## Part – A

### 1. Details of the Institution

<table>
<thead>
<tr>
<th>1.1 Name of the School</th>
<th>AMRITA VISHWA Vidyapeetham</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 Address Line 1</td>
<td>AMRITA VISHWA Vidyapeetham</td>
</tr>
<tr>
<td>Address Line 2</td>
<td>AMRITANAGAR (P O)</td>
</tr>
<tr>
<td>City/Town</td>
<td>COIMBATORE</td>
</tr>
<tr>
<td>State</td>
<td>TAMILNADU</td>
</tr>
<tr>
<td>Pin Code</td>
<td>641 112</td>
</tr>
<tr>
<td>Institution e-mail address</td>
<td><a href="mailto:univhq@amrita.edu">univhq@amrita.edu</a></td>
</tr>
<tr>
<td>Contact Nos.</td>
<td>+91 9943984498, +91 994394483</td>
</tr>
<tr>
<td>Name of the Head of the Institution:</td>
<td>Dr. P. Venkat Rangan</td>
</tr>
<tr>
<td>Tel. No. with STD Code:</td>
<td>(0422) 2685888</td>
</tr>
<tr>
<td>Mobile</td>
<td>+91 9047037777</td>
</tr>
<tr>
<td>Name of the IQAC Chair:</td>
<td>Dr. Sriram Devanathan</td>
</tr>
<tr>
<td></td>
<td>+91 9943984498</td>
</tr>
</tbody>
</table>
Mobile:

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. MHC0GN 18879)  TNUNGN10142

1.4 NAAC Executive Committee No. & Date: 
(For Example EC/32/A&A/143 dated 3-5-2004. 
This EC no. is available in the right corner- bottom 
of your institution’s Accreditation Certificate)
EC(SC)/03/RAR/60 dated 24-09-2014

1.5 Website address: www.amrita.edu


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>
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<tr>
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<td>A</td>
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<td>4</td>
<td>4th Cycle</td>
<td></td>
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</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)  

2016-2017

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)

viii. AQAR__2015-16________ (30/10/2016)

1.10 Institutional Status

University  State  Central  Deemed  Private

Affiliated College  Yes  No

Constituent College  Yes  No

Autonomous college of UGC  Yes  No

Regulatory Agency approved Institution  Yes  No

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

Type of Institution  Co-education  Men  Women

Urban Rural  Tribal

Financial Status  Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing
### 1.11 Type of Faculty/Programme

<table>
<thead>
<tr>
<th>Arts</th>
<th>√</th>
<th>Science</th>
<th>√</th>
<th>Commerce</th>
<th>√</th>
<th>Law</th>
<th>PEI (Phys Edu)</th>
<th>TEI (Edu)</th>
<th>Engineering</th>
<th>√</th>
<th>Health Science</th>
<th>√</th>
<th>Management</th>
<th>√</th>
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<tbody>
<tr>
<td>Others (Specify)</td>
<td>Ayurveda, Nanosciences, Biotech, Social Work</td>
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</tbody>
</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

<table>
<thead>
<tr>
<th>Autonomy by State/Central Govt. / University</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>University with Potential for Excellence</th>
<th>UGC-CPE</th>
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</table>

<table>
<thead>
<tr>
<th>DST Star Scheme</th>
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<table>
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<tr>
<th>UGC-Special Assistance Programme</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>UGC-Innovative PG programmes</th>
<th>Any other (Specify)</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>UGC-COP Programmes</th>
</tr>
</thead>
</table>
### 2. IQAC Composition and Activities

2.1 No. of Teachers | 192
---|---
2.2 No. of Administrative/Technical staff | 68
2.3 No. of students | 31
2.4 No. of Management representatives | 25
2.5 No. of Alumni | 112
2.6 No. of any other stakeholder and community representatives | 14
2.7 No. of Employers/Industrialists | 18
2.8 No. of other External Experts | 23
2.9 Total No. of members | 483
2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders:

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>No.</th>
<th>Faculty</th>
<th>Non-Teaching Staff</th>
<th>Student</th>
<th>Alumni</th>
<th>Others</th>
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<tbody>
<tr>
<td></td>
<td>219</td>
<td>85</td>
<td>26</td>
<td>38</td>
<td>13</td>
<td>57</td>
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</table>

2.12 Has IQAC received any funding from NAAC during the year? Yes ☑ No

If yes, mention the amount 100,000

Organizing NAAC sponsored seminar on Design of Curriculum for Sustainable and Societal Development on 12 and 13 August 2016.
2.13 Seminars and Conferences (only quality related)

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

<table>
<thead>
<tr>
<th>Total Nos.</th>
<th>International</th>
<th>National</th>
<th>State</th>
<th>Institution Level</th>
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</thead>
<tbody>
<tr>
<td>157</td>
<td>7</td>
<td>17</td>
<td>7</td>
<td>127</td>
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</table>

**NAAC sponsored national seminar on "Design of Curriculum for Sustainable and Societal Development"**

A national seminar on "Design of Curriculum for Sustainable and Societal Development" was held on 12th and 13th August, 2016, at the Coimbatore campus of Amrita University. Sponsored by National Assessment and Accreditation Council (NAAC), the event proved to be a highly stimulating discussion, centered on a series of thought-provoking presentations by eminent speakers with knowledge and expertise in the area of sustainable development. By its very nature, sustainable development is multi-disciplinary - and the presentations at the seminar clearly brought out the philosophical, conceptual and practical underpinnings of the theme, in a way that the audience could completely relate to.

Welcoming the gathering, Dr. K. Sankaran, Registrar of Amrita Vishwa Vidyapeetham, provided a brief orientation towards sustainable technologies. The inaugural session was marked by a highly informative and energetic presentation by the chief guest for the occasion, Dr. Sheela Ramachandran, former vice-chancellor, Avinashilingam Institute for Home Science and Higher Education for Women (University), who spoke on, "Re-envisioning Education for Sustainable & Societal Development". Dr. Sheela touched upon various aspects of holistic curriculum design, spanning across courses, pedagogy, learning outcomes, equity, evaluative measures, alignment with SDGs (sustainable development goals), and organizing principles.

Subsequent sessions involved focused presentations (via invited talks) on broad orientation towards sustainable development; innovations in curriculum for sustainable development in Amrita University; case study on reworking curriculum to include 21st century skills by Prof. Bhavani Rao, Director, AMMACHI Labs; Innovations in education technologies for enhanced outreach by Prof. Kamal Bijlani, Director, Amrita E-learning labs & Chief Architect of A-VIEW; United Nations Sustainable Development Goals by Prof. Anju Bist, Program Coordinator, Amrita Self Reliant Village; a creative course on Environmental Management and Sustainable Development, as well as numerous contributed papers.

Some of the successful and effective innovations evolved and implemented in Amrita University were showcased. This included Environmental Studies mandatory course for undergraduate students that includes social and cultural awareness along with environmental awareness - with the learning activities including hands-on projects; project-based learning to enhance learning in core courses based on a project mode, rather than relying solely on classroom lectures; Live-in-labs (an open elective course that involves team-based projects through which a student team, along with a faculty guide, develops technological or social solutions to problems in rural areas - the work is conducted over the course of two semesters and the intervening holiday break, with significant field time in the villages; summer village internships where student teams spend two weeks at a time in the village and aid in solving priority problems in specific focus areas such as income generation, sanitation & hygiene, education, agriculture, and water; life skills development - students receiving over 280 hours of training that supplements their technical education; and mandatory cultural education for all undergraduate and postgraduate students - that covers cultural heritage, ethics & values, and holistic health.

The talks were followed by interactive Q&A sessions, which facilitated development of greater
clarity for evolving action items - for design of content, design of pedagogy, alignment with SDGs, incorporation of field work and practical components, sensitization of students and faculty, and holistic perspective to create awareness and knowledge catering to the triple-bottomline (ecology, economy and equity) - which would then ensure that development addresses all the required dimensions: social, technological, political, cultural, ethical and economic. The seminar was organized under the aegis of the Internal Quality Assurance Cell (IQAC) of Amrita Vishwa Vidyapeetham, by the university's IQAC coordinators, Prof. Sriram Devanathan and Prof. Prashant R. Nair.

**ASE-COIMBATORE**

Curriculum design and development for sustainable and societal development: a road map.

**ASAS-KOCHI**

- Dumb Tech Charades
- ICT Quiz
- Future Aspects of Computing
- Recent Trends in Information Technology to meet Quality Excellence in Healthcare
- Interdisciplinary Poster Designing Contest
- Simulation of Networks Using ns-3
- Influence of IoT in Rural Areas
- Technical IT Exhibition
- Emerging IT Topics
- Technical Extempore
- Digital India – The technological transformation
- Say NO to Drugs
- General quiz program for differently abled students.
- Technology and Sustainable Development
- Vidyamritam on the topic Self Development
- Two day National conference on the topic “International Conference on International Financial Management”.
- Commerce and Management fest on the topic Entrepreneurship.
- Vidyamritam on the topic “Corporate Governance”.
- Management fest on the topic “Global Business Operations”
- One day national seminar on the topic “Demonitization”
- Three day national workshop on the topic Social science research
- Topic Role of women in entrepreneurship Development
- Vidyamritam on the topic “ project management”
- Vidyamritam on the topic “an insight into innovation in the corporate world”
• Vidyaamritam on the topic “International business”
• Orientation Workshop for UGC-CSIR-JRF/NET and GATE aspirants.
• In Between: Critical Humanities in Context

**ASM-KOCHI**
Medical Education & Research

**ASN-KOCHI**
• Organ Transplant: Together, Towards Tomorrow
• A workshop on ‘Question Paper Review & Revision’

**AMRITA SCHOOL OF PHARMACY**
Workshop: Theme (2 No.)

- Hands-on workshop on “Pharmacokinetic data analysis using phoenix winnonlin” on 9th & 10th January 2017
- Hands on workshop on statistical analysis using SPSS 25th and 26th of May 2017

**AMRITA SCHOOL OF DENTISTRY**
- Sensitization to Research & Publication.
- Continuous Professional Development
- Fire fighting
- Pollution Control
- Tobacco control

**AMRITA SCHOOL OF AYURVEDA**
- Learning methods of ayurveda texts-Ashtanhridaya
- Nayanamritam- ENT based treatment
- Pancakarma based workshop

**AMRITA SCHOOL OF BIOTECHNOLOGY**
- International Seminar Theme: Microbial Pathogenesis
- National Seminar Theme: Curriculum Design and Development for Sustainable and Societal Development: A Road Map

**AMRITA CENTRE FOR NANO SCIENCES**
Quality Research and Output; Research Methodology and Ethics; GLP and GMP Practices, Cell Culture and Laboratory Training Workshop

**ASB-COIMBATORE**
Training to enable our faculty and research scholars to publish in good peer reviewed journals
2.14 Significant Activities and contributions made by IQAC (*please be as detailed as possible in your response*)

**ASE-COIMBATORE**

IQAC organized NAAC sponsored two day National Seminar on Curriculum Design and Development for Sustainable and Societal Development: A Road Map. There were participants from various institutions other than participants from Amrita Vishwa Vidyapeetham University. Many of them presented research papers. Expert Talks were delivered by Dr. Nikhil K Kothurkar, Dr. Sriram Devanathan, Prof. Anju Bisht, Dr. Sanjay Banerji, Prof. Bhavani Rao and Prof. Kamal Bijlani.

**ASAS-AMRITAPURI**

The details of the major activities of The Amrita School of Arts & Sciences and the outcome achieved are as follows:

1. In accordance with the decision made during the previous academic year, ASAS has constituted an academic correction board (ACB) in each of the departments under the School. After the periodical results are announced, the board reviews the academic performance of the students and identifies the weaker students. Remedial measures are suggested for their improvement. A meeting with their parents are also arranged after the results of the internal exams were published, where the HOD and the respective Advisors interact with the parents. The parents can meet the concerned teachers who are taking courses in the current semester.

2. The department of Social Work organized outreach program to impart training for trainers on counselling in collaboration with Mata Amritanandamayi Math, Thiruvananthapuram Chapter.

3. About participants of the 125 hours of workshop, spread over a period of one year with contact classes at Thiruvananthapuram on first and third Sunday.

4. A certificate course in counselling were also conducted by the Social work Department

5. The Field work trainees conducted a community program at Govt Old age Home, Kollam on World Greenery Day (4-5-2017).

6. The program was conducted with the motive of promoting kitchen gardening and organic farming at old age home. The program was inaugurated by the Asst. Agricultural officer.

7. An awareness class on organic farming techniques was done by Agricultural Officer and the program was inaugurated with planting of saplings.

8. Another initiative named “AMMA ARIYAN” by Social Work Department. The field work trainees at QSSS Kollam has done their community program at ICDS Kureepuzha.

9. The program was conducted on 27-04-2017. The event was inaugurated by the District Childline Nodal Officer Mr Abraham. The target community was teenage girls and mothers.

10. The purpose of the program was to provide information regarding effective parenting in teenage and also the service provided to children like that of child line India

11. The field work trainees of Social Work Department rendered an awareness class in commemoration of the World Health Day on April 7th on the theme Depression. The class was arranged on the PHC premises of Pathiyoor Panchayat and around 25 Kudumbashree workers attended the program.
12. The Department of Social Work conducted Community Program on the topic ‘Child Safety’. The program was held on 27-04-2017 at Anganawadi Karungapally.

13. “Good Touch & Bad Touch” - The program was continued with distribution of newspaper cutting about the sexual abuse among children in order to awake the parents.

14. “UNARVE” Program was organized by Social Work Department based on the theme “Anti-Drug policies, for the purpose of creating awareness among the children about the ill effects of drug consumption, its physical and mental health issues, drug trafficking and its legal issues, the ways to stop drug addiction, steps to follow when one disease information about drug trafficking etc. The program was conducted at The Tuberculosis Centre, Kollam on 26-04-2017.

15. SATHGAMA programme by Department of Social Work - awareness class on the topic “Cancer, Plastic and Adolescent Health”. The awareness class was done on the basis of two case studies done on cancer and waste management. The venue of the programme was Thodiyoor Panchayath.

16. “Sthree Shaktiyude Naipunyam” on Women security was conducted by Social Work Department. The chief guest of the programme was Ms. Sudha Lakshmi who is the programme officer of Thenmala ecotourism division.

17. Social Work Department organized a community programme among fisherman in Alappad Panchayath by rendering a community intervention in the form of an awareness class on the issues faced by fishermen, particularly the precautions that the fishermen community should ensure to counter the deficiency of fish resources.

18. Research activities have been considerably strengthened in ASAS. There is a dramatic increase in the numbers of research students and the numbers of publications during the current academic year (Details are given in ANNEXURES of this report).

All the above activities are in time with the mission and vision of the Amrita Vishwa Vidyapeetham, namely, the all round development of the human personality with a harmonious blending of the head and heart.

ASAS-KOCHI

1. CSI Student Branch, Kochi chapter conducted Dumb Tech Charades on 11th August 2016.

2. CSI Student Branch, Kochi chapter conducted ICT Quiz on 5th September 2016. Twelve teams of two students each from BCA & MCA participated for the event.

3. A Vidyamritam session on the topic "Future Aspects of Computing" was conducted by the CS & IT Department of ASAS, Kochi, in collaboration with the CSI student branch. The session was handled by Mr. Jayakrishnan K, Director of Xtend Technologies (P) Ltd, on 14th October at 10:00 AM.

4. A Vidyamritam session on the topic "Recent Trends in Information Technology to meet Quality Excellence in Healthcare" was conducted by the CS & IT Department of ASAS, Kochi, in collaboration with the CSI student branch. The session was handled by Dr. APSARAJ P. R., Sr. Business Analyst, Amrita Technologies, AIMS on 15th October.

5. CSI Student Branch, Kochi chapter conducted an Interdisciplinary Poster Designing Contest on 20th October 2016. Around fifty students from BCA, BBA, B.Sc. VM, B.Com., MCA and Int. MA participated in the contest.

6. Two Days Hands-on workshop on "Simulation of Networks Using ns-3" was conducted by the CS & IT Department of ASAS, Kochi, in collaboration with the CSI student branch. The sessions were handled by Mr. Deepu Benson, Assistant Professor, Dept. of Computer Science and Engineering,
Amrita Vishwa Vidyapeetham AQAR 2016-2017  Page 11

Amal Jyothi College of Engineering, Kanjirappally, on 14th - 15th November 2016 at our Computer Lab. Partakers from various Industries and colleges in and around Ernakulam attended the programme.

7. “Computer Society of India (CSI) State Student Convention (Region V II) Kerala and Technical IT Exhibition (Indriya)” was hosted by CS & IT Dept. of Amrita School of Arts and Sciences, Kochi on 18th November 2016 at the Campus Auditorium. The theme for the event was “Influence of IoT in Rural Areas”. Dr. K.C. Chandrasekharan Nair, Associate Principal Consultant at KITCO., Ex-CFO, Technopark, inaugurated the event. Prof. Suresh Thangakrishnan, Regional Student Coordinator, Region – VII, CSI delivered a talk on Opportunities of CSI among youth. Prof. A.R.Anil, State Student Coordinator, Kerala State, CSI delivered a talk on the various CSI State activities. Dr. M.V Rajesh Maliyekkal, Chairman, CSI Kochi Chapter, Associate Professor and HOD of ECE at College of Engineering, Poonjar, handled a session of the topic “Internet of Things”. Dr. K.C. Chandrasekharan Nair inaugurated Technical IT Exhibition (INDRIYA) on the same day where students from various schools exhibited their models and posters.

8. CSI Student Branch, Kochi chapter conducted a “Technical Talk on Emerging IT Topics” 21st November 2016. Current areas such as Steganography, Green Computing, Smart home, Cyber terrorism, fog computing etc were discussed.

9. CSI Student Branch, Kochi chapter conducted a “Technical Extempore” on 23rd January 2017

10. Department of Computer Science & IT, Amrita School of Arts & Sciences, in association with Computer Society of India (CSI) steered a one day seminar on “Digital India – The technological transformation” on February 10th, 2017. The programme had three sessions handled by eminent experts from various fields. The first session was on “General Concepts on Digitalization” handled by Sri Santhosh V T, Technical Director, NIC, followed by a session on “Digital Banking” handled by Sri Ajithkumar KP, Senior Manager, Federal Bank. The programme concluded with a session on “Security issues in digital payments – A practical approach”, handled by Smt. S Sreelatha, Scientist - B, NIC, STDC. Poster presentation on “Digital India” was also conducted as part of the one day seminar.

11. A one day awareness expo on the theme “Say NO to Drugs” was organized by ASAS Kochi in association with Social Awareness Campaign (SAC) and Computer Society of India (CSI) on 23rd February 2017. The chief Guest, Sri Abdul Salam K A, Assistant Commissioner of Police, Narcotics, inaugurated the awareness expo. Sri Venugopal C Kurup, Supdt, Narcotic Control Bureau, Govt of India, took a session on the topic “Say No to Drugs”.

12. “Savishkara”- General quiz program for differently abled was organized by the Computer Science & IT Department of Amrita School of Arts & Sciences in association with the CSI and Samskrithi-Cultural Forum, for the SPECIAL SCHOOL children was held on 20th March, 2017.

13. Department of Computer Science & IT, Amrita School of Arts & Sciences, in association with Computer Society of India (CSI) organized a technical talk on “Technology and Sustainable Development” on May 5th, 2017 in consociation with “National Technology Day”. The session was handled by Sri Priyesh Gopala Krishnan, Director, Cognizant, Kochi. He talked on various areas like Industrial and current revolution 4.0, Components, Digitalization, Sensors, Cloud Computing, how they are related to each other and how they affect our environment.

14. The two day International Conference on the theme International Financial Management held on 6th and 7th October 2016 was inaugurated by Sri R G Ajith Kumar, , Dr. Abhilash S. Nair, Associate Professor in Finance, Accounting and Control, IIM Kozhikode handled a session on the topic “GMR Airport Concession Mumbai versus Delhi”.

15. The two day Commerce and Management Festival ‘Avyukta 2016’ was held on 24th and 25th of October 2016.
16. Sri. K. Vishnuprasad, Senior General Manager (F & A), Electominerals Divison, Carborundum Universal Limited (CUMI), Kochi delivered an inspiring session on the topic “Corporate Governance” on 8th September 2016.

17. Students of BBA took the lead role in organizing the Management Fest, Spandhan as a part of commerce and management fest with Quiz, Case workshop, exhibition and various events on 21st February 2017.

18. A one day National seminar on Demonetisation was conducted on 6th March 2017. The chief guest CA Venugopal C. Govind, CEO, Verma and Verma delivered the keynote address as Chief guest. Dr. V.K. Vijayakumar, Investment Strategist, Geojith Securities and Sri. Abraham Thariyan, Former Executive, South Indian Bank Ltd., conducted expert sessions.

19. Department of Commerce and Management, Amrita School of Arts and Sciences Kochi conducted a three day national workshop on Social Science Research on 2017 March 16, 17 and 18. The main purpose of the conference was to enrich the scholars in the domain of data analysis through SPSS Packages.


22. Sri. Nair Nandhakumar, Senior Associate Vice President Electro Minerals Division (EMD) Carborundum Universal Ltd (CUMI) on Project Management on 23rd January 2017. The session gave the students an idea as well as courage in managing major and minor projects.

23. Session on Insights into innovation in the corporate world by Dr. Bala Raghupathy, Senior General Manager –Technical Electronic Division Carborundum Universal Ltd (CUMI) on 24th January 2017. The session helped in the creation of innovative ideas among students for future corporate world development.

24. Session on International Business by Mr. Abhijith S.K., Country Sales Manager for Singapore & Malaysia- Saint-Gobain on 8th February 2017. This session was a knowledge sharing session and was very beneficial for students and it gave an overall idea about international trade and business.

**ASAS-MYSORE**

- Brain storming and suggesting strategies for overall improvement of the Campus.
- Initiatives towards setting in research culture in the campus – one day per week is dedicated to research / publication work.
  - Suggestion to improve the faculty profile of each department – appointment of candidates with Doctorial Degree.
  - Decision to conduct National Level conferences / seminars / workshops in emerging areas.

**ASEd-MYSORE**

- Initiation taken for NCTE inspection for B.A B.Ed and B.Sc B.Ed integrated Programme. Organised field visit for students to Archaeology department U.O.M.
Internship was conducted for M.Ed Students, DOS in Education, U.O.M

**ASM-KOCHI**

- Dept. of Audiology & Speech Language Pathology: Starkey Hearing Foundation award Amrita University as a Hearing Angel. Hearing Angel award is in appreciation of participation and association of Department of Audiology, Speech & Language Pathology, with Starkey Hearing Foundation in the WFA Community Based Hearing Health Care Program (WFA CBHHCP) & International Training Missions.

- Dept. Of Ophthalmology: *Ranked No.10 for BEST Ophthalmic Services and Ranked No.13 for Dermatology Service* by the National Ranking conducted by the Times Group on Top All India Lifestyle Hospital & Clinic.

- UNESCO Bioethics Chair: AIMS Unit (Nodal Centre for the SAARC Region) was formed to promote and to sensitize all the stakeholders of health care for ethical values.

- The World Bioethics Day 2016: The UNESCO Chair in Bioethics on “Human Dignity and Human Rights”. As part of this, the vertical integration of the bioethics curriculum in MBBS course in current academic year was initiated.

- Govt. of India has permitted the Amrita School of Medicine, AIMS, Kochi, to commence three new super specialty courses (DM Reproductive Medicine, DM Rheumatology and M.Ch. Gynaecological Oncology) from the academic year 2016-17 with an annual intake of two students each.

- Within Top 25 Rank of Medical Colleges in the country in all the National Surveys by various agencies.

- **Medical Education Unit**: MCI approved Nodal Centre for faculty training programme; Five original research papers published based on the medical education research projects as part of advanced course in indexed journals; construction in full swing of a hall (6000 sq ft) for purpose of conducting workshops etc.


- A well established Centre for Allied Health Sciences conducting various B.Sc., M.Sc. courses.

- Advanced Centre for organ transplants.

- First both hands transplants successfully conducted – first time in Asia by Dept. of Plastic & Reconstructive Surgery & Allied Departments

- New Technology of 3D printing of joint pre-operatively for use in total hip replacement achieved by the Department of Orthopaedics.

- First Robotic Surgery Centre – Department of Gynaec Oncology

- Cyber Knife Centre- For high precision radiotherapy; initiation of proton beam therapy.

- 205 Scopus indexed publications from AIMS in 2016

- Community Activities:
- Smoke Free Homes (Tobacco Free homes)
- TB Free Kochi
- Adhithi Devo Bhava (welfare programme for migrant workers)
- Say No To Drugs (Student Programme)
- Amrita Aarogyam (welfare programme for slum primary health)
- Hridayamritham (women cardiac health)

ASN. KOCHI

1. Improvement in academic/teaching learning activity - through more student centred and clinical oriented activities
   - Undergraduate students are posted continuously for one shift in the clinical area for continuity of care.
   - Changes are made in the clinical rotation plan to best suit the academic requirement and the level of expertise required and needed by the students of various programmes.
   - Extended the postings in casualty, blood draw and injection room to get better exposure to skill oriented training for Undergraduate students.
   - Posting in genetics and nuclear medicine department for 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.

2. 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 grants 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.

   - 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.

4. 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.

5. 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.

6. Utilization of the central/common resources – Students and faculty get hands on training (15hrs) in the central simulation lab on specific clinical skills.

7. 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 both with an exchange of culture.

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


10. Ensures publication of the post graduate theses in indexed journals as a joint responsibility of both the student and the research guide.

**AMRITA SCHOOL OF PHARMACY**
   • Conducted two workshop
   • Conducted Research Day
   • Improved placement activities

**AMRITA SCHOOL OF DENTISTRY**
   • Improvement of patient care and steps being initiated to get oral healthcare delivery certified by National Accreditation Board for Hospitals & Healthcare Providers (NABH)
   • Electronic dental record system (EDR) is being developed to improve quality, safety, efficiency and coordination at the same time maintaining privacy of patient health information
   • Conducting outreach programmes with social accountability to inculcate values in students.
   • Student feedback of lectures taken by faculty.
   • Intensive Training in Bioethics for faculty.
   • Strengthening of Anti-tobacco movement.
   • Improvement in research activities. Staff provided intensive training in research methodology.
   • Undergraduate students sensitized to research and encouraged to publish papers.
   • Health promoting school programmes undertaken.
   • Sensitising students to the issues faced by people with special needs.
AMRITA SCHOOL OF AYURVEDA

- National Workshop on Ashtanga hridaya Learning Methods.
- Parayana (Recitation/Reading of the scriptures by the students.
- Weekly Seminar by the PG Students
- Seminar by Faculty for PG Students
- Research Methodology classes under Dept. Of Research and Development ACARA.
- Guest Lectures by experts in various fields.

AMRITA SCHOOL OF BIOTECHNOLOGY

To strengthen the existing bioinformatics program, at the academic and research level, recommendation was given to appoint an experienced faculty member.

AMRITA CENTRE FOR NANO SCIENCES

Academic evaluations, Anti-plagiarism, Publication requirements, Research quality evaluation – data documentation, Institution Bio Safety (IBSC), Cell culture and Lab Safety, Research Ethics

ASB-COIMBATORE

- The IQAC had suggested steps to improve the research environment at the college. One of these was to organize seminars and workshops to help train our faculty members and PhD scholars so that they can publish in better journals.

- It was suggested that more time be provided in the official schedule for research. As a result, Mondays and Tuesdays pre-lunch time has been slotted for faculty members who do not have a class in that time to come together to discuss and collaborate on their research ideas. Thursdays have been dedicated for the Business Research Project work for second year MBA students.

ASB- KOCHI

- Periodic data maintenance scrutiny
- New server configuration and file maintenance system for students and faculty with specific access rights for all students, teaching and non-teaching staff.
- Students sent for participation in different varieties of external programmes for better exposure to the industry.
- Improved quality of applicants and shortlisted students.
- Summer internship programme revamped by including multiple evaluation criteria.
- New batch orientation re-aligned with the changed curriculum incorporating new subjects to help them cope with the curriculum better.
- More industry sponsored activities/sessions for students (E.g. Entrepreneurship in International Business workshop by FIEO)

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.

2.14 Whether the AQAR was placed in statutory body

Yes. Academic council meeting on 10 August 2017

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 outcomes achieved by the end of the year *

**ASE- AMRITAPURI**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. International conference on Robotics and Automation for Humanitarian Applications in Dec 2016 at Amritapuri</td>
<td>The International Conference on Robotics and Automation for Humanitarian Applications provided a forum for scientists, engineers, field workers and policymakers to discuss current research and exchange technical ideas that advance global humanitarian action. 15 dedicated committees were formed and well executed program. RAHA app was created for keeping all updated. Beyond RAHA discussions were held to take it forward. Workshop conducted -1. Tutorials Conducted –6. The competitions conducted on 19th December. For more details please check out raha2016.org</td>
</tr>
<tr>
<td>2. Work closely with ministry of skills and entrepreneurship and develop e-content for ITI</td>
<td>NIMI has selected Ammachi labs for creating e-content.</td>
</tr>
<tr>
<td>3. Amrita MOOC</td>
<td>It has come to a hold as MySangham team was working with project along with A-View for Chhattisgarh government</td>
</tr>
<tr>
<td>4. Initiating a project with the skills ministry of Andhra APSSDC</td>
<td>APSSDC and Ammachi labs along with A-View have started training 21st century skills to their mentors.</td>
</tr>
<tr>
<td>5. Initiating a project with the skills ministry of Chhattisgarh</td>
<td>My sangham team working with A-View towards completion of Chips project</td>
</tr>
<tr>
<td>6. Electronics through crafts will be focused more this year.</td>
<td>This project is on hold for sometime</td>
</tr>
<tr>
<td>7. Tailoring and Computer courses</td>
<td>All over the centres in India tailoring course has been deployed</td>
</tr>
</tbody>
</table>
8. "L&T and Ammachi labs have entered a collaborative project to develop simulators for training construction skills, that will be rolled out in the L&T Construction Skills Training Institute (CSTI) - Pilkua, UP and by Amrita in schools and ITIs in Andhra Pradesh."

Bar bending Simulator Version 2 has been delivered to the L&T in April

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**ASE-COIMBATORE**

<table>
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<td>1. Develop higher academic standards with betters tools for testing comprehension</td>
<td>1. Develop higher comprehension skills for students as reflected through placement and higher studies</td>
</tr>
<tr>
<td>2. Improving research standards by encouraging quality publications</td>
<td>2. Several faculty members are reviewers of prestigious journals run by IEE, Elsevier, etc</td>
</tr>
<tr>
<td>3. Encourage students to participate in technical events</td>
<td>3. Two national awards won by students in area of smart water and smart air</td>
</tr>
<tr>
<td>4. Involving second and third year students in small shares of research works and final year projects to give them a good exposure to laboratory equipment handling and research methodologies.</td>
<td>4. Many students opting for internships in research institutions started working on mini projects and expressed interest in working part time in department’s funded projects.</td>
</tr>
<tr>
<td>5. Students were also motivated to attend the conference and publish their research work in conference/Journal.</td>
<td>5. Paper publication status of the department is improved</td>
</tr>
<tr>
<td>6. Faculties were grouped in to different thrust area research group to discuss their research area and ideas and were advised to submit the proposal for funded project</td>
<td>6. Number of proposal submitted from the department for Funded project is increased. Number of funded project sanctioned is also increased</td>
</tr>
<tr>
<td>7. Research projects from the sponsored agency for the worth of 75 lakhs by department of Mechanical Engineering</td>
<td>7. Fund received: - 49.94 Lakhs (DSR-TSDP ARCI project) and sanctioned: - DST-FIST-147.5 Lakhs in Mechanical Department</td>
</tr>
<tr>
<td>8. Revise the curriculum to fulfil the demands of trained man power from the field.</td>
<td>8. Board of studies was constituted and syllabus revision was carried out on 27.05.2017</td>
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<tr>
<td>9. Striving for more research initiatives focusing India centric issues and striving for finding solutions for the same.</td>
<td>9. Projects by final students centred around social issues like climate change, human animal conflict, child labour and education issues, Health and Hygiene</td>
</tr>
<tr>
<td>10. Applying for funded projects to various agencies</td>
<td>10. Funded projects have been obtained by staff from NCW, ICSSR, Unicef, Department of Social Defence(Tamil Nadu)</td>
</tr>
<tr>
<td>11. Certificate courses for voluntary sector</td>
<td>11. Certificate Course on Fund Raising through CSR projects could not be conducted in the academic year 2016 – 17 as an International Conference was conducted. But efforts are carried out to conduct the course in association with Shanti Ashram, Coimbatore during August 2017</td>
</tr>
</tbody>
</table>

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<tr>
<th>12. Setting up labs for Teaching: Embedded Systems, Computer Architecture</th>
<th>12. Labs have been set up as planned for teaching.</th>
</tr>
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<tbody>
<tr>
<td>13. Setting up research facility in Image/ Video Processing, Computational Thinking</td>
<td>13. Nearly 100 students are involved in developing innovative applications in the research facilities</td>
</tr>
<tr>
<td>14. ICPC Training for First year B.Tech</td>
<td>14. ICPC training was conducted for the first year B.Tech students of CSE and 20 students have been selected for next levels of training to participate in ICPC regional competitions 2017. Received funding of over 1 crore</td>
</tr>
<tr>
<td>15. Specialized training for students for participation in international contests and competitions</td>
<td>15. Delloitte innovation award in Smart Hackathon in 2017. Large number of students have participated and secured notable positions in various international/technical contests and competitions like Google Summer of Code, ACM ICPC regionals, Bosch Inscribe etc</td>
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- Nearly 100 students are involved in developing innovative applications in the research facilities.
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- Delloitte innovation award in Smart Hackathon in 2017. Large number of students have participated and secured notable positions in various international/technical contests and competitions like Google Summer of Code, ACM ICPC regionals, Bosch Inscribe etc.
16. To Speed up Doctoral Program, and enhance the number of PhDs graduating from the department

17. Motivate Faculty towards taking up research Initiatives with High and Direct Societal Impact

18. Each TAG should submit atleast One research proposal (Atleast 7 proposals from the Department

19. Initiate enhanced Industry participation in Teaching and Research

16. One Ph.D was awarded during this period. Three faculty have submitted thesis.

17. Conducted a National Workshop on “Role of Universities in Empowering Indian Villages:, sponsored by ISRO. – talks by Eminent Personalities regarding Research with Societal Impact

18. 20 proposals worth Rs. 6.8 crore were communicated to various agencies. 3 Proposals worth 68 Lakhs got sanctioned.

19. The following members were part of various Board of Studies in our department.

M.Tech VLSI Design:
1. Mr. Sundararajan Srinivasan, Sr Director, Next Generation & Standards, Intel Mobile Communications India Pvt. Ltd., Bangalore
2. Mr. D. Badarinath, ASIC Digital Design Engineer RMZ Infinity, Bangalore

M.Tech BME:
1. Dr. Kishore Kumar Kottary, Philips Healthcare, Bengaluru

M.Tech CSP:
1. Dr. Sondur Lakshmipathi CEO & CTO, MYMO Wireless, Bangalore

M.Tech AEL:
1. Dr. Balamuralidhar P, Principal Scientist & Head TCS- Innovation Labs Bangalore, India.
2. Mr. C.P. Janarthanam Project Manager Tata Consultancy Services Pune, India

Student Internships:
Students from ECE and EIE underwent Internships in the following Companies
1. Caterpillar (2)
2. Cisco (2)
3. Honeywell technology Solutions Limited (1)
4. Titan Industries (1)
5. Seagate Technology (1)
6. Think & Learn Private limited. (2)
7. GE(1)
8. National Instruments(1)
20. Conduct Technical workshops/ Symposia with Increased Focus.

20. a., Two Day workshop on Image Processing for Biomedical Applications (December 16-17, 2016)
b. Three day workshop on Role of Universities in Empowering Indian Villages (September 21-23, 2016)
c. Part of ISTE Six Day FDP on CMOS, Mixed Design and RF VLSI Design (January 30 – February 4, 2017)

ASAS-AMRITAPURI

The plan of action pointed out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

The IQAC in its meeting held at the beginning of the academic year decided to implement new activities during 2016-17 and strengthen the activities which are already in place during the previous years.

As indicated in the report of the previous years, IQAC had initiated several programmes. These include the design and restructuring of the curricula, conducting Faculty Development Programmes (FDP), organizing seminars/workshops, initiating and strengthening the research activities, starting the collaborative research activities with other reputed institutions in the country and encouraging co and extracurricular activities among the students. IQAC decided that these activities should further be strengthened and extended to all Departments under the ASAS during the academic Year 2016-17.

In addition to the above it was decided that the faculty members should be encouraged to write project proposals to external funding agencies such as the DST, UGC, CSIR and other different funding agencies. It was also decided to invite distinguished speakers from various National Institutes to deliver lectures in the frontier areas of research for the benefit of the faculty and the students.

IQAC also stressed the importance of initiating activities cutting across the various discipline of the school.

Details of the activities and the outcome achieved.

1 Design and Modification of Curricula

Integrated MSc Chemistry curriculum was designed on the basis of CSIR/UGC/GATE Syllabi. In addition to this, the Department of Chemistry re-designed the existing M.Sc Chemistry Syllabi based on UGC – CSIR Syllabi. They have also introduced various new elective subjects. The Department of English and the Department of Commerce and Management designed the curriculum of Integrated MA and M Com on the basis of UGC syllabi.

The redesigning of curriculum has helped the Amrita students to study new and current topics and to make in par with those in other universities and institutes.

2. Faculty Development Programme(FDP)

The purpose of FDP is to update the knowledge of the faculty and to initiate them to research activities. It was decided to organize lecture series in various disciplines by experts in each of the different fields. Faculty members would also be encouraged to attend the workshops and seminars organized by other institutions.

Faculties of all the Departments attended the FDP on 29th June to 1st July 2017.
3. Workshop/Seminars/Special lectures

IQAC planned to conduct more workshops, seminars and invited lectures from National and International speakers for the benefit of faculties and students of the School.

4. Invited Talks

1. Invited talk by Dr. S.K Sreenivasan Nair, International School of Photonics, Cochin University of Science and Technology. On the topic “Advanced Applications of Lasers in Sciences” (March 29th 2017) between 2.00 and 4.00 pm in Room No.: N-003

2. Invited talk by Dr. Keyan Bennaceur, l’université Paris, France on the topic “The quantum and fractional quantum Hall effect” (August 14, 2012) between 3.00 and 4.00 pm in Room S10 (conference room, Ground floor, Main building)

3. Invited talk by Dr. Manu Remakant, Associate Professor and HOD, Department of English, Sree Narayana College, Chempazhanty on the topic “The quest to understand our home -- A journey from Nature poetry to Eco-poetry” at Amriteswari Hall on Monday (Sept 5, 2016) between 10.45 am and 1.00 pm

4. Invited talk by Dr Rajan Sundaravaradhan, (Assistant Professor, Department of Mathematics) on the topic "On Some Sums over Primes" on 17-08-2016.

5. Invited talk by Dr. Subrahamanian Moosath, Head, Department of Mathematics, IIST Trivandrum on the topic “Differential Geometry” on 16-03-2017.


7. Dr. N. Ajithkumar, renowned scholar addressed the students on the Union Budget 2017 on 02.03.2017.

5. Collaborative Research

Collaborative work is essential for the development of research in any institution. Keeping this in mind, it was decided to establish research links between Amrita and other National /International institutions.

Dr. Milind Shrinivas Dangate of Chemistry Department had Collaborations and doing research programmes with the following research institutes:

1. Council of National Research, Institute of Molecular Science and Technology (CNR-ISTM), Italy
2. Department of Chemistry, University of Milan, Italy
3. Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milan, Italy
4. Department of Medical Biotechnology and translational Medicine, University of Milan, Italy
5. Molecular Pharmacology unit, Foundation of National Tumor Institute, Milan, Italy
6. Department of Material Science and Solar Energy Research Center (MIB-SOLAR), University of Milano-Bicocca, Milan, Italy
7. Department of Chemistry, University of Perugia, Perugia, Italy
8. Council of National Research, Institute for the study of Nanostructured Materials (CNR-ISMN), Italy
9. Department of chemistry, biochemistry and biotechnology for the medicines, University of Milan, Italy
10. Kanazawa university hospital, Kanazawa, Japan
11. Endowed center for advancement of pregnancy, perinatal and infant care, Graduate school of Medical Sciences, Kanazawa University, Kanazawa, Japan
12. Department of Agriculture, Kinki University, Nara, Japan
13. Department of Molecular Biochemistry, Kyoto prefectural university of Medicine, Kamigyo-KU, Kyoto, Japan
14. Department of mechanical engineering, Colorado state university, Fort Collins, USA
15. Department of chemistry, Colorado state university, Fort Collins, USA
16. The Centre for next generation photovoltaics (NGPV), Colorado state university, Fort Collins, USA
17. Dr Ganesh Sundaram of the Department of Physics is doing two research programmes in collaboration with Dr Ganesh Udupa of the Dept. of Mechanical Engineering of ASE.

6. Research Publications
Several papers have been published in reputed journals and several others have been presented in national conferences (Details are provided in ANNEXURES)

7. Co- curricular and Extra – curricular activities
For the overall personality development of the students it is important to have co-curricular and extra-curricular activities. The IQAC decided to encourage the functioning of student’s clubs/associations to pursue this goal.

In the Department of English a literary and language association, SAAHITI is conducting various activities to the literary talents of the students. Amrita Amateur Astronomer’s Club of Physics department is doing various activities which include some observations of the Sky.

The Department of Chemistry started a literary association ‘CONFLUENCE’ which is successfully organizing seminars, cultural activities etc. The Departments of MSW and Commerce & Management also have such literary associations.

All the proposed activities are in harmony with the missions and goals of Amrita Vishwa Vidyapeetham specifically, in the development and fruitful utilization of the human potential.

ASAS-KOCHI

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<thead>
<tr>
<th>Plan of Action</th>
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<tbody>
<tr>
<td>1. School Level Events</td>
<td>• Dumb Tech Charades</td>
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<td>• ICT Quiz</td>
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<td>• Interdisciplinary Poster Designing Contest</td>
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<td>• Technical IT Exhibition</td>
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<td>2. Workshops / Seminars / Vidhyamritham</td>
<td>• Simulation of Networks Using ns-3</td>
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<td>• Future Aspects of Computing</td>
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<td>• Recent Trends in Information Technology to meet Quality</td>
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<td></td>
<td>Excellence in Healthcare</td>
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<td></td>
<td>• Influence of IoT in Rural Areas</td>
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<td>• Emerging IT Topics</td>
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<td>• Digital India – The technological transformation</td>
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<td>• Technology and Sustainable Development</td>
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</table>
3. Plan to conduct national seminar, conference, workshop and vidyamritam sessions.

- The two day International Conference on the theme International Financial Management held on 6th and 7th October 2016.
- The two day Commerce and Management Festival ‘Avyukta 2016’ was held on 24th and 25th of October 2016.
- A one day National seminar on Demonetisation was conducted on 6th March 2017.
- 4. Department of Commerce and Management, Amrita School of Arts and Sciences Kochi conducted a three day national workshop on Social Science Research on 2017 March 16, 17 and 18.
- Conducted a vidyamritam session on the topic
- “Corporate Governance” on 8th September 2016.
- Organised a management fest, SPANDHANAM by department of commerce and management with Quiz, Case workshop, exhibition and various events on 21st February 2017.
- On 23st January 2017, conducted a industrial talk on the topic International Business management.
- On 24th January 2017, arranged a vidyamritam talk on the topic innovative development in the corporate world.
- On 8th February organised a knowledge sharing session on the topic International Business management.

3. Satramritam-2017, National Science Day Celebrations. 21st and 22nd Feb 2017

4. Orientation workshop for CSIR UGC JRF/NET and GATE aspirants 17th and 18th Mar 2017

ASAS-MYSORE

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<thead>
<tr>
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<tbody>
<tr>
<td>To set in research culture and to increase teachers’ contribution to</td>
<td>In order to set in research culture and enhance research output in the campus, every Saturday is dedicated to research / publication work by the faculty members. This has resulted in an increased number of journal paper publications. All also 30 are published in Scopus indexed Journals</td>
</tr>
<tr>
<td>intellectual output in terms of publication in SCOPUS indexed journals, it is</td>
<td></td>
</tr>
<tr>
<td>recommended to allow the teachers dedicated hours of research work</td>
<td>Introduction of BSc-BEd &amp; BA-BEd was initiated. Required infrastructural augmentation including setting up of the lab were taken up and the intent was submitted to NCTE followed by NCTE</td>
</tr>
<tr>
<td>Considering the dearth for competent Arts graduates as also quality high school teachers and with the objective of reviving Arts education it is planned to introduce a 4-year</td>
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### ASEd-MYSORE

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<th>Plan of Action</th>
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<tbody>
<tr>
<td>To improve content Knowledge of Student in their respective School Subject</td>
<td>Content Enrichment Classes were done extensively apart from regular classes and it became very helpful for the students to manage the classes during internship. Kannada Medium Students Confidence level and functional language has improved. Students improved their skill of using on-line labs.</td>
</tr>
<tr>
<td>Conduction of Communicative English Classes.</td>
<td></td>
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<tr>
<td>To Enhance on-line learning skills, O’ labs workshop was conducted</td>
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### ASM-KOCHI

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<tr>
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<tbody>
<tr>
<td><strong>Infrastructure :</strong> Augmenting in-patient and out-patient facilities</td>
<td>Space : Construction activities nearing completion for additional space requirement.</td>
</tr>
<tr>
<td>Creation of additional facilities in patient care &amp; diagnostic services</td>
<td>Amrita Centre for Robotic Surgery was established.</td>
</tr>
<tr>
<td>Priority completion of the Cyber Knife Centre</td>
<td>Completed and the services commenced</td>
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## Academic

Preparation for various MCI inspections for Degree recognitions/re-recognition/seat increase/starting newly introduced Postgraduate Programmes.

New Programmes Commenced:
1. DM Rheumatology (2 seats)
2. M.Ch. in Reproductive Medicine (2 seats)
3. M.Ch. in Gynaecological Oncology (2 seats)

Increase of annual intake:
1. MD Nuclear Medicine (from 1 to 2)
2. MD Anaesthesiology (from 5 to 11)

Recognition of Degree:
1. M.Ch. in Head & Neck Surgery
2. DM Pulmonary Medicine
2. MD Emergency Medicine

Re-recognition of Degree after 5 years:
1. MD Anaesthesiology
2. DLO
3. D.Ophthalmology
4. DGO
5. DPM
6. DCH
7. DMRD
8. DMRT

Recognition for increased seats:
1. MS Obst. & Gynaec (from 2 to 3)
2. DM Paediatric Cardiology (1 to 2)

### ASN, KOCHI

#### Plan of Action

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<tr>
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</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. |
| 2. Structured cultural education | - Discussions are going on and Syllabus is yet to be prepared. |
| 3. National conference; Inter professional collaboration | - Conducted National conference on Organ transplantation: Together, Towards Tomorrow  
- 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.  
- 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. |
4. Symposium on Ragging – a menace and Anti Ragging measures.  

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.

5. Measures to refine the teaching skills of Faculty  

- Training for all faculty members in central simulation lab.
- Proposal for financial assistance from NAAC for conducting a workshop on Quality sustenance and maintenance in educational methodology for nurse educators.

6. Measures to strengthen the nursing skills of first year BSc Nursing students  

- Formed core group to identify the skill gaps among first year nursing students and focus on these skills.

7. Workshop on ‘Evaluation and Modification of Question Paper’  

- Conducted three day workshop on evaluation and modification of the University Question papers of all the three programmes.
- All university question papers for the UG and PG 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.

**AMRITA SCHOOL OF PHARMACY**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>To increase the number of funded projects</td>
<td>Two projects</td>
</tr>
<tr>
<td></td>
<td>• Department of Science &amp; Technology (Nanomission) of 34 lakhs</td>
</tr>
<tr>
<td></td>
<td>• Spices Board of Rs. 25 lakhs.</td>
</tr>
<tr>
<td></td>
<td>The duration is 3 years.</td>
</tr>
<tr>
<td>Increase the quality of students projects</td>
<td>Students started publishing papers even from undergraduate level.</td>
</tr>
</tbody>
</table>

**AMRITA SCHOOL OF DENTISTRY**

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) To improve the patient care.</td>
<td>1) Steps initiated for NABH accreditation. EDR system being developed.</td>
</tr>
<tr>
<td></td>
<td>Increased participation from staff for outreach activities. Dental Exhibition</td>
</tr>
<tr>
<td></td>
<td>was held to promote oral awareness and sensitize the public to new modalities</td>
</tr>
<tr>
<td></td>
<td>of treatment. Surveillance system (CCTV) was set up.</td>
</tr>
<tr>
<td>2) To improve the research activities</td>
<td>2) Staff provided intensive training in research methodology to increase</td>
</tr>
<tr>
<td></td>
<td>research output. Undergraduate students and interns encouraged to take up</td>
</tr>
<tr>
<td></td>
<td>research and papers published by undergraduate students.</td>
</tr>
<tr>
<td>3) Improvement in postgraduate training.</td>
<td>3) More seminars, lectures, quiz programme in basic sciences, Continuing Dental Education programmes conducted. Increased participation from postgraduates in outreach programmes. Teledentistry programmes initiated.</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4) Improvement in undergraduate curriculum.</td>
<td>4) Staff provided intensive training in bioethics so as to sensitize students to ethical principles in oral health care.</td>
</tr>
<tr>
<td>5) To improve the overall development of students</td>
<td>5) Efforts were made to instil values in students by delivering “Values-based” lectures and participation in activities benefitting the society. “Knowing the Legends” programme initiated among first year students. Students mentored to share value based concepts among peers</td>
</tr>
<tr>
<td>6) Initiating activities which have social accountability.</td>
<td>6) Tobacco cessation activities were strengthened. World No tobacco day was observed with more vigour. Health promoting school programme was initiated among tribal school children. Students distributed rice packets to many needy families.</td>
</tr>
<tr>
<td>7) Sensitising students to the issues faced by people with special needs</td>
<td>7) Inspiring lecture delivered by Ms Tifany Brar, Founder of Jyothirgamaya organization on World Disability Day. Dental check up programme held at Raksha special school.</td>
</tr>
</tbody>
</table>

### AMRITA SCHOOL OF AYURVEDA

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Methodology classes for PhD scholars.</td>
<td>Conducted classes by External Experts</td>
</tr>
<tr>
<td>Workshops on various subjects</td>
<td>Conducted one workshop on Teaching and Learning Methods of Ayurveda Samhita</td>
</tr>
<tr>
<td>Encouraging publication from Faculty and PG scholars</td>
<td>Increased number of publications. Could increase the total publication 20% more than previous years. Pubmed/scopus indexed papers increased from 3 to 13 in this year compare with last year.</td>
</tr>
<tr>
<td>Development of Infrastructure</td>
<td>Purchased Instrument cost more than 1 crore.</td>
</tr>
<tr>
<td>Taking initial steps for a National Level Seminar in the next curricular year</td>
<td>Planned to conduct a Inter National Seminar on Integrative Ayurveda and Modern Medicine in the month of July/August.</td>
</tr>
<tr>
<td>Increasing External activities</td>
<td>Indoor &amp; Ourdoor Medical camps, Awareness classes.</td>
</tr>
</tbody>
</table>
### AMRITA SCHOOL OF BIOTECHNOLOGY

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modification to the ASBT infrastructure with additional classrooms and laboratories for student activities at UG/PG level.</td>
<td>Three new class rooms and an academic lab were made available through the restructuring of the existing school infrastructure.</td>
</tr>
</tbody>
</table>

### AMRITA CENTRE FOR NANO SCIENCES

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting up of GMP facility</td>
<td>85% completed</td>
</tr>
<tr>
<td>Setting up of 3D bio-printing facility</td>
<td>20% completed</td>
</tr>
<tr>
<td>Streamlining flow cytometry lab</td>
<td>Completed</td>
</tr>
<tr>
<td>Setting up of GLP facility</td>
<td>50% completed</td>
</tr>
<tr>
<td>Setting up of an energy storage lab</td>
<td>Completed 90%</td>
</tr>
<tr>
<td>Setting up a thin film deposition lab</td>
<td>Completed 40%</td>
</tr>
</tbody>
</table>

### ASB-COIMBATORE

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. To organize seminars and workshops to help train our faculty members and PhD scholars so that they can publish in better journals; 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; 3. It was suggested that more time be provided in the official schedule for research.</td>
<td>1. Seven seminars/workshops were held during the year. 2. All the course outlines were monitored. They were submitted in time with clearly laid out course objectives and evaluation criteria. 3. Mondays and Tuesdays pre-lunch time has been slotted for faculty members who do not have a class in that time to come together to discuss and collaborate on their research ideas. Thursdays have been dedicated for the Business Research Project work for second year MBA students.</td>
</tr>
</tbody>
</table>

### ASB-AMRITAPURI

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 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>1. Students had the opportunity to listen to talks given by several industry experts. There were 10 colloquiums held on various topics like Entrepreneurship, Basics of stock investing, Mindfulness and change management, How to succeed in life with values, morality, and character, Humanitarian and logistics management, Can one business unit have 2 revenue models?</td>
</tr>
</tbody>
</table>
2. Provide a global exposure to students by inviting professionals abroad to deliver course lectures via electronic means (Value added program).

2. Students experienced a global setting with international experts like Mr. Aris Bumm who is the Finance office at Man Truck, Switzerland, Dr. Harish who is an Equity investor and researcher at USA. Dr. Bodo Eickhoff who is the Senior Vice President Sales & Marketing Molecular Diagnostics, Roche Diagnostics Deutschland GmbH, DEGA, Germany. Mr. Jens Joergan Aakard the Senior project manager, TDC Group (Telecommunication in Denmark and Norway). Mr. Thomas Grau, Logistics manager at Doctors without Borders (DWB) France.

3. Recruit more faculty

3. Recruited 2 faculty

4. Encourage students to take up internships outside India

4. 2 Students Manikoth Sheekha Girish and Michael Lees had done their internships in - Control and Application Emirates (Abu Dhabi) and Visions (Bischofszell, Switzerland)

5. Encourage more Scopus indexed conferences and journals by faculty and students.

5. Was able to produce 8 Scopus papers.

ASB– KOCHI

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Recruitment of faculty in the Professor grade</td>
<td>Achieved</td>
</tr>
<tr>
<td>• Internal quality training for admin staff</td>
<td>Achieved</td>
</tr>
<tr>
<td>• Transportation arrangements for students travelling to Ettimadai for placement purposes.</td>
<td>Achieved</td>
</tr>
<tr>
<td>• Improvements in within-campus placement training</td>
<td>Discussions in Progress</td>
</tr>
<tr>
<td>• Increase consultancy assignments</td>
<td></td>
</tr>
</tbody>
</table>

ASB– BANGALORE

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>
<tr>
<td>To organize more Workshop for students in each course specialization.</td>
<td>We have conducted workshop on Excel, Digital Marketing and Financial Management</td>
</tr>
<tr>
<td>To encourage our faculty members to participate in research conferences, seminars and Faculty Development Programs;</td>
<td>Many of our faculty members participated in international / national conferences, seminars and FDPs.</td>
</tr>
</tbody>
</table>

*Attach the Academic Calendar of the year as Annexure.*
Part – B

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/DM/MCh</td>
<td>26</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>PG</td>
<td>112</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>UG</td>
<td>41</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Diploma</td>
<td>16</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Integrated</td>
<td>7</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>M.Phil</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>207</strong></td>
<td><strong>9</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

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

[Describe: (1) whether school follows CBCS (2) scheme for offering electives (3) types of electives and how they offer flexibility]

**ASE-COIMBATORE**

1. Choice based and open elective courses: The undergraduate curriculum for the 2015 batch includes choice based open elective courses like the live-in labs, negotiated studies and projects-based elective courses
2. Scheme for Elective Course Design: The electives courses are introduced on need basis any time in the curriculum on obtaining academic council approval.
3. Flexibility in curriculum for students taking internship in industry and other universities.
   a) Pre-final & final year courses and project from foreign universities facilitated by Amrita Centre for International Programmes (ACIP) International Partnering Institutions
   b) Transfer of credits for foreign exchange students from participating universities and organizations
   c) Fast-track courses for project interns at Industry and R&D Labs. Student go for internships in reputed companies and national research agencies like Microsoft, HCL, KalkiTech-Technopark, NLC, BSNL, HP, Uniq Technologies, DRDO, CDAC, Delta technologies, Ericsson, NAFEMS -Bangalore

**ASEd-MYSORE**

The Programme is structured on credit based system and continuous evaluation, following semester pattern.

The curriculum of the B.Ed. degree programme have credits, apportioned as below in the following knowledge segments:

- Core subjects
- Allied subjects and
- Electives
Additionally, skill training and some social interaction/social work/out reaching programme is also part of the programme.

Credits are assigned to the courses based on the following general pattern:
- One credit for each lecture period per week
- One credit for each tutorial of two periods per week
- One credit for each laboratory course/practical of two periods per week

The B.Ed. degree programme have a prescribed curriculum. The curriculum and the syllabi will be updated from time to time with consent of the Academic Council. Certain courses are identified as Core courses, certain others as allied courses and few others as Electives.

There is mandatory registration and credit earnings requirement for core courses. While it is mandatory to register for the allied courses, failure to earn credit in them does not necessarily mean repeating the courses. Often another course may be permitted as replacement course. Electives are to be chosen from those offered.

Electives List:
- Environmental Education
- Guidance and Counselling
- Health and Physical Education
- Research Methodology
- Vocational Education

AMRITA CENTRE FOR NANO SCIENCES

The Centre for Nanosciences and Molecular Medicine, Amrita University offers:
- Choice-Based Credit System for PhD programs
- Core with Elective option for PG programs
- Open options as Self-Study for PhD programs

ASB-COIMBATORE

The first year of the MBA programme comprising the first three trimesters offers only core courses in different functional areas of management in order to lay down the basic foundation in the discipline. In the second year comprising the fourth, fifth and sixth trimesters, we allow the students to choose ten elective courses depending upon their choice of the functional areas in which they want to specialize. Every student is allowed to specialize in their chosen area by taking at least five electives in that area. They can either distribute the remaining electives over a mix of other functional areas or can go for dual specialization. To qualify for dual specialization, they need to take at least five elective courses each from both the areas chosen. BRP is worth six credits (equivalent to two three credit elective courses). The BRP scheme allows a student to take up any management topic for his/her research study. He/she is guided by a faculty member who is chosen by him/her based on mutual consent between the student and the faculty member.

(ii) Pattern of programmes:

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Number of programmes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>135</td>
</tr>
<tr>
<td>Trimester</td>
<td>5</td>
</tr>
<tr>
<td>Annual</td>
<td>85</td>
</tr>
</tbody>
</table>

1.3 Feedback from stakeholders* (On all aspects)

Alumni [✓] Parents [✓] Employers [✓] Students [✓]
*Please provide an analysis of the feedback (use an Annexure if needed)*

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

**ASE-AMRITAPURI**
CSE: Object oriented programming course added, Industrial visit and distinguished lectures will be conducted during 3rd semester, A new course for Cloud Computing which need to focus more on mobile and includes app development will be introduced in 3rd sem, Revised the syllabus of Advanced Computer Networks, Mobile Communication Networks, Wireless Local Area Networks, and Computation Optimization. A new elective course introduced titled “Smart Sensor Technology, Introduced Trimester system.

CSN: Updated text book editions for all courses. Brought in active student participation in the course as they are more up to date about latest trends in malware & fill in the conceptual part of it

**ASE-COIMBATORE**
- Revision of B.Tech and M.Tech syllabi and regulations
  - With focus to pragmatic teaching more laboratories added to support the theory aspects
  - Provision for more electives from other engineering departments to promote interdisciplinary outlook
- To take forward the smart Cities Mission launched by prime minister, UGC has instructed all college and university to start a subject/course on urban planning. As per instruction from UGC, the department has offered new course CVL 474 Urban development Planning as an elective course for B.Tech students.
- Syllabus revision was carried out on 27.05.2017 where experts from various fields of social work had given inputs. Gender related issues, aspects of mental health and mental illness have been added in the course content. Certain course titles were changed. Winter and Summer Internship has been added by assigning credits.
- Syllabus for M.Tech Automotive Electronics was revised during this period.
- New elective courses added in the B.Tech CSE 2010 and 2015 curriculum includes the following
  - CSE467 and 15CSE373 - Introduction to system security and Offensive cryptography
  - CSE477 and 15CSE375 - Android Application Development -- Google Industry Elective

**ASAS-AMRITAPURI**
Syllabus is revised after every three years

**ASAS-KOCHI**
- Change in Syllabus for BBA Logistic
- Policies regarding Supplementary Examination changed.
- Yes, Introduction to Data Analytics – syllabus modified.

**ASAS-MYSORE**
- MCA Syllabus was revised
- The revised syllabus (2015) for all other UG and PG programme were continued and adopted for all the programmes
- Adopted the introduction of open electives with an intention of adding variety and to nurture interest
- Introduction of Amrita Value programme as an extension of Cultural Education for study in 2nd and 3rd year of the programme
- 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

**ASM-KOCHI**

- The World Bioethics Day 2016: The UNESCO Chair in Bioethics on “Human Dignity and Human Rights”. As part of this, the vertical integration of the bioethics curriculum in MBBS course in current academic year was initiated.
- PG: 5 new programmes started (1 DM; 2 M.Ch.; M.Phil (Cl.Psy); MPH) and curriculum was prepared and implemented in consultation with all concerned.

**ASN, 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.

**AMRITA SCHOOL OF PHARMACY**

Pharmacy Council of India introduced uniform syllabus for B.Pharm, M.Pharm and Pharm.D all over India.

**AMRITA SCHOOL OF DENTISTRY**

Incorporation of Bioethics into the curriculum from coming year onwards

**AMRITA SCHOOL OF BIOTECHNOLOGY**

No major revisions were attempted. However, for proper dissemination of the contents, the number of credits of the Recombitant DNA Technology for the BSc. Microbiology, Semester 5, has been increased from 2 to 3 (effective from 2017). Similarly, the number of credits of the Omes and Omics course (For BSc Biotechnology, Semester 5) has been reduced from 4 to 3.

**ASB-AMRITAPURI**

Curriculum reviewed every 3 years. Last curriculum review was done in the 2015-16 year and adopted for the 2016-18 batch onwards. A new specialization area in Business Analytics was introduced in the 2016-17 year.

**ASB- KOCHI**

- Regular update of curriculum and syllabi based on industry requirement
- All campus committee set up for course curriculum update
- Rule book edited to accommodate Independent Course of Study

**ASB- BANGALORE**

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

**1.5 Any new Department/Centre introduced during the year. If yes, give details.**
**ASE-AMRITAPURI**
- Center for Gender Equality and Women Empowerment.
- The United Nations has officially made Amrita University India’s first-ever UNESCO Chair on Gender Equality & Women’s Empowerment.

**ASAS-KOCHI**
Yes, Research Centre

**ASM-KOCHI**
- Department of Gynaecological Oncology
- Department of Rheumatology
- Department of Reproductive Medicine & Surgery

**AMRITA SCHOOL OF DENTISTRY**
Teledentistry unit was set up in the school. Collaborative programmes initiated with Sri Ramachandra Dental College & Hospital, Chennai.
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>1603</td>
<td>924</td>
<td>189</td>
<td>254</td>
<td>238</td>
</tr>
</tbody>
</table>

2.2 No. of permanent faculty with Ph.D. 436

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 130</td>
<td>V 27</td>
<td>R 4</td>
<td>V 0</td>
<td>235</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R 11</td>
<td>V 3</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R 90</td>
<td>V 2</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R 235</td>
<td>V 32</td>
<td>167</td>
</tr>
</tbody>
</table>

2.4 No. of (1) Guest (2) Visiting and (3) Temporary faculty 31 84 9

2.5 Faculty participation in conferences and symposia (*please provide details in Annexure*)

<table>
<thead>
<tr>
<th>No. of Faculty</th>
<th>International level</th>
<th>National level</th>
<th>State level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attended</td>
<td>149</td>
<td>184</td>
<td>62</td>
</tr>
<tr>
<td>Presented papers</td>
<td>266</td>
<td>249</td>
<td>12</td>
</tr>
<tr>
<td>Resource Persons</td>
<td>57</td>
<td>78</td>
<td>57</td>
</tr>
</tbody>
</table>

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

ASE-AMRITAPURI

- Trimester system introduced in MTech WNA program
- Interdisciplinary student projects.
- Flipped Classroom Learning method is tried and found effective for M.Tech Classes.
- Student/ faculty exchange programs with international Universities.
- Research seminar by faculty members in every fortnight
- 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.
- Internal Workshops for Faculty and Students
- Conduct of class committee meetings in class room itself, so that there is direct interaction between students and department.
- Lab FDP is conducted for Faculty and technical staff of EEE Dept, for getting complete awareness of the lab to be handled by them in the coming semester.
- “Amma Ariyan” Programme organized for all the mothers of the first year U G students. The programme focuses on a session on the psychological aspects blended with the legal side of the present situations faced by our children and an individual discussion on the academic progress of their ward with the respective advisors/counselors.
• EEE Dept conducted two days mock technical interviews for the final year students, to give a clear picture of how much effort they need to put so that they can succeed in the core placements and bag good job offers.
• CSN: Industry Student Meet such as SysInfo to give deeper understanding of the course through its application.

ASE-COIMBATORE

• Mini Project is a mandatory component of every laboratory. This inculcates the spirit of real time implementation and exposure to practical execution.
• Term Paper is enforced in theory subjects (PG level) to understand current scenario of the respective domain.
• Inclusion of laboratory experiments to foster theoretical understanding
• Model based teaching for conceptually difficult subjects like Electromagnetic Theory, Robotics, Electric Machines to name a few.
• 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.
• Motivate the students to participate in various club activities such as Indian Welding Society, Society for Automotive Engineers, Association of Mechanical Engineers and Automation and robotics club run by the department by giving weightage for each activity to improve their overall performance.
• Special leaves are sanctioned for both students and faculty to present their research outcomes in national/international conferences
• Department follows outcome based education which enhance the teaching methodology of the faculty.
• Media project for clients(Industry connect) and portfolio enhancement as part of Communication Department
• Students can apply their knowledge in a practical problem and are duly supported by technical staff from workshops/laboratories after working hours.
• Social communication lab – teaching students’ communication aids to work with the community.
• As a part of field work, students were placed in open community settings in rural areas to identify the problems of the individuals in community and plan interventions accordingly
• 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.
• Fast Track courses for Theory and more focus given to project for more publication

**ASAS-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.

**ASAS-KOCHI**
• Bridge course for non- computer science students
• Industrial Visits
• Field Trips and Industry visits to television channels, advertising agencies, and news agencies.
• Dramatic Performance in tune with academics, Theatre Workshops in Pedagogy, Exhibition on Renaissance English Theatre and Shakespeare’s England, Manuscript Journal, Publication of Anthology of Poems by students

**ASAS-MYSORE**
• 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.

**ASEd-MYSORE**
ICT based teaching, Inquiry-Based Learning

**ASM-KOCHI**
• Clinical Skill Simulation Centre: Simulation-Based Medical Education (SBME)
• Amrita University Management System (AUMS)
• Amrita Hospital Information System (AHIS)
• Amrita Learning Disability Centre
• Central Library started two new databases (WEB OF SCIENCE – Research based database; EBSCO Discovery Service)
• Robotic Surgery training programmes
• Cyber Knife training programme

**ASN, 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
• Regular journal clubs

**AMRITA SCHOOL OF PHARMACY**
• Student projects at UG level from first year onwards
• Develop research skills among students
• Encourage students and faculty Research publications
• Attend seminars and conferences/training programme
• GPAT Coaching in final year
• Tutorial classes
• Invited talks once in a month
• Soft skill training for final year students

**AMRITA SCHOOL OF DENTISTRY**
• “Knowing the Legend” programme initiated for the students to imbibe the principles of success and live meaningful lives.
• Interns sensitized to innovative outreach programmes like Health promoting school

**AMRITA SCHOOL OF AYURVEDA**
• Conducted workshops on various specialised subjects by various departments
• Presentations by the students
• Giving extra classes in related subjects like Bio technology
• More seminars by students

**AMRITA SCHOOL OF BIOTECHNOLOGY**
As part of the open elective scheme, three courses viz. Robotics and Biology, The Message of Bhagavad Gita and English for Professional Communication were recommended to include in the MSc. Syllabi starting from July, 2017. These courses are expected to create special interest in students on subjects other than their prescribed ones.

**AMRITA CENTRE FOR NANO SCIENCES**
Group meetings and presentations, Translating learning to society, Student Newsletter, and Institutional Newsletter

**ASB-COIMBATORE**
• A six credit (equivalent to two full courses) component called Business Research Project (BRP) has been introduced a couple of years back by the School. All the students choose a research topic of their interest in any of the functional areas of management and work with a faculty guide towards the publication of a Scopus indexed publication. This has really helped to sharpen our students’ analytical, conceptual, research and communication skills. We are perhaps the first B-School in the country to make academic research an important and integral part of the curriculum. Given the fact that India is still behind many other major developing countries like China in research publications, we feel that it is an important contribution that we are making to our nation.
• A Business Analytics Lab was set up by our school in collaboration with IBM last year to provide hands on training in Business Analytics to our students along with the core course on Business Analytics which was recently introduced.
• As a part of the core course called Self Awareness and Personal Growth, students are given training in Yoga.
• As a part of the elective courses at the school, we have unique courses such as Management of Self for Success and Happiness, Management Beyond Profit and Cross Cultural Management.
• We also have a core course on Soft Skills which helps the students to become ready for the placement process as well as a career in business management post graduation.

**ASB- KOCHI**

Summer internship improvements:
- Poster presentation introduced for summer internship presentation
- Feedback about the students are being taken from the companies
Real-time small projects within courses (Studying the working capital management of small business, projects in research methodology)

**ASB- BANGALORE**

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

**ASM-KOCHI**

Examination : Online process started for MD/MS/PG Dip programmes for mark and attendance entry and eligibility and issue of hall ticket etc. For DM/M.Ch. also, the process will be started from the current academic year.

**AMRITA SCHOOL OF DENTISTRY**

Open book examination for postgraduates (departmental exams)

**AMRITA SCHOOL OF BIOTECHNOLOGY**

In order to avoid large scale recycling of questions and to maintain the quality of questions, a seven member scrutiny committee was formed. And it is made mandatory that every question paper should get the approval of at least three members of the scrutiny committee.

**ASB- KOCHI**

Online quizzes introduced in SHRM course

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2.7 Total No. of actual teaching days during this academic year

2.8 Examination/ Evaluation Reforms initiated by the Institution
   (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

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**Amrita University Management System**

Academic administration at AMRITA is completely automated using In-house developed academic ERP system, AUMS (Amrita University Management System) for academic and administrative purposes. Access to student and parent portals of AUMS for student performance & attendance result in increased rapport with stakeholders. AUMS has the following modules:

- Academic Administration system which encompasses admission, timetable, course registration, placement management, hostel management, inventory and purchase management, facilities management, evaluation, grading, certificate generation, finance, budgeting and fee collection
1. Third assessment - For those who missed the assessment 1 or 2 under genuine medical ground
2. Result Publication: 10-12 days after the last day of examination. Results published through website, Amrita University Management System (AUMS)-student/parental portal.
3. Application for re-evaluation:- After publication of results, Student will be shown the end semester exam paper and the re-evaluation done by the same faculty in the presence of respective chairman. If a student still not satisfied by the evaluation process he/she can represent it to the Dean-Engineering.
4. Supplementary Exams: For those who got F grade in the courses registered. Students can appear for the end semester exam alone with the previous internals. During the even semester the students can apply for odd semester supplementary exams and vice versa. In the fourth attempt the internal component vanishes and the student has to write the supplementary for the entire 100 marks. Supplementary examinations are evaluated against the most recent grade rule.
5. The students with FA grade have to re-register for the course whenever the course is offered or as a run time redo course.
6. Remedial Options: Re-registration/ run time redo/ contact: Re-registration and run time are the modes to improve the internal marks. Final semester and term out students may register for contact mode to clear the failed courses subject to the approval of the school head. A maximum of two courses can be taken under contact mode in the entire programme of study.

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

AMRITA SCHOOL OF DENTISTRY
All the department heads (10) were trained in Bioethics and oriented to restructure curriculum accordingly

2.10 Average percentage of attendance of students

2.11 Course/Programme wise distribution of pass percentage:

ASE-COIMBATORE

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students</th>
<th>Division</th>
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<tr>
<td></td>
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<tr>
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**ASE-BANGALORE**

**B.Tech.**

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<th>Total no. of students appeared</th>
<th>Distinction %</th>
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<th>II %</th>
<th>III %</th>
<th>Just Pass %</th>
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**M.Tech.**

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**ASAS-KOCHI**

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**ASAS-MYSORE**

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**ASEd-MYSORE**

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**ASM-KOCHI**
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**AMRITA SCHOOL OF PHARMACY**

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<tr>
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<tr>
<td>II Yr</td>
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<td>IV Yr</td>
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**AMRITA SCHOOL OF DENTISTRY**

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<tr>
<td>II BDS</td>
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<td>III BDS</td>
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### AMRITA SCHOOL OF AYURVEDA

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<tr>
<td>BAMS-IIyear</td>
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<tr>
<td>BAMS-IIIyear</td>
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### AMRITA SCHOOL OF BIOTECHNOLOGY

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### AMRITA CENTRE FOR NANO SCIENCES

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### ASB-COIMBATORE

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### ASB-AMRITAPURI

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### ASB- KOCHI

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### ASB- BANGALORE

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<td>EMBA</td>
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2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

**ASE-COIMBATORE**

- The feedback system is automated and is collected twice a semester. Feedback figures are used to assist in faculty development program based on targeted needs of individual faculty.
- Grades are assigned in a class committee meeting comprising of Senior Faculty in the department and the class committee members.
- Teaching learning process were evaluated based on the difficulty level of the question paper and by checking attainment level in each periodical test.
- It is also monitored by checking the problem solving ability of the student when they were given a real time problem as an assignment or mini project.
- Faculty development programs are conducted.
- Course Mentors are identified for each course to plan and monitor the conduct of the course.
- Course committee meeting is being held at the beginning of the semester to discuss on the mapping of program objective to course objective.
• Class committee meeting is held thrice a semester to identify the student - teacher perspective of the course conduct.
• Outcome Based Education is done for all the courses semester wise to monitor the performance of the students on regular basis. Interim corrections are taken to improve the quality of course delivery.

**ASAS-AMRITAPURI**

Periodical review and peer evaluation

**ASAS-KOCHI**

• We collect feedback from students and parents by continuous interaction.
• Conducting expert lecture series Vidyamritam, Programs supported by Computer Society of India.
• Remedial Courses for slow learners.
• Parental counselling.
• We collect feedback from students and parents by continuous interaction.
• Conducting expert lecture series Vidyamritam, Programs supported by Indian Chamber of commerce and Indian Management Association
• Remedial Courses for slow learners.
• Parental counselling.

**ASAS-MYSORE**

• IQAC initiated the practice of department wise course plan presentation by course handling teachers followed by a brain storming session from the peer and modification of the course plan for improved delivery of the course content.
• IQAC arranges orientation for the new recruits regarding the teaching practices and other matters.
• Organises motivational talks for faculty members on general topics such as Research Proposal Preparation, student counselling etc.

**ASEd-MYSORE**

Facilitates for optimistic changes in process of Mentoring Students

**ASM-KOCHI**

Proposals, suggestions & feedback received from the Head of the Departments are put up to the quarterly IQAC meetings and also to the Medical Education Unit/UG/PG Committees/College Council meetings for information and necessary action.

As per the suggestions of the Heads of Departments, latest and state of the art teaching and learning technologies are implemented such as the already implemented Skill Lab, Mannequins Robots, online services where the performance and progress can be monitored by the students and parents, creating higher educational facilities for the passed out students etc.

**ASN, KOCHI**

• 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.
• 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

AMRITA SCHOOL OF PHARMACY

• Online Faculty feedback is collected from the students. Faculty Evaluation report is collected and evaluated.
• Two workshops also related to pharmacokinetic data analysis using phoenix winnonlin and Biostatistics were conducted in the academic year 2016-17
• Two day programme “Research Day 2017” on 17th and 18th March 2017. Scientific sessions including plenary lectures, keynote addresses by various expert professionals and oral presentations by students and off college delegates were conducted simultaneously under the 4 major disciplines of pharmacy. Pharmacy practice with the theme “Patient Outcome Improvement”, Pharmaceutics with the theme “Formulation and Development”, Pharmacology with the theme “Pharmacological Screening” and department of Pharmaceutical chemistry and Pharmacognosy with the theme “Phytomedicine and Drug Discovery”.

AMRITA SCHOOL OF DENTISTRY

• A Sound mentoring system is in place to ensure feedback from the students. Special emphasis given to look into various issues faced by students and attempts made to reduce their stress levels.
• IQAC constantly monitors the teaching and learning process by student evaluation forms, patient satisfaction feedbacks, monitoring of exam results etc.
• The IQAC organizes soft skill development classes for students. Educational movies are also screened to inculcate values.
• Undergraduate students are encouraged to take up research to sharpen their critical thinking

AMRITA SCHOOL OF AYURVEDA

• In the Action Plan for the curricular year is prepared after going through the performance in the professional examinations. IQAC give 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.

AMRITA SCHOOL OF BIOTECHNOLOGY

• Periodic class committee meetings involving IQAC members, teaching faculty members and student representatives to review academic programs, address problems and initiate new approaches to improve quality of education
• Review online feedbacks received from students at the end of the semesters and initiation of corrective measures
• Monitor and recommend necessary curriculum changes

ASB-COIMBATORE

IQAC ensures that all the faculty members teaching the courses submit their course outlines in time and clearly mention the course objectives and evaluation criteria. The quality of questions set in the examinations is also constantly evaluated. The IQAC monitors the quality of course delivery by looking at the student feedback for each course that is submitted by the students at the end of each course. There are student members on the IQAC which ensures that the IQAC gets continuous feedback about the quality of delivery of different courses.

ASB-AMRITAPURI
Based on student feedback from class room interactions with faculty, their experiences during placement interviews, guidelines from the relevant authorities both at the University and the Governmental levels, the IQAC conducts group/one-on-one discussions with faculty to evaluate the relevance of the courses offered and the methods of delivery.

**ASB- KOCHI**
- Feedback process and modification of courses as per feedback
- Regular upgradation of course contents in co ordination with the PGP committee
- Curricular, co-curricular and extra-curricular initiatives introduced based on student and industry feedback

**ASB- BANGALORE**
- The IQAC Ensure timely submission of the submission of the course outlines of all the courses
- IQAC ensure efficient classroom infrastructure. Periodical check of classroom hardware and software so that all the system work efficiently.
- It ensures that all the students get a copy of the course outline for every course before the course begins. In Addition to that Faculty provides all the related teaching material to students. Receive feedback from the students and share this with respective faculty for corrective action

### 2.13 Initiatives undertaken towards faculty development

*(provide details in an Annexure)*

<table>
<thead>
<tr>
<th>Faculty / Staff Development Programmes</th>
<th>Number of faculty benefitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresher courses</td>
<td>43</td>
</tr>
<tr>
<td>UGC – Faculty Improvement Programme</td>
<td>3</td>
</tr>
<tr>
<td>HRD programmes</td>
<td>2478</td>
</tr>
<tr>
<td>Orientation programmes</td>
<td>817</td>
</tr>
<tr>
<td>Faculty exchange programme</td>
<td>14</td>
</tr>
<tr>
<td>Staff training conducted by the university</td>
<td>124</td>
</tr>
<tr>
<td>Staff training conducted by other institutions</td>
<td>193</td>
</tr>
<tr>
<td>Summer / Winter schools, Workshops, etc.</td>
<td>103</td>
</tr>
<tr>
<td>Others</td>
<td>159</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>1827</td>
<td>1</td>
<td>27</td>
<td>17</td>
</tr>
<tr>
<td>Technical Staff</td>
<td>776</td>
<td>2</td>
<td>70</td>
<td>3</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

ASE-AMRITAPURI

WNA: Research Seminar Series, Research Day celebration, Poster presentation of MTech students, distinguished talks by experts

CREATE: focuses on Modeling, Simulation and Management of Adaptive learning systems, Language Learning systems, Virtual and Interactive learning environments, ICT-based intervention for differently abled learners, Availability of e-learning content in local regional languages, Digital literacy in rural community centers, Use of visualization tools in data analysis of teacher and learner performance, Strategic uses of handheld computing devices in learning and Design and deployment issues in cloud computing environments. Department actively involved in the research oriented programmes for students including student exchange programme, projects, extension activities as education, health and social awareness, adult education and language labs.

ASE-COIMBATORE

- Formation of Thrust Area Groups (TAG) and creation of a conducive atmosphere to initiate interdisciplinary research. The role of thrust area group includes the following:
  - Writing research proposals.
  - Weekly research discussions on technology and project/product initiatives and solutions
  - Inviting experts for talks on proposal writing.

- Junior Faculty counselled to register for research under the various schemes of the University
- Publications mandate, joint proposals, inter departmental joint proposals, collaborations with IISc, IIT, and foreign universities, conduction of international conference in the department, introduction of publication portal, workshops on the same, workshop from springer nature etc
- Conducts workshops/Seminars/Conferences and invited talks on regular basis
- 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.
- All the department laboratories are opened till 7pm for students and faculty research activities.
- Students were taught to use SPSS.
- Participatory Rural Appraisal Workshop was conducted for students
- Students placed in Funded projects for Field work, Internship and Job.
- Field Action Projects during Field work Practicals
- Conducting workshops update knowledge of students. Submitting research proposals to the different funding agencies

ASAS-AMRITAPURI

The university has a Research Committee to monitor and address issues related to research. There is a chairman in each campus will have the overall responsibility for the PhD programme in the particular campus. The Dean of the campus/Dean of the school/Principal of the School/Senior can be appointed as the chairman. Vice-Chairman and also representatives from each department, eminent scientists/researchers from premier institutes in India and abroad is included as members of the research committee.

The university management provides all infrastructural and monetary facilities for the smooth
conduct research schemes/projects. They also provides seed money for the initiation of the project. Also the university has a separate wing in its administrative section in handle all things related to research and development. The procedures related to sanctions or purchases of things related to projects to be made by the investigators are very simple. There is autonomy to the principal investigator for utilizing overhead charges. The timely release of grants auditing and subsequent submission of utilization certificate to the funding authorities are also easily possible and the university had a well defined and well established criteria in monitoring all things related to research.

The university provides infrastructure with sophisticated instruments that are required for research purpose. In the case of beginners the university provides financial as Seed Grant, which help for beginning of the research work. Thrust area Groups (TAG) were formed in each departments, will initiate research, Senior Faculty will be the TAG lead and UG/PG students were allotted them for doing mini projects. It is mandatory, to have Scopus indexed publications for students to get pass from the University. Also additional grace marks will be provided for students with multiple paper publications. Moreover the central library is provided with all the different journals which make literature survey easier. Funding is also given for attending workshops, seminars and conferences. The university had signed MoUs with well-established institutions of national and international importance, industries and other corporate houses all over the world. These collaborations initiated multidisciplinary research in almost areas starting from basic sciences, engineering, management, medicine etc. Theses collaborations play a pivotal role in enhancing the research culture and research output and developmental activities of the university.

The faculty members are given grant in various seminars, workshops, symposia etc and present papers in various conferences. Thus the university enriches professional competency among the staff. The university hosts several scientific exhibitions, Tech fests in field related to science technology, arts and management to students, this will create scientific temper among the student community. Also, invited talks are there by eminent scientists, entrepreneurs, industrialists from India and abroad so that the students have an idea about the emerging trends in their concerned area of study. The university provides funds for all these types of activities. We are conducting several national and international seminars/symposia’s/workshops for the benefit of student community at Amrita. Here students have given an opportunity to present their papers in their concerned field of study. Also the students are provided with financial support from the university to participate and present papers in national/international conferences/workshops/symposia’s etc.

The student projects are mandatory in the learning programmes of both UG and PG Curriculum. The PG students are sent to CSIR and National laboratories and premier research institutes in India for six months to carry out their project work. The students are regularly send to premier R&D institutions in India like IIT Bombay, IIT Madras, IIT Guwahati, Institute of Nano Technology, Mohali, National Institute of Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, CLRI, Chennai, Mahatma Gandhi University, Kottayam, Cochin University of Science and Technology(CUSAT) Cochin, CFC, Kozhikode NCL, Pune, IICT, Hyderabad etc for their project work. Faculty uses both their institutional as well as personal contacts to facilitate such projects.

ASAS-KOCHI
- Introduced tag system.
- Subscription of online resources, INFLIBNET etc.
- Encouraging faculty members to attend conferences and workshops and present papers.
- Publications of Students and Faculty.

ASAS-MYSORE
- The idea of dedicating one day per week exclusively for research / publication work for the faculty members, was mooted by IQAC with an objective of providing the faculty members a fully immersed and focused environment that can enhance research activities in the campus.
- It was decided to conduct a conference coupled with a journal tie-up so as to get the select papers published in reputed journal.
**ASEd-MYSORE**
- Facilitates (ICT) Technology Resources for conducting research
- Sufficient adjustment in Timetable for all faculties to conduct research
- Saturdays dedicated hours for research and publication
- Students were guided to present papers

**ASM-KOCHI**
- Exclusive Central Research Laboratory with state of the art facilities
- Institutional financial assistance for research
- External agency research grants
- Exclusive financial assistance for students’ research

**ASN-KOCHI**
- 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.

**AMRITA SCHOOL OF PHARMACY**
- Develop research skills in students.
- Encourage students for research publications in scopus indexed journals
- Students as well as faculty publication portal.
- Students are involved in projects from second year
- Students provided grade marks for scopus indexed journals and
- Publication amount is reimbursed to the students.

**AMRITA SCHOOL OF DENTISTRY**

In order to promote research capacity among the faculty and postgraduate, In-house training programme is held in scientific language writing; grant writing, evidence based research and research methods. In addition to these, statistical training in dental research is being held. Faculty researches publications are given onetime cash reward for publication and scholarship for attending the national and international conferences. The internal seed grant is being promoted to faculty to do preliminary research and apply for extramural funding with that research. Also, research sensitization in undergraduate program is encouraged and students are encouraged to publish papers.

**AMRITA SCHOOL OF AYURVEDA**
- The separate Department Research & Development ACARA is conducting conferences and international seminars on various topics to improve the Research Climate.
- Improving the facilities in Research Lab
AMRITA SCHOOL OF BIOTECHNOLOGY

- The School organized a two day event called “Biocrest 2017”, an International Symposium on Microbial Pathogenesis which brought together experts in the many diverse areas of pathogenesis, drug resistance and drug discovery, with an effort to create a better understanding of the host-pathogen interaction and antibiotic resistance.
- Strongly involved in activities to promote research awareness among students through programs such as Research Methodology courses, dissertation works at the undergraduate level and formulation of research hypothesis and publication of research findings.
- To keep updated, the School organizes frequent seminars by inviting expert speakers within different disciplines of life science.

AMRITA CENTRE FOR NANO SCIENCES

Personal research mentoring of every single student, Six monthly evaluations in presence of a research committee/doctoral committee, Publication emphasis.

ASB-COIMBATORE

- It was suggested by IQAC that we organize more seminars and workshops to help train our faculty members and PhD scholars so that they can publish in better quality journals. Seven such seminars/workshops were conducted as a result of that.
- Mondays and Tuesdays from morning till lunch time, all the faculty members who do not have a class get together and discuss their research ideas with each other or at least sit together and do their research work. This idea was suggested both to increase the focus of our faculty on research as well as to promote camaraderie and research collaboration among our faculty team.
- Thursdays have been set aside for the second year students as the BRP research day as a result of IQAC recommendation. No classes are scheduled for them on Thursdays. All the second year students are required to meet their BRP guides and work on their BRP projects.

ASB- KOCHI

- Promotion of reading and research orientation through each course in the MBA curriculum
- Early start to Independent study course activities.
- Research paper submission made mandatory at the end of ICS.
- Grading of independent study course linked to publication
- Training session on Publications Tracking Portal to streamline the publications tracking portal.

ASB- BANGALORE

- Faculty are encouraged to engage in research activities.
- 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.

3.2 Details regarding major projects – above INR 5 Lakhs (provide details in an Annexure)

<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>12</td>
<td>108</td>
<td>59</td>
<td>178</td>
</tr>
<tr>
<td>Outlay in Rs. Lakhs</td>
<td>198850000</td>
<td>816877602</td>
<td>372744995</td>
<td>1202916690</td>
</tr>
</tbody>
</table>
3.3 Details regarding minor projects – below INR 5 Lakhs (provide details in an Annexure)

<table>
<thead>
<tr>
<th>Completed</th>
<th>Ongoing</th>
<th>Sanctioned</th>
<th>Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>3</td>
<td>89</td>
<td>10</td>
</tr>
<tr>
<td>Outlay in Rs. Lakhs</td>
<td>116000</td>
<td>803626</td>
<td>1348500</td>
</tr>
</tbody>
</table>

3.4 Details on research publications (provide details in an Annexure)

<table>
<thead>
<tr>
<th></th>
<th>International</th>
<th>National</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peer Review Journals</td>
<td>696</td>
<td>75</td>
<td>0</td>
</tr>
<tr>
<td>Non-Peer Review Journals</td>
<td>8</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>e-Journals</td>
<td>27</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>Conference proceedings</td>
<td>631</td>
<td>87</td>
<td>0</td>
</tr>
</tbody>
</table>

3.5 Details on Impact factor of publications:

h-index of university: 64  
No.s in SCOPUS in 2016 calendar year is 1314

The following are the faculty with maximum no of scopus – Indexed Papers

<table>
<thead>
<tr>
<th>Name of Faculty</th>
<th>School/centre</th>
<th>H-Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. K P Soman</td>
<td>Engineering</td>
<td>8</td>
</tr>
<tr>
<td>Dr. R. Jayakumar</td>
<td>Nano</td>
<td>47</td>
</tr>
<tr>
<td>Dr. Shantikumar V Nair</td>
<td>Nano</td>
<td>37</td>
</tr>
<tr>
<td>Dr. R Krishna kumar</td>
<td>Medicine</td>
<td>16</td>
</tr>
<tr>
<td>Dr. Maneesha Ramesh</td>
<td>Engineering</td>
<td>7</td>
</tr>
<tr>
<td>Dr. D.M. Vasudevan</td>
<td>Medicine</td>
<td>21</td>
</tr>
<tr>
<td>Dr. K.P. Chennazhi</td>
<td>Nano</td>
<td>26</td>
</tr>
<tr>
<td>Dr. Sheela Nampoothiri</td>
<td>Medicine</td>
<td>16</td>
</tr>
<tr>
<td>Dr. Rajesh Kannan</td>
<td>Engineering</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Deepthi Menon</td>
<td>Nano</td>
<td>22</td>
</tr>
</tbody>
</table>

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>0-5 Years</td>
<td>ISRO, BRNS, DST, NDEF, APSSDC, Graduate institute of International and development studies, Geneva, DST-SERB, CERI, TDT, FIST, SERB Early Grant, NRDMIS, Habitat Energy Cell, SYST, Indo Russian Call (RFBR), DBT, ICSSR, ISRO-Respond, GATET, DRDO., Biotechnology Industrial Research Assistance Council (Birac), And Bill &amp; Melinda Gates Foundation (BMGF) And BIRAC, NOW-NTRO, SANDEE, Spices Board, Coconut Development Board, Ministry of Earth Sciences, ICMR, Stelis Biopharma, KSCSTE</td>
<td>421073764</td>
<td>107131000</td>
</tr>
<tr>
<td>Minor Projects</td>
<td></td>
<td>National Commission for Women</td>
<td>460500</td>
<td>460500</td>
</tr>
<tr>
<td>Interdisciplinary Projects</td>
<td>0</td>
<td>L &amp; T, Bristol-Meyer Squibb, LeadInvent</td>
<td>50199999</td>
<td>50199999</td>
</tr>
<tr>
<td>Industry</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>sponsored</td>
<td>Pharma Inc</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Projects sponsored by the University/College</td>
<td>Section 35-Research for HuRT, Amrita Internal Seed Fund, FIST, DST, Amrita University, Kerala State Council for Science Technology &amp; Environment And Amrita University Internal projects</td>
<td>30470600</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Students research projects (other than compulsory by the University) | |
| Any other (Specify) | |
| Total | |

3.7 No. of books published

i) With ISBN No. | 12 | Chapters in Edited Books | 73 |

ii) Without ISBN No. | 0 |

3.8 No. of University Departments receiving funds from

<table>
<thead>
<tr>
<th>Agency</th>
<th>UGC-SAP</th>
<th>CAS</th>
<th>DST-FIST</th>
<th>DPE</th>
<th>DBT Scheme/funds</th>
</tr>
</thead>
</table>

3.9 Revenue generated through consultancy | 30,416,383 |

3.10 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>7</td>
<td>13</td>
<td>7</td>
<td>6</td>
<td>46</td>
</tr>
</tbody>
</table>

| Sponsoring agencies | DST, ISRO, IETE, CSI, BRNS |

3.11 No. of faculty served as experts, chairpersons or resource persons: More than 25%

3.12 No. of collaborations

<table>
<thead>
<tr>
<th>International</th>
<th>National</th>
<th>Any other</th>
</tr>
</thead>
<tbody>
<tr>
<td>57</td>
<td>140</td>
<td>26</td>
</tr>
</tbody>
</table>

3.13 No. of linkages created during this year | 27 |
3.14 Total budget for research for current year in lakhs:

<table>
<thead>
<tr>
<th>From Funding agency</th>
<th>From Management of University/College</th>
</tr>
</thead>
<tbody>
<tr>
<td>430,578,303</td>
<td>210051543</td>
</tr>
<tr>
<td>Total</td>
<td>640,629,846</td>
</tr>
</tbody>
</table>

3.15 No. of patents received this year

<table>
<thead>
<tr>
<th>Type of Patent</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>31</td>
</tr>
<tr>
<td>Granted</td>
<td>2</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>9</td>
</tr>
<tr>
<td>Granted</td>
<td>5</td>
</tr>
<tr>
<td>Commercialised</td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>0</td>
</tr>
<tr>
<td>Granted</td>
<td>0</td>
</tr>
</tbody>
</table>

3.16 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>51</td>
<td>21</td>
<td>22</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

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

343

697

3.18 No. of Ph.D.s awarded by faculty from the Institution

56

3.19 No. of Research scholars receiving 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>42</td>
<td>55</td>
<td>53</td>
<td>19</td>
</tr>
</tbody>
</table>

3.20 No. of students Participated in NSS events:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
</tr>
</thead>
<tbody>
<tr>
<td>165</td>
<td>0</td>
</tr>
<tr>
<td>National level</td>
<td>International level</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

3.21 No. of students participated in NCC events:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>National level</td>
<td>International level</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

3.22 No. of Awards won in NSS:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>National level</td>
<td>International level</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

3.23 No. of Awards won in NCC:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>National level</td>
<td>International level</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
3.24 No. of Extension activities organized

<table>
<thead>
<tr>
<th></th>
<th>University forum</th>
<th>College forum</th>
<th>NCC</th>
<th>NSS</th>
<th>Any other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>102</td>
<td>72</td>
<td>0</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

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

**ASE-AMRITAPURI**

- Conducted health awareness sessions, mal nutrition, sanitation, hygiene sessions for women and children
- Conducted SHG meetings and educated the benefits of SHG and schemes for SHGs, to encourage continuing SHG
- Sessions on Govt. Schemes (NAREGA & MANREGA), Pension, Govt schemes - 1- pradhan - mantri awas yojna., 2- pradhan mantri mudra yojna - business-loan., 3- pradhan mantri rojgar yojna., 4- Teelu rauteli pension., 5- state viyadhi nidhi help samti, Jandhan Yojna, Atal Penshan Yojna, Sukannya Samridhi Yojna, Rupay card benefit etc were conducted
- Water testing was conducted to give awareness of clean drinking water and its affect on health
- Amala Bharatam Campaign, cleanup drives were conducted in many villages. Swacchh Bharat awareness and benefits were taught in most villages.
- Hand washing sessions were held in villages, schools. Nail cutting was done and its importance was taught.
- Women health, sanitation, menstrual hygiene awareness sessions, toilet usage and maintenance were held
- Love Jihad & Human Trafficking, Gender Equality, domestic violence, alcoholism, child sexual abuse awareness sessions were held.
- Yoga sessions were held. Women’s day was celebrated to take opportunity to pay respects to the women in the village.
- Ideal village activity was conducted to make villagers think what they can do for village.
- Waste management, conservation of water, tree planting
- Community events driven by villagers were conducted, like Alcohol ban, clean up drives, yoga sessions, tree planting, street plays to spread awareness health, legal, hygiene, conservation, values.
- Post training activities like tie and dye workshops with flowers, soap making products, small bags for packing soaps, arconaut plates making were taught.
- Center staff, mtech students volunteered their time during Amma birthday celebrations
- Mtech students volunteered their time during mtech admissions.

**ASE-COIMBATORE**

- Setting up of a Power System Laboratory ( Hardware Based)
- Setting up of an Electric Drives Laboratory ( Hardware Based)
- Setting up of a Control System Laboratory ( Firmware Based)
- Research and consultancy joining hands with the government: Works carried out in these aspects are :
  a) The beach erosion control project
  b) Funded project submission for costal reservoir.
  c) Live in labs project : As part of Live in Labs projects student went to following places and actively participated in projects with prime goal of social welfare
    (1) Deurbal village, Bastar District, Chhattisgarh
    (2) Rathapur , Bhojpur
    (3) Dunda in Uttarkashi, Uttarakhand
    (4) Sadiyaval, Coimbatore, Tamilnadu
    (5) Juna Kathiwada, Alirajpur District, Madhya Pradesh
Mr. BA Sabarish and Ms. S. Vidhya are principal investigators of the Live-in-lab project “Vaccination monitoring for children in Rural”.

A National level one-day workshop on “Challenges and Sustainable Solutions for Rural India (CSSRI 2017)” was conducted on 9th March 2017. The workshop made a platform to realize the challenges in the living standards of rural people and by exploring solutions through easily available natural and human resources.

Participation in Coimbatore Area Development Programme (ADP) Child Protection Committee Meeting at Corporation Kalayana Mandapam, Edaiyarpalayam Road, Kavundampalayam, Coimbatore

Well cleaning with the participation of Community at tribal village, at Managalathi chelaar Tribal colony in Walayar

Amrita University, SAARC Members, Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP), joined For Expert Consultation Meeting At Coimbatore Campus

MSW students performed Mime on Mental health at Shivesh at Shivesh Autism school, Coimbatore annual day celebrations on 28th August 2016.

Contribution to St.Joseph Old Age Home, Podanur, Coimbatore by Students and Faculty Members of Amrita Vishwa Vidyapeetham University

MSW Students Volunteered at Coimbatore Cancer Foundation (CCF) Marathon

Participation in “Joy Of Giving” celebration by Dept. Of Social Work, at Sri Krishna Hall, Amrita University, Coimbatore.

No Food Waste Day Organized by Department of Social Work

World Mental Health Day Celebrations at Amrita University Campus & Coimbatore Railway Junction

MSW students volunteered for Socio- Economic Survey in Tribal Colonies of Parambikulam & Vazhazhi Gram Panchayat, Kerala

Department of Social Work, Amrita Vishwa Vidyapeetham University conducted Capacity Building Training Programme in partnership with UNICEF October - November 2016

Awareness Programme on “First Aid in Road Accidents and Skin Donation”

Professional Intervention by I MSW students as part of their field work for Disabled Person.

Session by II MSW student for Sarva Shiksha Abhiyan (SSA) teachers on “Psycho Social support to Children”

Awareness Program on National Girl Child Day at Ashoka Puram Government Higher Secondary, Thudiyalur, Coimbatore.

II MSW students attended a Gram Sabha at Pichanur Village Panchayat and created awareness on “Child Rights and Child Protection”.

Participation by II MSW student in “Gender, Diversity and Equal Working Environment” at Shanti Ashram

International Conference on Nurturing Global Mental Health- a Paradigm Shift was jointly organised with the School of Social Work, University at Buffalo, USA on 8th, 9th and 10th March 2017.

As a part of the Deepavali celebration the CSE department on October 2016 visited the government schools in C.G.Pudhur, Puthupathy, Chinnampathy, and Muruganpathy. One of CSE alumni Abisheik (2011-15 batch) sponsored T-shirts for nearly100 kids in all fours schools. In addition, faculty members of CSE and final year B.Tech and M Tech students took part enthusiastically in sponsoring dresses, plates, gifts, gardening tools, indoor game kits (ludo, carom, chess), books, note books, pens, pencils, crayons, DVD player etc. to the kids. As per the request from the School Principal, the black boards of these schools were repaired and painted.

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Hair donation camp
• A one day workshop on “Self Employment training for Tribal Villagers”, March 11, 2017. The villagers were provided training in the following areas.
  • Preparation of Bathing Soap and Washing Powder
  • Preparation of Dish wash Liquid and Washing Soap.
  A sale of these products was facilitated during Amritotsavam 2017, and sales worth Rs.16,000 was reported.

ASE-BANGALORE
• Blood donation camp, Joy of Giving, Swachch Bharath activity in the college campus and in the neighbourhood; training for students of the local community in Computers towards the objective of Digital India; Yoga and Sports training for students of local govt. schools; teaching children in nearby slums some basics of Maths and language; conduct of music therapy sessions for cancer patients at Kidwai cancer hospital.

ASAS-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.
• Serve an Hour- Awareness Campaigns in Schools (Nov 2016 & May 2017)
• SSR Projects- Traffic Awareness, Old Age Home Visit and Distribution of Materials etc
• Department of Social Work has been organized as an outreach program to impart training for trainers on counselling in collaboration with Mata Amritanandamayi Math, Thiruvananthapuram Chapter of. The participants of the 125 hours of workshop, spread over a period of one year with contact classes at Thiruvananthapuram on first and third Sunday. As a certificate course in counselling

HARITHANGANAM
The Field work trainees conducted a community program at Govt Old age Home, Kollam on World Greenery Day (4-5-2017). The program was conducted with the motive of promoting kitchen gardening and organic farming at old age home. The program was inaugurated by the Asst. Agricultural officer. The agricultural officer rendered an awareness class on organic farming techniques and the program was inaugurated with planting of saplings. The trainees also conducted a medical camp at the old age home in collaboration with the viyomithram project.

AMMA ARIYAN
The field work trainees at QSSS Kollam has done their community program at ICDS kureepuzha. The program was conducted on 27-04-2017. The event was inaugurated by District Childline Nodal Officer Mr Abrah.am. The target community was teenage girls and mothers. The purpose of the program was to provide information regarding effective parenting in teenage and also the service provided to children like that of child line India. Interactive session has been held to know about the impact made by program on the target community.

"DEPRESSION- LET'S TALK"
The field work trainees (Members: Kishore Mohan & Aneesh Abraham) rendered an awareness class in commemoration of the World Health Day on April 7th on the theme Depression. The class was arranged on the PHC premises of Pathiyoor Panchayat and around 25 Kudumbashree workers attended the program.

"GOOD TOUCH AND BAD TOUCH"
The field work trainees (Members: Renu Ravindran, Rajeev V.R & Meera Nair.M) as part of concurrent field work conducted community program on the topic Child Safety. The program was held
on 27-04-2017 at Anganawadi Karungapally. The program was inaugurated by Mr Dominic the councillor of KRDA Suraksha Project. The program started with community mobilization and the councillor took a session on the topic “Good Touch & Bad Touch”. The program was continued with distribution of newspaper cutting about the sexual abuse among children in order to awake the parents.

UNARVE
Program was organised and conducted by the social work trainees (Members: Albine George Babu, Mamatha Chandran J.R, Manu Prasad G) as part of their academic curriculum. An awareness program was conducted based on the theme “Anti-Drug policies, for the purpose of creating awareness among the children about the ill effects of drug consumption, its physical and mental health issues, drug trafficking and its legal issues, the ways to stop drug addiction, steps to follow when one disease information about drug trafficking etc. The program was conducted at The Tuberculosis Centre, Kollam on 26-04-2017.

SATHGAMA
The social work trainees (Members: Aiswarya Radhakrishnan, Remya Krishnan, Garghi Shivarajan, Vishnu R) as part of their academic curriculum conducted an awareness class on the topic Cancer, Plastic and Adolescent Health. The awareness class was done on the basis of two case studies done on cancer and waste management. The venue of the programme was Thodiyoor Panchayath.

STHREESHAKTHIYUDENAIPUNYAM
The social work trainees (Members: Nabeela.s, Varsha Sunil, Swati Dinesh) conducted their community programme on 26-4-2017. The programme topic is Women security. The chief guest of the programme was Sudha Lakshmi who is the programme officer of Thenmala ecotourism division. The programme started by around 11 am by the lighting of lamp by the chief guest. The social work trainees also conducted classes about Hygiene practices.

COMMUNITY PROGRAMME
The trainees organized a community programme (Members: Harith J & Vishumol) among fisherman in Alappad Panchayath by rendering a community intervention in the form of an awareness class on the issues faced by fishermen, particularly the precautions that the fishermen community should ensure to counter the deficiency of fish resources. The second session of the programme was a focussed group discussion with the fishermen addressing the recent delay they face in the delivery of services provided by the various fisheries department. The trainees also organized their community programme among Kudumbashree members as part of their waste management programme. The venue of the programme was Rotary club of Alappad Panchayath.

ASAS-KOCHI
- Sanskriti, Social Awareness Campaign, SEED
- Two day workshop on E-Learning
  A Two day workshop on E-Learning using ARTICULATE software was organized in the department on 16th and 18th Feb 2016. Sri. Ullas Ponnadi, Director, CREATNLRN and Sri. Bobby, Sr. E-learning consultant handled the sessions. ARTICULATE software is one of the most innovative, easy to use, user-friendly e-Learning authoring software. The session gave the participants a hands on understanding of the basics and important aspects of ARTICULATE Software and to develop a SAMPLE E-LEARNING MODULE.
- Language workshop
  A two day language workshop for the second semester PG students was organized. Dr. P P Vijayalakshmi, Professor of English, has initiated the workshop with a view to develop the language skills of the students.
- Vidyamritham
• Sri Madhav Ramdas, well known scriptwriter and film director, gave an enlightening session on film making and script writing for visual media students in our campus on 4th February 2016. The session was conducted as a part of Vidyamritham extramural culture sessions. In the interactive session Mr. Ramdas shared experiences in his field which will be very useful to the students in future.

• Workshop on advertisement/cinematography

A two day advertisement-cum-cinematography workshop for the post graduate students was organized in the department. The workshop was designed to give students a hands-on experience on ad film making. The renowned advertising film director Appunni Nair, lead the workshop. Sri Prakash Velayudhan, freelance cinematographer demonstrated real shooting experience.

• Nottam film Festival

Lore’, a short film made by the video production team of BSc 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 to the best 36 films. The students were officially invited by the organizers to take part in the film festival conducted from 26th to 30th January 2016. The team of nine students, Anjana S, Anju K, Aswathy KS, Fathima Ashraf, Haritha P, Jolsna K, Lovy Mariam Rajan, Megha Menon, Thajnu K, had the privilege to compete with highly experienced professionals from the industry and also to interact with them. Our team got special mention from the organizers since we were the only team participated in the competition from an educational institution.

• The Real Reel Show

‘The Real Reel Show’, a reality show with renowned professionals as jury members, was conducted with these shortlisted films. Direct interactions with professionals from the industry was really a great experience for our students. The jury included Sri. Vinod Sukumaran (Film Director & Editor), Sri. Sarath Chandrakumar (Film Director) Sri. Harikumar (Film Director) Smt. Rajasri Warrier (Dancer and social activist). One of our students got the opportunity to talk about our film during the show.

The reality show took place at the Russian cultural centre, Palayam, Trivandrum and it was telecasted in Doordarshan and Asianet Cable vision on 2nd February 2016. Students were asked to prepare scripts for making short films intended to promote and highlight the development projects and activities initiated by Kerala Government. There was a formal meeting with Sri. PT Chacko (Press secretary to CM) and Smt. Mini Antony (Director PRD) to discuss the projects. Our team had submitted 3 scripts for the promotion of ‘Neera’, ‘Ammayum Kunjum’ and ‘She Taxi’ projects of Kerala Government. Parallel to the reality show, lot of discussions were held to analyse the submitted scripts. Students were also asked to submit a detailed budget for the projects. After 3 days of continuous discussions, two projects got sanctioned officially to our team.

• FM Radio

Haritha Thamban, sixth semester student of the department was interviewed in the Yuuvavani programme of Air India FM radio. She was selected for the interview for her unending passion towards dance. The programme was aired on 18th Feb, 2016.

• Janam TV Campus Fest

The first of February 2016 in ASAS, Kochi was more bright and colourful than the routine days. There is always something going on in the campus. And this time it was the presence of JANAM TV’s CAMPUS FEST which added to the vibe and cheer. JANAM TV is a popular local channel in Kerala. They were in ASAS Kochi as part of a campus fest which organized various cultural programmes by the students of the campus itself. There were some really commendable performances by the students which included mime, dance and singing. The host encouraged audience participation by having an interactive session by asking some questions and the prizes were awarded by Director Dr. U Krishna Kumar.

• Arts and Crafts

Mr. Rajendra Rai from Delhi taken a session on art and craft, on 22nd January 2016 which is mainly for making students who wants to make out there talent possibly. He made many things using colored papers and was just an amazing class which promoted his talent.

• Workshop on Film Direction

• Dakshina - An Art and Portfolio Extravaganza

The Department organized a three day Art and Portfolio Extravaganza, Dakshina 2016 in the campus on 11th 12th and 13th April 2016. The final semester students of B.Sc Visual Media, MJMC and MFA exhibited their creative work at the event.
The Department, in association with Kerala Advertising Agencies Association (K3A) organized a two day exhibition at Kerala Sangeetha Nadaka Akademi, Thrissur on 24th and 25th May 2016.

• **Nature and Art Camp**
  Nature cum Art Camp was organized by the school in collaboration with Mathrubhumi SEED, Kochi to Athirapalli and Vazhachal on 18th April, 2016. A group of students from MFA II Semester and UG participated in the camp. The team was lead by Dr. U. Krishnakumar, Director and Mr.M.S.Vinod, Coordinator SEED and Professor C S Jayaraman, Department of English and Languages. Sri. Prassana Kumar, Academic Coordinator and faculty from various departments accompanied the students. The nature camp served as a platform to establish a bond with Nature through photography and on the spot painting.

**R4R Campaign Celebrates Onam with Ex-service Men in Sainik Ashram**

• Sainik Ashram, Kakkanad was the venue chosen by the students, of Amrita School of Arts and Science, aspiring to a career of Journalism and Mass Communication, in connection with the official launch of the Campaign R for Respect (R4R) undertaken by them. Upholding the vibe of the season the students also organized a programme after the launch to celebrate Onam with the residents of the ashram. The small crowd including the ex-service men and the visitors from ASAS spent the day together, playing games, singing onapattu and enjoying a graceful performance of thiruvathira. They also had a delicious, finger licking Sadhya with the inmates there

• **Ramoji Rao Film City Visit**
  Third semester post graduate students of visual media and communication dept has recently visited Ramoji Rao Film City, Hyderabad. Starting on September 30th, the trip lasted for one week. The students were benefited immensely from the visit as it opened up a new world of filmmaking.

• **Science Communication workshop**
  A six day workshop (30/01/2017 to 04/02/2017) on “Science Communication” was held in Campus. Sri. Madhu, a veteran trainer in Science Communication and former head, IISER, Pune conducted the workshop for MAVM 2nd semester students. The workshop was a tremendous success as it instilled in the students and the faculty the need to revision their academic and research perspectives.

**ASAS-MYSORE**

Ayudh Volunteers to run a canteen during Brahmastanam Varshikotsavam & use the profit for charitable activities.

**ASEd-MYSORE**

• Village Visit for 2 days- Community Related activity.
• Co-ordinated Amrita Kripa Medical Camp activity
• Service renderd to the Public during Ammas visit-water &Food serving, crowd control.

**ASM-KOCHI**

• Regular meetings and programmes are conducted with the Govt. Of Kerala and the Corporation of Kochi, Students Police Cadets, Kudumbasree and other Governmental and private organizations with regard to following activities:
• Smoke Free Homes (Tobacco Free homes)
• TB Free Kochi
• Adhithi Devo Bhava (welfare programme for migrant workers)
• Say No To Drugs (Student Programme)
• Amrita Aarogyam (welfare programme for slum primary health)
• Hridayamritham (women cardiac health)
• Organized events like Anti Tobacco day, Blood Donation Day (NIRANTARA), Mental Healthy Programme (SWASTI).
• Taken part in various outreach facilities in tribal areas e.g., Wayanad,- district of Kerala, Vallikavu and Sabarimala.

**ASN-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 Swasthya Mitr 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 Nayarambalm Panchayath, Ernakulam.
• Conducted school health programmes at various schools at Nayarambalm Panchayath, Ernakulam and Kollandry, Kozhikode.
• Conducted various clinics – under five, elderly, family welfare at Nayarambalm Panchayath, Ernakulam and Kollandry, Kozhikode.
• Conducted various clinics – under five, elderly, family welfare at Nayarambalm Panchayath, Ernakulam.

**AMRITA SCHOOL OF PHARMACY**
• Extemporaneous Drug Preparations (AIMS & Amrita Kripa Charitable Hospital, Wayanad)
• Amala Bharatam 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 :
  o 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.
  o Street plays on rational drug use was conducted at Amrita Vidyalayam school, AIMS hospital.
• Monthly distribution of Rice & gram:
  o Students and staff actively participate in the monthly distribution of rice, grains and other essential provisions to 20 families in nearby areas.

**AMRITA SCHOOL OF DENTISTRY**
• The annual denture camp Amritasmitham 2016 was conducted from September 1st to September 4th 2016. Free dentures were provided for 53 patients.
• The anti-tobacco activities in the dental school were able to strengthen the exiting Anti Tobacco Movement in Amrita (ATMA) in health care campus.
• Oral health awareness Programme Dhantotsav 2017 was held in May 2017 and cost-effective treatment was provided for all who attended. The patients were sensitized to the new modalities of treatment.
• Health promoting school programme was organized for the benefit of tribal school children in Kalpetta in Wayanad District.
• Programmes conducted for the welfare of people with special needs.

AMRITA SCHOOL OF BIOTECHNOLOGY

• Mycoscope  
  o In order to create awareness of the importance of mushrooms, the students of S3 B.Sc. Microbiology hosted a program named “Mycoscope” from November 10-11, 2016. The Mycoscope presented an expo on the properties and uses of fungi, as well as recent discoveries about the fungi kingdom.
• Idli Day  
  To spread awareness and importance of one of the world’s healthiest and nutrition-rich foods, on 30 March, Idli day was celebrated at the School as faculty members cooked and served soft idlis along with delicious side dishes to their colleagues and students.
• As part of the University initiative, students and staff of the School actively participated in many other events such as:  
  Haritha Keralam - Organic Farming (February 27, 2017)  
  Nature Camp (February 18, 2017)  
  International Water Day- Water Walk (March 22, 2017)  
  Vishuthainettam (April, 2017)

AMRITA CENTRE FOR NANO SCIENCES

• 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  
• Amalabharatham Cleaning Program
• Food kit distribution for underprivileged family
• Study material distribution for underprivileged school children
• Quality time with activities and entertainment for differentially abled children.

ASB-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.

ASB- KOCHI

• Students actively participated in the seva and social activities associated with Amma’s birthday like feeding the poor, providing clothes and so on.
• Students organized a blood donation camp at Amrita Institute of Medical Sciences and Research with active participation from the public
• Students visited Amrita Institute of Differently Abled and provided financial support for the welfare of the inmates
### 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</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>
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<tr>
<td>Laboratories</td>
<td>209</td>
<td>9</td>
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<td>218</td>
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<tr>
<td>Seminar Halls</td>
<td>46</td>
<td>1</td>
<td></td>
<td>47</td>
</tr>
<tr>
<td>No. of important equipments purchased (≥ 1-0 lakh) during the current year.</td>
<td>118</td>
<td>112</td>
<td>Funding agencies and University</td>
<td>5 equipments worth 15 Lakhs</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>
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<tr>
<td>Others</td>
<td>Workshop: 3 Drawing Hall 1 Computer Centre: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**4.2 Computerization of administration and library**

**ASE-AMRITAPURI**

- AUMS Software is used for Computerization of the Central Library. All the transactions and housekeeping operations of Central Library are handled through AUMS software.
- Bar-coding is implemented for circulation of books.
- OPAC – Online Public Access Catalogue is provided for searching the Library resources through AUMS software.
- Auto e-mail alert is introduced through AUMS software to know the circulation status of the books for every member.
- E- Resources like E-Books, E-Journals, E-Databases, Digital repositories are accessible at Central Library web page via campus LAN.

**ASE-COIMBATORE**

All administrative departments and library has been computerized
- All Library functions are computerised by using LIBSYS management software
- Bar-coded circulation system
- Online reservation
- Email alerts
- Wi-Fi connectivity
- Internet access
- Digital Library with 160 seating capacity
- Web OPAC
ASAS-AMRITAPURI
School have a fully computerized library facility in addition to the Department Libraries.

ASAS-KOCHI
Library fully automated using Amrita University Management System (AUMS)

ASAS-MYSORE
Library has been fully Computerized and Automated using AUMS (Amrita University Management System) since 2011.

ASEd-MYSORE
Amrita University Management System (AUMS)
Centralised and computerised Library System

ASM-KOCHI
Administration : fully computerised services
Necessary computer software and infrastructure available in the library.

ASN-KOCHI
- Admission process is through AUMS (Amrita University Management System software)
- Attendance and internal assessment are entered online
- Submission of application form for examination, generation of hall ticket, publication of result etc are done through AUMS
- Library – Computerized issue and return of books; collection of fine; no due details
- Library has internet access for both faculty as students
- Intra net facility is available for inter departmental and interoffice communication.

AMRITA SCHOOL OF PHARMACY
- Online journals : 336
- Online Book (database) : Medicines Complete
  - Online Journal Database : JGate, Clinical Key, ProQuest
  - Library Services: OPAC, 12 computers with internet usage

AMRITA SCHOOL OF DENTISTRY
We have a Hospital Information 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.

AMRITA CENTRE FOR NANO SCIENCES
All administrative tasks are computerized and logs updated on daily basis. Digital library facility available for students and faculty.

ASB-COIMBATORE
Our library and administration are computerized. Our library uses LibSys, a fully integrated multi user library system incorporating the latest in information technology. We use AUMS (Amrita University Management System) for our administrative purposes.
ASB-KOCHI

The administration process from admissions to generating grade sheets are fully computerized. We extensively make use of the Amrita University Management System (AUMS) for this purpose. The library is also fully computerised using AUMS. Feedback collection and analysis is also done through AUMS.

4.3 Library services:

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th></th>
<th>Newly added</th>
<th></th>
<th>Total</th>
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<td>No.</td>
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4.4 Technology up gradation (overall)

ASE-COIMBATORE

Technology Enhancement Data from Library

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</tbody>
</table>

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

#### ASE-AMRITAPURI
- 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
- Training to introduce new features of AUMS to faculty and staff
- Two day computer basic training to technical staff (MS office, AutoCAD and other basic softwares)

#### ASAS-AMRITAPURI
- Personal Computers are available to all faculties and full time internet accessibility and WIFI support are available in the campus round the clock. Training for the available upgradation in the system will be provided for students and faculty at the start of each semester.

#### ASAS-KOCHI
- Upgraded Leased Line Internet bandwidth to 280 Mbps.
- Provided Wi-Fi access to all Faculty rooms and Hostels.
- Added new browsing center inside the library for E-Learning and research activities.
- Network connected to all classrooms for easy access to E-Learning content.
- A full-fledged Computer Lab with upgraded computers (40 nos) arranged
- A Mail server (Amrita Mail server) is installed for Amrita Official purpose.
- Firewall (H/W) is updated and upgraded
- All PCs upgraded with latest Version of OS.

#### ASAS-MYSORE
- Availability of lab facility even beyond working hours facilitating students to work on projects and reference work.
- Access to high quality journals for reference work in various fields of study.
- Orientation provided to the newly recruited faculty members and every new batch of students on the use of and access to AUMS.

#### ASEd-MYSORE
- Smart Class orientation has given to students to teach content classes in schools
- Orientation on Online labs

#### ASM-KOCHI
- Upgradation: Networking and e-Governance.
  - Training programmes: (i) Hospital Management Information System (ii) Amrita University Management System (iii) Microsoft Office Training (iv) Any other software upon request.
ASN-KOCHI

- As part of the curriculum, students of all the programme have courses on Basics of Computer Application.
  - There are 23 computers with internet facilities
  - Library – five computers have internet facility.
  - LCDs are provided in the classroom to facilitate Teaching

AMRITA SCHOOL OF DENTISTRY

All the departments are connected via intranet. All faculty and students have access to internet. We have a separate wing called Information Technology (IT) service which exclusively deals with computer related problems and doubts. The IT service takes up the issue of training faculty whenever technology is upgraded.

AMRITA SCHOOL OF BIOTECHNOLOGY

We use A-VIEW platform for online classes. We also use Skype and WebEx for research meetings.

AMRITA CENTRE FOR NANO SCIENCES

Server, intranet, and internet access provided to all Faculty and Students. All research and academic data regularly updated on the allotted shared folder.

ASB-COIMBATORE

- All our faculty members and staff have unlimited access to the internet.
- Students have their own laptops and internet room with 24/7 wi-fi connectivity in hostel as well in class rooms as the School building is Wi-Fi enabled.
- Students have unlimited access to the internet. The ICT facility 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..

4.6 Amount spent on maintenance in lakhs:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) ICT</td>
<td>23,012,952.78</td>
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<tr>
<td>ii) Campus Infrastructure and facilities</td>
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<td>iii) Equipments</td>
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<td>iv) Others</td>
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<td><strong>Total</strong></td>
<td><strong>2,444,225,611.75</strong></td>
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</table>
Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

ASE-COIMBATORE

- 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 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.
- Opportunities for students to go to foreign universities for exchange programmes
- Flexibility to opt electives across the school/Dept.
- Students can undertake projects in industries / research organizations like ISRO, FACT, NAL etc.
- Minor projects in TBI, IIT’s during the vacations
- Placement training by CIR which manages placements, soft skill training and special training for CAT/GMAT/GATE.
- The physical education dept has a modern gymnasium, and organizes regular coaching in games and athletics.
- Initiation of Training programmes for various competitive examinations like GRE, CAT, GATE, and GMAT.
- Initiation of strong Co-curricular engagement of students through the conduct of national-level inter-university techfests and management fests.
- Some fests have been initiated through suggestions from School IQACs.
- Initiation of optional foreign language courses in Japanese, German, Spanish, etc., to improve employability.
- IQAC has pointed out the need to attract more foreign students leveraging the extensive tie-ups and MoUs that AMRITA has with 75 premier universities in USA, Europe, Japan and Australia.
- Regular meetings with Class Counsellors to provide information
- Presence at Class Committee meetings
- Interaction with students to provide guidance for new opportunities e.g. employment, research fellowships, international conferences and workshops
- The IQAC had suggested that every course outline should also contain a section where the instructor mentions his availability for at least one hour every week outside the class. This suggestion has been incorporated from the academic year 2014-15 onwards. Making this mandatory has encouraged greater faculty-student interaction with respect to different courses outside the class.
- As a student support service, a Railway reservation counter has been opened in the campus for going to and fro to home.
- We have a well-established IQAC, which monitors the proper functioning of women grievance cell, student mentoring system, student feedback and complaint redressal cell.
• Student mentors other than class coordinators in each class with 10 students under each mentor; Career guidance and student counselling
• Each department in collaboration with Amrita International office offers support to students pursuing internship / projects abroad in reputed universities / organizations and R & D organizations in India by offering fast track courses. The department also provides guidance to such students by allocating an internal guide.
• Each department supports and guides students to participate in national level technical competitions and take up projects that are of social and societal benefits.
• Orientation for first year UG and PG students is conducted at the time of admission. The rules and regulations, curriculum, facilities available, etc., are elaborated.
• Each department conducts workshops for the benefit of increasing research awareness among the UG and PG students.

ASAS-AMRITAPURI
The University follows a systematic procedure in enhancing awareness about Student Support Services. The Student Support Services available in the Campus include:

Soft Skills Development
There is a separate department named the Centre for Corporate and Industrial Relations (CIR), which have well experienced faculty engaged in soft skill and placement training for the students of the campus. The focus is on student's communication and presentation skills. Students are allowed to use the English Language Lab in this endeavour. Soft Skills is a value added course offered by the University. It is included in the curriculum as a credit course in order to ensure that all students have access to it.

Women Empowerment Cell
The objective of the cell is to create an atmosphere of awareness and enlightenment among the girls regarding their duties and rights. Health and Hygiene issues concerning girls are addressed by renowned doctors. This cell also conducts general awareness programmes on different issues related to girl students. If any issues and grievances are there concerning girls will be addressed to the cell.

Student Counsellor/Advisor
Each faculty designated (for 20 students one faculty) to function as a focal point for solving students' problems related to studies and discipline. Students can approach the facilitator on a one-to-one basis to enhance their academic performance.

Career Guidance
It is offered to students through various invited lectures by eminent faculty drawn from various National and International Research Institutes in various disciplines.

Grievance Cell
Any academic or non-academic issues/complaints related to the campus is addressed by this cell.

Internet /Reprographic/printing facilities
The College provides free Internet facility and WIFI to faculty and students. There are browsing centers and reprographic centers in the campus

Student Feedback System
Online feedback system is available Student can administer Academic Feedback on Teaching Faculty after the completion of the course for effective Teaching - Learning Practice.

Drinking water facility
Every floor of the campus is equipped with drinking water facilities fitted with water coolers and Aqua guards filters.

Canteen Facility
A Canteen in the campus provides hygienic, nutritious and delicious breakfast, snacks and meals at an affordable cost.

Parking Facility
The College provides parking facilities for two and four wheelers in the campus for students and staff.
Facilities for differently abled students
Round the clock lift facility is available in the campus, wheel chairs are available and personal help is also offered to them whenever needed.

Health Care Centre
A free Health Care Centre situated on the campus premises, is available to the students and staff. Full time doctor is appointed. In case of any emergency ambulance services are available.

Student Counselling
Full time experienced councillor is available in the campus. Students can fix appointments and consult her regarding personal or academic matters.

Reading Library Facility
This facility is available to all the students for extra reading & reference purpose. Our Library is equipped with the most latest and a large number of books on each course.

ASAS-KOCHI
- Support Service for Students (Bank Loan).
- Bus Concession
- CBSE One Girl child Scholarship.

ASAS-MYSORE
A general orientation given at the commencement of the programme helps students and the parents understand the working of the college and the facilities available here.
A set of 25 students assigned to a teacher who counsels them on day to day matters and academic progress serves as a part of student support system.

ASEd-MYSORE
- Placement services for both Kannada & English Medium Students
- Soft Skill Training
- O-Lab exposure
- Alumni Meet

ASM-KOCHI
- Training in computer system (online services)
- Yoga & Meditation sessions
- Active involvement of undergraduate students in the activities of “Say No To Drugs” in coordination with the Students Police Cadets.
- Motivation by organizing events like Anti Tobacco day, Blood Donation Day (NIRANTARA), Mental Healthy Programme (SWASTI).
- Active participation in various outreach facilities in tribal areas e.g., Wayanad,- district of Kerala, Vallikavu and Sabarimala.

ASN-KOCHI
- 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. Fransis Perera, retired CI, Cyber Cell, Kochi.
• Session on Preamble of Indian Constitution by Adv. Sarath, High court of Kerala.
• 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.
• Assigned teachers as student mentors who meet the students regularly and discuss issues if any and provide direction and advice on important matters.
• Class committee meetings are held with the entire students of a batch to address the issues of all the students.
• 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.

**AMRITA 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.
• Present posters in conferences and seminars
• Encourage student publication at undergraduate level
• Develop research skills from the undergraduate level

**AMRITA SCHOOL OF DENTISTRY**

Amrita School of dentistry has a well established IQAC, which constantly monitors the proper functioning of student supporting mechanism like student mentoring systems, women grievance cell and anti-ragging cell.

**AMRITA SCHOOL OF AYURVEDA**

• Mentor System is followed.
• Counselling is given wherever needed.
• Added students in all committees to know their needs

**AMRITA SCHOOL OF BIOTECHNOLOGY**

• Regular meetings of the students/student representatives with Class Counsellors
• Interaction with students to provide guidance for new opportunities e.g. employment, research fellowships, Summer internships, conferences and workshops
• AMRITA VIDYANIDHI – Scholarships for two top performers from each course of PG programs.
• Health insurance
• Feedback from the students, followed by corrective measures
• Facilitation of Industrial Visits
• Soft skills training
AMRITA CENTRE FOR NANO SCIENCES

All students informed about mental health support and career counselling.

ASB-COIMBATORE

Two students are members of IQAC. It helps to keep track of any issues that students may face in various courses. IQAC has suggested the student tutorials to be started to help the students who may need such extra help. This is going to be implemented shortly. IQAC also invites alumni from time to time to support the students during their preparations for placements by giving them tips on preparations, conduct mock Interviews and Group Discussions, insights about facing aptitude tests etc. through Bootcamps.

ASB- KOCHI

Enhanced placement training

- Students given proper orientation on the mentoring system. Directed to meet the mentors at least once in a trimester.
- Students given a proper sensitization on activities that may be classified as ragging, harassment and the associated penalties.
- Realising the need for placement specific training, a campus specific soft skills trainer and aptitude trainer have been appointed
- Mock interviews arranged for students who require the same.

ASB- BANGALORE

- The IQAC encouraged greater faculty-student interaction with respect to different courses outside the class room hours.
- IQAC also ensure that faculty members should regularly host meeting with Student to mentor them on all aspects.
- All the students are encouraged to do collaborative research work with faculty members
- Student Mentoring program

5.2 Efforts made by the institution for tracking the progression

ASE-COIMBATORE

- 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 feedbacks 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

ASAS-AMRITAPURI

The University had well-defined procedures in tracking the progression of the student support and services. The details about all available student support systems are updated in the website, more over the advisors/counsellors will elaborate on the available support systems.

ASAS-KOCHI

• Feedback and Review from Students.
• Career Guidance Courses.
• CAT and MAT Trainings.
• Civil and Defence Service Orientations.

ASAS-MYSORE

• Review of progress made by the students at the department level and a second review by the Head of the institution.
• Periodical progress report is sent to the parents Three times in a semester, indicating the academic performance and the attendance status of their ward.
• Parents of the students with low

ASEd-MYSORE

• AUMS Usage for attendance and Periodicals mark entries
• Guidance and Counselling for Slow Learners
• CCE

ASM-KOCHI

• Regular meetings with Students Welfare Committee
• Reports from the Chief Hostel Wardens
• Feedback from the concerned HODs
**ASN-KOCHI**

- 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 a clerical staff is assigned to track the progression.
- Personal contact with faculty and students

**AMRITA SCHOOL OF PHARMACY**

- Industrial Institution Interaction and Placement Committee has been constituted to keep track of the placement and industrial recruitment of students.
- SKN Organics PVT. LTD, Pondicherry
- MYLAN Laboratories LTD, Bangalore
- QUINTILES, Bangalore
- SANS Pharmaceuticals, Kottayam
- ASTER Medicity, Kochi
- KIMS Hospital, Thiruvananthapuram
- RENAI Medicity, Kochi

**AMRITA SCHOOL OF DENTISTRY**

The institution takes interest in quick rectification of complaints of patients, students and staff. The anti-ragging cell members take prompt action related to complaints from first year students. The staff who is appointed as student mentors play a crucial role in resolving issues related to students.

**AMRITA SCHOOL OF AYURVEDA**

- Students evaluation were filled in manual
- Faculty evaluation forms were filled in manual
- Meetings conducted with students and faculties in regular intervals

**AMRITA SCHOOL OF BIOTECHNOLOGY**

- Continuous monitoring of the progress of students
- Involvement in the student counselling
- The institution monitors and ensures the achievements of the learning outcome through analysis of the tests, examination results and the pass percentage
- Class committee meetings
- Placement cell with dedicated Placement Officer
- Constant updates through Alumni Association records and information
- Interaction with parents to discuss students’ progress
- Collection of student feedback and corrective measures

**AMRITA CENTRE FOR NANO SCIENCES**

Six monthly evaluations for PhDs and monthly evaluations for MTech students. Maintaining a quality databook.

**ASB-COIMBATORE**

We follow continuous assessment system in all the courses which helps the faculty members teaching the courses to assess the progress being made by the students during the course. This is done through periodic quizzes, assignments, and also there is weightage for class participation in most of the courses. There is a Post Graduate Programme Committee which meets once every fortnight to keep track of the different courses being taught.
ASB- KOCHI

- Regular monitoring of student TGPA is done, and counselling is given to those who require help
- Accurate maintenance of placement records is ensured
- Individual personal and professional counselling is given to students who face difficulty in getting places.

ASB- BANGALORE

- Continuous Evaluation Process: We follow a system of continuous evaluation with a minimum of four evaluation components in every course. Mid -Course evaluation.
- There are quizzes, assignments, presentations, projects being continuously evaluated apart from the examinations. This helps us to track student progression continuously.

5.3 (a) Total Number of students

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(b) No. of students outside the state

|        | 8799  |

(c) No. of international students

|        | 173   |

<table>
<thead>
<tr>
<th>Men</th>
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<th>%</th>
<th>Women</th>
<th>No</th>
<th>%</th>
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<td>178</td>
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<tr>
<td>8913</td>
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</table>

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

ASE-AMRITAPURI

University (CIR) provides professional coaching for GATE, GRE and CAT and others. Within Department we have a team of faculty taking special coaching sessions for GATE. Number of student beneficiaries – varies – around 20-30 students every year from each department

Students benefited from CIR

a. GRE - 15, b. CAT - 22, c. GATE - 44, d. Civil Service/UPSC - 30

ASE-COIMBATORE

Amrita organizes coaching classes for various competitive examinations across all the campuses. These coaching classes are conducted by external professional agencies as well as internal faculties. We organize coaching classes for GRE, CAT, and GATE and also organize Foreign Language training in German and Japanese for initial and advanced level certifications. Students are also given training for BEC vantage and advanced level certification. The number of students from all the campuses who have undergone such trainings is given below
ASAS-AMRITAPURI
Special classes for PG students for NET Coaching

ASAS-KOCHI
CAT, a training program for students aspiring for admission for Post Graduate Management courses. This is being done 2 days in a week for 2.5 hours by T.I.M.E., a well known training institute

ASEd-MYSORE
- Soft Skill Training
- Communicative Skill Training
- Content Enrichment Classes
- Yoga & Meditation Classes to improve students Concentration Power

ASM-KOCHI
Administrative support and assistance for appearing for national and international examinations for higher study like ECFMG, NEET etc.

AMRITA SCHOOL OF PHARMACY
- GPAT coaching class and online examinations are conduced regularly for B.Pharm final year students.
- Soft skill training classes, group discussion and mock interview are conducted for B.Pharm, M.Pharm & Pharm.D final year students.
- Invited talks by eminent personalities from different Pharmacy field to get exposure different career opportunities in pharmaceutical Industries.

AMRITA SCHOOL OF DENTISTRY
Amrita University has initiated the Amrita Civil Service Academy (ACSA) to provide coaching to the students for civil service examination

AMRITA SCHOOL OF BIOTECHNOLOGY
Faculty members conduct mock interviews to students for the coaching of Soft skills and other preparation for entrance exams e.g. Integrated Ph.D. programs, SRF selection interviews etc.

AMRITA CENTRE FOR NANO SCIENCES
Student-faculty interaction facilitated for students requiring additional help with subjects

ASB-COIMBATORE
Being a MBA college we train our students for their placement process by giving them coaching for CV writing, Group Discussion skills, Personal Interview and Aptitude Tests preparation etc. But no coaching is provided for competitive examinations as such.

ASB-AMRITAPURI
The Corporate Industrial Relations (CIR) department in close co-ordination with faculty and management design tests and short training programmes to coach students in appearing for aptitude tests, group discussions etc. Primary objective is to support student placements.

ASB- BANGALORE
The Corporate Industrial Relations (CIR) department in close co-ordination with ASB faculty and management design tests and short training programmes to coach students in appearing for aptitude tests, group discussions for their Summer and Final Placement etc.
5.5 No. of students qualified in these examinations (provide details in an Annexure)

<table>
<thead>
<tr>
<th></th>
<th>NET</th>
<th>SET/SLET</th>
<th>GATE</th>
<th>CAT</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAS/IPS etc</td>
<td>12</td>
<td>1</td>
<td>66</td>
<td>0</td>
<td>86</td>
</tr>
</tbody>
</table>

5.6 Details of student counselling and career guidance

**ASE-AMRITAPURI**
1. Professionally qualified and trained counsellor is available full time.
2. Faculty Counsellors are meeting students one to one, once in 2 months to monitor their academic and personal improvement. Every student is free to approach their advisor/counsellor whenever needed. Additional technical sessions are given to students for guiding them to attend competitive exams as well as interviews.

For Career guidance CIR if guiding the following students
a. B Tech – 480, b. M Tech -183, c. MBA - 64, d. MCA - 26

**ASE-COIMBATORE**
Amrita conducts Life Skill courses (soft skill, verbal skill and aptitude skill) for the career development of students. These courses are conducted over a period of two to four semesters in Engineering, Management and Arts and Science streams in all the campuses. We organize guest lectures and training by industry experts for enhancing the career preparation of students. We organize mock interview by industry experts for the final year students in Engineering, Management and MCA streams. We also organize assessment by professional agencies for the final year students before the commencement of the placement process. The number of final year students from all the campuses who have undergone such training and placement preparation is given below.

**ASE-BANGALORE**
Every department have many student counsellors to counsel the students and a chief counsellor to address their issues. In addition, a professional counsellor will address special cases on need basis. CIR department is providing career guidance.

**ASAS-AMRITAPURI**
For every 20 students in the university one counsellor is assigned and special counselling hours are assigned in the curriculum itself. Regular mentoring is done during the counselling hours and reports are submitted to the respective department heads.

**ASAS-KOCHI**
- Regular academic counselling for weaker students.
- Career Guidance by Corporate Industry Relations (CIR).
- Placement training.
- Considering for behavioural changes.

**ASAS-MYSORE**
Centre for Corporate and Industry Relations (CIR) forms a strong source of career guidance and counselling. Acting on the suggestions of IQAC the departments occasionally invite resource persons from various industries and professional bodies to orient students and educate them on the availability of variety of career options.

Addressed by the resource person by other campus of AMRITA addressing BBM & BCom students for possible available graduation courses and also for MCA students

**ASEd-MYSORE**
- Institution shows concerns for the students’ progression to higher studies and to a teaching career as well as their retention in it.
- Principal & Teacher Educator’s Counsels all the students related to Scholastic & non-Scholastic areas.
ASM-KOCHI

The institution follows a Gurukula system of education. The Acharya’s (a senior professor from the Dept) provide career guidance to the students under him/her (10 to 15 students each per group). These Acharya’s also provide counselling to the students in close coordination with the Department of Clinical Psychology.

ASN-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

AMRITA SCHOOL OF PHARMACY

- Class committee meeting is conducted once in a semester to understand their student issues and faculty provide correct guidance in their curriculum.
- Re sessional exams are conducted for failed students.

AMRITA SCHOOL OF DENTISTRY

We have a mentoring system and designated staffs are involved in counselling. Every year lecture is given to the interns about various career options after course completion. The students are informed about the various coaching institutes available for postgraduate entrance preparation. They are also informed about the various finishing schools available for updating their skills

AMRITA SCHOOL OF BIOTECHNOLOGY

- The placement cell working at ASBT corresponds to students to inform about the openings at various industries/institutes. A group mail ID is created to serve the purpose.
- Amrita University operated Corporate & Industry Relations (CIR) centre frequently communicates to students to provide information on opportunities at the National and International organizations.

AMRITA CENTRE FOR NANO SCIENCES

Periodic discussion with students about opportunities
Guidance with placements

ASB-COIMBATORE

- Extensive support and coaching is given to the students to help them prepare for final placement process. There is a course called Soft Skills dedicated to help them develop soft skills such as oral and written communication, presentation skills, writing their CVs, GD and Personal Interview process etc. Alumni Boot Camps are held where alumni already working with industry come and share their experiences about how to best face the final placement process.

ASB- KOCHI

- Individual student mentoring is done by the faculty and records are maintained in a mentoring file. The Department PGP Committee counsels the weak students and facilitates their taking re-exams to help them to improve grades. Parents are also included in the process.
• Enquiry committees are set up in case of disciplinary issues and letters sent to the parents. All related documents are filed.
• The industry speakers and alumni who address the students also provide career guidance in their areas. Specialized placement training on aptitude skill, soft skills, group discussions and mock interviews are provided to students. Alumni working in similar industries and companies often offer help during placement preparation.

**ASB- BANGALORE**
All the second year MBA students are exposed Classroom training in Soft Skills to help sharpen the various soft skills like communication, better body language, basic etiquette, making presentations etc. This helps improve our students’ readiness for industry jobs. Apart from that, our Corporate and Industrial Relations department helps our students to prepare their CVs, conducts Mock Interviews, and gives them general guidance and counselling to prepare for the placement exercise. Students also receive a lot of mentoring outside the class from the faculty members.

| No. of students benefitted | 5000 |

**5.7 Details of campus placement**

<table>
<thead>
<tr>
<th>On campus</th>
<th>Off Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Organizations Visited</td>
<td>Number of Students Participated</td>
</tr>
<tr>
<td>1071</td>
<td>5152</td>
</tr>
</tbody>
</table>

**5.8 Details of gender sensitization programmes**

**ASE-COIMBATORE**
• 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 works actively.

**ASAS-AMRITAPURI**
Women Cell is there in the campus they conduct awareness classes for girls in the campus regarding physical and mental health issues, ill effects of drug consumption, legal provisions for women safety etc. Full time qualified counsellor is available to address students regarding any issues pertaining to students. Students can fix appointment and meet the counsellor and have the opportunity discuss in person regarding the problems that they are facing. The School is planning to have more initiatives in this regard.

**ASAS-KOCHI**
Women’s day celebrations includes conferences and sessions by eminent women from industry, media, academicians.

**ASEd-MYSORE**
• Organisation of role plays
• Women’s day Celebration
• Organisation of skit in Community
• Organisation of awareness Programme

**ASM-KOCHI**
• Every year at the time joining, a function is arranged where UG students are introduced to senior students (Talent Scan)
• Annual combined study tour programmes
• Annual cultural & sports festivals

**ASN-KOCHI**
A session on ‘Life Goals’ was conducted by Dr. Razeena Padmam, Former HOD, School of Behavioural Sciences and Psychology, MG University on 02/11/2015. She discussed a few gender sensitive issues, precautions, behaviours to be in built etc.

**AMRITA SCHOOL OF PHARMACY**
Ragging is strictly prohibited in the campus. Any misbehaviour from senior students to juniors especially to first year students are strictly avoided and strict action is taken against them. There is an Anti ragging squad for measures to prevent ragging in the campus

**AMRITA SCHOOL OF DENTISTRY**
Women grievance cell looks into issues related to female students

**AMRITA SCHOOL OF BIOTECHNOLOGY**
Not a major concern at the School with approximately 80% of total student and faculty strength being females.

**AMRITA CENTRE FOR NANO SCIENCES**
Cultural education program in place

**ASB- KOCHI**
- Mixed group activities encouraged throughout the programme so that the students get ample opportunity to understand and learn to respect the opposite gender.
- Grievance handling mechanisms to handle gender related issues.
- Both genders represented in all student committees.

**ASB- BANGALORE**
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 Envisage (cultural Event) the ONAM festival and many more such celebrations. We do not feel the need for a gender sensitization programme. 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. We have a zero tolerance policy towards eve-teasing and ragging. There is a 24 hour camera surveillance of the campus. All these steps taken by us ensure a very pleasant and safe stay for our lady students at the campus.

**5.9 Students Activities**

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

<table>
<thead>
<tr>
<th></th>
<th>State/ University level</th>
<th>National level</th>
<th>International level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>284</td>
<td>87</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. of students participated in cultural events</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>State/ University level</td>
<td>32</td>
</tr>
<tr>
<td>National level</td>
<td>9</td>
</tr>
<tr>
<td>International level</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sports :</th>
<th>State/ University level</th>
<th>National level</th>
<th>International level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>83</td>
<td>33</td>
<td>1</td>
</tr>
</tbody>
</table>
5.10 Scholarships and Financial Support

<table>
<thead>
<tr>
<th>Source of Financial Support</th>
<th>Number of Students</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial support from institution</td>
<td>315</td>
<td>13862925</td>
</tr>
<tr>
<td>Financial support from government</td>
<td>131</td>
<td>28868810</td>
</tr>
<tr>
<td>Financial support from other sources</td>
<td>90</td>
<td>14883502</td>
</tr>
<tr>
<td>Number of students who received International/National recognitions</td>
<td>88</td>
<td>193000</td>
</tr>
</tbody>
</table>

5.11 Student organised / initiatives

<table>
<thead>
<tr>
<th>Event</th>
<th>State/ University level</th>
<th>National level</th>
<th>International level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fairs</td>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Exhibition</td>
<td>8</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

5.12 No. of social initiatives undertaken by students 54

5.13 Major grievances of students (if any) redressed: No major grievance
Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

ASE-COIMBATORE

We envision a world endowed with the wealth of knowledge and the strength of discrimination (Viveka). We envision a system, which is a healthy breeding ground for the sprouting, culturing and dissemination of the whole gamut of knowledge in a wholesome and holistic manner for the well-being of humankind. We envision a human being empowered with wholesome knowledge, which makes one an enabler and facilitator in the deep search and striving of every human being for that knowledge.

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

Mission

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

ASAS-AMRITAPURI

The Vision is to provide “wholesome and holistic knowledge for the well-being of humankind.” The mission statement is to give” value based education and mould the character through a system of wholesome learning, achieve progress and prosperity in life, extending selfless service to society, one complementing the other.”

ASAS-KOCHI

To provide value based education and mould the character of younger generations through a system of wholesome earning, so that their earnest endeavour to achieve progress and prosperity in life is matched by an ardent desire to extend selfless services to society, one complimenting the other.

ASAS-MYSORE

Our Vision

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

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

We envision a human being empowered with wholesome knowledge, which makes him an enabler and facilitator in the deep search and striving of every human being for that knowledge. We envision a system wherein there is a great interplay and exchange of ideas, thoughts, feelings and actions, which develop people empowered with noble character and wholesome values.

Our Mission

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

**Vision:** We envision a world endowed with the wealth of knowledge and the strength of discrimination. We envision a culture that facilitates the sprouting and dissemination of knowledge in a wholesome manner. We envision an empowered human being who can facilitate the search of humanity for true knowledge. We envision a system which helps develop individuals of noble character, who together build a world of love and harmony by following the dharmic path.

**Mission:** To provide value-based education and mould the character of the younger generation through a synthesis of science and spirituality, so that their earnest endeavour to achieve progress and prosperity in life is matched by an ardent desire to extend selfless service to society, one complementing the other.

ASM-KOCHI

**Vision:** To provide healthcare of the highest quality to all who come, in a spirit of compassion, and to continually improve the standard of care provided to the community through promotion of the value based quality education and research.

**Mission:** AIMS is a not for profit organization dedicated to establishing and maintaining a centre of healthcare excellence and improving the well being of the community through the best possible quality healthcare delivery system, medical education, and research. We are committed to providing outstanding and affordable medical care in a patient friendly, caring environment and spirit of compassion to all, regardless of race, caste religion or economic condition. We strive to provide charitable care for those in need to the extent possible.

ASN-KOCHI

**Mission**
The Amrita College of Nursing is committed to excellence in nursing education, research and the development of leadership skills and human values.
The nursing education emphasises the importance of maintaining the highest professional standards in the care of patients.
The college and faculty strive to provide an outstanding technical education to its students while highlighting the importance of the values of empathy and compassion in the healing process.

AMRITA SCHOOL OF PHARMACY

**VISION:** Amrita School of Pharmacy was established with a mission to develop it as a center of excellence in Pharmacy education in the country. It aims to provide high quality, value based education competent to mould professionally new generation of pharmacy professional capable of practicing and managing the future of pharmacy profession in the country and abroad.

**MISSION:**
Amrita School of Pharmacy aims 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 with an ardent desire to extend selfless service to the society, one complementing the other.

AMRITA SCHOOL OF DENTISTRY

**Vision**
We envision a world endowed with wealth of knowledge and the strength of discrimination (Viveka).
We envision a system, which is a healthy breeding ground for the sprouting, culturing and dissemination of the whole gamut of knowledge in a wholesome and holistic manner for the well-being of humankind.
We envision a human being empowered with wholesome knowledge, which makes one an enabler and facilitator in the deep search and striving of every human being for that knowledge.
We envision a system where in there is a great interplay and exchange of ideas, thoughts, feelings and actions which develop people empowered with noble character and wholesome values. They go out into the fields of
action to build a world of love, harmony, peace and knowledge. They follow the path of “Dharma” and give a clear direction in every thought and human endeavour.

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

AMRITA SCHOOL OF AYURVEDA

Vision:
The vision of the school is to actively pioneer the students with highest quality of traditional values of Ayurveda.

Mission
Providing excellent traditional and classical Ayurveda treatment by a team of dedicated doctors and creating a premier, patient focused and integrated health care delivery system and achieving the highest grade of patient satisfaction.

AMRITA SCHOOL OF BIOTECHNOLOGY

VISION:
The School has a vision to provide value-based education and to mold the character of the younger generation through synergy of science and spirituality

MISSION:
The mission of the school is to actively pioneer interdisciplinary education, research and industry collaboration in Biotechnology

AMRITA CENTRE FOR NANO SCIENCES

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

ASB-COIMBATORE

To offer contemporary and quality post graduate management education for life and living; emphasizing research and societal benefit, while engaging with key stakeholders

ASB-AMRITAPURI

To offer quality management education for life and living with an emphasis on research and societal benefit.

ASB-KOCHI

VISION

“We envision a world endowed with the wealth of knowledge and the strength of discrimination. We envision a system, which is a healthy breeding ground for the sprouting, culturing and dissemination of the whole gamut of knowledge in a wholesome and holistic manner for the well-being of humankind. We envision a human being empowered with wholesome knowledge, which makes one an enabler and facilitator in the deep search and striving of every human being for that knowledge. We envision a system wherein there is a greater interplay and exchange of ideas, thoughts, feelings and actions, which develop people empowered with noble character and wholesome values. They go out into the fields of action to build a world of love, harmony, peace and knowledge. They follow the path of ‘Dharma’ and give clear direction in every thought and human endeavor.”

MISSION:

To offer quality management education for life and living with an emphasis on research
**ASB- BANGALORE**

**Vision:**

“We envision a world endowed with the wealth of knowledge and the strength of discrimination* (Viveka). “We envision a system, which is a healthy breeding ground for the sprouting, culturing and dissemination of the whole gamut of knowledge in a wholesome and holistic manner for the well-being of humankind. “We envision a human being empowered with wholesome knowledge, which makes one an enabler and facilitator in the deep search and striving of every human being for that knowledge. “We envision a system wherein there is a great interplay and exchange of ideas, thoughts, feelings and actions, which develop people empowered with noble character and wholesome values. They go out into the fields of action to build a world of love, harmony, peace and knowledge. They follow the path of ‘Dharma**’ and give a clear direction in every thought and human endeavor.”

**Mission:**

“To be a research led school offering relevant and cutting edge post-graduate programs in Management. “To develop leaders who promote innovation and change in organizations for societal benefit, by providing ample opportunities for the students to extend selfless service so as to become aware of the needs of society and the environment.”

**6.2 Does the Institution has a management Information System (provide a brief description)**

**ASE-COIMBATORE**

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 B. Tech 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. **PTP portal:** New portal with the name PTP : Publication Tracking Portal is being introduced in every department with the aim of systematic consolidation of research publication by faculty and students and improve accessibility of papers by others faculty and student of institution to improve citation count

g. **Inpods:** University started the usage of InPods, a system that facilitates outcome-based learning

h. **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.

**ASAS-KOCHI**

AUMS - Amrita University Management System (AUMS)
ASAS-MYSORE
Yes, Amrita University Management System (AUMS), an online data cum resource management software used at Amrita to maintain student, staff and resource records across the University for various academic and administrative purposes such as regular attendance and mark entry, preparation of progress report, printing of grade sheets, grade assigning, publication of results, issue of TC, book transaction and online access to library resources.

ASEd-MYSORE
Amrita University Management System
- Attendance is maintained
- Updating Staff Profile
- Mark Entry of CCE and end semester examinations
- Grading
- CGPA

ASM-KOCHI
- Yes
- Website www.amrita.edu
- Online publication of statistics as per MCI guidelines
- Annual publication of Brochures and Prospectus

ASN-KOCHI
Yes.
- The admission process, examination process are managed through MIS-AUMS (Amrita University Management System)
- There are provision for each subject teacher to enter the daily attendance, enter the marks obtained in various examinations and assignments, can manage the time table
- Attendance and comprehensive marks report can be generated

AMRITA SCHOOL OF PHARMACY
Yes, Institution follows Amrita University Management System (Amrita Vidya). Once the student is admitted to the Institution, the student is registered to Amrita Vidya, the students attendance, sessional progress report, issual of hall ticket, University mark list, are done through AUMS(Amrita Vidya).Also parents portal for B.Pharm & Pharm.D students have also been implemented from this year onwards.

AMRITA SCHOOL OF DENTISTRY
The institution has a management information system known as “Amrita Vidya” and all the academic details are documented in this system. The parents can access information about the performance of their ward from any part of the world.

AMRITA SCHOOL OF BIOTECHNOLOGY
Computerization of administration is done using Amrita University Management System (AUMS)
- Integrated system that enables easy access to data
- Data recovery across Campuses
- Reports and statistical analysis of student progression.
- Security, Roles and Privileges.
- Easy management of fee instalments.
- Complete modelling of the academic workflow
All the details regarding students and staff are kept in AUMS.

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.

**AMRITA CENTRE FOR NANO SCIENCES**
Yes. Academic management software is indigenously developed and utilized.

**ASB-COIMBATORE**
The School uses AUMS which is used by all the schools in the university.

**ASB-AMRITAPURI**
Yes, administered by the University – AUMS

**ASB-KOCHI**
Amrita University Management System (AUMS) The administration process from admissions to generating grade sheets is fully computerized. Feedback analysis and library management are also done using the same.

**ASB- BANGALORE**
The school has adopted a University Management System called 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.

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

**ASM-KOCHI**
- Exclusive Quality Assurance Cell
- Annual inspection by NABL, NABH, ISO continuance of accreditation
- Working strictly as per the guidelines of the statutory bodies

6.3.1 Curriculum Development

**ASE-AMRITAPURI**
We revise curriculum once every 2yrs for M.Tech and 4 years for B.Tech. We take into consideration recent technological changes and input from industry

**ASE-COIMBATORE**
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

ASAS-AMRITAPURI
The University follows a systematic process in the design and development of the curriculum. The Board of Studies of Chemistry does frame the curriculum and the detailed syllabi of each program of the Chemistry Department, after the discussion among its members. The members include experts from within the University as well as from other Universities and/or Institutions. The suggestions of the Board will be taken up by higher bodies such as Committee for PG Programs and Academic Council. The syllabus will be revised every 3 years.

ASAS-KOCHI
• Curriculum and Syllabi updated based on the industrial needs.
• Expert opinions from academicians and industrialists were incorporated for the upgradation of syllabus and curriculum.

ASAS-MYSORE
Each faculty member who teaches a course gives his / her suggestions at the time of revision

ASEd-MYSORE
The University Provides Opportunity to receive and update existing Curriculum

ASM-KOCHI
• Development of curriculum by concerned Department faculty
• Annual review of curriculum by UG & PG Committees
• College Council
• Approval by University Academic Council

AMRITA SCHOOL OF PHARMACY
Pharmacy Council of India introduced uniform syllabus for B.Pharm, M.Pharm and Pharm.D all over India.

AMRITA 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 curriculums were referred while designing. Of late Bioethics has been incorporated in the curriculum.

AMRITA SCHOOL OF AYURVEDA
• Adopted the curriculum designed by the apex body.
• Faculties were given freedom to add more skill oriented sessions.
• Workshops and guest lectures on skill oriented subjects were added.

AMRITA SCHOOL OF BIOTECHNOLOGY
• Curriculum Revision: Regular revision at academic committee followed by Board of Studies approval
• Curriculum Design/revision with special emphasis on research/industrial exposure at UG & PG level
• Internships : 6 month internship is compulsory for PG Students
• Courses comprises of Lectures/Tutorials/Labs
• Seminars led by distinguished invited guests. Group Discussions and Presentations are highly encouraged

AMRITA CENTRE FOR NANO SCIENCES
Annual review of curricula and revision every 2-3 years
ASB-COIMBATORE
The MBA curriculum at ASB has evolved through a well-developed process that begins with an individual faculty, who updates the individual course outline every year, before its delivery, with a view to enhancing its content as well as impact. The school also undertakes periodic overall review of the curricula by an interdisciplinary team of faculty members. The school has also established a process of internal as well as external consultations, for developing a new course. Internal consultations take place at three levels: within the area, between the areas, and at the school level, where all faculty members are represented. External consultations are expected to take place with industry professionals, alumni and academics from other reputed schools.

ASB-AMRITAPURI
Inclusion of research component in the curriculum for enhancing the analytical skills of students by getting them to do research that leads to a publishable paper

ASB-KOCHI
- Course syllabi are reviewed every year by course specific instructors. Elective courses are reviewed by the area wise 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.

ASB-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

6.3.2 Teaching and Learning

ASE-AMRITAPURI
- Introduced Project Based Courses.
- All of our Faculty doing PhD and attending workshops/FDPs to improve skills
- Regularly conduct FDP/Workshop/Invited Talks/Industrial Visits/Conference in association with IEEE and IITs and other technical organizations like Energy Management Centre, NTPC etc.
- There are Four Department level class committee meetings in each semester to monitor performance of students
- Project Demo and Poster Presentations for B.Tech and M.Tech students of EEE Dept.

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

**ASAS-AMRITAPURI**
The University’s teaching, learning and assessment strategies are structured in order to facilitate the achievement of the intended learning outcomes. The curriculum of every semester is completed within the stipulated time through planning of the courses of study, timely conduct of periodicals, continuous evaluation, end semester examinations, followed by grading of results which is finalized in course committees within the stipulated time frame.

**ASAS-KOCHI**
• Counselling for weaker students and their parents

**ASAS-MYSORE**
Student centric participatory teaching methodology is adopted

**ASEd-MYSORE**
• Opportunity for integrated modern teaching & learning
• Use of Smart board
• Fostering the cultural values by introducing specific Courses like Cultural Education and Amrita Values

**ASN-KOCHI**
• 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.

**AMRITA SCHOOL OF PHARMACY**
Hands on workshops related to pharmacokinetic data analysis using phoenix winnonlin " by department of Pharmaceutics and Hands-on workshop on statistical analysis using SPSS was organised by Department of Pharmacy Practice, Amrita School of Pharmacy.
Research day was also conducted including different scientific sessions by department of Pharmaceutics, Department of Pharmacy Practice, Department of Pharmaceutical Chemistry, Department of Pharmacology.

**AMRITA 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 SCHOOL OF AYURVEDA
- New Teaching and Learning tools are used.
- More practical oriented classes were conducted for clinical subjects.
- Students were taken to School of Bio Technology for additional sessions.

AMRITA SCHOOL OF BIOTECHNOLOGY
- Regular Lectures
- Tutorials
- Laboratory Sessions / Activities
- Virtual Labs
- Video Sessions
- Hypothesis Proposals / Research Methodology
- Mini Projects

AMRITA CENTRE FOR NANO SCIENCES
Inclusion of societal and product development strategies

ASB-COIMBATORE
All the courses taught at the MBA and PhD programmes receive feedback from the students at the end of the course. This feedback is monitored by the management and it is also shared with the concerned faculty to help him/her in improving the course delivery. All the students are required to produce a research paper under the guidance of a faculty member which is to be submitted for publication to a SCOPUS indexed conference or journal. A course on Research Methodology was introduced last year in the MBA curriculum to strengthen the students’ research skills. Workshops are also conducted to help them. Faculty are encouraged to participate in FDPs. Student tutorials are being considered by us for further improvement of the learning process.

ASB-AMRITAPURI
Giving students international exposure by inviting interaction with foreign students. During the academic year, first year students had a cultural interaction with students from Japan

ASB- KOCHI
- More cases and experiential learning activities included.
- Alumni working in particular fields brought in to give insights on certain topics within the courses.
- Data analysis based projects and assignments given across courses.

ASB- BANGALORE
- Orientation Program: 2 weeks orientation program for the new batch
- Orientation Program provides fundamental courses required for MBA. Students from different educational background gain knowledge out this orientation program.
- 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.
- Master thesis implementation: To ensure and enhance the research among the students

6.3.3 Examination and Evaluation

ASE-AMRITAPURI
- Evaluations based on project for theory and lab courses
- Evaluations based on project exhibitions

ASE-COIMBATORE
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.
  o Systematic and methodical conduct of periodical tests and examination.
  o 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.

**ASAS-AMRITAPURI**
The University has a separate department for maintaining and updating all academic activities. The university has an integrated examination platform for making and maintaining time table, student list generation, invigilators, squads, attendance sheet for each examinations. The examination and post examination processes are very candid in the university and have a well established system for all.

**ASAS-KOCHI**
Credit Based evaluation pattern is followed.
The Academic performance of each student in each course will be assessed on the basis of continuous assessment and an end-semester examination. The continuous assessment in theory courses shall consists of at least two periodicals tests, other quizzes, assignments, tutorials, viva voce etc. The weightage for the internal Assessment components for the theory –based courses shall be 20 marks each, for the two periodical tests and 20 marks for the continuous assessment component (comprising of quizzes, assignments, tutorials, viva-voce etc.)
In theory courses, the weightage will be 60:40. And for practical the weightage will be 80:20.
There will be an end-semester examination of three hours duration in each lecture-based subject.
A student will be eligible to appear for the end-semester examination only if he/she have appeared for at least ONE periodical test during the semester.
It is mandatory for the students to appear for the end-semester examination /supplementary examination for completion of the course.
The final evaluation will be based on the content of the report, presentation by student and a viva-voce examination on the project. There will be 40% weightage for continuous assessment and the remaining 60% for final evaluation.

**ASAS-MYSORE**
Question papers for periodical tests are generated using a software to maintain confidentiality and whetted by a panel ensuring the standard of question paper.

**ASEd-MYSORE**
AUMS Usage
Providing extra time for Challenged Children

**ASM-KOCHI**
- Centralized Exam Control Division
- Centralized evaluation of papers
- Fully computerized system
- Separate exam control division for allied health science programmes

**ASN-KOCHI**
- Examinations are conducted as per the Master plan; so no course lag
- One day gap is to be given between the examinations of two years as per the university norms.

**AMRITA SCHOOL OF PHARMACY**
All the examination procedures from student registration for University exam, applying for exam to issue hall ticket, payment of examination fees are done through Amrita University

**AMRITA SCHOOL OF DENTISTRY**
We have an exam control division which judiciously takes care of all issues related to conduct of exams. The exams are conducted strictly on time and the results are published within twenty days.

**AMRITA SCHOOL OF AYURVEDA**
Double valuation
Revaluation on request

**AMRITA SCHOOL OF BIOTECHNOLOGY**
- The performance of the students is constantly monitored by internal exams, end semester exams and continuous evaluation process.
- Students are informed of the course content/lecture hours and nature of evaluation
- Involvement in mini projects is made mandatory to all first year UG students
- Journal/Research Article reading followed by assignments and/or presentations are included in the curriculum

**AMRITA CENTRE FOR NANO SCIENCES**
Continuous evaluation and shift to open ended questions

**ASB-COIMBATORE**
There is a Controller of Examination at the school level whose office is responsible for the conduct of examinations. Two sets of question papers are submitted at least two weeks in advance of the examinations. Results are published within two weeks of the examination. Students are shown their evaluated answer sheets and faculty are required to satisfy the students about the quality of evaluation.

**ASB-KOCHI**
- TAP Committee takes care of examinations at the department level headed by an Asst. Controller of Examinations, actively supported by the PGP coordinator.
• The quality of question papers is assessed by the PGP Committee before they are approved for the examinations

**ASB- BANGALORE**
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.

**6.3.4 Research and Development**

**ASE-AMRITAPURI**
The ECE department has two research lab – HUT LaB and ASPIRE Lab for BTech and MTech students.

- Regular TAG meetings
- Monitoring of TAG activities by management.
- Research Day for faculty members once in a month.
- AMMACHI Labs
- User studies on UX/UI on games with rural audience.
- Pilot studies on games about Life-skill learning.
- Dr. Sidney Strauss working closely with teams at field and helping research
- In conjunction with Live in Labs students our researchers brought inventions for Rural automation Ri-Cycle (Rice transplanter), Load bearing.
- Other Humanitarian innovations like Rubber tree tapping robot prototype, cable driven robot for coconut dehusking, UAV for road accidents monitoring, Gesture based UGV control for rural India, UGV for soil sample collection.
- Human Robot Interaction research methodology: using a Wizard of Oz protocol to study untrained users naturalistic speech and gesture interactions with an unmanned ground vehicle (UGV). Aim is to develop user model to support humanitarian and developing world applications, to enable untrained users to successfully control robots.

**ASE-COIMBATORE**
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, Research 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.

ASAS-AMRITAPURI
The University has a Research Committee to monitor and address issues related to research. There is a chairman in each campus will have the overall responsibility for the PhD programme in the particular campus. The Dean of the campus/Dean of the School/Principal of the School/Senior can be appointed as the chairman. Vice-Chairman and also representatives from each department, eminent scientists/researchers from premier institutes in India and abroad is included as members of the research committee. In the Department of chemistry, currently there are 6 part-time research scholars.

ASAS-KOCHI
- TAG system introduced
- Subscription of online resources, INFLIBNET etc.
- Encouraging faculty members to attend conferences and workshops and present papers

ASAS-MYSORE
- Incentive for high quality publication
- Reimbursement of publication expenses from the College

ASEd-MYSORE
- Access to Scopus database
- Incentives for the faculty to motivate to publish in the Scopus indexed journals
- Provision of 1:1 system usage for the staff.
ASM-KOCHI

- Central Research Lab
- Institutional funding for research projects
- Students Research Core Fund

ASN-KOCHI

- 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.

AMRITA SCHOOL OF PHARMACY

More research proposals have been submitted to various research agencies. Two projects are sanctioned by Department of Science & Technology and Spices Board.

AMRITA 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.

AMRITA SCHOOL OF AYURVEDA

A separate Department for Research and Development, ACARA is established and cancer special OP is started in collaboration with AIMS Kochi.
New machineries are added in the Research Laboratories

AMRITA SCHOOL OF BIOTECHNOLOGY

Resource Mobilization through MoUs with leading pharma/biotech companies and premier research institutes such as,

- Agilent Technologies, Germany
- Regional Cancer Centre, Thiruvananthapuram
- University of Oxford, UK
- University of Cambridge, UK
- National Ilan University, Taiwan
- C-CAMP, Bengaluru
- NCCS, Pune
- WIPRO Limited, Bengaluru
- Bugworks Research Inc., Bengaluru
- NIIST, Thiruvananthapuram
- THSTI, New Delhi

AMRITA CENTRE FOR NANO SCIENCES

Increased emphasis on publications, patents and translation & productization in R&D

ASB-COIMBATORE

We have taken a number of steps to encourage the research culture at our school. However, we do not want only our faculty members and Doctoral scholars to do research. We want to bring the research culture even to our MBA program. This is in alignment with our Mission Statement where we have stated that we wish to ‘emphasize research’ at our school. As a result of this desire, we have become the first leading Business
School in the country that requires its MBA students to produce at least one academic paper which is published in a SCOPUS indexed conference proceedings or Journal. This new requirement was introduced in the academic year 2014-15 in the form of a Masters’ Thesis leading to a paper. We have modified this to a Business Research Project (BRP) which should lead to a publishable paper. All the students of the MBA program are required to do a BRP research project. They work under the guidance of a faculty mentor in order to produce the paper which then needs to be submitted to a SCOPUS indexed conference or Journal. We have revamped our faculty’s PMS to give more weightage to research publications in journals benchmarked against the ABDC list of journals. As mentioned earlier, Mondays and Tuesdays have been earmarked for faculty interaction on research and Thursdays for the second year students for BRP research work.

**ASB-AMRITAPURI**

In order to encourage more research, faculty use Mondays for research

**ASB-KOCHI**

Better quality publications encouraged by linking faculty appraisals and career growth to the same.

- An early start of the independent study course is encouraged to result in publication.
- Faculty pursuing PhD. are given an option of adjusting their course loads as per their research requirements

**ASB-BANGALORE**

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 EBSCO, PROQUEST, IBID, CAPITALINE etc. We encourage our faculty to publish in good journals and our Performance Management System gives significant weightage to such publications. Faculty are encouraged to present their research at different national and international conferences. We have an internal Amrita Working Paper Series where our faculty and PhD scholars can publish their research work and get feedback from their colleagues. In year faculty are given Special Casual leave for their research work, (like for attending conference, data collection review work etc.)

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

**ASE-COIMBATORE**

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.
ASAS-AMRITAPURI
The University had provided all infrastructure 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.

ASAS-MYSORE
Library Advisory Committee comprising representation from all departments suggests activities to promote reading habits among students

ASEd-MYSORE
- Addition of more text book
- Accesses to various journals
- Stock Verification in Library & ICT Department

ASM-KOCHI
- Central Library & Departmental libraries
- Mini Library in Ladies Hostel
- Exclusive building for Central Library
- Online Databases for uptodate information & knowledge
- UG & PG sections
- Timings 8.00 AM to 11.30 PM
- Independent department of Computer Facility
- IT Helpdesk

ASN-KOCHI
- All Classrooms are provided with LCDs and OHPs to facilitate ICT enabled teaching learning. (3 new LCDs have been purchased.)
- In the process of extending the library area.
- 164 textbooks worth Rs.2, 34,312/- has been purchased this year.
- 15 more computers for the college have been approved by the Purchase Technical Committee.

AMRITA SCHOOL OF PHARMACY
Library books and reference books have been increased and more e-journals are subscribed in Online library resources like Delnet, J-Gate, Up-to Date have more than 200 online journals. In addition to the common online resources for the campus like Delnet, Uptodate etc. School has started subscribed an online journal database-J Gate with more than 300 journals and 68 online textbooks with 9 high demand text books.

AMRITA 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.

AMRITA SCHOOL OF AYURVEDA
- Purchase New books
- Increased number of computers and Net facilities.

AMRITA SCHOOL OF BIOTECHNOLOGY
- Access to Scopus indexed journals through Science Direct
• A-VIEW integration for learning
• Due maintenance of the existing equipments

**AMRITA CENTRE FOR NANO SCIENCES**
Digital library and state of the art equipments in place. New building plans in works.

**ASB-COIMBATORE**
We have a fully equipped state of the art library equipped with the LibSys, a fully integrated multi user library system incorporating the latest in information technology. There is a dedicated ICTS department at the university level which provides us with ICT support in the form of a well equipped computer lab. Our building is WiFi enabled with 24X7 access to the internet. All the students have a laptop. All the classrooms have a computer for faculty use with access to the internet. Every class has laptop charging points provided next to the students’ seats. Every class has a whiteboard with sufficient number of markers, a collar mike for the faculty, a state of the art projection system.

**ASB- KOCHI**
Details included in sections 4.3 and 4.5.

**ASB- BANGALORE**
1. The Library of the Amrita Vishwa Vidyapeetham -Bangalore Campus established in the year 2002
2. The few details of the library holdings: Print (books, back volumes and theses)
   Volumes: 6692 /Titles: 4550. Electronic (e-books, e-journals) EBSCO, ABI/INFORM Complete (Proquest), CAPITALINE, India Business Insight Databases (IBID), CABELL's Directory, CRISIL Research, J-Gate: Management & Social sciences, SUNY-Buffalo University e-resources, We order Harvard Cases for different courses.

**6.3.6 Human Resource Management**

**ASE-COIMBATORE**
• 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. Feed backs 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. Feed backs are taken periodically so that the appropriate work culture is maintained. The institute has a well monitored biometric identification system.
ASAS-AMRITAPURI
The University had a separate department for Human Resource Management. The department maintains the details pertains to every staff of the University, their pay scale, health condition, insurance, leave the staff and will address grievances of the staff if any.

ASAS-KOCHI
- Well arranged computer labs.
- Occupy with Wi-Fi.
- Broadband Networks
- Advanced Firewall for additional security,
- 2 steps authentication login to prevent unauthorised access.

ASAS-MYSORE
Encouragement provided to faculty members to upgrade their knowledge through participation in FDPs like workshops, seminars and conferences through reimbursement and special casual leave.

ASEd-MYSORE
- University Provides financial support to organise Conferences.
- Vacant post would be filled immediately

ASM-KOCHI
- Faculty: Exclusive Office of Faculty Affairs with senior staff – Recruitment, appointment and day to day management of faculty requests, conducting training programmes for faculty improvement, facilitator for conferences etc.
- Administrative, Technical & Nursing Staff: HR Department headed by a General Manager with adequate staff - fully computerised day to day functioning, payment of salary, leave, conducting regular and periodic training programmes etc.

ASN-KOCHI
- 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.

AMRITA SCHOOL OF DENTISTRY
The campus has a centralized human resource department which monitors the working atmosphere of the faculty and staff. Feed backs are taken periodically so that the appropriate work culture is maintained. The institute has a well monitored biometric identification system.

AMRITA SCHOOL OF AYURVEDA
A Separate Department for HR is existing for managing the Human Resources.

AMRITA SCHOOL OF BIOTECHNOLOGY
- The School provides a rich, healthy and cordial work environment strongly supportive of faculty and staff interests
- Provide adequate opportunities and support for career advancement

AMRITA CENTRE FOR NANO SCIENCES
Annual reviews software development in process

ASB-COIMBATORE
There is a Performance Measurement System (PMS) which is used to evaluate faculty performance on their teaching, research and administrative responsibilities. This PMS has been revised twice in the last two years to give more weightage to research as well as excellence in teaching. Faculty are also given points for guiding PhD scholars as well as summer internship and Business Research Projects. They are also given points for discharging their administrative responsibilities such as being members of different committees. Decisions regarding these policies are taken in concurrence with the faculty members themselves by a consensus. Nothing is imposed from the top. There are two all faculty full day sessions conducted every year in the presence of the Chairperson where faculty members collaboratively think of ways and means to bring about an improvement in the functioning of different aspects of the school.

**ASB- KOCHI**

Appraisal, compensation and promotion policies were amended at the University level to give more priority to research, consultancy and funded projects.

**ASB- BANGALORE**

Our Human Resource Management is taken care of by the University level Human Resource Development department.

### 6.3.7 Faculty and Staff recruitment

**ASE-COIMBATORE**

- 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

**ASAS-AMRITAPURI**

On the basis of the new vacancies 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 helps the faculty for participating such programmes all over the country and abroad. Moreover study leave is provided for carrying out higher studies.

**ASAS-KOCHI**
Faculty and staff recruitments are done through famous newspapers and new media based on technical and HR interview.

**ASAS-MYSORE**
Recruiting faculty members with research potential and qualification.

**ASEd-MYSORE**
Recruitment according to University & NCTE Norms

**ASM-KOCHI**
- Selection & recruitment by the selection committee constituted by the Institution:
- Selection through Interview and or written test by the concerned office (faculty/Staff).

**ASN-KOCHI**
- Is done as per the INC norm
- Faculty student Ratio of 1:10 is maintained

**AMRITA SCHOOL OF PHARMACY**
Five faculty have been recruited in 2016-17. Two faculty in Pharmaceutics department and others in Pharmacology, Pharmacognosy, Pharmacy Practice departments respectively among which one faculty of Pharmaceutics with PhD qualification.

**AMRITA SCHOOL OF DENTISTRY**
The faculty and staff are recruited based on merit. The institute has staff from different parts of India.

**AMRITA SCHOOL OF AYURVEDA**
According to the need as per the instruction of the Apex Body CCIM

**AMRITA SCHOOL OF BIOTECHNOLOGY**
- Recruitment based on requirements. Well qualified individuals with already secured funded research projects will be given preferences
- New recruits are encouraged to provide their respective areas of expertise to students to gain advantages
- Women faculty and research staff who had a career break are encouraged to apply for research grants through programs such as BioCARe and WOS schemes

**AMRITA CENTRE FOR NANO SCIENCES**
Assessment of knowledge and attitude and commitment as part of evaluations

**ASB-COIMBATORE**
We recruit faculty and staff whenever the need arises. The university supports us fully and gives us complete autonomy to do that.

**ASB-AMRITAPURI**
Faculty recruitment targets PhDs from good institutions

**ASB- KOCHI**
- Increased number of PhD. holders: One Professor joined during the year
• Two other Ph.D holders offered faculty positions.
• Admin Officer newly recruited during the year

**ASB- BANGALORE**
It is taken care of by the university HR department. We project our faculty and staff requirements to them and they take care of the rest. We conduct interviews for the faculty positions with internal faculty and the external experts invited by us for the purpose.

6.3.8 Industry Interaction / Collaboration

**ASE-AMRITAPURI**
Collaboration with industry for research projects and for student internships. Students doing final year project at industry (6 months and 1yr)
L & T has offered Ammachi labs an opportunity to make another version of Bar Bending simulator and which has been successfully delivered in April 2017.

**ASE-COIMBATORE**
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.

**ASAS-KOCHI**
Industrial internships for students with CUMI and famous industries

**ASEd-MYSORE**
Collaboration with schools and other Universities

**AMRITA SCHOOL OF PHARMACY**
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 SCHOOL OF DENTISTRY**
Clinical trials are being conducted and efforts are being made to have interaction and collaboration with the industry.

**AMRITA SCHOOL OF BIOTECHNOLOGY**
The School is keen to initiate new academic and industry linkages and collaborations and bound to maintain existing tie-ups. For example, School maintains strong connections with centres such as Biocon, Lupin, Wipro, THSTI, CCAMP, IIT Mumbai, Bugworks, Eram Scientific Solutions Pvt. Ltd. etc.

**AMRITA CENTRE FOR NANO SCIENCES**
Promoting more industry participation in research activities and encouraging product translation

**ASB-COIMBATORE**
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.

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

**ASB- KOCHI**
- 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.

**ASB- BANGALORE**
The interface with the industry is maintained by the Corporate and Industrial Relations (CIR) department for all the schools in the university. All our students do a ten week Summer Internship Project at different organizations. Many industry experts come to us as Colloquium speakers where they address our students, faculty and staff members as a part of the Colloquium guest lecture series. Many of our alumni from the industry visit us from time to time and give us their inputs.

### 6.3.9 Admission of Students

**ASE-AMRITAPURI**
Through entrance and ranking. On-line exams conducted

**ASE-COIMBATORE**
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).

**ASE-BANGALORE**
Amrita University Admissions are based on the Entrance Exam conducted every year during the month of Mar/Apr. Based on the entrance exam ranking all admission will be given. Admissions are done through online centralized counseling, including all other campus. Admission eligibility Student has to pass in 10+2 (Class XII) or its equivalent securing an aggregate of 60% marks in Mathematics, Physics and Chemistry with not less than 55% marks in each of these three subjects.
A three year Diploma in Engineering with minimum 60% marks, awarded by any State Board of Technical Education.

**ASAS-AMRITAPURI**
To ensure publicity and transparency in the admission process, a separate department for Admissions is there and they gives advertisements in local national dailies, and in our website (www.amrita.edu). In order to ensure the quality of the students seeking admission, for Integrated chemistry course, those who have secured a plus two pass with a minimum of 50% in aggregate, a pass in the entrance test conducted by the University and personal interview of a panel of expert teaching faculty was done and on the basis of all this rank list were prepared. The eligible students are admitted based on their merit.

**ASAS-KOCHI**
- Advertisement is given to print and new media.
- Admissions through merit of qualifying examination for UG and integrated PG.
- For PG it is based on aptitude test, technical test and interview.

**ASAS-MYSORE**
Fee concession for meritorious students

**ASEd-MYSORE**
Students are selected through merit and face-face interviews.

**Pros**
- Provision for students to pay fees in instalments

**ASAS-KOCHI**
- Fee concession for meritorious students

**ASAS-MYSORE**
- Students are selected through merit and face-face interviews.
- Provision for students to pay fees in instalments

**AMRITA SCHOOL OF DENTISTRY**
Students are admitted as per the new guidelines (NEET qualified) of the Central government and counselling conducted by the government.

**AMRITA SCHOOL OF AYURVEDA**
- Advertisement in newspapers/Web site
- Online and hardcopy of applications
- Entrance Exam Conducted by the School of Ayurveda.
- Counselling

**AMRITA SCHOOL OF BIOTECHNOLOGY**
- Entrance exams followed by stringent interview process are practiced for PG programs
- Admissions to UG programs are based on class XII scores

**AMRITA CENTRE FOR NANO SCIENCES**
Use of Admissions fairs to improve application quality

**ASB-COIMBATORE**
We use CAT score for admission to the MBA programme. That helps us to maintain good quality of admission. We also give significant weightage to work experience in our selection process. This ensures that a
significant part of our MBA students have prior work experience. This helps in imparting education in the Business Management discipline because of its practical and applied nature.

**ASB-AMRITAPURI**
A concerted effort is made to increase the number of students from various disciplines so that there is a good mix of academic and industrial exposure within the student body. This, it is anticipated, will lead to better appreciation of management content among the students since the diversity provides a good approximation of the corporate milieu they will be exposed to.

**ASB- KOCHI**
- Improvement in quality of applications with more number of experienced candidates and better scores in the entrance examinations
- Process improvements in the data management, written round (analytical focus and additional rounds), oral round (to check logic and out of the box thinking)
- Realistic course expectations communicated to candidates to reduce drop outs

**ASB- BANGALORE**
We have improved our admission process from last few years; 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, Google search, 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/MAT score to ensure that the quality of our students admitted to the school is good. For the MS course TOFEL test is mandatory.

6.4 Welfare schemes for

**ASE-COIMBATORE**
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

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<thead>
<tr>
<th>Teaching</th>
<th>Free treatment in AIMS, ESI</th>
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<tr>
<td>Non teaching</td>
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### ASAS-MYSORE

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<th>Provident Fund</th>
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<tr>
<td>Teaching</td>
<td>Non-teaching</td>
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<tr>
<td>Students</td>
<td>Provident Fund and ESI benefit for staff drawing less than 15,000/- per month</td>
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### ASEd-MYSORE

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<td>Teaching</td>
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<td>Students</td>
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### ASM-KOCHI

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<tr>
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<th>Health Insurance, Maternity &amp; Annual Leave</th>
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<tbody>
<tr>
<td>Teaching</td>
<td>Health insurance for self &amp; family, maternity and other leave benefits</td>
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<tr>
<td>Non teaching</td>
<td></td>
</tr>
<tr>
<td>Students</td>
<td>Health insurance, yoga and meditation sessions, gymnasium separate for boys and girls, annual sports and cultural festivals, movie club, green friends,</td>
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### ASN-KOCHI

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| Teaching | □ Medical insurance for the employee  
□ 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. |
| Non teaching | □ For employee drawing salary, below Rs. 15,000/- per month, medical facilities are free.  
□ For employee drawing salary above Rs. 15,000/- per month, an amount of Rs. 2,000/- for investigation and Rs. 1000/- for medical investigations. |
| Students | □ Conducts annual medical check up (at the time of admission and every year)  
□ Medical insurance coverage of Rs. 30,000/- every year for inpatient care.  
□ Hepatitis B vaccination before the students are sent for clinical postings  
□ Maintains health record for individual students |
Appointed a teacher as health in charge for a group of students.

AMRITA SCHOOL OF PHARMACY

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<th></th>
<th>Teaching</th>
<th>Non teaching</th>
<th>Students</th>
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<td>YES</td>
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6.5 Total corpus fund generated

(Note: These are funds raised through donation that are not allowed to be used directly for the attainment of the purposes, but the interest/dividend accrued can be utilized as well as accumulated)

6.6 Whether annual financial audit has been done

Yes  No

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

ASE-COIMBATORE

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<thead>
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<th>Audit Type</th>
<th>External</th>
<th>Internal</th>
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<td>Yes/No</td>
<td>Yes/No</td>
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<tr>
<td>Academic</td>
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<tr>
<td>Administrative</td>
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AMRITA CENTRE FOR NANO SCIENCES

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<td>Yes/No</td>
<td>Yes/No</td>
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<tr>
<td>Academic</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Administrative</td>
<td>Yes</td>
<td>Yes</td>
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6.8 Does the school declare results within 30 days?

For UG Programmes  Yes  No
6.9 What efforts are made by the school for Examination Reforms?

ASE-COIMBATORE

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-AMRITAPURI

At Amrita, we follow choice – based credit system. The internal assessments play an important role, as far as the future of the student is concerned. Minimum number of credits required for the awards of the degree is spread over six semesters for all undergraduate programmes under Amrita School of Arts & Sciences.

For every course, there is a class committee consisting of the teachers handling different courses in that class and student representative of that class. The committee will meet in the beginning of the semester and decide on weightage for each component that constitutes the total mark. Normally, there are four components for every course: 20% for the first internal, 20% for the second internal, 20% for the assignment and tutorial which is also called the continuous assessment and 40% for the end semester examination. In short, 60% for the internal evaluation and 40% for the end semester. Every course has certain number of credits, depending upon the hours taught per week. Normally, 4 contact hours for a 4-credit course. There will be approximately 80 working day, in a semester and first internal will be conducted at end of the 25th working day, the second internal at the end of the 50th working day and the end semester will be conducted at the end of the semester, on a common time table across all the campuses, determined by the Head Quarters.

At the end of every internal, the marks are entered into AUMS (Amrita University Management System) and once the marks are entered and saved, it is automatically locked and an individual teacher cannot change the marks entered. At the end of the semester, before the end semester examination, the department will publish the internal marks obtained by each student for each course. Also the department will notify the attendance of each student and those who have less than 80% attendance will not be permitted to write the end exam and such students will be given FA grade. In the subsequent semesters, such students have to attend classes and regain 80% attendance for writing the exam.

After the end semester examination, the papers will be valued centrally in a Centralized Valuation camp and the teacher will complete the valuation within one week of the completion of the examination. The marks will be presented in a class committee and final grades will be decided in this meeting. The marks will be entered in the AUMS and a computer printout, signed and approved by the class committee will be submitted to the exam office through Head of the Department. On receipt of this, The Deputy Controller of Examination publishes the result in the internet and student and parents can view the result. The students can see their answer book if they so desire and any grievances can be sorted out. Also there is a provision for revaluation of the answer books.

There will be supplementary examination within one month of the publication of the result for those who failed or those who were absent for genuine reasons. After the semester examinations, the grade sheets will be issued to the students indicating the courses registered, and the grades obtained with their grade points and SGPA as well as CGPA.

- The grade sheets are prepared through AUMS.
- Grades and grade points are calculated by AUMS.
• Seating arrangements for the examination is prepared on excel software.
• Cross checking the result with the hard copy is done manually.

Remedial Measures
• Vacation redo Course: The 50 days of vacation is divided into two slots of 25 days each and during each slot, a students can register 2 arrears and a total of 4 arrears can be cleared during vacation May/June.
• Those that get more than 40% internals can clear their arrears by re- appearance during the Subsequent examinations.
• Contact Course: Final year students who are left with any two arrears clear these arrears through contact courses.
• Re-evaluation: Students who completed a course twice and still failed are permitted to write the examinations without attending the classes.

For Examination Reforms are modified in accordance with the decisions of the Board of Studies (BOS) meeting in the campus.

ASAS, KOCHI
• The second chance examination is eliminated. Students can appear for any examination displayed in the exam schedule in every semester.
• The students who are having only one arrear in the 6th semester of UG program and 4th semester of PG program (where there are theory courses) of Arts & Sciences Schools will be given a chance to reappear for the exam of 6th semester of UG / 4th semester of PG (one paper only).
• Students having attendance above 80% are awarded grace marks on a five point scale in every semester.

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

ASEd-MYSORE
• Question Paper Pattern will be changed regularly
• Question papers would be thoroughly scrutinised by the senior faculty members before finalising.
• AUMS Usage
• Feedback will be taken by the Students

ASM-KOCHI
In addition to MBBS and allied health sciences programmes, Postgraduate Programmes (MD/MS/Diploma/DM/M.Ch.) also included in “Amrita University Management System” – fully online process for attendance, marks, eligibility calculation, issue of hall ticket.

ASN-KOCHI
M Sc Nursing – Examination of each speciality is conducted separately by an internal and external examiner which facilitates better supervision and evaluation of the students in each speciality.

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.

AMRITA CENTRE FOR NANO SCIENCES
Use Continuous assessments and more open ended questions

ASB-COIMBATORE
There is a Controller of Examination at the school level whose office is responsible for the conduct of examinations. Two sets of question papers are submitted at least two weeks in advance of the examinations.
Results are published within two weeks of the examination. Students are shown their evaluated answer sheets and faculty are required to satisfy the students about the quality of evaluation.

**ASB-AMRITAPURI**

Newly formed committees for Student Development and Student Life work with the Assistant Controller of Exams to institute improvements in the examination process as deemed necessary.

**ASB-KOCHI**

- The course evaluation parameters are multiple and spread throughout the course. Examination administration is done in a confidential and efficient manner. The TAP Committee members interact regularly to ensure compliance.
- Examination seating rearranged to accommodate all students in a big hall.
- Increased number of invigilators and better examination infrastructure to avoid malpractices (single tables without racks, CCTV cameras in strategic positions)

**ASB-BANGALORE**

The school has appointed one of the faculty members as an internal Dy. Controller of Examinations to oversee the examination process which includes setting up of question papers, conducting the examinations in time and declaring the results quickly. Earlier examinations were overseen by the university examination department. Managing the examination system internally has increased its efficiency.

### 6.10 Activities and support from the Alumni Association

**ASE-AMRITAPURI**

1. In CSE dept Alumni used to conduct Placement technical training as well as placement technical mock interviews.
2. In ECE dept Alumni from core companies used to visit the department and interact with students.

**ASE-COIMBATORE**

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

**ASAS-AMRITAPURI**
Every year Alumni meet will be conducted and have active participation in the meet by our alumni. From the prominent alumni pursuing their research at reputed Universities and R&D institutes in India and abroad, their contacts are utilized for the juniors to initiate research career.

**ASEd-MYSORE**
- They give feedback for the freshers during orientation regarding classroom interactions and teaching and learning processes.
- They actively take part and volunteer in all major functions conducted in the campus such as Annual function, Cultural activities and competitions, during Amma’s visit, community related activities and so on.
- Alumni render demonstration lessons
- Alumni those who are working in practice in teaching schools are coordinating and facilitating students during their practice classes

**ASM-KOCHI**
- Annual Alumni meeting
- Regular contact with alumni members
- Exclusive office and coordinator for alumni associated matters.

**ASN-KOCHI**
- 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.

**AMRITA SCHOOL OF DENTISTRY**
We have an alumni association. The alumni members take part in the activities of the college like Amritasmitham, dental camps & continuing dental education programmes.

**AMRITA SCHOOL OF BIO TECHNOLOGY**
- Provides information about placement/job openings
- Encourage alumni to interact with students to provide career guidance
- Seeks help to facilitate industrial visits/educational trips

**ASB-COIMBATORE**
We interact regularly with our alumni. From the year 2015-16 onwards we have started an annual alumni meet. It was held in January this year. Almost 100 alumni members participated in this meet. Our alumni regularly conduct Bootcamps for our graduating batch every year where they help them prepare for the final placements. Many alumni are also invited to deliver Colloquium talks before their juniors and faculty members. They also help us in placing our students both for summer internships and final placement.

**ASB-AMRITAPURI**
Alumni are invited to address the students on various occasions including the day of admission of the new batch. At these events the alumni share their experiences of their time in the institute and also how the values and education imparted to them over their two years here has stood them in good stead in their endeavours in the corporate/entrepreneurial world

**ASB-KOCHI**
There is no registered alumni association. However, the alumni are constantly interacting with the existing batches personally and through the social media. When placement opportunities arise in the organizations where the alumni are positioned, they help in placement preparation.
ASB- BANGALORE
Alumni are invited to address the students on various occasions including on the day of admission of a new batch. At these events the alumni share their experiences of their time in ASB. They also share their experience in the industry and guide our students for future.

6.11 Activities and support from the Parent – Teacher Association

ASE-COIMBATORE
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.

ASAS-AMRITAPURI
Every semester the parents are invited to the campus to address problems related to teaching, learning and evaluation. Also parent portal (on the website) is there so that the parents can watch the attendance, performance of the students and details of all activities of their ward at the University. If any discrepancies are there they can contact the concerned counsellor/advisor of the ward and rectify the problem at the earliest.

ASAS, KOCHI
Regular Parental Counselling for the weaker students after the first periodical examinations

ASEd-MYSORE
Progress of their ward will be made known to them over the phone.
- Invitation for the major functions.
- Issues of some students will be solved by face- face interaction with their parents.

ASM-KOCHI
Parent-Principal-HODs meetings at the time of joining and after the first university examination. After that, as and when needed.

ASN-KOCHI
- Parent Teacher Executive committee Meetings are conducted twice in a year and matters concerning the welfare, teaching learning or other issues of the students are discussed and taken care of.
- One parent representative is a member of IQAC.

AMRITA SCHOOL OF PHARMACY
Parents meeting are conducted after the sessional exam. Also we have introduced parents portal from 2015-16 academic year for Pharm.D and B.Pharm 1st year. Through this the parents can view their wards attendance, sessional marks and University marks.

AMRITA 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.
AMRITA SCHOOL OF BIOTECHNOLOGY

- Regular interaction between counsellors and parents helps to provide timely support and encouragement to students
- Feedback from parents are considered to improve quality of functioning of the School

6.12 Development programmes for support staff

ASE-AMRITAPURI

Staff encouraged to attend FDP and workshop conducted within Amrita and outside amrita with financial assistance.

Lab FDP for EEE staff
Cyber: Eminent faculties & industry personnel visit our University to conduct workshops, seminars & talks as part of the faculty development programme.

ASE-COIMBATORE

- 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 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.

ASAS-AMRITAPURI

At the beginning of every semester there are refresher programmes and faculty development programmes to the staffs in different fields starting from communication skills to spirituality. Also yoga and meditation programmes were conducted to both teaching and non-teaching staffs.

ASAS, KOCHI

- Faculty Development Programme.
- Vidyamritam (EXTRA MURAL LECTURE SERIES) by industry experts and senior professors.

ASEd-MYSORE

- Provision for the Staff to attend orientation Programmes Conducted by UGC-HRDC
- Encouraging the staff to attend & Present paper at National / International Seminar & Conferences by Paying T.A along with the registration charges.

ASM-KOCHI

- Faculty: Institutional sponsorship for national and international conferences, basic and advanced life support courses, Amrita Emergency Life Support course, Cochin Clinical Society meetings, Cochin Diabetic Club meetings etc.
• **Support staff**: Periodic training programmes in personal development, orientation classes, training in fire safety, emergency situation handling.

**ASN-KOCHI**

- The institution (centrally) provides orientation and skill training for the newly joined staff.
- Certification courses on Basic life support and Fire and Safety Training for all staff.

**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.

**AMRITA SCHOOL OF BIOTECHNOLOGY**

- 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.

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

**ASE-COIMBATORE**

- Waste water treatment plants are there and treated water is used for watering plants.
- Switching over to solar power.
- Planting trees in the campus.
- Promotion of vegetable garden in the campus with the help of students, and faculty.
- Separate bins are kept in the campus for segregating waste
- Solid waste collection, segregation and management of solid wastes
- Actively participated in Amala Bharatam programmes
- Green & Clean Campus
- Sewage water recycled, filtered and used to flush toilets

**ASAS-AMRITAPURI**

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

- Waste water treatment plants are there and reuse of treated water for watering plants.
- Switching over to solar power.
- Water and Energy auditing.
- Planting trees in the campus.
- 5) Promotion of vegetable garden in the campus with the help of students, faculty and ashramites.
- Vishuthuainettam - a campaign asking everyone to gift saplings of vegetables and trees.
- Establishment of bottle gardens
- Separate bins are kept in the campus for segregating waste
- Solid waste collection, segregation and management of solid wastes
- Preparation of value-added products from waste materials
- 11) Distribution of Vegetable and tree saplings to students, faculty and nearby local people in the area there by promoting organic farming.

**ASAS, KOCHI**

- SEED Programme in collaboration with MATHRUBHUMI.
- Organic Farming.
- Eco Friendly Cultivation.
- Effluent Treatment.
- Regular Waste Removal System.
- Water Purifying Plant.
- Composite Manure Plant.
ASAS-MYSORE
- Rain water collection points helping increase the water table.
- Maintaining greenery in the campus.
- Careful disposal of garbage.

ASEd-MYSORE
- Greenery across the campus
- Regular maintenance of the garden
- Conductive environment across the campus
- Provision for Rain water harvesting

ASM-KOCHI
- Segregation of wastes as per the guidelines
- Students : Green Friends Movement
- Planting of trees
- Use of solar energy
- Kitchen : Use of solar energy and LPG only

ASN-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

AMRITA SCHOOL OF PHARMACY
- Students and staff planted Medicinal plants in the College premises.
- Environment Science is a part of the curriculum.

AMRITA SCHOOL OF DENTISTRY
- 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 staffs are encouraged to make the campus eco friendly.

AMRITA SCHOOL OF BIOTECHNOLOGY

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

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.

AMRITA CENTRE FOR NANO SCIENCES
- Amalabharatham - an initiative by the Chancellor of the University to clean campus surroundings
- VishuThai Neettam – an initiative by the Chancellor of the University to plant saplings and grow organic vegetables
ASB-AMRITAPURI

- Actively participated in Amala Bharatam programmes

ASB- 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.
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.

ASE-AMRITAPURI
- Fast Track courses and for M.Tech and B.Tech students going on internship for final project
- One yr internship for M.Tech and Ph.D students both in reputed organizations in India and universities abroad
- Students encouraged to participate in Technical competitions
- B.Tech and M.Tech students rewarded for publications with distinction etc.
- Give motivation for Pre final year students for participating in national level competitions and around 35 students got prize in different events.
- Providing opportunities for M. Tech students to do internships in various industries and also different centres in Amrita University as part of their Dissertation.
- Introduction of scholarship for bright students have helped in attracting bright quality students.
- 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
- Awareness sessions are made livelier with street plays, dramas, games.
- Engaged the Live in lab students towards innovations in rural automation like rice transplanter or load bearing mechanism.
- Human Robot Interaction research methodology
- Rubber tapping robot prototype, coconut dehiscing, UAV for road accidents monitoring, Gesture based UGV control for rural India, UGV for soil sample collection.

ASE-COIMBATORE
- Decentralisation of the department with class coordinators taking care of miniature aspects of student – sending progress report home, conduct of class committee, attendance monitoring and the like.
- **Formation of thrust research groups:** Formation of thrust research group in specialized research thrust areas has become a treasured and novel initiative. This a platform created to discuss ideas, technicalities and knowledge transfer on weekly basis. This platform envisaged to pitch research project projects, collaborative research efforts among faculty, External Scientists, Research Scholars and Students.
- **Initiatives of Cutting Edge Research approaches:** Initiatives of cutting edge research approaches such as Soft computing, statistical modeling, Spatial information technology applications in core disciplines of civil engineering
- **E-learning initiatives** - Online Assignments, MOOCS, Web and Video Tutorials, Spoken Tutorials and digital Libraries.
- **Introduction of OBE** to all most all the courses in Coimbatore courses. This helped the tutors to improve/modify their teaching strategy to obtain the expected outcome
- In B.Tech Program, individual Paper publication in International/National conference/Journal is mandatory for the award of distinction.
- It motivates the students in their involvement in final year project. Few students start their final year project even in their prefinal year. It improves the interaction between students and faculty.
- Various courses such as CNC programming using Edge CAM, CFD are offering during vacation for the benefit of the students.
- Twenty percent of lab staffs are available till 7PM in their laboratories. It helps in improving the quality of the students project and complete their fabrication work within stipulated time.
- Training sessions are conducted for laboratory classes for weak students to enable them to have a clear understanding of the concepts.
- Offering a number of electives from advanced fields of engineering based on the interest of the student.
• Training sessions are also conducted in various laboratories for Technical lab staff in emerging areas for widening their knowledge and to help the students in a better way during laboratory sessions. And also test will be conducted at the end of training sessions.
• Offering remedial courses for weak students to enable them to clear the subjects
• The students were encouraged to do more number of extension activities and improved their participation in MAM’s other initiatives like ACIP, Amrita Create & Live in Labs.
• Curriculum Revision was done by constituting Board of Studies with the contribution of experts from the field.
• Funded projects have been obtained by staff from NCW, ICSSR, UNICEF, Department of Social Defence(Tamil Nadu)
• Certificate Course on Fund Raising through CSR projects will be conducted in association with Shanti Ashram, Coimbatore during August 2017
• Visiting a writer’s native place and interacting personally by students of English and Humanities department
• New innovation pedagogy 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.
• 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).
• 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.
• Many new labs are created based on the funds from projects. Students are involved in developing the lab.

ASAS, KOCHI
Highly competent research department, Best research minds, Orientation for students towards research culture, Equipping students to meet the job demands

ASAS-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.

ASEd-MYSORE
• Communicative English classes
• Initiations of Placement Activities
• Soft skill training
• Provision given to the students to publish their research papers in SCOPUS indexed journals.
• Stress & anxiety Management Classes- Integrated Amrita Meditation Technique (I AM Technique)

ASM-KOCHI
In-house developed softwares :
• Helpdesk software for complaint management
• ECHS Queue management system
• Pathology lesion indexing system to track cancer patients
• Media manager software for tagging and storing clinical photos and videos
• Developed software for sepsis patient details for research
• Software developed for anaesthesia case record
• Developed websites for neglected tropical diseases; Indian virus network; Amrita Diabetic Welfare Association.
ASN-KOCHI

• 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 focused 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 even 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.

AMRITA SCHOOL OF PHARMACY

Students are encouraged to involve in projects from undergraduate level and students and more students have contributed in student publication.
Students are encouraged to participate and present posters in different seminars and conferences and many students have received awards for the posters.

AMRITA SCHOOL OF DENTISTRY

• Students were sensitized to anti-tobacco activities in a more effective manner as World No tobacco day was observed with more vigour.
• Students sensitised to issues of people with special needs as a part of the World Disability day observance.
• Intensive training in bioethics for faculty.
• Systematic training in research methodology was given for faculty to increase research output.

AMRITA SCHOOL OF AYURVEDA

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

AMRITA SCHOOL OF BIOTECHNOLOGY

A concept of Faculty course preference is introduced in which faculty members were given freedom to select the courses they like to teach and thereby eliminate classes they are not capable to handle. The time table for the new academic year (starting from July 2017) will be prepared by considering the faculty preferences.

AMRITA CENTRE FOR NANO SCIENCES

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

ASB-COIMBATORE

• The School has started the concept of a annual Research Day starting from this year. All the student BRP and CIS papers were displayed by the students in the form of a single poster. These posters were then evaluated by separate teams of faculty evaluators. Senior university functionaries as the Vice Chancellor
and Registrar as well as senior faculty members from other colleges of the university were invited to see these posters in order to encourage the students for research.

- An officer was appointed to support the students on a full time basis for their different summer as well as final placement needs such as CV preparation, taking mock GD and interview sessions, coordinating the boot camps etc. She was assisted and guided by other faculty members too in all these activities.

**ASB-AMRITAPURI**

Yoga sessions to make students better fit for classes and to develop a better mind-set for life.

**ASB-KOCHI**

Bringing in multiple components for Summer Internship Evaluation by having three components: Detailed Presentation, Poster Presentation and Report

Early start of Course of Independent Study to facilitate publication

**ASB-BANGALORE**

- Faculty have done Collaborative research work with students and published research.
- Improved Integrated Performance recognition system (IPRS) for faculty appraisal in place with higher emphasis on research and new university policies for research and publications.

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

<table>
<thead>
<tr>
<th>ASE-AMRITAPURI</th>
<th>1. International conference on Robotics and Automation for Humanitarian Applications in Dec 2016 at Amritapur</th>
<th>A core team was formed for RAHA. Many different teams were formed underneath. Entire lab, other centres also pitched into different sections. Student volunteers, university staff, GAD, food, transport, ICTS, etc all worked in unison to make it a fruitful event. RAHA app kept everyone up to date wherever one is located.</th>
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<tbody>
<tr>
<td></td>
<td>2. Work closely with ministry of skills and entrepreneurship and develop e-content for ITI</td>
<td>NIMI has selected Ammachi labs for creating e-content. E-content started working on the pilot course with selected team members.</td>
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<td></td>
<td>3. Amrita MOOC</td>
<td>It has come to a hold as mysangham team was working with project along with A-View for Chhattisgarh government</td>
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<td></td>
<td>4. Initiating a project with the skills ministry of Andhra APSSDC</td>
<td>APSSDC and Ammachi labs along with A-View have started training 21st century skills to their mentors. Mentors were brought to Amritapur Amrita university for training and also were taken to schools with Ammachi labs and A-View trainers to apply their training skills.</td>
</tr>
<tr>
<td></td>
<td>5. Initiating a project with the skills ministry of Chhattisgarh</td>
<td>My sangham team working with A-View towards completion of ChiPs project.</td>
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<td></td>
<td>6. Electronics through crafts will be focused more this year.</td>
<td>This project is on hold for sometime</td>
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<td></td>
<td>7. Tailoring and Computer courses to be deployed in all the centers</td>
<td>All over the centres in India tailoring course has been deployed and most of the centres have computer course deployed. Field staff from university visited the centres in all villages across</td>
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</tbody>
</table>
India and educated the village co-ordinators how to conduct Legal awareness sessions, LEE sessions, Course. Also conducted assessments to completed batches and distributed certificates.

8. "L&T and Ammachi labs have entered a collaborative project to develop simulators for training construction skills, that will be rolled out in the L&T Construction Skills Training Institute (CSTI) - Pilkuwa, UP and by Amrita in schools and ITIs in Andhra Pradesh."

Bar bending Simulator Version 2 has been delivered to the Land T in April.

<table>
<thead>
<tr>
<th>ASE-COIMBATORE</th>
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<tbody>
<tr>
<td>• Ensure Faculty Publication in standard research forum .</td>
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<tr>
<td>• Encourage student participation in technical contests</td>
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<tr>
<td>• Three TAG groups were formed in the department to improve the research activities of faculties and students.</td>
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<tr>
<td>• OBE is introduced to many of the civil engineering courses to improve the teaching learning process.</td>
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<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Action Taken Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Setting up labs for Teaching:, Embedded Systems, Computer Architecture</td>
<td>1. Labs have been set up as planned for teaching.</td>
</tr>
<tr>
<td>2. Setting up research facility in Image/ Video Processing, Computational Thinking</td>
<td>2. Nearly 100 students are involved in developing innovative applications in the research facilities</td>
</tr>
<tr>
<td>3. ICPC Training for First year B.Tech</td>
<td>3. ICPC training was conducted for the first year B.Tech students of CSE and 20 students have been selected for next levels of training to participate in ICPC regional competitions 2017.</td>
</tr>
<tr>
<td>4. Specialized training for to students for participation in international contests and competitions</td>
<td>4. Delloitte innovation award in Smart Hackathon in 2017. Large number of students have participated and secured notable positions in various international/technical contests and competitions like Google Summer of Code, ACM ICPC regionals, Bosch Inscribe etc</td>
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<tr>
<th>ASAS-MYSORE</th>
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<tbody>
<tr>
<td>• To set in research culture and to increase teachers’ contribution to intellectual output in terms of publication in SCOPUS indexed journals, it is recommended to allow the teachers dedicated hours of research work</td>
</tr>
<tr>
<td>• Considering the dearth for competent Arts graduates as also quality high school teachers and with the objective of reviving Arts education it is planned to introduce a 4-year BA B.Ed programme</td>
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<tr>
<td>• Completion of Ladies hostel</td>
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<tr>
<td>• In order to set in research culture and enhance research output in the campus, every Saturday is dedicated to research / publication work by the faculty members. This has resulted in an increased number of journal paper publications. Also all 30 are published in Scopus indexed Journals</td>
</tr>
<tr>
<td>• Introduction of BSc-BEd &amp; BA-BEd was initiated. Required infrastructural augmentation including setting up of the lab were taken up and the intent was submitted to NCTE followed by NCTE inspection for introducing the programme in the year 2018-19</td>
</tr>
<tr>
<td>• Ladies hostel is on the verge of completion and will soon be ready to be occupied</td>
</tr>
</tbody>
</table>
• Renovation of the multipurpose hall to utilise the space for constructing three more floors accommodating computer labs, guest rooms and library
• Renovation of Office and Administrative block
• Introduction of new programmes

• The plan to start the work is approved and the work is in progress
• An integrated programme in BSc-MSc Visual Communication is introduced. Required infrastructural augmentation such as upgrading the studio, purchase of additional cameras, tripods etc., was undertaken as per the requirement.

ASEd-MYSORE
• Placement Activities
• Content Enrichment Classes
• Soft skill training
• I A M Technique
• Community Related Activities.

ASN-KOCHI
• Conducted two day National Conference on Organ Transplantation: Together, Towards Tomorrow
• Increased the number of publications in indexed journals

AMRITA SCHOOL OF PHARMACY
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 :
   • 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
• Steps initiated for NABH accreditation. EDR system being developed. Increased participation from staff for outreach activities. Dental Exhibition was held to promote oral awareness and sensitize the public to new modalities of treatment. Surveillance system (CCTV) was set up.
• Staff provided intensive training in research methodology to increase research output. Undergraduate students and interns encouraged to take up research and papers published by undergraduate students.
• More seminars, lectures, quiz programme in basic sciences, Continuing Dental Education programmes conducted. Increased participation from postgraduates in outreach programmes.
• Staff provided intensive training in bioethics so as to sensitize students to ethical principles in oral health care.
• Efforts were made to instil values in students by delivering “Values-based” lectures and participation in activities benefitting the society. “Knowing the Legends” programme initiated among first year students. Students mentored to share value based concepts among peers
• Tobacco cessation activities were strengthened. No tobacco day was observed with more vigour. Health promoting school programme was initiated among tribal school children. Students distributed rice packets to many needy families
• Inspiring lecture delivered by Ms Tiffany Brar, Founder of Jyothirgamaya organization on World Disability Day. Dental check up programme held at Raksha special school

AMRITA SCHOOL OF BIOTECHNOLOGY
With the induction of one more batch of students for BSc Biotechnology, additional class rooms and laboratory space were need to be created, which was attended by restructuring the existing School infrastructure.

AMRITA CENTRE FOR NANO SCIENCES
• Introduced strict lab safety measures
• Introduced new standards for data documentation – digital and notebook based
• Strict adherence to six monthly reviews
ASB-COIMBATORE

- Seven seminars/workshops were held during the year.
- All the course outlines were monitored. They were submitted in time with clearly laid out course objectives and evaluation criteria.
- Mondays and Tuesdays pre-lunch time has been slotted for faculty members who do not have a class in that time to come together to discuss and collaborate on their research ideas. Thursdays have been dedicated for the Business Research Project work for second year MBA students.

ASB-KOCHI

- Recruitment of faculty in the Professor grade: Recruitment done, and more Ph.D. holders have been offered faculty positions after the interview process
- Internal quality training for admin staff: An audit was done and individual orientation sessions were given to the admin staff
- Transportation arrangements for students traveling to Ettimadai for placement purposes
- Improvements in within-campus placement training: More sessions dedicated to soft skills, aptitude and placement counselling
- Increase consultancy assignments: Brought in many organizations to discuss possibilities (FIEO, CPPR etc.)

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

ASE-AMRITAPURI

- One yr internship for Mtech and PhD students both in reputed organizations in India and univ abroad.
- Students doing final project in industry or reputed univ in India and abroad
- Lab FDP in the beginning of all semesters to get familiarised with all experiments by all faculty members
- Project Demo and Poster Presentations for B.Tech and M.Tech students of EEE Dept.
- CSN: Giving training through contests such as Capture The Flag (CTF) ethical hacking contest.
- AMMACHI Labs
- Focused on getting Mtech students involved in outreach activities such as conducting robotics workshops for rural schools in 4 schools in AP
- Introduced discussions on every Wednesday to bring in all the folks of lab and create a new pool of ideas. 'New Trends hour', where all discuss, learn and update every week. You may come up with any topic that deserves to be shared among the team so that all can gain new perspectives and pass on knowledge. It can be an article that you read, an excellent research that you came to know, an experience that you had, or even a crazy idea that you just invented!! Anything that could potentially trigger a good thought would qualify for this.
- Monday is dedicated for paper writing day.

ASE-COIMBATORE

- To teach conversational English to primary school children at Govt. School – Ettimadai
- Specialized training for to students for participation in international contests and competitions
- Open Lab for Innovative product development including the concepts of computational thinking and design thinking
- Excellent class delivery to make abstract subjects of Electrical Engineering clear using animations and practical examples.
- Joint research proposals
- Active involvement of good students in funded projects

ASAS-AMRITAPURI

Innovative practices are presented as examples of the University’s continuous efforts towards quality improvement in applied research, teaching, and administrative aspects.
1. Peer Evaluation

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.

ASAS, KOCHI
- Extra mural lecture series and workshops by industry, academic experts.
- Industry visits
- Placement drives
- Parent counselling.

ASEd-MYSORE
- Integrated Amrita Meditation Technique
- Communicative English & Content Enrichment Classes

ASM-KOCHI
- Well established and streamlined teaching programme, periodic assessment, conduct of examination and declaration of results.
- 100% Hostel facility and ragging free atmosphere Single campus with all student centric, patient & bystander friendly facilities.

ASN-KOCHI
- Change in the methods of teaching (more activity focused Learning)
- Initiated more inter professional collaborative activities for faculty and students.

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

AMRITA SCHOOL OF DENTISTRY
- Health Promoting School programme.
- Knowing the Legend Programme.

AMRITA SCHOOL OF AYURVEDA
- 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
- 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 research-centric career.

AMRITA CENTRE FOR NANO SCIENCES
- Product oriented R&D
- Emphasis on spiritual awareness

ASB-COIMBATORE
- The six credit Business Research Project (BRP) module. As a part of this all the MBA students 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;
- 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

ASB-AMRITAPURI
- Instituted a research component for students in the MBA program, named as Independent Study Course. This should help students in their analytical skills.

ASB-KOCHI
- Student involvement in all departmental activities
- Written recognition to deserving students who contributed to the institution in one way or the other

ASB-BANGALORE
Excellent Teaching Pedagogy and curriculum practice. 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: 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

7.4 Contribution to environmental awareness / protection

ASE-COIMBATORE
- Students are encouraged to submit their assignments as soft copies.
- We are trying to reduce carbon footprints in the office
- Insist on double side printing whenever hard copy generation is required.
- Tree plantation was conducted along with Amrita SeRVE
- Playground for children planted with lawn grass to prevent soil erosion by wind and water
- Planted more than 100 trees in the campus as a part of campus greening activity
- Two check dams were built across the streams running through the campus to prevent surface water runoff and thereby helping recharge of ground water

ASE-BANGALORE
- Organic farming done in the campus.
- Cleaning campaign in the campus and also in the neighbourhood.
- Workshop on making paper bags to replace plastic

ASAS-AMRITAPURI
The initiatives taken are as follows:
i) Celebrating all international days like Earth day, Environmental day, Ozone day etc in our institution
ii) Amritapuri campus are observing World Car-Free Day on 22nd September every year by conducting a bicycle rally and 10 km road run from Karunagappally to the campus. The highlight of the day is that no one would come to the campus by private car or bike on that day. Day scholars shall avail of public transport facilities or use bicycles to reach the campus. The objective of the campaign is to promote the use of public transportation, car sharing emission–free vehicles as an effort to address the crisis of environmental pollution. Contributing towards a ‘Greener Tomorrow’ is drawn inspiration from Amma’s words on our duties and responsibilities towards the protection and preservation of our Mother Nature.

ASAS, KOCHI
- SEED Programme in collaboration with MATHRUBHUMI.
- International Forest Day
- International Water Day

ASEd-MYSORE
- Organisation of ABC
- Maintenance of Garden in the Campus
- Celebration of world Environment Day
- Awareness programme for the school children to save and protect environment- through lecture, film show, role play, dramatization, skit etc.,

ASM-KOCHI
- Students “Green Friends” Movement.
- Waste Management: Segregation according to the Hospital norms.
- Incinerators for proper waste disposal.
- Campus: Lot of trees and greenery

ASN-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

AMRITA SCHOOL OF PHARMACY
- Planted medicinal trees in the College campus.
- Students participated in Amalabharatam cleaning drive.

AMRITA SCHOOL OF DENTISTRY
- Tree planting campaign. Distribution of saplings to patient and public
- Amala Baratham(Cleanliness) campaign.
- Field visits by the students to water treatment, sewage treatment and solid waste management unit.

AMRITA SCHOOL OF AYURVEDA
- Planting.
- Cleaning of campus.
- Celebration of water day, energy conservation day etc.

AMRITA SCHOOL OF BIOTECHNOLOGY
All the staff members and students are encouraged to participate the University organized environment awareness programs and practice it for life.

AMRITA CENTRE FOR NANO SCIENCES
- Sapling planting schemes
- City clean up Seva

**ASB-COIMBATORE**
We have a full 3 credit course on Environmental Management as a part of the MBA curriculum.

**ASB-AMRITAPURI**
Actively participated in Amala Bharatam programmes

**7.5 Whether environmental audit was conducted?**  
No

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

**ASE-AMRITAPURI**

**Strengths**
1. Highly Qualified and well trained Faculty from diverse areas committed to imparting their knowledge to students and making them competent to enter either core industry or to pursue higher studies in universities of repute both in India and abroad.
2. Developing a culture involving research among students
3. B.Tech Students pursuing higher education
4. Instilling the spirit of competitiveness among students especially in the technical front

**Weaknesses**
1. Although 100% of eligible students are being placed in companies every year, the number of students getting placed in core companies needs to be improved significantly. This has been in large part due to the fact that the pay-package given by core companies in the first year or two is usually lower than the corresponding software companies.
2. Although several projects aimed at bringing benefit to society have been taken up by faculty and demonstrated, there has been no encouragement or financial support from the government side towards these objectives.
3. Although a large percentage of faculty are actively involved in research, we have not yet been able to involve 100% of the faculty in sponsored research activities. Lack of government support in providing funding and encouragement for research has been one of the reasons for this.

**Opportunities**
1. Improvement in hardware-kits in labs for doing high level research
2. Although we have several on-going funded projects, we need to generate more funding which helps towards generating more PhD students and gives more opportunities for faculty to be involved in research.
3. Encouraging more students to pursue higher education and research aimed at innovating technologies for societal benefits.
4. Conducting more national level Faculty Development Programs/Conferences
5. Increase the instances of faculty attending FDP or International Conferences outside Amrita.

**Challenges**
1. Recruiting suitably qualified PhD candidates from outside to join for teaching and research. This has been primarily due to the location of this campus and the lack of a housing facility inside the campus.
2. Motivating students to accept a higher level of academic rigor in education.
3. Motivating students to seek long-term benefits by going for core job placements rather than short term monetary benefits in software-related jobs.
4. Involving industries in collaborative research efforts with the faculty of Amrita.
ASEd-MYSORE

Strengths
- Qualified Teaching Staff.
- Good rapport with the local institutions and Universities.

Weaknesses
- New programmes to be launched.
- Inclination towards research activities to be improved.

Opportunities
- Staff are motivated to publish an article in SCOPUS / Non SCOPUS Journals / Conferences / Seminars
- Faculty members are encouraged to do Ph.D. work.

Challenges
- Placement for Kannada and English Medium Students.

ASM-KOCHI

Strengths
- Clear vision & mission to provide health care of the highest quality to all and promotion of value based quality education and research.
- Contribution of the highly qualified and experienced faculty.
- Time bound planning of admission, teaching and training schedule, timely conduct of examinations, declaration of results and issue of degree certificates.
- In the healthcare sector, state of the art equipments for investigations, diagnosis & treatment and the expertise
- Comprehensive Health care single campus - comprising School of Medicine, School of Dentistry, School of Pharmacy, College of Nursing, School of Management and all other allied student centric facilities.

Weakness
- Ever increasing requirement of vehicle parking space for the faculty, staff, PG Residents and stakeholders.

Opportunities
- Area developmental activities: Kochi Metro Rail Project; up-gradation of nearest Railway station.
- Global reputation, highly sophisticated and state of the art equipments, MOUs with various international universities, international elective trainees, international faculty cooperation in new techniques in surgical procedures.

Threats
- Emergence of many ‘high-tech’ private hospitals in the state pose a challenge to patient numbers.
- Retaining our highly trained staff and ensure motivation in a very commercial environment.

AMRITA SCHOOL OF PHARMACY

Strength:
- Strong publication record.
- Increase in funded projects.
- Increase in student publication

Weakness:
- Industrial collaboration.

Opportunity:
- Clinical posting in all the major specialities of AIMS compliment the class rooms based learning provide opportunity for students to become competent clinical pharmacists.

Threats:
- Equip the students to meet the standards expected by the medical professionals and Pharma Industry

8. Plans of school for next year
ASE-COIMBATORE

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 centres & labs, seed grants, etc.), facilities and infrastructure enhancements, etc.

- To intensify research in core areas like renewable energy, Power Electronics and Electric Drives with support from embedded domain in EEE Department
- More publications in reputed journal.
- More joint proposal and increase research funding
- Initiate the intake for M.Sc programme in Statistics and Data Analytics under Mathematics department
- Propose 5 Year Integrated M.Sc in Mathematics and Computer Science under Mathematics Department
- Augmentation of infrastructure – 40 Lakhs in Mechanical Department
- Organizing more National and International Conference
- Redesigning the curriculum with more project-based courses
- Larger numbers of MNC placement
- Setting up research facility in smart spaces, human-computer interaction and IoT
- Initiative for introducing Computational Thinking in schools
- Besides regular proposed department activities, we organize to give separate training to lateral entry PG programme students as bridge courses.
- Providing placement training for PG students and expanding no. of PhD students’ intake
- Starting new course B.Sc –Visual Communication under Department of Communication
- Planning to conduct a ‘Content Development’ course to Literature students with the supervision of Department of English.
- Plan to have atleast 50 % of faculty with Doctorate degree.
- Plan to set up Centre of Excellence in Microwave Research in Department of Electrical and Communication of Engineering

ASAS-AMRITAPURI

- Conducting more National Seminars.
- Inviting external experts to conduct NET coaching classes to our students.
- Submitting research proposals to different funding agencies.
- English department will organize workshops/ seminars. Various literary activities are planned under SAAHITI
- Department of Social Work will organize several awareness programmes on important social issues. They have also plans have several workshops.
- Extra – curricular activities will be strengthened.

ASAS, KOCHI

- Improve research quality and domain
- More CSI Activities
- More Sponsored Projects

ASAS-MYSORE

- In view of the additional programmes introduced and the increased strength of the school, infrastructure facility need to be augmented:
  - Purchase of chairs at the cost of upto Rs.7,00,000/-
  - Up-gradation and extension of CC TV Cameras to the tune of Rs. 3,00,000/-
  - Free 24x7 Wi-Fi connectivity in the campus extended to both staff and student
  - Augmentation of Computer Labs with about 36 thinclient systems with an estimated budget of about Rs.5,00,000/-
- Purchase of high end desk top systems to cater to research purposes
- Installation of fire wall for better cyber security
- Up-gradation of EPBX with PRI cards for easy quick and improved connectivity
- Appointment of additional teaching & non-teaching staff
- To introduce Integrated BSc – BEd programme
• Completion of ladies hostel
• Renovation of the multipurpose hall to utilise the space for constructing three more floors accommodating computer labs, guest rooms and library.

ASEd-MYSORE
• Planned to launch B.A B.Ed & B.Sc  B.Ed Programme
• Planned to organise National level Seminar
• Planned to Publish more number of Paper in Scopus Indexed Journals
• Planned to organise good number of workshops focusing on improving required skills & Competencies.
• Planned to organise Guest Lectures.

ASM-KOCHI
• To develop master training by experts in Robotic Surgery in the fields of Gynecological Oncology, GI Surgery, Head and Neck Surgery.
• Increase the annual intake of MBBS students to 150
• Increase in the annual intake of PG Residents
• Commencement of MD course in Pharmacology, Hospital Administration, Pain & Palliative Medicine.
• Commencement of super specialty courses in Paed. Gastroenterology, Paed. Neurology, Transplant Anaesthesia etc.
• Achieve international leadership position in cancer imaging by leveraging PET-CT and PET-MR and leading post-MD training center for Cardiac imaging, Breast imaging and Interventional radiology.
• Aiming for a 40% increase in the publications every year.
• Establishment of the newly created Infertility Centre in the heart of the Kochi city will provide state of art facilities for infertile couples and help in assisted reproduction at reasonable cost.
• Launching research projects to find low cost innovative solutions to current NCD (non Communicable Disease) problems
• Fellowship in specialities of Pathology (Renal Pathology, Gastrointestinal & Liver Pathology, Oncopathology) and Paediatric Neurology.
• Get upgraded lab with all amenities. Bio-safety as key cornerstone
• The Alumni plans to provide solar electric lamp in tribal areas to improve quality of life of people in remote area.
• International :
  • Streamline a faculty recruitment process to recruit at least one international faculty in all major super-specialties.
  • Attracting more international students for elective training and MOUs with such universities for mutual exchange of students.
  • Initiation of research collaborations with top 10 universities across the globe

ASN-KOCHI
• To start integrated MSc PhD in Nursing.
• Develop structured cultural education.
• Workshop on “Safe Blood Transfusion” (Scheduled on 9th July 2016).
• Workshop on ‘Quality enhancement and sustenance in teaching methodology in nursing education’ with financial assistance from NAAC.
• Enhancement of BSc Nursing seats from 75 to 100.
• Registering a few faculty members for PhD under Amrita Vishwa Vidyapeetham.
• Increase in the number of publications to a minimum of 100.
• Construction of a lift in the college.
• International conference in Clinical Nursing.

AMRITA SCHOOL OF PHARMACY
• Attract Placement opportunities for students.
• Strengthen Industry Institution Interaction & have Mou’s for training & placement.

AMRITA SCHOOL OF DENTISTRY
➢ To excel in undergraduate and postgraduate training and emerge as a leading education institution at the national level.
➢ Conduct more innovative programmes for staff and students so as to encourage creativity and critical thinking.
➢ To further improve the quality of oral health care delivered and make it more cost effective.
➢ To get more funded research projects and collaborations with other premier institutes.
➢ To set up a community dental clinic so as to provide affordable oral health care.
➢ To improve the various outreach activities with greater social accountability.

AMRITA SCHOOL OF AYURVEDA
➢ Research projects.
➢ Interdisciplinary research.
➢ Increasing infrastructure.
➢ Animal House.

AMRITA SCHOOL OF BIOTECHNOLOGY
➢ Restructuring of the existing infrastructure to provide space for additional labs and reading room/Library.
➢ Ph.D. students availing University fellowships are recommended to spend at least six hours per week for School related academic activities.

AMRITA CENTRE FOR NANO SCIENCES
➢ Finalize Good Manufacturing Practice (GMP) facility
➢ Complete and initiate plans for Good Laboratory Practice (GLP) animal facility
➢ Initiate new building construction for Centre for Nanosciences and Molecular Medicine
➢ Initiate plans and construction for CRDTBH research hub for Nano electronic products
➢ Initiate and evaluate product oriented course for M.Tech in Nanotech and Renewable Energy

ASB-COIMBATORE
➢ To fully develop and implement the Assurance of Learning Goals based pedagogy in all the courses in order to shift from a teaching and training centred school to a learning outcome based one;
➢ To fully develop and implement the Assurance of Learning Goals based pedagogy in all the courses in order to shift from a teaching and training centred school to a learning outcome based one;

ASB-AMRITAPURI
➢ Recruit more faculty
➢ Enhance soft skill training for students
➢ Encourage more Scopus indexed conferences and journals by faculty and students.

ASB- KOCHI
➢ To increase the number of colloquia held during the year, for better industry exposure before the students start appearing for placement interviews.
➢ To introduce an online database of leave information for the faculty and staff.
➢ To handle more number of courses internally and reduce the over dependence on visiting faculty.
➢ Engage full time faculty members in all areas of specialization.
➢ To introduce an internal newsletter for enhanced knowledge sharing.
➢ To have a dedicated area for CIR and placement activities like mock interviews and GDs
➢ To organize a soft skills workshop for faculty and non-teaching staff.
➢ To organize an environment awareness programme.

ASB- BANGALORE
➢ We need more full –time faculty for core subjects
➢ We need to setup Analytical lab
Name **PRASHANT R. NAIR**

**Signature of the Coordinator, IQAC**

Prof. PRASHANT R. NAIR  
VICE-CHAIRMAN  
INTERNAL QUALITY ASSURANCE CELL (IQAC)  
AMRITA VISHWA VIDYAPEETHAM (University)  
Amritanagar P.O., Coimbatore - 641 112

Name **DR. SRIRAM DEVANATHAN**

**Signature of the Chairperson, IQAC**