<u>**YEARLY STATUS REPORT - 2020-2021**</u>

Part A	
Data of the Institution	
1.Name of the Institution	Amrita Vishwa Vidyapeetham
• Name of the Head of the institution	Dr. Venkat Rangan
• Designation	Vice Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	4222855888
• Mobile no	9047737777
• Registered e-mail	naac@amrita.edu
• Alternate e-mail address	vcoffice@amrita.edu

• City/Town	**Ettimadai PO Coimbatore**
• State/UT	**Tamil Nadu**
• Pin Code	**641112**

2.Institutional status

• University	**Deemed**
• Type of Institution	**Co-education**
• Location	**Rural**
• Name of the IQAC Co-ordinator/Director	**Prof. Raghu Raman**
• Phone no./Alternate phone no	**914222685888**
• Mobile	**9895028779**
• IQAC e-mail address	**care@amrita.edu**
• Alternate Email address	**raghu@amrita.edu**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://amrita.edu/wp-content/uploads/2021/11/aqar2019-2020.pdf
4.Whether Academic Calendar prepared during the year?	**Yes**

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to

Cycle 1	A	3.2	2009	29/01/2009	28/01/2014
Cycle 2	A	3.4	2014	24/09/2014	23/09/2019
Cycle 3	A++	3.7	2021	17/08/2021	16/08/2028

6.Date of Establishment of IQAC	17/04/2009

7.Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Dr Maneesha Ramesh, Dean, International Programs and Director of its Center for Wireless Networks & Applications	UNESCO Chair on Experiential Learning for Sustainable Innovation & Development.	UNESCO	2021, 4 years	0
Dr. Bhavani Rao, AMMACHI Labs' and Center for Women Empowerment and Gender Equality	UNESCO Chair Gender Equality & Women's Empowerment	UNESCO	2020 ,4 years	0
Amrita Vishwa Vidyapeetham	Institute of Eminence	Ministry of Education	2019	0

8.Whether composition of IQAC as per latest NAAC guidelines	Yes
• Upload latest notification of formation of IQAC	**View File**
9.No. of IQAC meetings held during the year	1
• The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)	Yes
10.Whether IQAC received funding from any of the funding agency to	No

support its activities during the year?	
• If yes, mention the amount	0

11.Significant contributions made by IQAC during the current year (maximum five bullets)

Amrita Vishwa Vidhyapeetham has been accredited with A++ by NAAC in 2021 and has emerged as the fifth best university in the National Institutional Ranking Framework (NIRF) Ranking 2021 for Indian Universities. AACSB International Accreditation for Amrita School of Business (ASB). Amrita IQAC has driven the adoption of Outcome Based Education (OBE) which is an excellent tool for improving and continuously monitoring the teaching-learning process, course delivery & assessment, and attainment of learning outcomes. As part of the knowledge exchange of the IQAC best practices and innovations like Live-in-Labs have been showcased in prestigious events. Student Feedback Analysis Report

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Accreditation, Rankings & Eminence	Amrita Vishwa vidyapeetham has been accredited with A++ by NAAC on 2021, Amrita Vishwa Vidyapeetham has emerged as the Fifth best university in the National Institutional Ranking Framework (NIRF) Ranking 2021 for Indian Universities. Amrita was awarded 61.23 scores with the 5th rank. Amrita has been adjudged as one of the Top 10 Universities in India for the Fifth consecutive year. In the overall category. In the THE Impact ranking Amrita was the Ranked as the no one University from indian and first indian university to rank below 100 world wide. In THE World University ranking amrita ranked 801-1000th and in QS World University Amrita Vishwa vidyapeetham Ranked 1001-1200th Amrita Vishwa Vidyapeetham, Coimbatore Campus, won the first rank for Coimbatore district, under 'One District One Green Champion' rating by Mahatma Gandhi National Council of Rural Education (MGNCRE) of Ministry of Education, Government of India, for the academic year 2020-2021. Amrita Vishwa Vidyapeetham, Coimbatore campus, was ranked in the top 10 in the universities category of the All India Council for Technical Education (AICTE) Clean and Smart Campus 2020 rankings
Amrita NEP 2020 Implementation	Amrita Vishwa Vidyapeetham conducted webinars and discussions over a few days for the implementation of the National Education Policy, NEP 2020 as per AICTE guidelines. For this webinar session, 400+ faculty members from 6 Amrita campuses

attended the virtual event.. Distinguished experts at Amrita shared their views and strategies for implementing NEP policy. The senior management of Amrita pledged to implement the guidelines of NEP 2020 to contribute to the community, state, regional, national and international levels through a variety of innovative initiatives. The pros and cons of the many ideas given by Amrita Faculty were discussed and evaluated during the webinar. These discussions are bring crystallized into Amrita's Action Plan for NEP 2020.

Amrita Quality initiatives	Research day, FDPs, International Symposium on Universities-SDG Performance & Rankings, OBE workshops, Online Degree Programs, Sharing Amrita Best Practices

13.Whether the AQAR was placed before statutory body?	Yes

- Name of the statutory body

Name	Date of meeting(s)
39th Academic Council Meeting	18/12/2020

14.Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	No

15.Whether institutional data submitted to AISHE

Year	Date of Submission
2020	19/02/2020

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	264
1.2 Number of departments offering academic programmes	107

2.Student	
2.1 Number of students during the year	**21365**
2.2 Number of outgoing / final year students during the year:	**5630**
2.3 Number of students appeared in the University examination during the year	**12553**
2.4 Number of revaluation applications during the year	**137**
3.Academic	
3.1 Number of courses in all Programmes during the year	**4471**
3.2 Number of full time teachers during the year	**1744**
3.3 Number of sanctioned posts during the year	**781**
4.Institution	
4.1 Number of eligible applications received for admissions to all the Programmes during the year	**69573**
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**2553**

4.3 Total number of classrooms and seminar halls	**495**
4.4 Total number of computers in the campus for academic purpose	**5989**
4.5 Total expenditure excluding salary during the year (INR in lakhs)	**42181**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

Amrita has over 180+ programs (Ex: no of UGs, no of PGs, and No. of Ph.D. programs) spanning Engineering, Sciences, Health Sciences, Arts, Humanities, Ayurveda, Agriculture, Life Sciences and Business. The curricula are designed in alignment with local, regional, national, and global needs. For this, the Board of Studies includes representatives from Industry, as well as eminent national and international universities. Each department has a Department Academic Advisory Committee (DAAC) that oversees the OBE implementation and the corrective actions based on attainment analysis. Amrita's in-house AMPLE system quantifies the attainment of POs, PSOs, & COs in each course offering.

All Program Outcomes are designed in such a way that students develop critical thinking, communicate effectively, and become productive citizens. Live-in-Labs as an immersive, field-based course is considered as the universities flag-ship experiential learning program, where students put theory into practice in remote villages in developing solutions to address the societal challenges in India. The developmental projects tackle focus areas such as education, organic farming, sanitation, health, hygiene, and income generation. To foster international experience, the university has mapped programs and courses as equivalent with several top universities in America, Asia, and Europe facilitating semester-abroad, dual and joint degrees. Students, when

they graduate, will be well trained to enter into a broad spectrum of industries such as computers, communication networks, the internet of things, earth sciences, environmental sciences, disaster management, health care, e-governance activities, bio and nano-technologies, VLSI and embedded systems, agriculture and chemical industries and strategic planning.

File Description	Documents
Upload relevant supporting document	**View File**

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

11

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

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

3170

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

385

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year

188

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

1.3 - Curriculum Enrichment

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

Amrita University curriculum comprises core courses, elective courses and value- based courses, ensuring a quality education for both life and living. Careful blend of courses and workshops to sensitise the students on the issues of gender equality and inclusivity, human values and personal ethics, environment sustainability, societal issues and professional ethics.

Human Values & Ethics -Amrita has courses in all programmes that are specially focused on the development of human values called "Value Education". A weekly one hour class is exclusively allotted in teaching moral values. Every year the first year Post graduates and undergraduate students are given lectures to imbibe human values in their lives.

Gender -Cultural Education I & II and Amrita Values Programme I & II are offered as mandatory courses in all branches of engineering, these courses focus on gender issues, managerial values and ethics, legal aspects, cultural heritage, moral values, Indian history, arts and science, Yoga and Meditation to give exposure to the students about the richness and beauty of Indian way of life. Amrita hosts India's first-ever UNESCO Chair in Gender Equality & Women's Empowerment, conducts research on Women's empowerment, hosts numerous activities and awareness programs on gender equality in light of the UNSDG's.

Environment & Sustainability -Amrita has adopted the UN's 'Sustainability Literacy' test (SULITEST) to measure the awareness of students on various dimensions of SDGs. The course Environmental Science & Sustainability is a mandatory course for all UG curriculum includig Science, Arts & Commrece & Management streams of the School.

File Description	Documents
Upload relevant supporting document	**View File**

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

144

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

1.3.3 - Total number of students enrolled in the courses under 1.3.2 above

1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year

16095

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

1.3.4 - Number of students undertaking field projects / research projects / internships during the year

4660

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

1.4 - Feedback System

1.4.1 - Structured feedback for design and review of syllabus – semester wise / is received from Students Teachers Employers Alumni	• **All 4 of the above**

File Description	Documents

Upload relevant supporting document	**View File**

1.4.2 - Feedback processes of the institution may be classified as follows	• **Feedback collected, analysed and action taken and feedback available on website**

File Description	Documents
Upload relevant supporting document	**View File**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Demand Ratio

2.1.1.1 - Number of seats available during the year

9890

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

13563

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.2 - Catering to Student Diversity

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

Students are our primary stakeholders, and they are provided significant mentoring and opportunities to improve, showcase talent, and excel during their tenure at the university. Counselor training is part of our FDP program and allows holistic mentoring of students. Amrita's University Management System is used to track each student's performance in every course they take. Both slow-learners and advanced learners are identified through periodic assessments and appropriately guided.

Utmost care and effort are adopted for giving additional guidance to slow learners through remedial classes, assignments, and recessional exams. Special teaching strategies are being adopted for slow learners. Our curriculum allows slow learners to take fewer courses per semester and take a longer duration to graduate. Counselors/mentors identify academically weak students and work with the faculty to design a plan for these students. Peer teaching is encouraged to help slow learners.

Advanced learners are encouraged to participate in external seminars/ conferences and quiz competitions. They can take Honors programs and Fast Track Courses, Advanced Topics in courses, Special project-based learning, Internships. Award of distinction is given to advanced learners for their performance. They can participate in technically challenging projects. Waiving minimum classroom attendance for advanced learners so that they have additional time to pursue intensive research with faculty.

File Description	Documents
Upload relevant supporting document	**View File**
Link For Additional Information	https://www.amrita.edu/care/aqar2020-21/find.php?path=cr2/2.2.1

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
21365	1744

File Description	Documents
Upload relevant supporting document	**View File**

2.3 - Teaching- Learning Process

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

Amrita curriculum is designed to address modern world problem-solving techniques and a sustainable development environment to address diverse societal challenges. Amrita Vishwa Vidyapeetam provides training to the students through experiential learning, collaborative learning, participative involvement in the problem-solving techniques. This preparation of students for such activities will help them face the real-life situation and challenges posed by the turbulent and volatile environment. Another learning methodology is the project and internship- which helps the students to get exposure to the actual working experience in all the factors. Through the course, they have exposure to real situations that executives face on the job, as well as the hurdles that need to be crossed to achieve corporate targets. By creating the project report, students will be able to organize the presentation, draft the report and its implications. The other activities like role-playing, group discussion, debate etc., are the regular activity of the individual course and are taken care of by the concerned faculty handling the course.

Amrita's student Centric Academic Plan includes Project-Based & Problem-Based Learning (PBL), Experiential Learning, Participatory Learning & Game based learning. The academic plan, with its flexible curriculum, blends interdisciplinary, innovation and international best practices for personalized learning and transdisciplinary graduation pathways.

File Description	Documents
Upload relevant supporting document	**View File**

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

ICT enabled teaching methodologies and advanced technology are being followed by the faculty members in class rooms. The use of multimedia teaching aids like, LCD projectors, classrooms with internet enabled computer/laptops/tablet systems are used in the classroom. Amrita University Management System (AUMS) includes LMS and CMS. The AUMS was created as a comprehensive teaching resource to connect thousands of students spread across all campuses of Amrita. Admissions, attendance, assessments, examinations, question banks etc are core functionalities facilitated by AUMS. It is also used as a communication portal by which teachers can publish assignments, online examinations or publish results.

Another e-learning initiative developed at Amrita is Virtual Laboratories, an interactive online platform for students to perform experiments.University-wide subscriptions are available to online resources and repositories. Amrita's Health Information System (HIS), one of the largest

healthcare informatics suites built in house, contains over 50 Million patient electronic health records (containing data from lifestyle to the genomic level) and it has transformed the hospital into a paperless all-digital hospital. Courses from expert IIT faculty in NPTEL are made available to all faculty and students through Amrita's digital library. Amrita Multiplatform Personalized Learning and Evaluation (AMPLE) platform is designed as the next generation LMS for conducting Flipped Classrooms and Personalized Learning of students.

File Description	Documents
Upload relevant supporting document	**View File**

2.3.3 - Ratio of students to mentor for academic and other related issues during the year

2.3.3.1 - Number of mentors

1383

File Description	Documents
Upload relevant supporting document	**View File**

2.4 - Teacher Profile and Quality

2.4.1 - Total Number of full time teachers against sanctioned posts during the year

1744

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.4.2 - Total Number of full time teachers withPh.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

1021

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.4.3 - Total teaching experience of full time teachers in the same institution during the year

2.4.3.1 - Total experience of full-time teachers

11257.62

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

158

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

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

12.0

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

201

File Description	Documents
Upload relevant supporting document	**View File**

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

The Amrita Examination system is fully automated which includes revaluation procedure and result publication. Students can view attendance reports, scores of continuous assessments like quizzes, assignments, case studies, etc. through AUMS (Amrita University Management System) portal which provides transparency in the evaluation scheme. All components related to examination scores and grades are made online which enables publication of results within 15 days of completion of end semester examinations. Students may also raise grievances about their evaluation through the revaluation process. This enhances the transparency at all stages of our evaluation mechanism.

AUMS features: Online course registration, facility to upload and download question papers and automatically encrypt them, students can view exam timetable and download admit cards online, exam hall seat allocation, exam attendance sheets. Conduct of online exams, results are published online allowing confidential, easy and instant access (through mobile apps also), the degree certificate generated online, online application for transcripts, an online ticketing system tracks queries and responses effectively, students can apply for a re-evaluation, supplementary exams, remedial options: re-registration, run-time redo courses are options to improve internal marks.

Every quiz, tutorial, classroom and lab session is accounted for continuous evaluation. The question paper scrutiny committee scrutinizes for quality. The controller of examinations also arranges for audit of QPs and answer scripts at the end of every semester. Published research papers may also be considered for assessments.

File Description	Documents
Upload relevant supporting document	**View File**

2.5.4 - Status of automation of Examination division along with approved Examination Manual	A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents

Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.6 - Student Performance and Learning Outcomes

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

All the programs in the University have well defined program and program specific outcomes. Curriculum for each program is designed to meet the outcomes specified. Course Outcomes for all the courses in the curriculum are defined by the course mentors and faculty offering the course, taking every care to customize to the professional orientation of the course. For every course in the respective program, Course Outcomes (CO) are outlined and mapped to PO (program outcomes) and PSO (Program specific outcomes) using a Program Articulation Matrix (PAM). The Course Articulation Matrix (CAM) plays a pivotal role in quantitatively mapping the individual course outcomes that are ascertained from various assessments to the the PSO & PO. Additional indirect components such as survey based feedback from students are also fed into the CAM. The Program, PO, PSOs & COs are disseminated to university website under relevant program links, made available on intranet, printed in the curriculum book, printed in lab manuals and records etc

Each semester, in the first lecture of each course, the faculty instructor discusses the COs with all the students enrolled for that course. This comprehensive discussion covers the COs and how that is translated into the: Course plan/Lesson plan, Pedagogy, Evaluation components and Evaluation scheme.

File Description	Documents
Upload relevant supporting document	**View File**

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

The university delegates the task of defining the attainment calculations in a decentralised manner.The seven faculties develop the process with the engagement of: Faculty Dean, Controller of Examinations, Department Chair, Department Academic Advisory Committee (DAAC) / senior academicians, and representative of IQAC. The implementation is as per the requirements of the statutory bodies (such as AICTE / MCI), and the strategies of implementation are customized for each faculty.

In the Faculty of Engineering, the subject matter experts develop and map POs, PSOs and COs. For each course, the number of evaluation components is pre-defined as per academic regulations. This is followed by identification of thresholds for the CO attainment (for e.g., 50% of the maximum CO contribution in an exam for each CO), the CO attainment target (in percentage) and the PO attainment target (levels 1, 2, or 3 — which are based on the overall PO attainment being in three different percentage brackets). The evaluation components are classified into internal vs end semester.

For MBBS, MD/MS, DM/MCh. students, the number of evaluation components of each course is pre-defined as stated by the regulations laid out by the MCI. The DAAC conducts reviews and coordinates with the IQAC and Departments to implement suitable quality improvements.

File Description	Documents
Upload relevant supporting document	**View File**

2.6.3 - Number of students passed during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

6456

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

https://www.amrita.edu/care/aqar2020-21/cr2/2.7.1/Student%20Satisfaction%20Survey.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

Amrita Vishwa Vidyapeetham aims to be a university of excellence with an exceptional record of teaching-learning as well as research. Each campus contributes to the research output of the University in its own capacity. Research direction at AMRITA is to engage in technologies, projects, and solutions for societal and humanitarian relief as also to conceptualize and develop low-cost technologies to solve scientific and societal challenges facing the world.

The Institution's research facilities are frequently updated, and there is a well-defined policy for promotion of research Such as

- Providing state of the art labs for faculty and research students

- Providing seed grants for research faculty

- Mentoring faculty seeking extramural research grants.

- Assisting formation of startups and/or technology transfer through Technology Business Incubation

- Advocating publications by Post Graduate students

- Providing collaborative opportunities to engage with national and international research groups.

- Scholarships to PhD and Masters students

Schools under Amrita Vishwa Vidyapeetham have facilitated researchers with laboratories and libraries with its rich e-resources. Dedicated weekly research day, periodically held ideation workshops, seminars on emerging topics, monthly review meetings to observe the research scholars' progress are some of the initiatives to foster the research culture.All labs at Amrita are open to students conducting research so as to provide maximum exposure to laboratory testing and characterization methodologies.

File Description	Documents
Upload relevant supporting document	**View File**

3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

500

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

15

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

261

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.1.5 - Institution has the following facilities to support research Central Instrumentation Centre Animal House/Green House Museum Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery	A. Any 4 or more of the above

File Description	Documents
Upload relevant supporting document	**View File**

3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

30

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.2 - Resource Mobilization for Research

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

3131

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

3117.04

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

3

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.3 - Innovation Ecosystem

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

Amrita has cultivated a culture of innovation in research, academia and entrepreneurship. The University has pioneered incubation of innovative ideas through its Technology Business Incubator (Amrita TBI) and has been steadfast in building a prolific and international ecosystem. Amrita TBI is conducting workshops on entrepreneurship development, new technology trends and approach to research, communication skill training, technical workshops on cutting edge research areas, provide opportunities to various boot camps and pitch fests and TIDE innovation contests. Through all of these students, research scholars and faculty have widely participated and immensely benefited.

Amrita TBI consist an ecosystem with :

- 300+ Industry partners including CISCO, PwC etc for market access and scale up

- Govt. i.e. NITI Aayog, TDB, MeitY, DST, who support and scale our innovations.

- Academic, and National Laboratories - IITs, NITs, NPL, etc. fostering joint collaboration

- International NGOs & Academia - UN, UNESCO, UNDP, 200+ Universities from from the US, Europe, Asia and Australia

- Global Mentor and Investor Network and formal engagements with Serial entrepreneurs, VC firms such as Indian Angel Network, Norwest Ventures etc.

To drive innovation as well as employability at AMRITA, CIR has entered into a number of Memoranda of Understanding (MoU) with various companies and organizations. Setting up of Cisco ThingQbator IoT makerspace, Innovation Laboratory by Cognizant, Embedded Systems Laboratory by Microsoft etc are some examples.

File Description	Documents
Upload relevant supporting document	**View File**

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

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

317

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

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

240

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.4 - Research Publications and Awards

3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following • Inclusion of research ethics in the research methodology course work • Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc) • Plagiarism check • Research Advisory Committee	A. All of the above

File Description	Documents
Upload relevant supporting document	**View File**

3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University	A. All of the above

function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website	

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.4.3 - Number of Patents published/awarded during the year

3.4.3.1 - Total number of Patents published/awarded year wise during the year

23	

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.4.4 - Number of Ph.D's awarded per teacher during the year

3.4.4.1 - How many Ph.D's are awarded during the year

237	

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

3	

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

1885

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS	**A. Any 5 or all of the above**

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.5 - Consultancy

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

At Amrita Vishwa Vidyapeetham, Consultancy is seen as a service to the community and to the industry as well as an outreach activity of the institution. Faculty, research scientists and postdoctoral scholars at the University are constantly encouraged to expand and fortify the research profile of the University and to widen and expand current knowledge and experience. The goal is to imbibe best practices and engage with external organizations for exchange of knowledge.

Amrita Centre for Research and Development has been conceived as a Special Purpose Vehicle dedicated to industrial consultancy and sponsored research.The Centre provides a platform for faculty to devise innovative solutions to industry problems. It promotes the translation of research outcomes into adaptable technologies, as well as last mile delivery of state of art technology developed by the faculty through technology transfer and intellectual property support.

Amrita promotes consultancy in the area of expert advice, testing services, help with product/process development for a company, policy and planning, support for collaborations and conferences, project planning, marketing, business analysis and support, modelling and predictive analysis and training.

File Description	Documents
Upload relevant supporting document	**View File**

3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

263.99578

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

Amrita has an exclusive commitment to nurture and develop socially conscious individuals through participation in nation building activities that are executed at the local, regional and national level driven by a deep sense of social responsibility

Amrita has introduced mandatory extension activities such as Serve an-Hour programme (SAH) and Students Social Responsibility (SSR) programme. As part of the Serve an Hour(SAH) programme students go to neighborhood communities and do service; they go to nearby schools and conduct campaigning on various themes such as alcoholism awareness, cleanliness, organic gardening recycling etc. As part of SSR, students form into groups and take up service tasks such as conducting Cyber Gokulum for school students, providing awareness to tribal communities, drinking water distribution mechanism in drought-stricken remote villages etc.

As part of extension activities Amrita participated in social service and upliftment campaigns like The Amala Bharatam mission cleaning of public places in and around Kochi, Sabarimala pilgrim

site, Pampa River, Sasthamcotta Lake. We have helped several villages in planting over 1 million trees.Our students and staff have played an active role in the Swachh Bharat Mission.

File Description	Documents
Upload relevant supporting document	**View File**

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

3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year

9

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

653

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year

7222

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

3.7 - Collaboration

3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

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

376

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

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

81

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

At Amrita, the delivery of teaching-learning is a multi-modal process involving the interaction and engagement between the student and the teacher in classrooms, laboratories and information centers. All schools under Amrita are equipped with state-of-the-art infrastructure including modern facilities and learning resources to achieve academic excellence according to its vision and strategic objectives. It has been continuously developing them to meet the growing demands of the teaching learning process in the campus. The University is fully equipped with ICT & Wi-Fi enabled classrooms, laboratories, computer labs, central library and reading halls.

The university is very well equipped with laboratory facilities for hands-on training of undergraduates and PG students as well as more advanced labs that have interdisciplinary facilities suitable for students conducting research towards their degree programs, such as PG students doing their thesis and PhD students.

Amrita provides ubiquitous access to information and network services. All the academic blocks, laboratories and hostels are all connected over high speed fibre connectivity. A robust tiered network enables the connectivity without compromising on security and confidentiality for all user data. All computers are connected to the internet over high speed CAT6 cables facilitating a 1:1 availability of computers to students.

File Description	Documents
Upload relevant supporting document	**View File**

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

One of Amrita's core goals is to provide an environment that allows integrated development of body and mind through provision of facilities that enhance, develop and nurture skills in sports, cultural and performing arts that showcase inherent talent and artistic expression.

The University provides comprehensive facilities for all aspects of student life and personality development. Good facilities are provided for both indoor and outdoor games like Football, Basketball, Volleyball, Cricket etc. Indoor facilities include a gymnasium with state-of-the-art equipment and also trainers.This has enabled the students to win at the national and international level competitions. Special emphasis is given to nurture right composure, attitude and equanimity of faculty and students through yoga and meditation offered regularly at the campus. Both yoga and meditation have been incorporated into the core curriculum for all students and are taught in both indoor and outdoor settings of matching ambience.

The auditoriums at Amrita have capacities ranging from 100 to 3700 students and are used to host university-wide cultural festivals like Amritotsavam, AmritaKalotsavam, Kalamritam, national-level multifests such as Anokha and Vidyut, and music & dance programs by legendary & professional artists. Festivals, National holidays and large cultural events such as Diwali, Republic Day, International Yoga Day are organized in the large outdoor grounds and can hold upto 6000 people.

File Description	Documents

| Upload relevant supporting document | **View File** |

4.1.3 - Availability of general campus facilities and overall ambience

The overall ambience of the campuses reflect the spiritual underpinnings of the institution – calmness, proximity to nature, smoke free, lush green, open spaces, unique symbolic architectural designs, yet have areas of congregation that underscore the youthful vibrancy of a campus. And the day in Amrita starts with the prayers Aum Sahana Vavatu, Lokha Samastha Sukhino Bhavantu - let there be peace and harmony.

Amrita campuses provide comprehensive facilities for all aspects of student life and personality development.

- The students are provided with individual rooms with a shared balcony for accommodation at PG Hostels maintained by the university.

- Hostel floors are provided with TV hall, e-library, water purifiers in individual floor, newspaper reading space, shuttle coat, and solar empowered hot water taps for bathing

- Medical clinics are available on all campuses. Medical facilities like ambulance, doctors are also available inside the campuses around the clock.

- The school and Accommodation are well supported by centralised kitchen and dining facilities / Canteens.

- Specialized sports facilities such as gymnasium with its fitness equipment, swimming pool, tennis courts, football grounds etc.

- Students are provided amenities like laundry facilities, convenience shops, saloon, cloth shop, tailoring shop, reprography, travel desk, beauty parlor, saloon, copier, and ATMs.

- Well-furnished auditoriums and conference rooms.

File Description	Documents
Upload relevant supporting document	**View File**

4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

98.09

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

4.2 - Library as a Learning Resource

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

Amrita's philosophy is that knowledge should be shared to all without any boundaries. In that spirit, the Online Library systems at Amrita provides all its faculty and students maximum access to a large printed and digital knowledge base

The library is automated using KOHA, an Integrated Library Management software which provides an efficient, comfortable interface and prompt service to all its users including students, faculty and guest users. It has book titles and volumes, references, national and international journals, CD-ROMs and DVDs. It has access to reputed e-journals and e-books through the membership with DELNET, E-Shodshindu and Shodganga. It offers full text access by subscribing to IEEE, ACM database, ASME Database, Access Engineering, ASTM database, Science Direct, Springer Link, and Scopus. INFLIBNET provides current as well as archival access to more than 5,000+ core and peer-reviewed journals. It has a collection of special and rare books, audio-visual resources, a collection of dissertations and thesis, and a collection of bound journals. The campus has a web based software for effective Learning and Management Services known as Amrita University Management System (AUMS) which includes an e-learning platform. A campus-wide administrative and learning management system, it supports and includes modules for effective management of students admission, administration, academics, accounts, examination, library and other modules. Off Campus Access to Library also provided with the help of digital platform KNIMBUS in the campus.

File Description	Documents
Upload relevant supporting document	**View File**

4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases	A. Any 4 or all of the above

File Description	Documents

Upload relevant supporting document	**View File**

4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)

1155.55

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)

13014

File Description	Documents
Upload relevant supporting document	**View File**

4.3 - IT Infrastructure

4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year

495

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

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

For this purpose, Amrita has established an Office of Information and Communication Technology Services (ICTS), which has designed a comprehensive IT Policy. The IT Policy helps to maintain, secure and ensure appropriate use of Information Technology infrastructure. Policy governs hardware commission, Software installation and licensing, Network usage and bandwidth allocation,

Email Account usage and using Computing centers or BYOD. During the pandemic lock down Amrita ICTS played a major role in stepping up facilities for online classes.

Amrita IT policy focuses on the principles like Build and utilize an agile, resilient IT and telecommunication network to concurrently provide. infrastructural and operational efficiency playing a pivotal role in teaching, learning and research activities. installation , expansion and maintenance of state-of-the-art critical computing infrastructure including the latest IT and Networking resources. policies for provisioning and maintaining IT resources protecting data integrity and security for the university and its legitimate users. Ensure legality of all software and compliance to government regulations.

IT infrastructure consisting of :

- Institution consists of around 3000 Desktops, 400 LaserJet Printers and 30 MFP devices, TIER 2+ Data Centre infrastructure with more than 90 physical servers and around 300TB of data storage.

- Virtual laboratories with online experiments in the Sciences and Engineering

- 3 Gbps internet bandwidth over multiple links

- 1200 WiFi access points deployed in both academic blocks and hostels blocks for 24X7 internet service

- 9000 computing terminals

File Description	Documents
Upload relevant supporting document	**View File**

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
21365	5989

4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)	- ≥1 GBPS

File Description	Documents
Upload relevant supporting document	**View File**

4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing	**A. All of the above**

File Description	Documents
Upload relevant supporting document	**View File**
Upload the data template	**View File**

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

34.31 cr

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

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

Amrita has established a dedicated General Administration Department (GAD) which has architected systems and processes for regular and timely maintenance as well as optimal utilization of buildings, classrooms, laboratories, sports facilities, hostels, canteens, gardens and lawns. Amrita's policy mandates that all equipment including laboratory and computer systems either have up-to-date annual maintenance contracts or be supported by well-trained in-house technical staff. Most of the important equipment have annual maintenance contracts. Staff members are adequately trained to maintain the equipment and services under their control. The maintenance budget is adequate to take care of all common needs.Policies such as zero litter policy, no spitting policy,

no smoking policy, which relate to public cleanliness and hygiene are strictly enforced throughout the whole University.

During the pandemic students were called to run classes in blended mode(offline-online) with 50% capacity by observing all Covid protocols. Labs are regularly cleaned and sanitized using UV equipment after every usage of the lab. As per COVID 19 SOP, the entire campus is sanitized at regular intervals using sodium hypochlorite solution as per specification by the Government of India. Hand sanitizers with sensors are provided at all entry and strategic points of all departments and laboratories of the school. Similar care is taken even at the hostel where a limited number of students were permitted to stay during the pandemic.

File Description	Documents
Upload relevant supporting document	**View File**

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)

10653

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year

6042

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology	A. All of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	• All of the above

File Description	Documents
Upload relevant supporting document	View File

5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)

5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

313

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.2.2 - Total number of placement of outgoing students during the year

2437

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year

504

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

5.3 - Student Participation and Activities

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

37

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

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

Each class has a Class Committee (CC) with elected student representatives (2 boys and 2 girls). The Student Council for Academics (SCA) includes these student representatives. Periodic CC meetings are held with CC representatives and all faculty teaching that semester. The collective feedback of students on pedagogical and academic aspects are discussed and followed up during these meetings. SCA plays an integral role in contributing to several academic clubs. These empower students to achieve significant feats. Academic clubs are active in all campuses, with

students assuming major responsibilities in creating roadmaps, planning, organizing and executing both internal and external events. Academic and Technology driven Multi-tech fests, national and international conferences and workshops are jointly organized by SCAs.

Student Nurses' Association of India (SNAI) is very active at Amrita in promoting professional, social and cultural personality development of nurses. Hostel and mess committees include students who deliberate on any hostel and mess issues. Sports council organises football leagues, basketball leagues, cricket matches , chess matches, both intra-amrita and inter-collegiate matches. Exclusive Women's grievances and redressal committee includes girl students in them. Student Social Responsible Activities and Clubs. Dedicated clubs for Music (Ragasudha), Dance (Natyasudha), Painting, and other forms of arts and crafts facilitate showcasing of talent and participation in national competitions. Festivals like Ugadi, Pongal, Sri Krishna Jayanthi are conducted and executed by students locally at the respective campuses.

File Description	Documents
Upload relevant supporting document	**View File**

5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year

80

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

5.4 - Alumni Engagement

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

Amrita Global Alumni Network, is a well-established, close-knit community that strives towards the social and economic growth of the institution and its network. As ambassadors of the institution, the members play a key role in Industrial collaboration, Research collaboration, Academic collaboration,. Training and development Scholarships Societal contribution. The senior members of the association help in securing placements, internships, and final year projects by conducting bootcamps and workshops every year for current students to prepare them for interviews. Alumni have contributed financially through scholarships for students, and additionally as general

donations towards the university of about 1 crore over the last five years. The alumni also conduct pre-recruitment talks to offer the current students an idea of what to expect in the recruitment process. We publish regular alumni newsletters and our Amrita Center of International Programs(ACIP) maintains an active interaction with alumni throughout the world. The Alumni web portal, AlmaConnect, is a virtual chapter in which the Alumni updates the institution of their current job profile, location, and field of expertise.We have more than 11,000 registered users including our current students, faculty and alumni. Alumni are also engaged as Amrita Ambassadors and speak at various forums across the world about the university's programs and are, in many cases, the main points of contacts in different countries and also help in hiring new faculty at career fairs.

File Description	Documents
Upload relevant supporting document	**View File**

5.4.2 - Alumni contribution during the year (INR in Lakhs)	E. <1Lakhs

File Description	Documents
Upload relevant supporting document	**View File**

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

Our vision is to be an exemplary institution that thrives on its commitment to the transformative power of value-based education, providing the impetus to develop the expansiveness to harmonize both scientific knowledge and spiritual understanding, so as to utilize knowledge for societal benefit and contribute to a prosperous and sustainable future for all.

This vision translates into three major missions:

- Education for Life

- Compassion Driven Research

- Global Impact.

Education for life the University programme prepares Students with a positive attitude who can face the challenges of life in personal and professional life.

Compassion-driven research is one of the important mission statements of AMRITA. Towards this, various policies and strategies in academic and administrative governance are devised. This has resulted in various projects with societal impact like Bullet-proof vests for armed forces, Lantana Camara furniture development by tribals, women & tribal empowerment schemes in ethnic and local food recipes, cyber security etc

Global Impact: University has a dedicated international admissions cell under Amrita Center for International Programs (ACIP). Opportunities provided by ACIP includes full-time studies, student exchanges, integrated programs, dual-degree programs, internships, and the immersive Live-in-Labs® experiential learning program focused on India's villages. ACIP is participating in the Study in India program of the Government of India in Nepal, Bhutan and other countries. ACIP has 100+ MoUs with global universities

File Description	Documents
Upload relevant supporting document	**View File**

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

Dean/Principal, the head of the individual school and has full responsibility and authority to run the school. They are fully empowered to take day to day operational decisions with respect to their school subject to broad compliance with University's policy and regulations. For Faculty Recruitment, each Head of School is empowered to carry out interviews, and appointments of faculty members. For Budgeting, Principals and campus Directors discuss with every department at the campus level. The overall budget is then reviewed and submitted by the Academic Council to the Board of Management. The process involves participation of every stakeholder and the consultation process ensures that priorities are clear at all levels. Participation of stakeholders is very key in Amrita's Participative Management as it ensures the inputs, ideas of the stakeholder taken into account and policies formulated accordingly. Faculty members are represented in various committees like Board of Management, Academic Council, Board of Studies, Class Committees and Faculty Committees. Given the unique geographical diversity of Amrita campuses spread among 4 different states of India, the university has been very successful in implementing a federated model of governance. This model still ensures participative management yet allows for a fair degree of

freedom to its constituent units when it comes to financial autonomy, academic flexibility and research agenda

File Description	Documents
Upload relevant supporting document	**View File**

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

Amrita's strategic plan for academic and research excellence is driven by the following five priorities, namely: Inter-discipline, Innovation, Industry, India, and International. Towards academic excellence the university implements project-based learning and problem solving, experiential learning (program like Live-in-Labs), critical thinking and collaborative learning

For Research Excellence, universities encourage interdisciplinary research, Centers of Excellence for Sustainable deployable solutions for societal benefit. Strong International Collaborations, Corporate and Industrial Relations and Technology Business Incubation provide prolific opportunities and fulfillment, at both International and National level, to Students and Faculty alike. All faculty members and students successfully adapted to the online mode of teaching and learning. Officially, Teaching-Learning process adopted MS-Teams, but faculty members are free to use tools like AMPLE, AUMS, etc. as per their requirements. Faculty and Staff are well supported with seed funding for research, startup infrastructure, facilities and comfortable work environment. Diversity in faculty expertise is maintained with inclusiveness from international and national teachers and high retentivity. Amrita has developed an innovative Faculty Performance Evaluation system "FRAP". Parameters for evaluating various faculty activities are built into this system. Faculty members are supported with financial assistance to attend conferences and workshops, and participation in Faculty Development Programmes (FDP) are strongly encouraged. The Online Public Access Catalogue Web-based systems in the ILMS provides easy access to the database of books, journals and e-resources such as e-journals and e-books to Faculty and students by Internet.

File Description	Documents
Upload relevant supporting document	**View File**

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

Amrita's administrative structure is tailored to achieve operational effectiveness and efficiency in a large geographically distributed multi-campus, multi-disciplinary setup.

Each campus has two types of functional units: academic and administrative.

Academic Functioning:

- Faculty is headed by a Dean. The Dean of the Faculty has overall leadership responsibility for all academic programs belonging to that Faculty. The Dean of Faculty is responsible for policy level involvement and decisions pertaining to Programs of that Faculty.

- Dean Research has overall responsibility for quality of research and funded research projects conducted at the University

- Dean PG (Post Graduate Programs) oversees at University level, policies and all aspects of the PG Programmes.

- Heads of Schools, namely, Principals and Associate Deans, have operational leadership responsibility for day to day administration and functioning of classes and courses in departments.

- Dean ACIP (Amrita Center for International Programs) oversees, approves, and monitors all collaborations.

Administrative Functioning:

- Infrastructure, facilities, development and maintenance of their respective campuses

- Recruitment and managing of the non-teaching staff

- Fiscal planning and budget setting

- Student and faculty welfare activities - inclusive of food, sports, entertainment, extracurricular clubs, placements, convocation etc.

File Description	Documents
Upload relevant supporting document	**View File**

6.2.3 - Institution Implements e-governance in its areas of operations

6.2.3.1 - e-governance is implemented covering following areas of operation 1. Administration 2. Finance and Accounts 3. Student Admission and Support 4. Examination	A. All of the above

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

6.3 - Faculty Empowerment Strategies

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

Amrita has a comprehensive and multi-faceted performance appraisal system which considers all aspects and dimensions of performance in academics, research, administration and extension. Essentially this performance appraisal captures the performance for the Academic Year (AY). The steps are as follows:

- Self-appraisal by the faculty or non-teaching staff

- Review and comments by the immediate superior (HoD)

- Policy formulation for rewarding performance by Head of the School

- Performance-linked outcomes and rewards by HR department

The Student feedback is also taken into consideration during the review process. The institute lends financial support to the faculty to present/publish research work in reputed conferences and journals. Institute also recognizes the research initiatives of the faculty by giving additional bonuses and appreciation letters. The appraisal system is transparent and accessible to the employees to help them improve their targets for the next academic year.

The Welfare measures for teaching and non-teaching staff include:

- **Holistic Wellbeing**

- **Health : Medical Insurance, Maternity Leave, Super Specialty Medical Care at our health sciences campus etc..**

- **Education Welfare : Priority given to staff in terms of admission to pursue higher education, Leave for pursuing higher studies etc..**

- **Financial : Support for professional development, Seed grant awards, etc..**

- **Transport : Free transportation to women off hours**

- **Food : canteens facilities**

- **Housing : On-campus residential quarters available for staff and Amenities**

File Description	Documents
Upload relevant supporting document	**View File**

6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

550

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

89

File Description	Documents

| Upload the data template | **View File** |
| Upload relevant supporting document | **View File** |

6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

1156

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

6.4 - Financial Management and Resource Mobilization

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

Faculty and Staff are well supported with seed funding for research, startup infrastructure, facilities and comfortable work environment. Diversity in faculty expertise is maintained with inclusiveness from international and national teachers and high retentivity. Amrita has developed an innovative Faculty Performance Evaluation system "FRAP". Parameters for evaluating various faculty activities are built into this system. Faculty members are supported with financial assistance to attend conferences and workshops, and participation in Faculty Development Programmes (FDP) are strongly encouraged.

Mobilization of Funds: Amrita had a Established Amrita Centre for Research and Development, dedicated to raising funds for sponsored research and consultancy. There are Voluntary contributions from philanthropists, to partially fund the augmentation of infrastructure as well as Voluntary contributions from alumni. Active project funding from various Government departments, such as MeitY, DST, DRDO, CSIR, DBT, ICMR, etc. Student fee serves as a partial source of funds. Amrita follows a differential fee structure that rewards merit and performance through scholarship. An enhanced fee structure for international students is in place. Innovative programs are offered, which bring greater enrollment and augments fee income.

Optimal utilization of Resources : Amrita has pioneered the development of in-house technology solutions to reduce costs and increase operational efficiency.During the pandemic period Amrita has developed in-house technology solutions like Prabha"- Ultraviolet Room Disinfection Tele-

Operated Robot, Amrita Nanomask, Low-Cost Ventilator developed by Department of Electrical and Electronics Engineering, Remote Patient Monitoring system etc..

File Description	Documents
Upload relevant supporting document	**View File**

6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

596.65

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

6.4.3 - Funds / Grants received from non-government bodies, individuals,philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

1.19

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting document	**View File**

6.4.4 - Institution conducts internal and external financial audits regularly

External Audit

Amrita Vishwa Vidyapeetham has been instituted to provide tertiary education, pursuant to the educational objectives of a public charitable trust. The trust is registered U/s 12AA of the Income Tax Act, 1961. The books of account are audited by independent external auditors and reports filed U/s 12A(b) of the Act. The audit takes into cognizance the various verticals of operation and the legislative framework the institution operates in.

Internal Audit

The Internal Audit Function works under the aegis of the Audit Committee (AC). The Audit Committee acts as the apex body for the design & performance of audit, as well as resolution of audit objections. Multiple independent audit teams formed under the oversight of the AC, execute the audit of the various locations / verticals. The Faculty of Audit comprises a selection from management representatives, CAs, CSs, accountants / audit clerks and personnel from the banking industry.

Observations made by the audit team, along with the queries are shared with the respective departments / faculties / verticals / centres, and responses to the same are sought. Where the justifications and explanations are resolved to the satisfaction of the audit team, the thread automatically attains closure.

File Description	Documents
Upload relevant supporting document	**View File**

6.5 - Internal Quality Assurance System

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

IQAC at Amrita recommended a goal-centric institutional structure for the end-to-end educational delivery in all programs, and to implement outcomes-based education in its true spirit, in conformance with and in adherence to the global best practices. In alignment with the institution's development plan aimed at achieving world class educational experience for all stakeholders, resulting in being bracketed in the highest tiers of global ranking, national ranking, and the highest standards of curriculum design & delivery, the adoption of Outcome-Based Education (OBE) assumes great importance.

The Practice

Teams comprising IQAC coordinators and other senior faculty members formed to design and develop the plan for OBE implementation. For all programs, the program objectives and outcomes were developed in alignment with the department and institution vision and mission, and subsequently the course outcomes were developed in alignment with the programme outcomes. Several Orientation and training sessions were conducted for teaching & non-teaching staff, as well as students, to ensure detailed understanding of the plan and process.

Outcome:

Continuous quality improvement, mobility of students through alignment with international standards, feedback & closing the loop & program accreditation by NBA for all eligible B.Tech programs.

IQAC at Amrita meets at least twice in a year to evaluate and ensure that the desired standards are maintained for different criteria like teaching, learning, evaluation, research, infrastructure, governance etc.

File Description	Documents
Upload relevant supporting document	**View File**

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

File Description	Documents
Upload the data template	**View File**
Upload relevant supporting documment	**View File**

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

NBA Accreditation: University adopted outcome based education (OBE) in 2014 in the engineering programs. This resulted in all eligible B.Tech programs of Amrita School of Engineering, Coimbatore securing NBA accreditation. During the period, January to June 2021, 3 UG programs went through the process of National Board of Accreditation (NBA). NBA Self-Assessment Report (SAR) was submitted in January 2021 and the NBA peer team visit happened in April 2021. The 3 programs that secured NBA accreditation are B.Tech Computer Science & Engineering (CSE), B.Tech Electronics & Communication Engineering (ECE) and B.Tech Mechanical Engineering (ME).

2. Green & Sustainability Initiative: Amrita Vishwa Vidyapeetham, Coimbatore campus, was ranked in the top 10 in the universities category of the All India Council for Technical Education (AICTE) Clean and Smart Campus 2020 rankings. 2000+ higher educational institutions in India participated in the award and rankings, which promotes the development of technological solutions for cleanliness, sustainability, environment, etc. to remodel a campus into a 'Smart Campus' A presentation on the smart and green practices of Amrita was given on May 26, 2021.

File Description	Documents
Upload relevant supporting document	**View File**

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Equal opportunities for learning and education are provided to all irrespective of gender to encourage healthy participation and competition among students. We hold India's First-ever UNESCO Chair on Gender Equality & Women's Empowerment. Staff and students are actively involved in coordinating Amritasree Annual Conclave programs- A project that takes our culture beyond the campus to impact the community is the 250,000 women strong social movement.

Amrita has taken various safety and security measures for students and staff which include camera surveillance on College Premises, Hostels and pathways, Security staff for 24 hours in college and hostels etc. The campus has appointed a lady professional counsellor to counsel girl students in dealing with personal issues, mental stress, depression, general disinterestedness in studies, ward-parent and student-faculty relationships, failing in examinations, losses etc.

The gender equity initiatives are reflected in all curricular, co-curricular and extra-curricular activities of the school. Female students are equally encouraged to participate in technical/ non-technical events at inter-collegiate/university levels. The school provides specialized facilities like a separate gymnasium, basketball court, etc. for girls. Various committees like Women's grievance cell, anti-ragging committee, students' counselling committee and internal complaints committee are there for the safety and security of the students

File Description	Documents
Upload relevant supporting document	**View File**

Annual gender sensitization action plan(s)	**https://www.amrita.edu/care/aqar2020-21/find.php?path=cr7/7.1.1**
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	**https://www.amrita.edu/care/aqar2020-21/find.php?path=cr7/7.1.1**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**A. Any 4 or All of the above**

File Description	Documents
Upload relevant supporting document	**View File**

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

All our campuses have systematic waste management systems, ensuring the primary sorting of solid waste. Sorting stations for itemized segregation of recyclable waste and proper handling of non-recyclable waste guarantees zero liability and protection to the environment. The Amrita Viswa Vidyapeetham has its own ARC – Amrita Recycling Centre. Five different colour designated bins have been provided at various locations for collection of bio waste, paper, plastic/napkin waste inside campus. The accumulated waste is collected twice a day, conveyed and segregated at Amrita Recycling Centre. After segregation the majority of the waste is reused or re-cycled, Non-recyclable waste is properly handled and guarantees zero liability and protection to the environment. The biodegradable waste is converted to organic compost using various techniques like windrow composting, vermicomposting, and in-vessel composting. For Liquid Waste Management, the institution has installed 03 STPs inside campus with a total capacity of 10 Lac litres per day. Sewage generated is treated in these STPs and is used for flushing and green belt development. The process of sewage treatment is free from use of chemicals and not a drop of water is left un-utilised. Biomedical waste management is handled through our custodial department at Kochi campus and transported in covered containers, following all regulations for handling biomedical wastes, to our waste receiving area. E-Waste Management An E-Waste Management Committee has been set up at the campus since 02 Jun 2021 to deal with segregation & disposal of E-Waste. The E-Waste is

disposed off every year by 30 November as per SOP framed by the Campus Administration through authorized E-Waste Agency.

File Description	Documents
Upload relevant supporting document	**View File**

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	**A. Any 4 or all of the above**

File Description	Documents
Upload relevant supporting document	**View File**

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. **Restricted entry of automobiles** 2. **Use of bicycles/ Battery-powered vehicles** 3. **Pedestrian-friendly pathways** 4. **Ban on use of plastic** 5. **Landscaping**	**A. Any 4 or All of the above**

File Description	Documents
Upload relevant supporting document	**View File**

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:	**A. Any 4 or all of the above**

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

File Description	Documents
Upload relevant supporting document	**View File**

7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software,mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	**View File**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)

Students at Amrita actively participate in various societal and humanitarian activities of Chancellor AMMA's ashram like the Amala Bharatham – Clean India awareness drive, Amrita Self Reliant Village etc. Community focused clubs like Amrita Prakriti Samrakshna Samithy (APSS), ALIVE, AYUDH, AMRITA Quench organize events throughout the year.

Gender Equality is a priority led by our UNESCO Chair in Gender Equality and Women's Empowerment. Our transgender clinic at the School of Medicine allows assessing psychological, social and medical issues of individuals with gender identity.

Some of the activities that take place in Amrita University during the academic period are –

- **Guru Purnima Celebrations, Ganesh Charthurthi Celebrations, Navarathri Celebrations during july, August and october of 2020**

- **Samskriti club at Amrita and Pidilite Industries organized a One-day online workshop on " Scandinavian Doodley " on 12th September, 2020. The session aimed at understanding the concept of Doodling as an art form and developing the essential skills needed**

- **Spicmacay North Kerala chapter and Amrita school of Arts and Sciences jointly organized a workshop on Kathak from 28 December 2020 to 1 January 2021. The training was given by the famous Kathak performer Smt. Debjaya Sarkar. Thirty five students from UG first semester participated**

- **Observation visit to Old age home Snehatheeram old age home,Elamkunnapuzha, Ernakulam on 15 th april 2021.**

- **Bahula Panchami organised by Nadam Club at Amrita university on january 2021**

- **Prashna 2021 organised by Srishti Club at Amrita University on february 2021**

File Description	Documents
Upload relevant supporting document	**View File**

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Amrita places a great emphasis on the inculcation of values that makes all students and staff responsible citizens of the country and the world.

Programs and activities that students and staff engage related to inculcating values and being responsible citizens include:

- **Yoga Day was celebrated on June 21,2021 where yoga sessions were conducted for faculty and students in online mode. Dr Vighneshwar Bhat , Assistant Professor , Department of Languages , Amrita School Of Arts and Sciences, spoke about the importance of Yoga Day. He also stressed on Dyana , Aasanas and Breathing exercises.**

- **World Earth Day was an online event organized in a very unique manner at the Mysuru campus on April 22nd 2021.**

- **A webinar on 'Intellectual Property Rights and Patent Process' was conducted on 10 November 2020. The webinar session topics related to IPR, the process of patents, and various other legal factors.**

- **Environment Awareness Programs named as Prakriti Week and Nature Shikaar on 17th November 2020 and 1st February 2021.**

- **Webinar on Fundamentals of Indian Constitution by SH School of Communication & department of Sociology, S H College Thevara, Kochi.**

- **On the day of International Women's Day a Webinar by Adv. Parvathi Menon on topic " Women and Law: uses and misuses".**

- **Independence Day and Republic Day are celebrated every year to celebrate India's independence and date on which the Constitution of India came into effect.**

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized	**All of the above**

File Description	Documents
Upload relevant supporting document	**View File**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Unifying students, faculty, staff, at Amrita's multiple campuses celebrates National days such as Independence day, Gandhi Jayanthi, Republic Day and cultural and religious festivals such as Gokulashtami, Christmas, Diwali, Navaratri, Shivaratri.

Yoga Day celebration

Every year on June 21st, Amrita celebrates International Yoga Day throughout its campuses. Due to social distancing measures and the ongoing coronavirus pandemic, the event was carried out in online mode. In the school of Ayurveda the International Yoga Day 2021 kick-started with Sukhamastu Webinar Series organized by Dept. Of Swasthavritta on 18/6/2021.

WORLD ENVIRONMENT

Amrita School of Ayurveda, celebrated World Environment Day on 5thJune 2021. The theme for World Environment Day 2021 is Reimagine. Recreate. Restore.' Due to the covid pandemic, the day was celebrated by conducting a guest lecture on the virtual platform.

Other events such as 125th Birth Anniversary of Netaji Subash Chandrabose,Janmashtami Celebrations,World Breastfeeding Week -2020, Teacher's day and World Literacy day-2020, International day of Peace, National Women's Health and Fitness Day, Gandhi Jayanti, Global Hand washing Day, World Students' Day, World Diabetes Day -2020, Children's Day celebration, International Women's Day Celebration, World Health Day, World Liver Day and International Nurses Day was carried out in different campuses under Amrita University.

File Description	Documents
Upload relevant supporting document	**View File**

7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

Live-in-Labs®: Experiential Learning for Sustainable Development and Innovation employing collaborative problem-solving skills

"there are two types of poverty in the world—the poverty caused by lack of food, clothing and shelter, and the poverty caused by lack of love and compassion. Of these two, the second type needs to be considered first because if we have love and compassion in our hearts, then we will wholeheartedly serve those who suffer from lack of food, clothing and shelter." - Amma, Chancellor

Objectives of the Practice:

Education that Transforms Lives: Developing a comprehensive program for academic engagement in building sustainable communities by designing and integrating a curriculum based on experiential learning that enable participants in contributing to 14 sustainable development goals (SDGs).

Building Knowledge Societies: Bringing academicians and members of a community together to create inclusive knowledge societies and empower remote communities by increasing access to information and knowledge.

Science and Innovation for Sustainable Future: Faculty and students from multiple domains immerse themselves in remote communities to empower them and ensure sustainability through affordable scientific solutions and technological innovation.

The Context: Traditionally, teachers and students in academia have not been intimately involved in understanding the problems of the vast underserved rural population. At best academia has pursued a top down presumptive approach of defining problems and prescribing solutions based on limited understanding. Such unidimensional solutions were either not accepted by the members of the rural community or were discarded down the line for a variety of reasons and hence were not sustainable.

Experiential learning that is not confined to four walls of the classroom:

- Training students to think 'outside the box' and build innovative solutions that are sustainable by the community through a participatory, multi-dimensional bottom-up approach.
- Designing a flexible curriculum that provides a multi disciplinary problem based learning opportunity.
- Fostering a team based synergistic approach that enables solving bigger challenges with wider impact.

The Practice: The Live-in-Labs® program utilizes a unique comprehensive framework for academic engagement, Education for LIFE: E4LIFE, implemented at Amrita for the development of SDG champions. The four phases of engagement through the E4Life frame are experience , embrace, engage and empower.

The Live-in-Labs® is a credit-based course for both UG and PG programs. This multi-dimensional framework facilitates the development and effective implementation of customized, scalable, and sustainable technological solutions to foster rural development through the four cells:

1.Multidisciplinary Innovation Cell: Train the students to identify challenges from multiple perspectives, deconstruct these multidomain challenges into smaller units, assess and evaluate the

feasibility and skill set required for proposing holistic interventions.

2.Experiential Learning Cell: Teaches a network of methodologies that provides the capability to map attributes of technological demands of rural communities in accordance with the community's rationale for rural development.

3.Implementation and Performance Cell: Teaches methodologies used for testing, assessing, and monitoring technology interventions for rural development and the evaluation of interventions for sustainability and scalability.

4.Services Cell: Trains in a network of methodologies that creates an ecosystem for the continuous exchange of knowledge and resources among disciplines, and actors.

These multiple cells provide experience in integrating human centered design, participatory rural appraisal, sustainable social change, ethnographic action research, user need assessment, rural development policies, and sustainable business models.

Evidence of Success: Since its inception, the Live-in-Labs program has been highly successful as evidenced by 58,953 beneficiaries and the following measured outcomes:

Training: More than 1100 students have successfully completed the program

- Outreach: Implemented in 60 villages
- Sustainability: Interventions related to water (implemented in 3 villages with 2,700 beneficiaries), energy (implemented in 2 villages with 600 beneficiaries including rural electrification, and microgrids), education (implemented in 41 villages with 1,150 beneficiaries), sanitation (implemented in 30 villages with 850 beneficiaries) and income generation (390 beneficiaries : lemon grass distillation unit, tailoring unit, craft manufacturing unit, metal crafts, sanitary napkin manufacturing unit, and automated irrigation systems, health care had (2,500 beneficiaries: wearable diagnostic tools and awareness programs).
- Community: Participants of the program have clocked over 200,000 hours of direct engagement with rural communities.
- Knowledge: Many of these have created sub-interventions or spin-off interventions. For instance, the Phase 3 Research of solar electrification produced spin-off interventions such as a Real-Time Monitoring System of Energy Generation and Distribution as well as Distributed Real-Time Energy Management Algorithms for a Sustainable Micro-Grid.

- Technology: 300 problems/issues have been successfully addressed through affordable Technology interventions
- International: The program attracted over 400 students from 30 eminent International Universities

Problems Encountered:

Integrating interdisciplinarity in already existing curriculums Remodeling existing curriculums to integrate Live-in-Labs program in a phased and aligned approach in the programs offered by multiple domains Faculty development to understand, embrace, engage, and teach the interdisciplinary concepts of Live-in-Labs Constraints due to regulatory agencies Deployment challenges faced due to political influence, cultural variability etc.

Resources Required: Capacity building - Need motivated faculty & staff with the right skill sets and interests: Laboratories for prototyping Financial — CSR funding for student support

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Faculty at Amrita Vishwa Vidyapeetham are utilizing India's national lockdown to innovate new products and hacks to help in the fight against COVID-19. More than 60 faculty from various fields including medicine, nanoscience, AI, big data, sensor-manufacturing and material sciences are participated.

Pioneering research innovations during covid

- Amrita Centre for Nanosciences & Molecular Medicine Designs Nano Masks to Prevent Infection – multicomponent nano-fibre membrane-based filter device has been developed by the Amrita Centre for Nanosciences and Molecular Medicine and the Amrita Institute of Medical Sciences.

- Low-Cost Face Masks from Mechanical Engineering Students - Amrita School of Engineering, Coimbatore have developed another low cost mask to aid the fight against COVID-19.

- Amrita Intubation Box - Amrita Institute of Medical Sciences Department of Plastic Surgery has created a three-sided acrylic box to physically separate the intubation team from the patient.

- Low-Cost Ventilator Designed by Department of Electrical and Electronics Engineering

- **Amrita Fly-Med System: a Quad Plane During the Pandemic - Amrita Fly-Med System combines long-distance service range with the ability to make deliveries to a doorstep.**

- **Mobile Apps That Assist in the Fight Against COVID-19 - Department of Computer Science Engineering, along with the Department of Aerospace Engineering of Amrita School of Engineering, Coimbatore, have developed two applications: Diagnostix and Pandemix.**

7.3.2 - Plan of action for the next academic year

I Institution

- **Increase industry institution collaborative activities through IIPC cell**

- **Organize entrepreneurship awareness programmes and facilitate and support staff developments.**

- **Conduct awareness program for IPR and Patent filing**

- **Establish Education Technology centre for training faculty in pedagogy and communication skill**

II Students

- **Conduct bridge courses and orientation programmes for new batches of students**

- **Motivate the students to register for online MOOC courses and participate in Smart India Hackathon.**

- **Encourage participation in research projects and publish technical papers along with faculty in the journals**

- **Conduct Crash Course in Practical classes for the missing Lab courses in winter vacation periods**

III Faculty

- **Ensure each faculty undergoes at least two faculty development programs in a year**

- **Faculty with PhD and pursuing PhD to publish a minimum of two research papers in Scopus Indexed Journal each year.**

- **Invite Faculty members to be present in the campus from November 2021.**

IV Non-Teaching Staff

- **Conduct skill training program for non- teaching staff in respective domains to improve their skill level and of current relevance.**

V Departments

- **Propose one interdepartmental research projects for funding agency**

- **Organize a minimum of two faculty development programme per year in emerging area**