Pharm, M.Pharm and Pharm.D(PB) students where the students are trained by conducting mock interviews, development of communication skill, group discussions etc.

- Students are encouraged to present posters in seminars and conferences.

- Industrial visits to various Pharmaceutical companies like Ranbaxy etc.

- Seminars and workshop was also conducted this year.

**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

**School of education:**
- Performance in the Periodicals
- Attendance Maintenance
- Guidance and Counselling from Teacher Educators to students
- Continuous Evaluation
- Organizing Cultural Activities
- Life skills - SUPW
- Enhancement of social managerial skills
- Celebration of National and local important days.

- Amrita Centre for Nanoscience and Molecular Medicine:
  - Six monthly evaluations for PhDs and monthly evaluations for MTech students.
  - Maintaining a quality databook.

**School of Pharmacy, Kochi:**
Industrial Institution Interaction and Placement Committee has been constituted to keep track of the placement and industrial recruitment of students.

Novo Nordisk India Pvt. Ltd. as conducted campus interview and 5 students have been shortlisted as marketing executive.

SGN Group of Companies conducted campus interview for B.Pharm final year students and 12 students were selected.

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<tr>
<th>5.3 (a) Total Number of students</th>
<th>UG</th>
<th>PG</th>
<th>Ph. D.</th>
<th>Others</th>
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<tbody>
<tr>
<td></td>
<td>11768</td>
<td>3368</td>
<td>464</td>
<td>340</td>
</tr>
</tbody>
</table>

| (b) No. of students outside the state | 2817 |
| (c) No. of international students | 7 |
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 VishwaVidyapeetham”, 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 encourage the students to appear for GATE, GRE, TOEFEL, Tancetetc 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.
- Amrita University has initiated this year the Amrita Civil Service Academy (ACSA) to provide coaching to the students for civil service examination
- Soft skill training
- Communicative skills training
- Content enrichment classes
Amrita Centre for Nanoscience and Molecular Medicine:
Student-faculty interaction facilitated for students requiring additional help with subjects

No. of students beneficiaries 4196

5.5 No. of students qualified in these examinations

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<th>Examination</th>
<th>Number</th>
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<tr>
<td>SET/SLET</td>
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</tr>
<tr>
<td>GATE</td>
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<tr>
<td>CAT</td>
<td>81</td>
</tr>
<tr>
<td>IAS/IPS etc</td>
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<tr>
<td>State PSC</td>
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<tr>
<td>UPSC</td>
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<tr>
<td>Others</td>
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</table>

5.6 Details of student counselling and career guidance

- **School of Education, Mysore:**
  - Institution shows concerns for the students’ progression to higher studies and to a teaching career as well as their retention in it.
  - Career and academic counselling will be given by teacher educators
  - Head of institution counsels students’ related to both scholastic and co-scholastic areas

- **Amrita Centre for Nanoscience and Molecular Medicine:**
  - Periodic discussion with students about opportunities
  - Help in placements

**School of Nursing, Kochi:**

- The college has a student counselling cell headed by faculty specialized in Mental Health Nursing and other selected teachers as members.
- Committee meets at the beginning of the academic year and as and when necessary.
- The teacher counsellors meet students on every other Wednesdays and as and when the student requires counselling services.
- Students who require special attention of the Psychologists will be referred to the Clinical Psychology of Department of AIMS.
- Documents of the counselling sessions are maintained by each teacher counsellor and kept confidential.
- No career guidance is given

No. of students benefitted 4906
5.7 Details of campus placement

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<tr>
<th></th>
<th>On campus</th>
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<td>Number of Organizations Visited</td>
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<td>1699</td>
</tr>
<tr>
<td>Number of Students Participated</td>
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<td>637</td>
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<tr>
<td>Number of Students Placed</td>
<td>637</td>
<td>88</td>
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</table>

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.

School of Ayurveda:
Separate counselling for girl students. Anti –Ragging committee and Grievance redressed committee handle gender related issues.

School of Education, Mysore:
- Women’s day celebration
- Organisation of activities-
- special talk on women empowerment,
- role play on female foeticide,
- Skit on gender discrimination.

Amrita Centre for Nanoscience and Molecular Medicine:
- Cultural education program in place
5.9 Students Activities

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

<table>
<thead>
<tr>
<th>Level</th>
<th>State/University</th>
<th>National</th>
<th>International</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sports</td>
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<td></td>
</tr>
<tr>
<td>State/University</td>
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<td>15</td>
<td>50</td>
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<tr>
<td>National</td>
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<tr>
<td>International</td>
<td>50</td>
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<td></td>
</tr>
</tbody>
</table>

No. of students participated in cultural events

<table>
<thead>
<tr>
<th>Level</th>
<th>State/University</th>
<th>National</th>
<th>International</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cultural</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State/University</td>
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<td>21</td>
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</tr>
<tr>
<td>National</td>
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</tr>
<tr>
<td>International</td>
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<td></td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Level</th>
<th>Sports</th>
<th>Cultural</th>
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<tbody>
<tr>
<td>State/University</td>
<td></td>
<td></td>
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<tr>
<td>National</td>
<td>37</td>
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<tr>
<td>International</td>
<td>58</td>
<td>21</td>
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</tbody>
</table>

5.10 Scholarships and Financial Support

<table>
<thead>
<tr>
<th>Source</th>
<th>Number of Students</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Financial support from institution</td>
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<td>702750</td>
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<tr>
<td>Financial support from government</td>
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<tr>
<td>Financial support from other sources</td>
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</tr>
<tr>
<td>Number of students who received International/National recognitions</td>
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</tr>
</tbody>
</table>

5.11 Student organised/initiatives

<table>
<thead>
<tr>
<th>Initiative</th>
<th>State/University</th>
<th>National</th>
<th>International</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fairs</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>106</td>
</tr>
<tr>
<td>Exhibition</td>
<td>13</td>
<td>2</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

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
- Students and staff regularly distribute rice, gram to 20 poor families every month in neighbouring villages.
- Distributed note books, pencil box, school bag to children before the commencement of their next academic year.
- As part of Pharmacy week celebration, conducted Patient counselling at primary health centre and performed Street plays on rational drug use on various parts of the city.
- Students and staff regularly distribute rice, gram to 20 poor families every month in neighbouring villages.
- Distributed note books, pencil box, school bag to children before the commencement of their next academic year.
- As part of Pharmacy week celebration, conducted Patient counselling at primary health centre and performed Street plays on rational drug use on various parts of the city.

5.13 Major grievances of students (if any) redressed: ___________7_______________________
Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

<table>
<thead>
<tr>
<th>Vision</th>
</tr>
</thead>
<tbody>
<tr>
<td>We envision a world endowed with the wealth of knowledge and the strength of discrimination (Viveka).</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Mission</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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-to-day 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
School of Dentistry:

The dental school curriculum is developed in accordance with the mission and vision of the institution and also as stipulated by the Dental Council of India (DCI). Various international, national, and state university curriculum’s were referred while designing. The curriculum also takes into consideration the changes in the oral health care needs and dental education.

School of Education:

- Women’s day celebration
- Organisation of activities-
  - special talk on women empowerment,
  - role play on female foeticide,
  - Skit on gender discrimination.

Centre for Nanoscience and Molecular Medicine:

Annual review of curricula and revision every 2-3 years

School of Business, Amritapuri:

Inclusion of ICS component with credit – enhancing the analytical skills of students by getting them to do some research that leads to a publishable paper

School of Ayurveda, Amritapuri:

- In addition to the syllabus & the curriculum design by the Apex body, the school added the following for the quality improvement
  I. Guest lectures by eminent personalities
  II. Addition of Assignments, Presentation by students

School of Business, Bangalore:

Ensure regular Course feedback from Students. All the internal faculty members take regular course feedback on their course outlines from fellow academics to improve their courses. Students give feedback to the faculty at the end of every course which is shared with them. This also helps them to improve their course delivery. Every year, a fresh course outline is submitted for every course before the beginning of the term. All the course outlines are scrutinized by the PGP Committee continuously to ensure their quality and currency. Courses are assessed by the students via a Course and Faculty Feedback Form. Broadly the feedback is given in the following criteria: Course Content, Course Delivery, Opportunity for Participation Faculty – Student Relationship Overall effectiveness and quality of the Course

School of Engineering, Coimbatore:

- AERO- Once in 5 years
- ECE- Introduction of Open Lab in Syllabus 2015
- MECH- Preparation of new regulation and syllabus for 2015 admissions B.Tech
- ASCOM- Yearly once the BOS meets and review the curriculum
- MSW- Every 2 years the MSW curriculum is improved. The last revision was in 2014-15

School of Business, Kochi:

- Course syllabi are reviewed every year by course specific instructors. Elective courses are reviewed by the areawise faculty and this is ratified by the departmental PGP committee. For new
electives, the same procedure is followed after which the course codes are generated from the Coimbatore campus.

- This year a curriculum revision exercise is on with representatives from all campuses to come up with more robust course outlines.

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 background 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

School of Education:
Rigorous Training on Skill Development

- Technology Oriented Training
- Analysis on Video-recorded class room interactions
- O-Lab and Language Lab(AELL) – Workshop
- Usage of smart board
- Reflections on general themes through discussions and seminars

Centre for Nanoscience and Molecular Medicine:
Inclusion of societal and product development strategies.

School of Nursing:

- Undergraduate students are posted continuously for one shift to ensure continuity in care and also to provide more patient focused care which suits the academic level of the students.
- Post Basic and M Sc Nursing students are given independent patient care assignments to improve competence.
- Clinical rotation plans are prepared based on the INC specification and changes are made to ensure the practice of clinical oriented nursing skills in the beginning of an academic year after getting the feedback from students and faculty.

**School of Business, Amritapuri:**

1st year students did a project along with Japanese students to understand the challenges of rural life.

**School of Ayurveda, Amritapuri:**
- More skill based classes
- Preparation of Medicine in large quantity by the students

**School of Business, Bangalore:**

1. Orientation Program: 2 weeks orientation program for the new batch.
2. Orientation Program provides fundamental courses required for MBA. Students from different educational background gain knowledge out this orientation program.
3. We have Add-on and Enrichment courses for wholesome learning experience. We do offer AUDIT courses in the second year to gain additional knowledge, Interactive sessions with industry experts.
4. Master thesis implementation: To ensure and enhance the research among the students

**School of Engineering, Coimbatore:**

ECE - Theory courses are associated with lab components to give hand on experience. All courses are under OBE

**MECH**

Faculties are encouraged to attend faculty research fellowship programs at premier institutions.
- Mr. Arun.A attended summer faculty research fellowship program (SFRF-2015) at IIT-Delhi from 1/6/15 to 9/7/15.
- Ms. ParvathyUnnikrishnan attended summer faculty research fellowship program at IIT-Bombay, conducted by Indian Academy of Science from 10/5/15 to 8/7/15.
- The weightage of the marks is given to the students who participated in various technical events such as Supra, Baja etc.,

**ASCOM** - Encouraging our faculty to attend training/short term course from professional bodies

**MSW**

Prepared the required teaching aids/materials as per the course plan. The students are encouraged to recap on the topics taught already. The class room teaching was supported by fieldwork practice for better learning if the students. Role play and group presentation models were also adopted.

**School of Business, Kochi:**

- More cases and activity based learning introduced, more application oriented questions introduced for evaluation.
• Industry experts brought in to interact with the students.
• Data analysis based projects and assignments given across courses

### 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.

School of Dentistry:
Amrita School of Dentistry strives to make the teaching and learning as student friendly as possible. We conduct regular teacher evaluation by the students and necessary action is taken accordingly.

Amrita Centre for Nanoscience and Molecular Medicine:
Continuous evaluation and shift to open ended questions.

6.3.4 Research and Development

In an effort to further enhance the research structure and output, the university initiated the formation of Thrust 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.

School of Dentistry:

We have a research wing in the dental school to promote research activities. Classes are conducted on research methodology for the faculty and students to inculcate research mindset. Of late there has been special emphasis in encouraging undergraduates to take up research activities. Monetary incentives have been provided to get the research work published.

School of Education:

*Provision for Faculty to complete Author AID Research writing online courses
*Incentives for the faculty to motivate them to publish in the Scopus indexed journals
*Payment of publication processing charges in the scopus indexed journals

Amrita Centre for Nanoscience and Molecular Medicine:
Increased emphasis on publications, patents and productization in R&D

School of Nursing:

• Research is made compulsory for the faculty, UG and PG students

• Ensures research publication before the completion of the UG and PG programmes

• Publication of the M Sc theses and UG research project reports is made mandatory for all before the University examination

• More number of group projects is initiated for the UG programme.

• Plan has been made to conduct individual projects by all UG students from next academic year and to start in the third year of study.

• Initiates researches by faculty and students with the financial help of
institutional seed grants.

- Obtained sanction for seed grant for two projects and institutional grant for five faculty student projects.

### 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.

#### School of Dentistry

We have a well-equipped central library apart from individual libraries in the departments. We also have a digital library with good number of computers and e-journals. The college functions in a building with 1, 52,000 sq.ft. area with most modern equipment. All the departments are connected by intranet and have internet facility.

### 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 campus has a centralized human resource department which monitors the working atmosphere of the faculty and staff. Feedbacks are taken periodically so that the appropriate work culture is maintained. The institute has a well monitored biometric identification system.
• 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.
• Orientation is given to all teaching and non teaching staff.
• Faculty are sponsored for attending two national/ International conferences.
• A few faculty members are supported by the transportation, computer and accommodation facilities.
• Festival loan is given to non teaching staff.
• Training pertaining to BLS course and fire and safety is given to all the staff.
The campus has a centralized human resource department which monitors the working atmosphere of the faculty and staff. Feedbacks are taken periodically so that the appropriate work culture is maintained. The institute has a well monitored biometric identification system.

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.
• Faculty student Ratio of 1:10 is maintained
• The faculty and staff are recruited based on merit. The institute has staff from different parts of India
• Assessment of knowledge and attitude and commitment as part of evaluations

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

Industry experts are frequently called to take classes on specific topics in their areas of expertise. They are also invited on a regular basis to deliver our well known Colloquium series lectures. On an average, one or two such lectures are organized every week of a regular term. This helps us to build and maintain strong ties with the industry and also gives practical exposure to our students. There is a Corporate and Industrial Relations Department which supports us in placing our students both for the summer internship projects and the final placements. We started to conduct functional area specific summits where we invited senior experts from industry and academia to interact with members of the academic and
industrial fraternity around Coimbatore. Two such summits were held last year in the areas of Marketing and Human Resource Management respectively.

**School of Business-Amritapuri**
Colloquiums attended by students where the speakers are national and international leaders from various industries or corporations. These colloquia also focus on the "soft" aspects of management particularly ethical perspectives and societal concerns.

**School of Engineering-Coimbatore**

**CSE**
1. TCS- TRDDC
2. VDime Innovative Works Limited (1000lookz) – 4 projects
3. Amrita e-learning Research Centre
4. PRaDA labs Deakin

**MECH**

<table>
<thead>
<tr>
<th>S.N o.</th>
<th>Title of the Project</th>
<th>Agency</th>
<th>Starting Date</th>
<th>Project Duration (Year)</th>
<th>Fund Sanctioned (Rs)</th>
<th>Principal Investigator</th>
<th>Co Investigator’s</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Development of Laser Surface Texturing technology for automotive application</td>
<td>DSR - TSDP (ARCI Project)</td>
<td>26.02.2016</td>
<td>3 year</td>
<td>40,40,000/-</td>
<td>Dr.Ravi Bathe, Scientist, ARCI</td>
<td>Dr.G.Padmanabhan (Associate Director, ARCI), Dr.S.Thirumalini</td>
</tr>
</tbody>
</table>

**MSW**
The dept. of social work had a very good interaction with social welfare organisations, hospitals and corporate initiated welfare projects. The students are placed in those organisations for fieldwork practice and the resource persons from those organisations are invited to the dept. for sharing their experiences with the students.
- Total Number of MoUs / NDA – 35
- Inplant Training – 900 [Summer + Final Semester]
- Guest Lectures – 28
- FDP – 9
- Visit by Corporate Delegates to CIR – 32

**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**
- 12 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 some room for networking.
• Alumni were also invited to be part of some courses to give students an actual industrial perspective.

School of Arts & Sciences-Kochi

• M.Sc Computer Science students had a visit to AIMS Kochi as a part of industry visit.
• Industrial internships for students with CUMI and famous industries.

School of Education, Mysore
Collaboration with schools and other Universities

School of Dentistry–Kochi
Clinical trials are being conducted and efforts are being made to have interaction and collaboration with the industry.

School of Pharmacy - Kochi
Final year students were taken to various Pharmaceutical Companies like Ranbaxy Industrial interaction through invited talks by eminent personalities in Industry.
A committee IIIPC is constituted to initiate Industry collaboration and Mou is initiated. Training of M.Pharm students is also initiated Training of M.Pharm is also initiated with Orchid Pharma, Chennai.

Amrita Centre for Nanoscience and Molecular Medicine-Kochi
More industry participation in research activities

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)

❖ School of Dentistry: We have a centralised system for admitting the students and the admissions are purely on the basis of an all India entrance examination conducted by the university.

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 VishwaVidyapeetham University for MBBS/MD/MS/DM/M.Ch./PG Dip and through written test or interview for all other programmes.

### 6.4 Welfare schemes for

<table>
<thead>
<tr>
<th></th>
<th>Teaching</th>
<th>Non teaching</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Non teaching</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students</td>
<td>Yes</td>
<td></td>
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</tbody>
</table>

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
School of Nursing:

<table>
<thead>
<tr>
<th>Teaching</th>
<th>Non teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Medical insurance for the employee</td>
<td>• For employee drawing salary below Rs. 15,000/- per month, medical facilities are free.</td>
</tr>
<tr>
<td>• For employee drawing salary above Rs. 15,000/- per month, an amount of Rs. 2,000/- for medicines and Rs. 1000/- for medical investigations and they are eligible for free IP treatment as per their insurance scheme.</td>
<td>• For employee drawing salary above Rs. 15,000/- per month, an amount of Rs. 2,000/- for investigation and Rs. 1000/- for medical investigations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Students</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>• Conducts annual medical check up (at the time of admission and every ear)</td>
<td></td>
</tr>
<tr>
<td>• Medical insurance coverage of Rs. 30,000/- every year for inpatient care.</td>
<td></td>
</tr>
<tr>
<td>• Hepatitis B vaccination before the students are sent for clinical postings</td>
<td></td>
</tr>
<tr>
<td>• Maintains health record for individual students</td>
<td></td>
</tr>
<tr>
<td>• Appointed a teacher as health in charge for a group of students.</td>
<td></td>
</tr>
</tbody>
</table>

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done

- Yes  
- No

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

<table>
<thead>
<tr>
<th>Audit Type</th>
<th>External</th>
<th>Internal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes/No</td>
<td>Agency</td>
</tr>
<tr>
<td>Academic</td>
<td>Yes ✔</td>
<td>NAAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kerala Nurses and midwives council, Indian nursing Council inspections</td>
</tr>
</tbody>
</table>
6.8 Does the University/ Autonomous College declares results within 30 days?

<table>
<thead>
<tr>
<th>Administrative</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAAC Kerala Nurses and midwives council, Indian nursing Council inspections</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

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. University goes for continuous assessment and open ended

- **ASAS-MYSORE**
  
  i) Question papers for periodical tests are generated using a software to maintain confidentiality and whetted by a panel ensuring the standard of question paper.
  
  ii) Reviewing 25% of the answer scripts and retotaling of marks in every paper rule out any possible human error in evaluation

AMRITA SCHOOL OF DENTISTRY: The exam pattern is in accordance with DCI norms. The college has made all the possible steps to improve quality of evaluation.

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 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.

School of Nursing:
- Quarterly Alumni executive committee meeting and an Annual Alumni reunion are conducted.
- The Alumni Executive Committee has been strengthened with representatives from each batch.
- An official email ID has been created for better interactions with the alumni and clerical staffs is assigned to track the progression.

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

School of Education, Mysore:
- Alumni help us in getting admissions
- Welcome programme by the Alumni
- Active participation during orientation programme organised for the fresher’s
- Alumni rendered demonstration lessons
- Alumni those who are working in practice in teaching schools are coordinating and facilitating students during their practice classes
School of Engineering, Coimbatore:

ASCOM
Assist in promoting
Assist in placement
Acting as positive role models to current students.

MSW
The annual general body meeting of the Alumni association was attended by MSW alumni members and shared their experiences with the current students. After the general body meeting, all the alumni members were introduced to the Amrita Connect website and the members registered their names.

- Alumni Association Annual Meet Conducted on 20th December 2015
- Mentoring of Final year students done by Alumni.
- Alumni conducted a Boot Camp for Final Year students.
- Alumni also helped in connecting Industries to Amrita.

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.

School of Dentistry:

Parents are free to contact the institutional authorities with regard to any issue faced by their wards and prompt remedial measures are initiated.

School of Engineering, Coimbatore:

There were informal interactions between the parents and the teachers regarding the support & progression of their respective wards in academic & personal aspects.
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.

Amrita School of Dentistry
- Training is given in yoga and meditation to relieve the stress.
- Training in Basic Life Support, Fire and Safety.
- Medical reimbursement for investigations.
- Provision of free vaccination.

School of Engineering, Coimbatore:

MECH
- Provision to attend faculty development programmes, workshops, conferences etc., for knowledge update
- Conducted on hand training program on CNC Machining Centre Programming and operations
- Conducted training program on flow and level process control system in Instrumentation Laboratory

MSW
- Technical training like computer skills and AUMS were conducted at school level.

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

School of Arts & Sciences-Amritapuri
1) Waste water treatment plants are there and treated water is used for watering plants.
2) Switching over to solar power.
3) Water and Energy auditing.
4) Planting trees in the campus.
5) Promotion of vegetable garden in the campus with the help of students, faculty and ashramites.
6) Vishuthaineettam - a campaign asking everyone to gift saplings of vegetables and trees.

7) Establishment of bottle gardens

8) Separate bins are kept in the campus for segregating waste

9) Solid waste collection, segregation and management of solid wastes

10) Preparation of value-added products from waste materials

11) 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
- Students/faculty/staff were encouraged to be part of various 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 and LEDs
- Minimize use of air conditioners

Plantation
- Large scale tree plantations within campus and in neighbouring villages were initiated

Hazardous waste management
- The only hazardous waste that we generate is, from the chemicals that are used during the regular lab experiments. These chemicals are collected in separate containers and discharged at the engineered land sites or collected for appropriate disposal by authorised agency.

School of Business-Amritapuri

Actively participated in AmalaBharatam programmes

School of Ayurveda-Amritapuri

Green & Clean Campus

School of Engineering-Bangalore

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

School of Engineering –Coimbatore

1. Sewage water is recycled and used for watering plants in garden and orchards.
2. Sewage water recycled, filtered and used to flush toilets
3. Rain water harvested from roof top is collected in huge tanks and is used for watering plants, supplied to residents in campus for use in washing and bathing

College of Nursing-Kochi

Arranged ten hours on Environmental studies by internal and external experts.

The nature club ‘Harithamritham’ by the First year B Sc Nursing students takes care of the plants after their regular class hours.

Planting of saplings in connection with Environment Day
College and Campus cleaning by students.
Participation in ‘Amalabharatham’-a cleaning drive initiated by Math.
Observes World Environment Day

**School of Pharmacy-Kochi**
- Students and staff planted Medicinal plants in the College premises.
- Environment Science is a part of the curriculum.

**School of Dentistry- Kochi**
- The Institution has a central waste management system which is of international quality.
- The institution also has an excellent water treatment plant
- Every year saplings are distributed free of cost and staff are encouraged to make the campus eco-friendly.

**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.

**Amrita Centre for Nanosciences and Molecular Medicine – Kochi**
- Amalabharatham - an initiative by the Chancellor of the University to clean campus surroundings
- VishuThaiNeettam – an initiative by the Chancellor of the University to plant saplings and grow vegetables

**School of Arts & Sciences-Kochi**
- SEED Programme in collaboration with MATHRUBHUMI .
- Organic Farming.
- Eco Friendly Cultivation.
- Effluent Treatment.
- Regular Waste Removal System.
- Water Purifying Plant.
- Composite Manure Plant.

**School of Arts & Sciences –Mysuru**
Rain water collection points helping increase the water table.
Maintaining greenery in the campus.
Careful disposal of garbage.
School of Education-Mysuru

- Greenery across the campus
- Regular maintenance of the garden
- Conducive environment across the campus
- Provision for Rain water harvesting
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**

<table>
<thead>
<tr>
<th>Innovation</th>
<th>Outcome</th>
</tr>
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<tbody>
<tr>
<td><strong>State-of-the-Art Technologies &amp; Innovations</strong></td>
<td><strong>Google Product Prodigy (75 participated)</strong>&lt;br&gt;<strong>GETVU ($25,000 award money + internship at SFO, US)</strong></td>
</tr>
<tr>
<td>- Identify students with potential in coding/designing and development of software who are waiting to exhibit their technical talents.&lt;br&gt;- Encouraged them to participate in national and international projects contests.</td>
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</tr>
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</table>

| Contribution to Computing Community | |
| - Created an awareness on open source by conduct of workshop/ training to students<br>- Motivated them to solve open issues/bugs in open source tools<br>- Develop tools using open source platforms for the computing community | **Google Summer of Code (5 students)**<br>**GlitterGallery tool for Graphics design – SaroopBanskota<br>Fire Fox - Mozilla Developer (5 students – SaroopBanskota<br>GardenCity Ruby Conf 2014, introduction to GlitterGallery<br>Mysore Ruby meetup 2014, introduction to the Grit ruby library<br>FOSSASIA 2014, Getting started with FOSS techniques<br>FOSSASIA 2014, Bringing GlitterGallery into Fedora<br>Libre Graphics Meeting 2014, Taking the designer's office online<br>EuroPython, Berlin** |

| Exploring Research | |
| - Identified students who have interest/potential in research<br>- Associated them with research labs of the department<br>- Co-work with researchers/ JRFs/ PG research scholars<br>- Summer & Winter in-house internship projects | **Research Publications .<br>Presented work/papers in<br>AdhocNow-2014, Spain<br>Asian Summer School, Japan<br>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 posting in various departments provides opportunity for students to become competent clinical pharmacists.

School of Dentistry

• Commencement of Tobacco Cessation centre.
• Screening of educational movies.
• Introduction of Seminars related to basic sciences for the benefit of postgraduates.

School of Ayurveda

• Focus on project/case/problem based and experimental learning
• Freedom for the faculties to design & practice innovative teaching & learning process

School of Education, Mysore

➢ Communicative English classes to improve students communicative skills
➢ Initiations of Placement Activities
➢ Soft skill training
➢ Unique way of conducting prayer session
➢ Scope for exploring innovative and research in their respective subjects
➢ Updating knowledge in current affairs through bulletin board activities.

School of Business, Amritapuri

Introduced yoga sessions to make students better fit for classes and to develop a better mindset for life.

School of Business, Coimbatore

1. A 3 credit Live in Lab (LILA) component was added this year to the MBA curriculum from this year to give exposure about the rural sector to our students;
2. Course of Independent Studies (CIS) was another new innovation that was introduced this year. As a part of this, a student could choose a course of his/her choice in collaboration with any faculty member at the school subject to the faculty’s willingness to guide during the course.

3. A business analytics lab was started to complement the Business Analytics course that was introduced this year. Analytics is an emerging area in Management and this would help our students better equipped to tap the new opportunities emerging in this area.

**School of Arts and Science, Kochi**

A PR-campaign was done by students of visual media department, to assess and improve the general reading habit among students.

**School of Arts and Science, Mysore**

- Generation of question papers from a pool of question through a software has ensured objectivity and confidentiality.
- Review of answer scripts even of the periodical tests has brought in more transparency and eliminated the instances of human errors.
- Informing the parents in case of continuous absence of a student for more than three days has reduced the number of ineligible students to write the final exam due to attendance shortage.

**School of Engineering, Amritapuri**

‘Live-in Lab’ program provides students an experiential learning opportunity other than regular class hours. This program energies the students to work for societal benefits. This includes rural development activities like, rural electrification, water supply system in villages, Science workshop for school students and teachers, Mass cleaning, and Agriculture Gardening etc.

Our students are getting opportunity to work in funded research projects which is purely for societal benefits. The outcome of the student projects are directly implementing in the field and this will the increase morale of them.

TAG group formation and publishing papers from TAG groups.

Bridge Course for the BTech Students

Class committee meetings are conducted in the class rooms itself, in the presence of all students

Online videos lectures through A- View.

Game based approach for Life -Skill learning

Game based approach introduced computational principles to more than a hundred children across the length of India computational thinking and introduction to programming

AMMACHI Labs has devised an innovative training method for L&T construction institutes

The Green Campuses Initiative encourages all Indian educational institutions to pay special attention to the areas of waste, energy, water, building technologies & landscaping and make a firm commitment for achieving sustainability. The mission of this project is to imbibe values of environmental protection and a sustainable development among the students.

Nanosciene:

1. Building of a GMP facility
2. Setting up of a Nude animal test facility and expanding the animal lab
3. Improved admin framework for lab testing services

School of Nursing:

- Taken initiative for more inter departmental collaboration.
  - Conducted two day conference on Organ Transplantation: Together, Towards Tomorrow in collaboration with various clinical departments like GI and Vascular surgery, Cardiovascular and Thoracic Surgery, Ophthalmology, Nephrology, HematoOncology, Head and Neck surgery, Kerala network for Organ Sharing, experts from other Nursing colleges outside the state and Nursing service department.
  - The conference enhanced the communication and co-ordination between the college and various clinical departments, Governmental organization, nursing institutions in and outside the state and nursing service departments within the organization.

- Arranged sessions on Environmental Studies, Fundamental duties and responsibilities, Cyber crime, Antiragging
  - Helped sensitize the students regarding the duties which enable them to live in harmony with the co-fellows and be more environment and eco-friendly.
  - Helped the student to be more focussed and at the same time, divert their mind from the present day’s issues of the youth (if any).

- Started various student clubs like the Yoga, Music, Dance, Gardening, literary clubs.
  - Facilitated the students to exhibit their talents, and motivated evn the introvert student to participate.
  - Encourages more student participation in the activities
  - Helped to develop/refine leadership ability in the students.

- Started newsletter

- Increase the number of research and publication

  Research activities and publications are made compulsory for both the faculty and students and this has greatly increased the number of publications both by the faculty and students

School of Business, Bangalore:

1. Faculty have done Collaborative research work with students and published research.
2. Improved Integrated Performance recognition system (IPRS) for faculty appraisal in place with higher emphasis on research.

School of Engineering, Coimbatore

MECH

- Paper publication in International/National conference/Journal is mandatory for the award of distinction in both UG and PG curriculum.
- This initiative motivates the students to take their project in the prefinal year itself and enhancing the interaction between students and faculty.
- The various clubs such as Indian Welding Society, Society for Automotive Engineers, Association of Mechanical Engineers and Automation and robotics club run by the department gives current technological update to the students.
- Training sessions are conducted for laboratory classes for weak students to enable them to have a clear understanding of the concepts.
- Training sessions are also conducted in various laboratories for Technical lab staff in emerging areas which makes them to help the students in a better way during laboratory sessions.
- Offering a number of electives from advanced fields of engineering based on the interest of the student.
- Offering remedial courses for weak students to enable them to clear the subjects

ASCOM
Sending PG students to Amrita Television channel for fortnight to gain hands-on experience of functioning of the Television channel

MSW
The students were encouraged to do more number of extension activities and improved their participation in MAM’s other initiatives like ACIP, Amrita Create &LiL.

CEN

1. Frequent Internal workshops on latest development in Technology by the internal faculty rather than inviting external faculty. (Internal faculty knowledge update is ensured by the methodology).

2. New innovation pedgogy from world No: 1 Institute in Technology like MIT is absorbed into the teaching method of CEN. Mainly, the concept “Inverted Lab” and “Flipped class room” are being introduced .In “Flipped classroom” video materials and other learning aids are given in advance for the discussion in the classroom.

In Inverted lab experimental Lab/ objects are given in advance to the students so that they can do the experiments from home/hostel. (Parrot drones, RTLSDR, Toy cars Arduino, Rasrsperrypi ). The material prepared by MIT will act as the base material for further innovation and research.
3. CEN is participating in conducting “Shared tasks” organized by internationally well known Institutions in India and abroad. The preparation of the material for the shared task is done with the help of students. This gives them an International outlook and also opportunity to work with International experts.

4. Many new labs are created based on the funds from projects. Students are involved in developing the lab.

**School of Management, Kochi:**
- Upgrading the summer internship presentation to a guided industry readiness programme supported by the entire faculty body
- Inclusion of parents in the mentoring programme.

### 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-curricular activities.

**Amrita School of Biotechnology – Amritapuri**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>A fully equipped and functional Sanitation Biotechnology and Cell Biology research labs</td>
<td>1. The research output and findings helped the investigators to also secure an Indo-Canadian project (IC-IMPACTS) on Water Sanitation worth Rs. 38.48 Lakhs.</td>
</tr>
<tr>
<td></td>
<td>2. The researchers were able to submit five research grant proposals to various funding agencies with an estimated amount of 728.8 Lakhs.</td>
</tr>
<tr>
<td></td>
<td>3. The other achievements include 10 B.Sc. dissertations, 7 M.Sc. theses, 14 poster presentations, 2 invited talks at the national level and 5 international presentations.</td>
</tr>
<tr>
<td>Modification of UG Physics, Chemistry Labs to provide additional space as facilities</td>
<td>With the change, more number of students could be accommodated simultaneously to perform lab-related activities.</td>
</tr>
</tbody>
</table>

**Amrita School of Ayurveda – Amritapuri**
- The authority has applied for PG and faced inspections from the Apex Body to get the approval for PG Programmes
- Proper Actions have been taken to improve the infrastructure
Amrita School of Business – Bangalore
Infrastructure: New Space given for ASB staff and faculty at 6th floor

Amrita School of Business – Coimbatore
1. The PMS was restructured with adoption of ABDC (Australian Business Deans’ Council) approved journals as our benchmark for faculty publications.
2. All the course outlines were monitored. They were submitted in time with clearly laid out course objectives and evaluation criteria.
3. The suggestion was implemented by all the faculty members.
4. The main outcomes of this review process are: introduction of fractional credits, student tutorials as well as courses in the area of Business Analytics to strengthen our curriculum in alignment with the industry trend.

Amrita School of Pharmacy – Kochi
1. Improve Institution Industry Interaction: IIIPC committee (Industry Institution Interaction & Placement Committee) was constituted last year. This major activities carried out by the committee include:
   • 12 invited talks of various expertise every month for the students
   • Presentations at different schools & Colleges to promote admission
   • Visited various Pharmaceutical Industries for Mou for student training & placement.

Amrita School of Dentistry – Kochi
1) Definite improvement in the patient satisfaction levels in many of the departments.
2) Research methodology workshop conducted. Undergraduate students and interns encouraged to take up research and papers being prepared for publication.
3) More seminars, lectures in basic sciences, continuing dental education programmes conducted. Increased participation from postgraduates in outreach programmes
4) Students were given opportunity to take part in more field activities.
5) Educational movies were screened. Efforts were made to instil values. Soft skill training is given to students.
6) Tobacco cessation cell was set up. Post graduates were trained in tobacco cessation activities and students were sensitized about the ill effects of tobacco. Improvement in outreach activities.

School of Nursing, Kochi:
☐ Conducted two day National Conference on Organ Transplantation: Together, Towards Tomorrow
☐ Increased the number of publications in indexed journals.

Amrita School of Business – Kochi
• To consolidate the student activities:
The student activities were better organized. A handing over was formally done by the second year students and committees were formed. For the most significant committees, formal selection process with faculty involvement was undertaken.

- Student activities included: Forum activities, Niyukti (Placement committee), Colloquium, Asthra, Omkara, Alumni relationship, library and social outreach.

- To further improve the efficiency of the examination process.
  - Refer sec 6.9

- Improve physical infrastructure:
  - Library expansion: A better equipped and more spacious library and reading room have been set up
  - Elective room: One seminar room and an elective room have been added

Amrita School of Arts & Sciences – Kochi

Action plan taken with well-prepared academic calendar, staff delegation

Amrita School of Arts & Sciences - Mysore

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>To work towards introducing new PG programmes in the Dept. of Visual Communication</td>
<td>Three PG programmes are introduced in the Dept. of Visual Communication to be commenced from 2016 onwards.</td>
</tr>
<tr>
<td></td>
<td>Two Faculty Members with Ph D are appointed.</td>
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<tr>
<td></td>
<td>A broadcast quality audio visual studio is setup with the following features:</td>
</tr>
<tr>
<td></td>
<td>- Sony 4k Cameras</td>
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<tr>
<td></td>
<td>- High End MAC Machine</td>
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<tr>
<td></td>
<td>- Powered Monitor Speakers</td>
</tr>
<tr>
<td></td>
<td>- Separate Audio-Video Suite</td>
</tr>
<tr>
<td></td>
<td>- High End Audio-Video Interface</td>
</tr>
<tr>
<td></td>
<td>- Fully Air-Conditioned Acoustic Cabins</td>
</tr>
<tr>
<td></td>
<td>- Professional Cameras and Mixers</td>
</tr>
<tr>
<td></td>
<td>- Audio Booth and Lighting Console</td>
</tr>
<tr>
<td></td>
<td>A dedicated lab exclusively for Visual Communication.</td>
</tr>
<tr>
<td><strong>• Appointing more faculty members with Ph.D qualification.</strong></td>
<td><strong>• Five Faculty members with Ph D qualification (Three in the Dept of Mgmt&amp; Commerce and Two in the Dept of Visual Communication) were appointed.</strong></td>
</tr>
<tr>
<td>---</td>
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</tr>
<tr>
<td><strong>• Vidyaanveshane</strong></td>
<td><strong>• Vidyanveeshane – a series of seminars and workshops to give an exposure to the students of all streams and all classes was conducted.</strong></td>
</tr>
</tbody>
</table>
| **• Extending Placement Assistance to UG programmes and inviting more companies to the campus.** | **• Placement assistance was extended to all UG students as well. A total of 233 offers were generated through over 20 companies visiting the campus.**
|  | This service was also extended to the students of other First Grade Colleges in and around Mysuru by conducting pooled recruitment drive. |
| **• Introduction of Yoga session for all classes.** | **• Yoga session was scheduled once a week in the time table for all classes.** |
| **• Introduction of Blazers for UG students.** | **• Introduction of Blazers for UG students.** |
| **• Request made to management for provision of a hall with a capacity of 300 for the conduct of Workshops and guest lectures etc.** | **• A multipurpose hall (Amritamayi) with a capacity of 300 was made available for the purpose in the new block which is also used for conducting yoga classes.** |
| **• Other infrastructural augmentation** | **• A new block is set up for placement and to facilitate visits of the recruiting companies.**
|  | **• A bakery is set up to provide students with fresh supplies.** |

**Amrita School of Education - Mysore**

- Providing Placement services
- Content Enrichment is the first step towards it
- Training Students- Mock interview, Communication skill
• Conduction of Campus Interview

Nanoscience:
1. Introduced strict lab safety measures
2. Introduced new standards for data documentation – digital and notebook based
3. Strict adherence to six monthly reviews

School of Nursing:
- Conducted two day National Conference on Organ Transplantation: Together, Towards Tomorrow
- Increased the number of publications in indexed journals.

School of Ayurveda, Amritpuri:
- The authority has applied for PG and faced inspections from the Apex Body to get the approval for PG Programmes
- Proper Actions have been taken to improve the infrastructure

School of engineering, Coimbatore:
**ECE**

<table>
<thead>
<tr>
<th>Plan of Action (As stated in Previous year IQAC report)</th>
<th>Achievements (At end of year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiate Research in Agriculture Electronics</td>
<td>Internal Seed Grant Rs.2.55 Lakhs - Received in January 2016</td>
</tr>
<tr>
<td></td>
<td>Received by Dr. C. Santhosh Kumar</td>
</tr>
<tr>
<td></td>
<td>Dr. K. I. Ramachandran</td>
</tr>
<tr>
<td></td>
<td>Mr. K. A. Pradeep Kumar</td>
</tr>
<tr>
<td></td>
<td>Mr. M. Ganesan</td>
</tr>
<tr>
<td></td>
<td>Mr. R. Gandhiraj</td>
</tr>
<tr>
<td></td>
<td>Project: Electromagnetic Studies on Coconut and Quality Evaluation by NDT Agency: <strong>ICAR</strong> Amount: Rs.17.6 Lakhs</td>
</tr>
<tr>
<td></td>
<td>Staff: Dr. M. Jayakumar, Sabarish Narayanan B Project Selected and Presented on October 2015.</td>
</tr>
<tr>
<td>To enhance Graduation of Ph.Ds</td>
<td>3 Scholars graduated from the department</td>
</tr>
<tr>
<td>Research Initiation in Automotive Electronics</td>
<td>M.Tech Automotive Electronics- Started in Collaboration with TCS.</td>
</tr>
<tr>
<td></td>
<td>Vehicular Electronics Lab – Funded by TCS Set Up: Academic Block II : C-103</td>
</tr>
<tr>
<td></td>
<td>Lab to be upgraded in the coming years.</td>
</tr>
<tr>
<td>No. of Research Proposal Submitted to external funding Agencies</td>
<td>14 Total Amount: Rs.5.6 crore</td>
</tr>
<tr>
<td>No. of research Proposals Sanctioned:</td>
<td>2 Amount: Rs.31.454 Lakhs</td>
</tr>
<tr>
<td>No. of Sponsored Workshops</td>
<td>2</td>
</tr>
</tbody>
</table>
Conducted - National Level

| ISRO: Rs. 45000 |
| DRDO: Rs.45000 |
| IETE: Rs.5000 |

**ASCOM**

PG students completed their training at Amrita Television and the feedback was excellent.

Introduction of new course (B.Sc. Visual Communication) – Action under progress

FDP – Action under progress

**School of Business, Kochi:**

- To consolidate the student activities:
  - The student activities were better organized. A handing over was formally done by the second year students and committees were formed. For the most significant committees, formal selection process with faculty involvement was undertaken.
  - Student activities included: Forum activities, Niyukti (Placement committee), Colloquium, Asthra, Omkara, Alumni relationship, library, social outreach.

- To further improve the efficiency of the examination process.
  - Refer sec 6.9

- Improve physical infrastructure:
  - Library expansion: A better equipped and more spacious library and reading room have been set up
  - Elective room: One seminar room and an elective room have been added

**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.

**Peer Evaluation in**

**Amrita School of Arts & Sciences, Amritapuri**

**Title of the Practice:** 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 Biotechnology, Amritapuri

- The School creates a unique environment for the student community such that they feel connected to the School and the faculty and staff members.
- The research oriented curriculum enables students to choose a more research-centric career.

Amrita School of Engineering, Amritapuri

Inter-disciplinary projects and Industry-based electives.

65% M.Tech VLSI of the final year MTech students got Internships in various companies like synopsis, Soctronicsetc which guarantees a job after that.

Lab FDP in the beginning of all semesters to get familiarised with all experiments by all faculty members

Project exhibitions based on final year project of B.Tech and M.Tech student and evaluation

Focused on getting Mtech RAU students involved in outreach activities such as conducting robotics workshops for rural schools in 4 schools in AP.

In Product Development Business Process (PDBP) we focus primarily on structuring technical activities from the initiation of development to launch. We advocate major advances on three fronts; first, implementing an end-to-end process from the front end through field operations, second, integrating
business considerations much better into the end-to-end process, and third, incorporating a performance improvement closed loop into the process.

It is designed to overcome the limitations of current PDPs. It has three differentiating characteristics:

1. End-to-end scope: It integrates a strategic front end and a field support back end with the product development core.

2. Integral business process: It is driven and governed by a corporate or business unit decision team that integrates business priorities throughout the end-to-end process.

3. Closed loop performance improvement: It is energized by a performance improvement closed loop that transforms business improvement requirements into business improvement initiatives. These initiatives or corrective actions close performance gaps and improve the performance of the entire system.

**Amrita School of Business, Coimbatore**

1. The six credit Business Research Project (BRP) module. As a part of this all the MBA students who do not take up a CIS course are required to pick a research topic and write an academic paper on that topic under the guidance of a faculty mentor assigned to them;

2. We have a six term core course dedicated to education for life component of our University’s mission called the Self Awareness and Personal Growth that also includes compulsory Yoga classes. Along with this we have a core course on Business Ethics and another core course on Environmental Management. We are perhaps one of the very few Business Schools with such a strong emphasis on values based education.

**Amrita School of Pharmacy, Kochi**

- Revised and updated curriculum
- Funded students projects
- Regular involvement in outreach activities
- Support for students for paper publication

**Amrita School of Dentistry, Kochi**

- Strong movement against the usage of Tobacco.
- Outreach programmes to serve the needy especially tribal population.

**Amrita School of Business, Bangalore**

- Excellent Teaching Pedagogy and curriculum practice.
- EMBA is one of the strength and Executive MBA students who are professional from the industry with more than 10 yrs experience.
- As a best practices faculty members are associated with students for project / conference / seminar. Students are presenting and publishing papers with faculty in conferences and journals.
- Colloquia Series
- Faculty are publishing in working Paper series and management encourage our faculty members and Doctoral students to come out with more research output
- Conducting value & skill oriented workshop for students on regular basis. **Excellent location**

**Advantage:** Dept of management have a location advantage for inviting guest speaker and visiting faculty
Amrita School of Business, Kochi
- Increasing student proficiency in Excel and other statistical packages like stata and R as it has been found to be an industry requirement
  - Use of Excel in Costing and Financial Modeling
  - Use of R in summer project analysis
- Student involvement in all departmental activities
- letters of appreciation given to deserving students who contributed to the institution in one way or the other

School of Education, Mysore
- Capacity building through various activities
- Skill development

Amrita School of Arts & Sciences, Kochi
- Extra mural lecture series and workshops by industry, academic experts.
- Industry visits
- Placement drives
- Parent counselling.

Nanoscience:
1. Product oriented R&D
2. Emphasis on spiritual awareness

School of Nursing:
- Change in the methods of teaching (more activity focussed Learning)
- Initiated more inter professional collaborative activities for faculty and students.

Amrita School of Business, Amritapuri
- Provide education for life besides an education for livelihood. Education for life prepares students to deal better with the world and their attitude.

7.4 Contribution to environmental awareness / protection

School of Dentistry:
Parents are free to contact the institutional authorities with regard to any issue faced by their wards and prompt remedial measures are initiated.

Nanoscience:
Sapling planting schemes
City clean up Seva

School of Nursing, Kochi:
- Arranged five sessions (10 hours) on Environmental studies by internal
and external experts

- Formulated nature club where a group of students under the guidance of faculty organize various activities to promote an environment/eco friendly atmosphere within the college premises.

- Observed World Environment day – Planting of saplings

- Ongoing awareness session about environmental sanitation and related topics in the selected community areas by the students and teachers

School of Ayurveda, Amritapuri:
- Encouraged plantation
- Started a project with the involvement of the students for the protection of the medical plants (Nakshatravana) the plants for each nakshatra is planted

School of Engineering, Coimbatore:

ASCOM

Students have produced documentaries related to environmental issues. Students are encouraged to submit their assignments as soft copies.

We are trying to reduce carbon footprints in the office

MSW

Tree plantation was conducted along with Amrita SeRVE

ENVIRONMENTAL DEPARTMENT

1. Play ground for children planted with lawn grass to prevent soil erosion by wind and water
2. Planted more than 100 trees in the campus as a part of campus greening activity
3. Two check dams were built across the streams running through the campus to prevent surface water runoff and thereby helping recharge of ground water

School of Business, Kochi:
Organized Asthra 2016 the flagship event of the department on the theme Green Energy for a Sustainable Future had many experts talking on various aspects of the theme. There was also a B Plan competition in which the winners were offered support from the TBI.

7.5 Whether environmental audit was conducted? Yes [ ] No [ ]

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

Strengths
• Research – frontier areas, socially impactful, aligned with national missions
• International presence and focus
• Good rapport with the local institutions and Universities.

Weaknesses
• Need to expand more in humanities and arts programs

Opportunities
• Leveraging high caliber researchers for more interdisciplinary projects
• Boosting social work programs to include more research output

Challenges
• Lack of adequate pool of high caliber applicants for research positions
• Delays in processing of funds (GATE scholarship, sponsored research funding, etc.)

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_ 

Signature of the Coordinator, IQAC

Name _ Dr. SriRam Devanathan_ 

Signature of the Chairperson, IQAC

Dr. SRIRAM DEVANATHAN
Head - Centre of Excellence in
Advanced Materials & Green Technologies
& Professor
Dept. of Chemical Engineering & Material Science
Amrita Vishwa Vidyapeetham
Amritapuri P.O., Coimbatore - 641 112