



श्रद्धावान् लभते ज्ञानम्
Amrita Vishwa Vidyapeetham

Research @ Amrita



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1.Compassion Driven Research

Vision & Mission

1.1 Introduction

Amma, The Chancellor and Guiding Light of Amrita Vishwa Vidyapeetham has set a unique and noble research vision called the '*Compassion-driven-Research*' for the faculty and student community of Amrita. We derive the scientific quest for seeking the problem, identifying and defining the problem and evolving the solution from the compassion towards fellow beings, nature and the planet. The entire research ecosystem at Amrita Vishwa Vidyapeetham is nurtured and sustained keeping this noble vision at the focal point. We are committed to facilitating our researchers with an enabling research ecosystem that is conducive to the transmission of knowledge and the conduct of scholarly inquiry that yield sustainable solutions for the multitudes of societal challenges the world is facing today and those which are imminent in the near and far future. The core of our research policy aims to ensure that our researchers are guaranteed the necessary freedom for scholarly inquiry and ease of doing the the research with due accountability and responsibility.

National Education Policy (NEP) 2020

National Education Policy (NEP) 2020 envisages the promotion of quality research within the Higher Education System. Research, innovation and development are important aspects to enhance quality education by the Higher Education Institutions (HEIs). Societal challenges of our country can only be addressed by having a strong and vibrant higher education ecosystem with an emphasis on research, innovation and technology development. The integration of Research, Innovation and Technology Development is the foundation of Atma-Nirbhar Bharat (Self-reliant India).

1.2 Vision

Inspire, encourage, and support every faculty and student at Amrita Vishwa Vidyapeetham:

- I. to get started on research
 - II. to engage in substantial creative and constructive activity in their own field/discipline.
 - III. to accomplish high-quality and high-impact innovations
 - IV. to bring rewards and recognition to both the individual and the institution.
 - V. design, develop, deploy and sustain the solutions derived from compassion-driven research.
- Facilitate continuous monitoring of the research works, and provide timely feedback.

1.3 Mission

- VI. Nurture and Sustain an enabling research environment - across the campuses, across the disciplines.
- VII. Encourage collaborations - across Government, Industries, Non-Governmental and Civil Society Organisations
- VIII. Facilitate resource Mobilisation for Research
- IX. Facilitate Effective and Viable Research Translations

1.4 The Objectives

The University-wide Research Policy aims to

- I. encourage and provide the opportunity for every faculty members to carry out creative activity in the form of research and to achieve excellence
- II. standardize and bring uniformity to the administration of research.
- III. standardize the parameters of evaluation and monitoring of research.
- IV. bring uniformity in the management of grants and scholarships.

- V. promote best practices and integrity in the research.
- VI. institute such evaluation protocols to identify the best researchers and motivate their work with the necessary support.
- VII. develop policies to monitor, identify & alienate unethical practices in the research.
- VIII. institute frameworks aimed at timely research dissemination.
- IX. establish an enabling environment for research translation and productization.

1.5 Guiding Principles

While administering the Research Policy, the respective School/Center Level Research Committee should affirm to the following guiding principles:

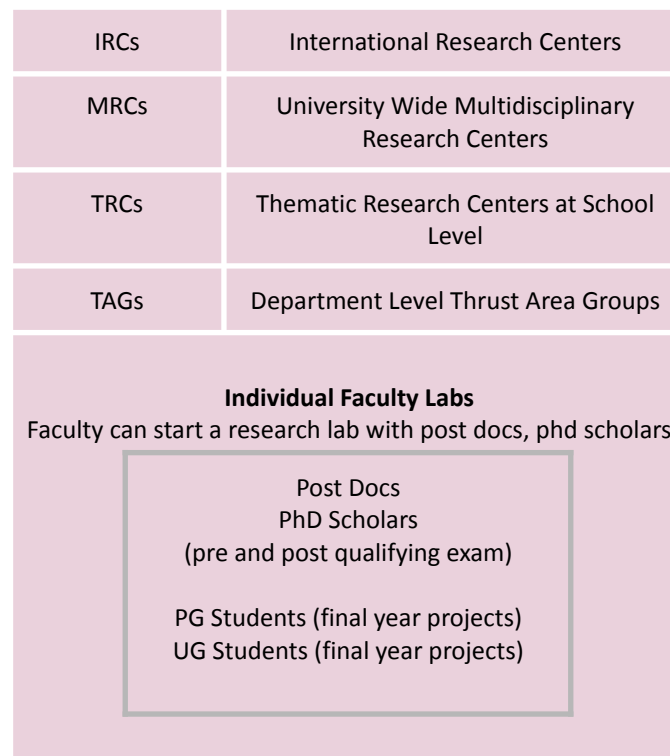
- I. Researchers shall be given the freedom to choose their subject matter of research provided that the choice shall be in alignment with the priorities of the institution, society, nation, and planet.
- II. Researchers shall be given the freedom to select support from the available funding sources for the success of their research, and formulate their own findings. However this is subjected to the policy of Openness of Research by the university [Section]
- III. No techniques of research shall violate the code of ethics pertaining to individual rights of human beings, their health, safety, and privacy
- IV. Research techniques should not violate code of ethics pertaining to the infliction of injury or pain on animals, excessive abuse on animals, humans or nature.
- V. While allocating funds and resources, merit shall be the primary consideration.

2 Wide Spectrum Research Areas

Health Sciences: Antibiotic Resistance	Biomarkers for COVID	Hospital-based Epidemiology	Organic farming for Natural Herbs	Assistive Technology for the Disabled.
Mobile & Tablet-based Technologies	Learning analytics	Pedagogy and learning technology	Regulation and business ethics	Assessment based on cards: image recognition
AI & Machine learning	EHR & Health information systems	Wearables for health monitoring	GMP manufacturing of nanomaterials and sensors.	Sanitation biotech
Mind-Brain Center	Nano biomedicine	Neuro linguistics for Dyslexia	Sustainable Rural Development	Child Rights and Child Protection
Mental Health & Well Being	Global Public Health and development	Research Ethics	Information Technology & Migration Pattern	Sustainability and resilient communities.
Landslide Early Warning Systems	Environmental Health: Integrated solar energy-generation and storage	Disaster Management	Gender-based violence	Social Innovation for sustainability.

3 The Research Ecosystem

Amrita envisions a unique research ecosystem which will ensure participatory research administration that sustains and flourishes the research motivated and driven out of compassion.



3.1 Faculty Labs

Individual Faculty may quickly establish their respective research lab as soon as they receive the adequate extramural funding. The University may provide the seed money until the extramural funding is available. Such a faculty lab can become a building block for expansion into TAGs, eventually as centers. A Faculty Lab also serves as the home to the faculty member's research group comprising of Post Docs, Ph.D. Scholars, PG Students, and UG Students. Based on the thematic area chosen and the evaluation of the proposed research work the group can associate with an already existing TAG Group or even propose to form a new TAG group. Over the course of the time, Individual Faculty is expected to collaborate

their research with other departments and schools, take up wider and deeper research challenges. As and how they progress they have the opportunity to scale up their research group as separate TAG, Thematic Research Center or Multidisciplinary Research Center.

3.2 Departmental Thrust Area Groups (TAGs):

Departments under the School/Center are the building blocks for Amrita's excellence in research. In order to escalate research in each of our departments into high gear, a focused mode initiative called Thrust Area Groups (TAGs) should be constituted. TAGs are in effect like mini-centers of research in a seed form that are just budding. thrust area group (TAG) lets grouping of the faculty members working in similar areas. Research Heads shall work in close coordination with Department Heads and Deans in identifying TAGs and nurturing the same. TAG group will provide the opportunity to focus research & innovation on specific thrust areas under a discipline and also to align university-level fund allocation for specific TAGs.

What is a Research TAG?

A TAG is an inter or intra-disciplinary team of Faculty, Students, and Research Scholars (Ph.D. & Post Docs) focusing on research and innovation

- ❖ on specific thrust areas under a particular discipline or
- ❖ on an interdisciplinary theme with the objective of solving a particular scientific problem.

TAG Coordinator

A TAG is headed by a TAG Lead/Coordinator who reports to the School/Center Research Head.

Members of a Research TAG?

Schools: Every research associate, assistant professor, associate professor and full professor must be part of at least one TAG.

Centers: Every project associate, research associate, assistant professor, associate professor and full professor must be part of at least one TAG.

Minimum Performance Standards

The Research Committee shall work in close coordination with The Provost to ensure minimum performance standard in the functioning of TAGs, which includes but are not limited to

- I. At least one paper per faculty per year with four citations to publications affiliated to Amrita Vishwa Vidyapeetham.
- II. At least one project proposal per faculty per year.
- III. Extra Mural Project Grants of at least Rs 10 lakhs per year.
- IV. Identify academic or industry partner (international/national) and establish collaborations
- V. Increase the enrolment of full-time Ph.D. Scholars

All the above contributions should be of satisfactory quality as measured by indices such as Impact Factor, Percentile Ranking etc.

TAG: Expected Scholarly/Research Outcomes

- ❖ Every TAG should have a well defined Thematic Area(s)
- ❖ TAGs should meet regularly, at least once in a week, for research discussions, project presentations, and seminars
- ❖ Identify and propose projects and bring funds.
- ❖ List out the Journals relevant to the TAG Theme.
- ❖ Identify the conferences relevant to the TAG Theme.
- ❖ Maintain a current list of Scopus-indexed conferences and journals in areas of interest to the TAG.
- ❖ Focus on proper and timely dissemination of the Research Outcomes.
- ❖ Minimum of one publication per TAG member per year
- ❖ Increase the citations
- ❖ Secure Patents

- ❖ Increase enrolment and graduation of doctoral students
- ❖ Collaborate with National/International Academic Peers who work in areas similar to TAG
- ❖ Collaborate with Industry Partners who are expected to collaborate with the TAG
- ❖ Publish a minimum of one review paper per year

Progress Monitoring for Continuation of TAG Status

Each TAG will undergo periodic evaluation and mid-course review by The Provost. In order to retain the TAG status, the TAG should have the cumulative research grade 'R-First Class'

3.3 Centers of Excellence

Interdisciplinary research and Innovations that bring out outcomes which have direct positive societal impact is the core principle of our research initiatives. High impact thematic areas have been identified which shall be closely pursued to maximise the focused research outcomes. This is further supported and promoted by establishing dedicated research centers.

Under Amrita Vishwa Vidyapeetham we have two types of Centers of Excellences namely 'Multidisciplinary Research Centers (MRC)' that are autonomous and 'Thematic Research Centers (TRC)' which are affiliated to one of the Schools under Amrita Vishwa Vidyapeetham.

The parameters based on which MRC/TRC status is granted include but are not limited to

- Novelty and Interdisciplinarity of the research carried out.
- Collaborations established, both national and international, industry and academia
- Previous Research Track record
- Outcomes achieved so far
- Potential for External Mural Fundings
- Research translation achieved

3.3.1 Thematic Research Centers (TRCs)

The TRCs are a group of researchers focusing full-time on a particular research theme area from the list of the identified high impactful thematic areas by Amrita Vishwa Vidyapeetham. TRCs are affiliated with one of the Schools under Amrita Vishwa Vidyapeetham. Every TRC is headed by a Chairperson who is a member of the School Level Research Committee. TRCs are conferred with the status of an 'individual department' under the school. They are also expected to offer a PG program which will generate a talent pool in the thematic area focussed by the respective TRC.

Who can propose a new TRC?

- ❖ A TAG group with a proven research record in one or more high-impact research thematic areas identified by Amrita Vishwa Vidyapeetham.

3.3.2 Multidisciplinary Research Centers (MRCs)

MRCs which are autonomous units functioning under Amrita Vishwa Vidyapeetham focuses on interdisciplinary research. Over the course of time, the successful TRCs are encouraged to venture into the next level by evolving themselves as MRCs. MRCs will have faculty and students from diverse disciplines with a strong focus on research. An MRC is headed by the Director who reports to the Provost. MRCs should conduct Post Graduate programs. MRCs do also have the liberty to pool in faculty by courtesy from other departments/ schools.

Who can propose a new MRC?

- ❖ A TRC with a proven research record and involving faculty/students from multiple disciplines.
- ❖ The group should have at least 2 funded projects
- ❖ The group should collaborate with at least one international partner.

3.3.3 International Research Centers (IRCs)

MRCs which are successful in establishing Joint Centers of Research with Top 500 ranked International Universities, Distinguished International Research Agencies or Blue Chip Multinational Companies will be conferred with the status of the International Research Centers.

For the Joint Center, Amrita has initiated a strategic program to invest up to a maximum of 200,000USD to start the joint center with key partners. This fund will be used as an initial investment for the joint center. This fund will be utilized for providing Full-time Ph.D. scholarship, Ph.D. student visits to partner University, conducting joint workshops and(or) conferences. Using this initial funding the group of faculty from the partner University and Amrita can further approach other agencies for the sustenance of the center by writing joint proposals, publications, etc.

3.4 Central Research Instrumentation Facility

Developers and test engineers require state-of-the-art scientific and research facilities for the testing and validation of their research output. The huge cost of investment and maintenance expenses make it nearly impossible for small and medium startups, freelancers, and smaller schools, and colleges to own and maintain such labs. Also, these labs are needed occasionally only to validate the results. Timely access to good scientific labs for testing and validation can greatly reduce the productization and marketability time.

Amrita's research centres and academic labs are equipped with advanced hardware and software infrastructure. We consider, in the larger interest of the nation and the academic and research community around us, that we have an onus to share responsibly our resources for the dissemination of knowledge. Hence a policy of public utilization of Amrita Laboratories is being implemented.

- I. Under the supervision and oversight of the trained lab in charge.
- II. Nominal fee will be charged as maintenance and user fee.
- III. MoUs with Industry partners will be encouraged for utilizing our laboratory facilities.
- IV. Online catalog of research and scientific equipment across the schools and research centers along with the details of the faculty in charge will be made available for access.
- V. Facility to book slots and procedure/protocol for that.

4 AMRIT-Hubs

Amrita Multidisciplinary Research, Innovation & Translation Hubs (AMRIT-Hubs)

Being guided by the noble vision, 'Compassion-driven-Research', over the past several years the research community at Amrita Vishwa Vidyapeetham had taken up several realistic and need-based challenges faced by the communities. Several of our research outcomes are either first of their kind in the world or in the nation and are affordable too. It is time now to take a giant stride on our research trajectory. AMMA has advised us to take up the bigger challenges that are faced by The Planet, Nature, and Our Nation in particular those challenges faced by the Marginalised sections of society; if not taken care would endanger the existence of the entire living race. Under the guidance and vision of AMMA, we are bringing up dedicated Advanced Research Parks in Amritapuri, Chicago (USA), Faridabad, and Kochi which we firmly believe would be the cradle for many innovations that could solve many of the challenges mentioned above.

Proposed AMRIT-Hubs	
Location	Dedicated Research Facility
Amritapuri	1.9 Lakh Sq. Ft
Chicago	20,000 Sq. Ft
Faridabad	3 Lakh Sq. Ft
Kochi	10 Lakh Sq. Ft

AMRIT-Hub: Vision

- ❖ Joint platform for Scientific Research in niche areas.
- ❖ Cooperative international initiatives
- ❖ Organization of training programs, symposia, conferences, short courses, and meetings on research issues of mutual interest.
- ❖ Exchange of academic staff and researchers,

- ❖ Exchange of students and doctoral candidates for academic activities to be recognized through a procedure jointly agreed by the Parties,
- ❖ Create opportunities for future joint or allied funding of activities and projects which translate science into innovative tools or solutions.
- ❖ Exchange of information, resources and expertise pertaining to developments in Water sustainability.
- ❖ Design and execute collaborative research and continuing education programs,
- ❖ Co-operation in any other areas of interest of the Parties, as agreed to by the Parties.
- ❖ Access to digital resources.
- ❖ Appointment of senior faculty from one University as adjunct faculty of the partner university.
- ❖ Writing of co-authored papers between faculty from partner universities
- ❖ Conduct annual joint meetings alternatively at each campus, to discuss the annual progress.
- ❖ Write a joint application for research funding.

Individual Faculty/MRC/TRC/TAGs with outstanding research track records and international partners are encouraged to propose advanced state-of-the-art research labs in the proposed AMRIT Hubs. AMRIT-Hubs are autonomous Research Hubs directly administered by the Provost. These Hubs are not attached to any of the Schools or Centers of Amrita Vishwa Vidyapeetham. All the AMRIT-Hubs will include business incubators, particularly leveraging the start-up which propose business models involving healthcare data

The soon-to-be-established AMRIT Hub- Chicago is being designed to be a world-class international joint research facility with top US universities such as Harvard, UD San Diego, UC Davis, and UB.

Proposed Joint International Research Centers Amrit Hub-Chicago	
Partner University	Name of The Center
Harvard University	Amrita Harvard International Institute for Health Innovation
UC San Diego	Amrita UCSD Center for Health Futures

Ph.D. Students and Post Doc Fellows aspiring to be a part of the above centers will have a separate enrolment and at the time of graduation, their degree will have a special mention about this. The candidates who get the opportunity to be part of any one of the above centers will get the opportunity to spend a few years in a reputed partner university lab also. The academic council of the programs offered in this center will include eminent faculty from the partner university also.

5 Amrita Seed Grants

Research Promotion & University Funded Research

Amrita Vishwa Vidyapeetham is committed to supporting quality research and committed researchers. In addition to the university-funded Infrastructure and facilities, dedicated research funds are earmarked for Schools/Centers and the individual Principal Investigators (PIs). The fund is allocated based on the merit evaluation of the proposals submitted by individual schools, centers, and PIs to the Office of The Provost . The Research Committee shall extend necessary support to the Provost for the evaluation of every proposal submitted and recommends to the Provost the caliber and merit of the project and the quantum of the fund that needs to be allotted. The Provost shall make the final award considering the recommendations.

University Funded Research is categorized into two heads: The Research Initiation Grants and Research Promotion Grants. In order to be eligible for applying for the Research Initiation Grants or Research Promotion Grants, the applicant shall be a member of at least one TAG. While awarding the grants to the Schools and Centers priority shall be given to those Schools or Centers following best research practices and implementing all the directions from the Office of The Provost.

5.1 Seed Grant for Research Initiation (SGRI)

Every Financial Year a fixed budget has been earmarked as the 'Research Initiation Grant' for the whole University. The objective of the scheme is to support the researchers in the budding stage of their research, especially the researchers who are entering a new area of research where they do not have sufficient or no external funding to headstart with. Under the SGRI Scheme, A Principal Investigator is required to submit an application in the standard template. The application shall be evaluated by an adhoc technical committee. As per the directions of the Chancellor a step evaluation of the seed grant proposals shall be followed. The preliminary evaluation shall be completed at the School/Center level by the School/Center Level Research Committee. The second level evaluation shall be conducted by an adhoc University Level Committee. The proposal, review comments by the School/Center Level Research Committee and a presentation by the Principal/Co-Principal Investigator will

be the basis of the second level review. The proposals shall be evaluated based on the merit of the work, potential to secure extra mural funds and research track of the PI . The recommendations from the adhoc committee shall be submitted to the Provost who shall make the final decision on the seed grant award.

The objectives of SGRI

- I. Stimulate and support research and innovation in the strategic areas of national and international importance and which benefit the upliftment of the neglected and marginalized sections of society.
- II. Encourage budding researchers to onboard the research ecosystem of Amrita Vishwa Vidyapeetham.
- III. Support the faculty to kickstart the research program that eventually has the potential to sustain itself by attracting external funding.
- IV. Support studies and tests based on a novel idea to generate preliminary data and results which will support winning external funding.
- V. To promote interdisciplinary research
- VI. Attract, retain and promote talent

SGRI Covers

- I. Setting up R&D Facilities to kickstart research in a new thrust area.
- II. Support studies to generate preliminary test data.
- III. Support staff to assist with the research and studies.
- IV. Expense at reasonable costs to faculty who have been called by the GOI for proposal presentation based on a national review.
- V. Partial or full travel support for National/International conferences where the faculty has an oral presentation will be approved on a case-by-case basis.
- VI. Publication page charges for accepted papers in approved journals
- VII. Incentives and travel expenses to the faculties who deliver keynote addresses/distinguished lectures/plenary talks at reputed forums representing Amrita Vishwa Vidyapeetham.

Who can Apply?

This program is exclusive for full-time Amrita faculty holding Ph.D. degrees.
The applicant shall be a member of at least one TAG.

When to Apply?

The call for proposals will be published in My Amrita portal along with the important dates. An Email communication announcing the call will be separately sent out to the Research Heads and Research Committee members.

How to Apply?

There shall be two parts of application.

Part.A: Eligible Applicants are required to fill out the Online Scrutiny Form.

Part.B: A detailed word document duly filled in with the approval of the head of the institution has to be submitted through email to the Office of The Provost. The standard document template shall be made available in the my.amrita.ac.in portal.

Submission of Part.A and Part.B applications are mandatory for considering the application as complete.

5.2 Research Onboarding Grant

The objective of ROG is to support a newly joined faculty to incubate his/her R&D ecosystem in Amrita.

Who can Apply?

A newly joined faculty, having doctoral degree, is eligible to apply for ROG within the first two years of his/her joining date.

When to Apply?

Within the first two years since the date of joining as a full time faculty.

How to Apply?

There shall be two parts of application.

Part.A: Eligible Applicants are required to fill out the Online Scrutiny Form.

Part.B: A detailed word document duly filled in with the approval of the head of the institution has to be submitted through email to the Office of The Provost. The standard document template shall be made available in the My Amrita portal.

Submission of Part.A and Part.B applications are mandatory for considering the application as complete.

5.3 Bridge Grant

The objective behind the 'Bridge Grant' is to support

1. an ongoing Project likely to run into a short-term or temporary funding gap.
2. a Faculty who had utilized Research Initiation Grant to commence his/her research but exhausted the funding available.

In both the above cases the PI/Faculty is bound to prove the efforts he/she had made to secure Extra Mural Funding for their Project/Research. The fund allotted under the 'Bridge Grant' Scheme has to be paid back to the University as soon as external funding is won by the PI/Faculty. An undertaking to this effort has to be submitted along with the application to the Office of The Provost.

Who can Apply?

A PI who currently has an ongoing project the funding support of which is either exhausted or shall be exhausted within next six months.

When to Apply?

The standard template for submitting application for Bridge Grant can be downloaded from My Amrita portal.

How to Apply?

The duly filled in application shall be submitted to the Office of The Provost.

5.4 Chancellor's Seed Grant for Research Infrastructure (SGRI)

State-of-the-art Scientific Equipment, Instrumentation Devices, and Work Stations are indispensable to high-end scientific research. We are committed to providing our researchers with the required research infrastructure as well as the periodic maintenance and upgrading of the existing facilities. Faculty can conduct research in critical areas and use that research output to secure extramural grant support. Faculty applying under the SGRI Scheme for the research should submit a seed grant proposal in the prescribed format to the Office of the Provost. The submissions will be scrutinized by an expert committee and the eligible applicants are interviewed and the committee's recommendations are submitted to the Provost. The final approval will be granted by the Provost.

The Grant Covers

- I. Infrastructure for innovative research plans for faculty based on merit.
- II. Laboratory equipment or consumable support for faculty conducting meritorious research.
- III. Establishing new Labs

Who can Apply?

This program is exclusive for full-time Amrita faculty holding Ph.D. degrees.

When to Apply?

The call for proposals will be published in my.amrita.ac.in/provostoffice portal along with the important dates. An Email communication announcing the call will be separately sent out to the Research Heads and Research Committee members.

How to Apply?

There shall be two parts of application.

Part.A: Eligible Applicants are required to fill out the Online Scrutiny Form.

Part.B: A detailed word document duly filled in with the approval of the head of the institution has to be submitted through email to the Office of The Provost. The standard document template shall be made available in the my.amrita.ac.in/provostoffice portal.

Submission of Part.A and Part.B applications are mandatory for considering the application as complete.

5.5 Grants for Establishing New Centers

As an initiative to promote focused research in a particular theme the TAGs, Schools and Centers (IRC/MRC/TRC) are encouraged to apply for grants under this scheme.

TAGs: The TAGs may submit a proposal to establish a dedicated **Thematic Research Center** in order to further the research in their focus area. The average R-score of the total faculty members of the TAG should be the basis of evaluation of such proposal.

Who can Apply?

- I. TAGs consistently maintaining average 'R-Distinction' for three consecutive years.
- II. At least one faculty member of the TAG should be in 'R-Track'.
- III. Extra weightage will be given to the TAGs which associate students as part of the research.
- IV. Extra weightage will be given to the TAGs which undertakes interdisciplinary and international projects.
- V. Extra weightage will be given to the TAGs which has secured extra mural grants.

When to Apply?

The call for proposals will be published in my.amrita.ac.in portal along with the important dates. An Email communication announcing the call will be separately sent out to the Research Heads and Research Committee members.

How to Apply?

There shall be two parts of application.

Part.A: Eligible Applicants are required to fill out the Online Scrutiny Form.

Part.B: A detailed word document duly filled in with the approval of the head of the institution has to be submitted through email to the Office of The Provost. The standard document template shall be made available in the My Amrita portal.

Submission of Part.A and Part.B applications are mandatory for considering the application as complete.

An existing TRC/MRC/IRC may submit a proposal to establish a new research center as and when the circumstances arise that a particular theme should be given more dedicated attention. The outcomes and strength of the TRC/MRC/IRC in the proposed area should be proven objectively by way of number of publications, patents and extra mural funded projects. The average R-score of the total faculty members of the TRC/MRC/IRC should be the basis of evaluation of such proposal. The TRC/MRC/IRC that is proposing new Center should maintain average research grade 'R-Distinction' for three consecutive years. The call for proposals will be published in my.amrita.ac.in portal along with the important dates. An Email communication announcing the call will be separately sent out to the Research Heads and Research Committee members.

5.6 Center/School Research Facility Development Grants

Periodic maintenance of the research facilities, hardware, and software upgrades are inevitable to maintain the quality of the research and to ensure the continuity of the ongoing work. Under this scheme Schools/Centers are eligible to apply for funds

- i. to cover the maintenance or repair cost of a defective research equipment,
- ii. minor maintenance work of the research facility
- iii. AMC Renewal of the existing software/hardware
- iv. Upgrading of the existing software to a higher version.
- v. To buy add-on accessories to existing hardware.

Who can Apply?

This fund is strictly a maintenance grant. Purchase of new equipment or software shall not be routed by availing Center/School Research Facility Development Grants.

When to Apply?

Eligible to apply throughout the year.

How to Apply?

The application form for availing Center/School Research Facility Development Grants will be available in My Amrita portal.

5.7 Article Processing Charges Reimbursement

As part of the University's commitment to promote quality research, the authors are provided with the financial support to cover the Article Processing Charges.

Who can Apply?

- Full time faculty or research associate (RA) who is one of the authors of the publication
- Faculty/RA who does not have any funding support.
- Faculty/RA whose funding support has exhausted.

Publication Involving Authors from Multiple Institutions

For such publications which involve authors from outside institutions the APC reimbursed shall be proportional to the number of faculty/student authors with Amrita Affiliation.

Mandatory Pre Approval

As it is difficult to draw a common line of standard across all the disciplines to ascertain the quality of the journals, a case by case approach shall be followed for the reimbursement of the Article Processing Charges. Every author who requires support for covering the Article Processing Charges shall obtain a pre approval from the Research Head. The Research Head shall, with the aid of the committee members, assess the merit and quality of the publication, quality of the journal before giving the pre approval. This pre approval shall be forwarded to the Office of The Provost. The final decision will be taken by The Provost.

How to Apply

Applicants should use the following Online Form link to submit the application for reimbursement: <https://forms.gle/TrCHzTugzE5A4y3r9>

5.7.1 Policy on Open Access Publications

Open access publication ensures barrier free access to the research articles making the outputs of scientific research process more inclusive. Amrita Vishwa Vidyapeetham covers the publication charges incurred by an author towards publishing his/her research article in a peer reviewed good impact factor journal. As it is difficult to draw a common line of standard for ensuring minimum standard of journals to be considered for open access publishing it is recommended to each Research Heads to review and evaluate the individual requests received from their School/Center for open access publishing and give recommendations to the Provost.

How to Apply:

Applicants should submit the following Online Scrutiny Form for reimbursement:

<https://forms.gle/TrCHzTugzE5A4y3r9>

5.7.2 Policy on Conference Presentations

All such conference related expenses are considered (not guaranteed) for reimbursement only if the faculty/researchers do not have any project funds that can be used for the same purpose and the faculty/researchers have shown evidence of adequate effort at getting extramural funding.

Reimbursement

University will provide Rs. 10K to students and Rs. 35K to faculty for registration and travel for presenting papers at Scopus indexed domestic conferences. International travel to very good conferences once in 3 years. University will also reimburse journal page charges.

The procedure for claiming the reimbursement Certificate of attendance is required and proof of reimbursement should be filed Amount reimbursed should be included in a separate budget line item.

5.8 Chancellor's Scholarship for International Collaborative Research (CSICR)

5.8.1 CSICR-Faculty

The objective of CSICR-Faculty scholarship is to promote International collaboration in research.

- I. Number of Awards per year: 100
- II. The maximum grant amount is 3000 USD.
- III. Any expense over and above this shall be borne by grantees.
- IV. Includes grant to travel abroad to the collaborating University for at least three months to complete the research/discussion to submit the paper for publication..
- V. 75% of the grant is disbursed at the time of approval of the fellowship and 25% is disbursed upon the publication of the paper.
- VI. 10% of the approved amount shall be utilized for meeting contingency expenses.
- VII. Duration of the Fellowship : 12 months

Who can Apply?

This program is exclusive for full-time Amrita faculty and Research Associates. Collaborative discussions and proposals must be underway at the time of applying for the scholarship. Details of the same shall be shared along with the application.

Mandatory Outcome

Internationally co-authored journal publication within six months of travel.
Proposal submission for extra mural grant

5.8.2 CSICR-Student

One time grant up to USD 1000 for publishing an international collaborative Scopus-indexed research paper.

Number of Awards Per Year :50

Who can Apply?

- I. PhD Scholars who have successfully completed their PhD Comprehensive viva.
- II. Students selected for a semester abroad program at one of our international partner universities.

5.8.3 Amrita Graduate International Scholarship

One time grant up to USD 1000 for publishing an international collaborative Scopus-indexed research paper.

Number of Awards Per Year :50

Who can Apply?

- I. Students doing Graduate Dual Degree program or Integrated Masters program at one of Amrita's Partner Universities.
- II. CGPA 8.0 or above at the time application.

5.8.4 Short Term International Scholarships

One time grant up to USD 1000 for publishing an international collaborative Scopus-indexed research paper. Award of USD 500 if you introduce 2 incoming students to Amrita from International Universities for either the Live-in-Labs/Internship/Student Exchange Programs

Number of Awards Per Year :50

Who can Apply?

- III. Students on Undergraduate student exchange program at one of Amrita's Partner Universities.
- IV. CGPA 8.0 or above at the time of application.

5.8.5 International Faculty Visit

The grant, of up to USD 2000, is open to departments inviting international faculty/experts to conduct the equivalent of 3-4 credit hours of coursework for 15 or more students at any of our campuses. Part of the teaching can be done online.

Number of Awards Per Year :10

Who can Apply?

- I. Head of the Departments/Head of the TRCs
- II. Directors of the MRCs.

Chancellor's Scholarship for International Collaborative Research (CSICR)- How to Apply?

The CSICR Scholarship scheme is administered by the Amrita Center for International Programs (ACIP). The call for applications will be announced through My Amrita porta and through email. will review applications and look into shortlisting candidates for scholarships based on the application and supporting documents provided. The decision of the Amrita International Scholarship/Fellowship Committee is final. The Committee reserves the right to reject any application without assigning any reason. Further forms will have to be filled for the initial shortlisting. Application is not a guarantee of a scholarship award. Awardees will be expected to sign an undertaking to complete the goals set by the scholarship /fellowship once awarded. Terms & Conditions apply for each category - this will be shared with FAQs upon expression of interest in the online form.

To express interest:

Submit Amrita Scholarship / Fellowship application Online.

<https://forms.gle/FpT2siFnqEe2YUYp9>

5.9 Internship Opportunity for the Students

The UG/PG students are encouraged to apply for internships. The selected interns, depending upon their academic workload, skillset and interest, will

- I. Support data collection, analysis etc in an ongoing research work under a Center/School.
- II. Support research administrative tasks such as documentation, result tabulation, paper drafting, proposal writing etc under a Center/School.
- III. Support creatively by way of developing content for web, social media etc

The primary objective behind this scheme is to provide the students with an opportunity to discover and shape their innate skills. The scheme also aims to engage student's time productively, bringing in a healthy competition, and help them onboard the world of scientific research. The Research Committee may identify the internship opportunity and intimate the Office of The Provost. Based on the prior approval from the Office of The Provost the Schools/Center may extend the internship. The intern will be eligible for a monthly stipend which will be decided based on the workload, nature of the work and time spent. The intern will also be awarded a certificate on successful completion.

5.10 Plus-1 Internship Opportunity for the Students

The time-bound curriculum framework of UG/PG courses sometimes hinders completing a particular research problem pursued by the student(s) as part of their final year thesis to its fullest level. As the new batch of students begin their final year thesis work the faculty will also find it difficult to take the previous batch's work forward. As a solution to this, students are encouraged to stay for an extended period post their graduation as a research trainee. The research committee shall encourage thesis advisors to identify such

promising projects and motivate the student or student group to extend their thesis work for six months or one year and bring out a high impact factor journal publication.

This scheme will help shape the students' research skill and they will be motivated to pursue a research oriented career or enrol for PhD/Masters. For the institution this will help in achieving meaningful conclusion of a research question pursued as part of student thesis work with a high quality publication. Based on the prior approval from the Office of The Provost the Schools/Center may offer the student or student group the internship for an extended period. The intern will be eligible for a monthly stipend which will be decided based on the workload, nature of the work. The intern will also be awarded a certificate on successful completion of the internship. During the extended period internship if the student(s) opt(s) to avail the hostel and mess facility the same will be provided to them at an affordable cost. Upon successfully publishing the research work in a high impact factor journal the student or student-group shall be considered for subsequent year's AIRA Award at par with the full time faculty.

5.11 Amrita Center for International Programs (ACIP) Scholarships for International PhD Students

Amrita International Students Sustenance Scholarship (AISSS)

- Stipend: INR 15,000 per month

Dean's International PhD Scholarship (DIPS)

- INR 25,000 per month (with Tuition fee deduction - student will receive 15k at hand)

How to Apply

A recommendation from the HOD/PhD guide needs to be sent to the Dean, International Programs recommending the international student for a scholarship.

Email: international@amrita.edu CC: amrita.scholarships@gmail.com

The scholarship team from Amrita Center for International Programs (ACIP) will contact

the international student with the relevant forms to be filled and submitted by them within 3 working days for review by the Scholarship Committee of the University. The final decision will be communicated to the international student and their HOD/Guide within 15 working days. If the decision is in favour of the international student, ACIP will send out an official email to the student, concerned department and the Scholarship committee for further processing. The HODs are required to inform their HR department regarding the same for tracking the student attendance and progress.

Every scholarship recipient is supposed to undertake 10 hours/week work load - either teaching or administrative work as allocated in the department.

6. Amrita Innovation & Research Awards (AIRA)

Continuous efforts are needed to sustain our leading role in educational institutions in India on research. One of the various steps proposed to be taken to help achieve this aim is to initiate a system of awards for top researchers of the University. While recognizing that research is often a collaborative effort there is a need to recognize individual contributions to encourage everybody to put in extra effort in the research field.

6.1 Publication Incentives for Faculty

Publication of the research proceedings and results in peer-reviewed journals is integral to the research process. Every faculty engaged in the research is therefore expected to author a paper per year. The University has put in place an incentivization scheme for those who bring out high-quality publications. The primary objective behind this is to motivate the faculty members to undertake quality research and concentrate on research related activities, in addition to the teaching and administration. This will allow Amrita to bring out the research potential of its faculty, and blossom as a university into an internationally renowned center of research and excellence. This incentive is in addition to any journal publication charges incurred by the authors specifically for first tier and second tier publications.

Who can Apply?

Incentives are only for full-time teaching faculty/researchers of Amrita. .

Tier I Publication

The First-tier journals are those in the 90 percentile or above rating in Scopus (<https://www.scopus.com/sources>)

Faculty Contribution	Incentive
>50%	Rs.50,000
40% - 49%	Rs.40,000
30%- 39%	Rs.30,000
20%- 29%	Rs.20,000
10% - 19%	Rs.10,000

Tier II Publication

The Second-tier journals are those in the 75 to 90 percentile or above rating in Scopus (<https://www.scopus.com/sources>)

Faculty Contribution	Incentive
>50%	Rs.25,000
40% - 49%	Rs.20,000
30%- 39%	Rs.15,000
20%- 29%	Rs.10,000
10% - 19%	Rs.5,000

Tier III Publication

Third-tier is between 25 to 50 percentile rating in Scopus (<https://www.scopus.com/sources>)

Faculty Contribution	Incentive
>50%	Rs.15,000
40% - 49%	Rs.12,000
30%- 39%	Rs.9,000
20%- 29%	Rs.6,000
10% - 19%	Rs.3,000

Incentives for International Conference Publications

Research Heads will recommend conference papers classified as existing Tiers 1, 2, or 3, along with a detailed justification and a selection methodology. These conference papers should be comparable in standards to the journal paper counterparts. University committee will examine, review and approve.

6.2 Publication Incentives for Students

Tier I Publication

The First-tier journals are those in the 90 percentile or above rating in Scopus (<https://www.scopus.com/sources>)

Student Contribution	Incentive
>50%	Rs.25,000
40% - 49%	Rs.20,000
30%- 39%	Rs.15,000
20%- 29%	Rs.10,000
10% - 19%	Rs.5,000

Tier II Publication

Second-tier are 75 percentile or above rating in Scopus(<https://www.scopus.com/sources>)

Student Contribution	Incentive
>50%	Rs.12,500
40% - 49%	Rs.10,000
30%- 39%	Rs.7,500
20%- 29%	Rs.5,000
10% - 19%	Rs.2,500

Tier III Publication

Third-tier is 50 percentile or above rating in Scopus (<https://www.scopus.com/sources>)

Student Contribution	Incentive
>50%	Rs.7,500
40% - 49%	Rs.6,000
30%- 39%	Rs.4,500
20%- 29%	Rs.3,000
10% - 19%	Rs.1,500

6.3 Incentives on Patents

Tier I	US Patents/Other Patents International	For the Tier I patents the award is Rs. 50,000/- to be split among the Inventors.
Tier II	Indian Patents	For the Tier II patents the award is Rs. 25,000/- to be split among the Inventors.

This incentive is in addition to any patent charges incurred by the university/authors for the patent application and approval process.

6.4 Incentives on Research Grants

The objective is to Encourage faculty members to submit proposals and secure funded research projects from various funding agencies (Academia, Research Organizations, Government, Industry etc) in India or International. The incentives for grants will be based on funding received and the approval of the yearly submission of the grant records by the funding agency. The grant amount is often released in phases. Also, the amount released per year may vary depending upon several factors which may be beyond the control of the PI and co-PIs. Hence, for Grants, the incentive(s) paid will be based on the size of the Grant, and calculated as follows.

Total Incentive Available per project per year is 3% of the Grant Amount received in the year for which evaluation for the award is done, with a cap of 1 lakh maximum per year per project. If there is more than one PI for a particular project then the 50% of the incentive is awarded to the PI and the rest is divided among the Co-PIs equally.

6.5 Incentives on Consultancy Services

For a Consultancy Project, there will be 2 broad levels of incentives, depending upon the usage of the university facilities. In general, the PI is expected to use the university facility for the consultancy work.

Consulting Project	Usage of University facilities	% of Consultancy awarded to faculty member
Type 1	Yes	10 %
Type 2	No	20 %

Note

1. All funds from the consultancy services should normally come to the university accounts. If the funds come to the account of the faculty member, it must be declared to the University with relevant supporting documents.
2. An explanation letter with the recommendation of the Research Head should be submitted by PI stating the reasons in case the university facility usage was not needed. If an outside facility was deemed essential for the work, it should also be mentioned.

6.6 Incentives on Book Chapter/Book Publication

As a commitment from our part to the scientific community we encourage the faculty members to write books, chapters of books for the knowledge sharing. Books will follow the same norms as the Conference Papers section mentioned above.

Publisher Ranking

The award for books/book chapters is based on the ranking of the publishers. The ranking of the publishers may be referred to following the link - <https://tinyurl.com/bh3jhz35>.

Incentive on Book Publishing

Publishing a peer reviewed book in a very highly ranked publisher's book is considered equivalent of Tier I Paper.

Incentive on Book Chapter Publishing

Publishing a peer reviewed book chapter in a very highly ranked publisher's book is considered the equivalent of Tier III Paper.

School Level Recognition to the Best Researchers (Annual Research Open House)

Every school and Centers under Amrita Vishwa Vidyapeetham shall spare one complete day as Research Open House every year. The Research Committee of the respective School/Center shall identify best research outcomes of the past year and the key contributors to those outcomes. Opportunity shall be provided to them to present and showcase their research outcomes. The proposed activities during the research day of a School/Center shall be communicated to all the schools and centers in advance and facilities should be arranged to access the research presentation to all the interested faculties and students from other schools and campus.

6.7 Chancellor's Excellence in Research Award

Mentioned in the above section, the individual Research Open House will be the prelude to the University-Wide Selection of the Best Researchers in the following categories:

Researcher of the Year

- ❖ Univeristy Level Award
- ❖ Awarded every year
- ❖ Awarded to the best reacher from the (i) Faculty of Engineering, (ii) Faculty of Medicine, (iii) Faculty of Physical & Life Sceinces and (iv) Other Faculties

Woman Researcher of the Year

- ❖ Univeristy Level Award
- ❖ Awarded every year
- ❖ Selected from among all women researchers across all disciplines.

Young Researcher of the Year

- ❖ Univeristy Level Award
- ❖ Awarded every year
- ❖ Awarded to the best reacher, Selected from under 35 aged faculty across all disciplines

Evaluation Criteria for 'Researcher of the Year' Awards

- ❖ Annual **R-Score** of the faculty is the basis for the evaluation for the award.
- ❖ The Research Head has the discretion to award additional points to a faculty by considering the level of interdisciplinarity in the research work and student involvement. The award of the discretionary-points by the School/Center Research Head shall be justified by submitting supporting document.
- ❖ The nominations from each School/Center shall be forwarded to the Office of The Provost for final evaluation by an adhoc panel appointed for the purpose.

Note:

- ❖ Awards under each category will be given only if eligible candidates are available.
- ❖ The awardees will be given a Certificate signed by the Chancellor and a cash reward of Rs 1 lakh.

Best Student Researcher of the Year

- ❖ University Level Award
- ❖ Awarded every year
- ❖ Awarded in the following categories
 - **Category.I: Doctoral Student**

- **Category.II:**Post Graduate
- **Category.III:**Under Graduate

- ❖ For the Category.I the remarkable research outcome(s) achieved by a doctoral student during the period of evaluation is considered for the award.
- ❖ For Category.II and Category.III the remarkable research outcome(s) achieved by an individual student or a team of students is considered for the award.

Nominations

- ❖ The nominations from each School/Center for each category shall be forwarded to the Office of The Provost for final evaluation by an adhoc panel appointed for the purpose.

Best TAG Group of the Year

- ❖ University Level Award
- ❖ Awarded every year
- ❖ Average of the cumulative individual faculty research scores of the faculty members of the TAG is considered for the award evaluation
- ❖ Extra weightage will be given for interdisciplinary TAGs
- ❖ Extra weightage will be given for TAGS associating students.
- ❖ Extra weightage will be given for TAGS who have won honours and recognitions.
- ❖ Extra weightage will be given for TAGS successfully hosted/conducted Webinars,Symposium,Workshops etc

Nominations

- ❖ The nominations from each School/Center for each category shall be forwarded to the Office of The Provost for final evaluation by an adhoc panel appointed for the purpose.

Best New Faculty Award

- ❖ University Level Award
- ❖ Awarded every year

- ❖ Awarded to the faculty who has joined in the preceding year and has secured milestone research achievement in the first year itself.
- ❖ Extra weightage will be given if a new TAG has been established
- ❖ Extra weightage will be given if students are associated.
- ❖ Extra weightage will be given for TAGS who have won honours and recognitions.

Nominations

- ❖ The nominations from each School/Center for each category shall be forwarded to the Office of The Provost for final evaluation by an adhoc panel appointed for the purpose.

Best School Award

- ❖ University Level Award
- ❖ Awarded every year
- ❖ Awarded to the Best School across the campuses evaluated on the basis of the average of cumulative research score.
- ❖ Extra weightage will be given if students are associated in the funded research projects.

Nominations

- ❖ Evaluation is done by an adhoc panel appointed for the purpose by the Office of The Provost.

7. Research Fellowships

7.1 Project Associates

Amrita Vishwa Vidyapeetham provides opportunity to a Graduate/Post-Graduate candidate who is a fresher or an experienced professional to onboard the domain of the scientific research. Interested candidate may join the Schools/Centers where they get an opportunity to be a part of the team who works on the funded research projects. Depending on the academic background or the nature of the work experience the candidate will get position of the 'project associate' in the School/Center where he/she has submitted the application.

Salary:

- ❖ The Project Associates part of the university funded research are provided with a consolidate salary along with hostel and mess fee at affordable rates.

Access to the University Resources:

- ❖ During their tenure, the Research Associates are eligible to access the libraries, laboratories, and any other research facilities under Amrita Vishwa Vidyapeetham which is required for fulfilling their research requirements.

Roles & Responsibilities of the Project Associate

The Project Associates contribute to the project in many ways and their responsibilities include:

- ❖ doing literature surveys relevant to the project.
- ❖ data collection and analysis.
- ❖ proposal writing for extra mural funds.
- ❖ offering teaching assistantship to the supervisor.
- ❖ raise the purchase request for the equipments and softwares required for the project.
- ❖ proper maintenance of the project equipments and facilities.

- ❖ maintain project record book through out the tenure of the research assistantship.
- ❖ attend the project meetings.
- ❖ give seminars and talks.
- ❖ attend seminars and distinguished lecture talks.

7.2 Research Associates

The candidates successfully clearing the entrance examination and/or interview will be offered Research Assistantship at the School/Center under which he/she has identified the preferred thematic area for pursuing the doctoral research. He/She will be assigned the research assistantship under a Faculty who will be guiding and supervising their doctoral research. A Research Associate is not a full time doctoral student. His/Her responsibilities are at par with a full time faculty in the respective School/Center to which he/she is associated. The roles and responsibilities of a research associate is mentioned in the table below.

Stipend:

- ❖ The Research Associates part of the university funded research are eligible for a monthly stipend along with hostel and mess fee at affordable rates. The details of the various scholarships and stipends available for the candidates are mentioned in the following table.

Access to the University Resources:

- ❖ During their tenure, the Research Associates are eligible to access the libraries, laboratories, and any other research facilities under Amrita Vishwa Vidyapeetham which is required for fulfilling their research requirements.

Roles & Responsibilities of the Research Associate

The Research Associates contribute to the project in many ways and their responsibilities include:

- ❖ doing literature surveys relevant to the project.

- ❖ data collection and analysis.
- ❖ proposal writing for extra mural funds.
- ❖ offering teaching assistantship to the supervisor.
- ❖ raise the purchase request for the equipments and softwares required for the project.
- ❖ proper maintenance of the project equipments and facilities.
- ❖ maintain project record book through out the tenure of the research assistantship.
- ❖ attend the project meetings.
- ❖ give seminars and talks.
- ❖ attend seminars and distinguished lecture talks.

7.3 Doctoral Fellowships

Doctoral programs at Amrita Vishwa Vidyapeetham are designed to develop outstanding educational researchers with a wide range of research skills as well as in-depth knowledge and practical understanding and expertise in their chosen field of educational research. Candidates seeking admission can enroll in any of the Schools/centers under Amrita Vishwa Vidyapeetham's Campuses at Amritapuri, Bengaluru, Coimbatore, Kochi, Mysuru, and Chennai.

Doctoral students are encouraged to avail opportunities

- ❖ for a double/joint PhD in affiliation to international universities through the vast network of Amrita having with the International best universities.
- ❖ to work on the funded projects.
- ❖ to collaborate with world class research centers and work with distinguished international Professors.

7.3.1 Scholarships

Eligible candidates shall be provided a variety of research and teaching assistant scholarships. Candidates with UGC-NET (including JRF), UGC-CSIR NET (including JRF), SLET, GATE, teacher fellowship holder or have passed M.Phil Program (with the required criteria) are exempted from Entrance Test.

Amrita Vishwa Vidyapeetham Ph.D. Scholarship	<ul style="list-style-type: none"> ● Only full-time Ph.D. Students are eligible. ● From Rs. 18,000 to 40,000 per month stipend based on the research performance and outcomes of the fellow. ● Additional support for research infrastructure, facilities, and publications.
Visvesvaraya Scholarship	<ul style="list-style-type: none"> ● Upto Rs. 43000 per month stipend alone. ● Additional support for research infrastructure, facilities, and publications.

Amrita Vishwa Vidyapeetham PhD Fellowship Policy:
Please See Appendix Document.

7.4 Amrita E4LIFE Doctoral Fellowships

Amrita School for Sustainable Development currently offers a fully funded doctoral program in Sustainable Development. The Ph.D Curriculum consists of mandatory field based credit

hours through the Live-in-Labs® component, core courses and elective courses.

- ❖ 100 Seats per year
- ❖ Rs.25 lakhs funding available/student which includes seed money upto Rs.10 lakhs for the design, development and deployment of a sustainable solution in a village.
- ❖ The grant also covers stipend upto three years, travel grant to villages and research presentations.
- ❖ For program details please visit:
<https://www.amrita.edu/program/ph-d-sustainable-development/>

7.5 Post Doctoral Fellowships

The Research Track Faculties are eligible for offering two Post Doctoral Fellowships.

- ❖ The appointment under the Postdoctoral Fellowship scheme will be for two years.
- ❖ A Post Doc Fellow is eligible for a variable pay starting from Rs.60,000 per month to Rs.75,000 per month based on their prior academic and research track.
- ❖ The Fellow shall offer at least one course per semester

At the end of the tenure he/she is eligible to apply for the extension of the Fellowship. The application in the standard format shall be submitted to the Office of the Provost. Based on the merit review of the application submitted by an expert committee the Provost recommends or rejects the extension of the Fellowship.

The candidate holding a PHD degree shall make application in the prescribed proforma for the post doctoral fellowships. The application will be evaluated by an expert committee and recommendation will be submitted to the Provost for the final decision.

8. Research Intensive Academic Programs

8.1 Final Semester Project (Under Graduate)

Developing the ability of the students to synthesize the knowledge acquired throughout their curriculum for delivering meaningful outcomes is central to Amrita's vision. All Schools under Amrita Vishwa Vidyapeetham accord paramount importance to the final semester project of the undergraduate courses.

Distinction

In order to kindle the spirit of scholarly inquiry in students right in the formative years and thereby motivate students to do scientific research and pursue a career in scientific research, Amrita has brought in a policy by which 'Distinction' is awarded only to those students who publish a paper in a peer-reviewed reputed Journal or conference proceedings.

Opportunity to work in Funded Projects

Students are encouraged to approach any Centers under Amrita where they will be provided an opportunity to undertake a research project under the supervision of a Faculty associated with the respective center.

8.2 Dissertation Research (Post Graduate)

Every M.Tech student is required to register for a total of 20 credits of Dissertation Research, which will be divided roughly into 10 credits in semester III and 10 credits in semester IV.

Dissertation Advisor

The Dissertation Research must be carried out under an Amrita faculty member, either within or outside the student's department and that faculty member will be referred to as the student's Dissertation Advisor.

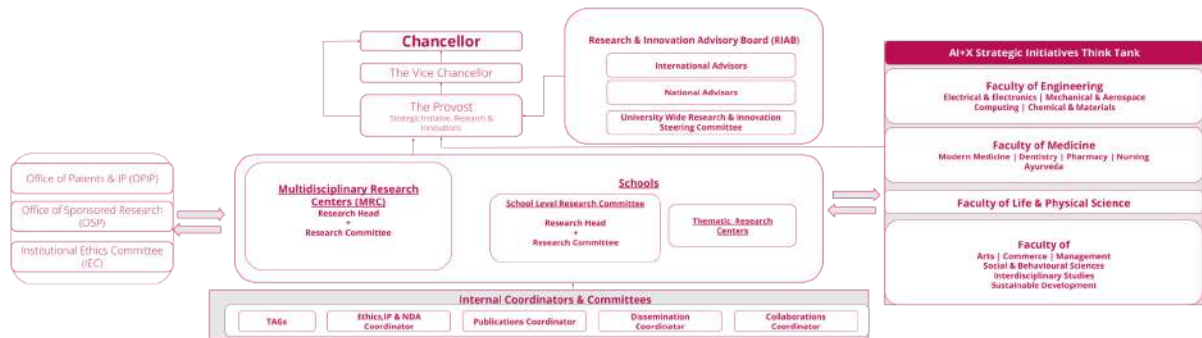
Dissertation Report

Towards the end of completing the Dissertation Research, the student is required to submit a Dissertation Report, documenting all results, including system design, implementation, theory, experiments, and performance evaluation, as applicable. The Dissertation report is submitted to the Dissertation Advisor. Where applicable, an evaluation (qualitative or quantitative) by a Dissertation co-Advisor will be also taken into account by the Dissertation Advisor.

In order to be eligible to receive the M.Tech degree, all candidates must complete a Research Paper (based upon the Dissertation Research) which can be submitted to a Scopus-indexed conference/ journal.

9. Research Administration

9.1 Organization Chart & Reporting Structure



9.2 Reporting Structure

Position	Reports To:	Reported By:
Provost	Chancellor & Vice Chancellor	<ul style="list-style-type: none"> ❖ School/Center Research Heads and Research Committee Members. ❖ Research and Innovation Advisory Board. ❖ Research Offices
Research Head	The Provost	<ul style="list-style-type: none"> ❖ Respective Research Members of the Discipline in the Schools/Centers of the Campus ❖ TAG Group ❖ Head of the the Schools/Centers of the Campus
Research Committee Members	The Provost/ The Research Head	<ul style="list-style-type: none"> ❖ TAG Group ❖ Head of the the Schools/Centers of the Campus
Director (Office of the Sponsored Projects)	The Provost	<ul style="list-style-type: none"> ❖ Respective OSP Members in the Schools/Centers of the Campus
Director (Office of Patents & IP)	The Provost	<ul style="list-style-type: none"> ❖ Respective OPIP in the Schools/Centers of the Campus

9.3 Provost of Strategic Initiatives, Research & Innovation

The Provost of Strategic Initiatives, Research & Innovation leads the effort of advancing the research mission of Amrita Vishwa Vidyapeetham. The functioning of the entire research framework under Amrita Vishwa Vidyapeetham is overseen by The Provost. Provost's Office develops and periodically revises the policies for the administration and management of the research.

The Provost

1. Oversees the functioning of the entire research ecosystem under Amrita Vishwa Vidyapeetham
2. Ensure the research under Amrita Vishwa Vidyapeetham is in strict adherence to the set vision and goals of the University.
3. Shall implement and monitor the steps to promote cutting edge interdisciplinary across the Schools and Centers of Amrita.
4. Shall work towards enhancing the research outcome of Amrita by bringing in more collaborations with national and international universities, industries and government agencies, and non-governmental organizations.
5. Ensure the research ecosystem does not lack the required infrastructure, facilities, man-power.

9.4 Research & Innovation Advisory Board (RIAB)

- ❖ Planning and development of strategies for enhancing University-wide research & innovation will be driven by the **Research & Innovation Advisory Board (RIAB)** consisting of (a) international advisors, (b) national advisors, and (c) the university research & innovation steering committee.

- ❖ RIAB collaboratively work with the Provost - Strategic Initiatives, International, Research & Innovation, to develop the research & innovation plan & pathway for the university for the next five years **(R&I-5Y)**.
- ❖ The decisions proposed by the RIAB will be vetted by the empowered committee consisting of The Chancellor, The Vice-Chancellor and the Provost. The finalized five-year plan for research and innovation **(R&I-5Y)** will be utilized to devise the yearly road map for research & innovation **(R&I-1Y)** jointly by The Provost, the Research Head, and the Research Committee members of the respective Schools/Centers.

9.5 Research Head (RH) and the Research Committee Members (RCM).

- ❖ Monitoring and management of research at each of the Schools & Centers will be undertaken by the **Research Head (RH)** and the **Research Committee Members (RCM)**.
- ❖ The Research Head (RH) and the Research Committee Members (RCM) will be reporting to the Provost of Strategic Initiatives, Research & Innovation. The research administration will collaboratively work to strengthen collaborative strategic research initiated at the university /school/unit level.
- ❖ The Schools & Center level Research Committees will be accountable for the successful implementation of Vision & Strategies for Research & Innovation as per the finalized road map developed for each school/center.
- ❖ RCs strategize the activities to ensure the delivery of sustained outcomes for consistently improving the quality of research, translation of research into products, deploying sustainable solutions in the communities, and ranking of the Schools/Centers.

Selection of Research Head & Committee Members

Every school and MRC will have a School/Center Level Research Committee which is headed by the 'Research Head'. The Research Committee members and research head are selected by an empowered committee composed of The Chancellor, The Vice-Chancellor, and the Provost of Strategic Initiatives, Research & Innovation.

A workload of a maximum of 3 hours per week shall be utilized by each member of the Research Committee to enhance the research outputs of the respective Schools/Centers. The functioning of the overall research framework of a school/center will be the responsibility of the Research Head of the respective school in consonance with the head of the School/Center.

9.6 Department Research Coordinator

The Department Research Coordinator (DRC) is a member of the School level research committee. DRC is the connecting nod between the department and the School/Center level research committee. DRC oversees the implementation of the research policy at the Department Level. DRC reports his activities to the Department Chair and the Research Head.

Research Onboarding of Faculties:

Faculty who wish to kickstart their research shall have his/her DRC as the first and single point of contact who shall extend necessary support. DRC will identify the TAG for the faculty to associate with or connect with appropriate MRC/TRC.

Support to the Students

For the UG/PG students with research ideas that they wish to carry out as part of final year projects, the DRC shall extend necessary support in identifying the faculty who will be able to guide the student.

9.7 Research Committee Roles & Responsibilities

The School/Center Level Research Committee plays the pivotal role in nurturing and sustaining quality Research Environment which facilitates knowledge synthesis, conduct of research, technology development, innovation and research translation in respective schools or centers.

The Research Committee will have the overall responsibility to scope research direction, administer research programmes, motivate team members in the Department to participate in Research Programmes, identification of Collaborators, Research Faculty Development, etc. Implementation of all the policies and programs including incentives and rewards under the direction of the Provost.

The overall roles and responsibilities of research committee includes but not limited to:

- 1 The Research committee plays a primary role in developing the research road map for their School/Center/Unit in close consultation with Provost, in the direction laid down by the Research & Innovation Advisory Board (RIAB), and facilitates the implementation of the Research Road map once it is approved.
- 2 Communicate periodically to all faculty members and researchers, the Thematic Research topics, plans, opportunities, and strategies that need attention to implement the (R&I-5Y) and (R&I-1Y). This periodic communication could be a monthly Office Communication or Bi-Annual Workshop for Research Faculties, depending on the importance of the subject
- 3 Conceive Programmes to motivate research faculties in the School to participate in research programmes and facilitate them.
- 4 Conceive & facilitate programmes aimed at Research Faculty development activities that may culminate in enhancement in Research & Scholarly Productivity within the School. This may include activities such as paving avenues for interactions & coordination within the University – across the

campus/schools/disciplines, with international scholars in Seminars/Symposiums through sponsorships, supporting the faculty in publications, etc

5 Yearly at least one week long Faculty development program for research & innovation (FDP-R&I) enhancement need to devised and implemented by the RH & RCM of the respective School/Center

6 Drive intervention in promoting periodic research dissemination both internally & externally.

7 Plan & implement weekly (Every Monday other than public holidays) Amrita Research Seminar (ARS) to enhance the dissemination of research publications by faculty at Amrita, and develop interdisciplinary collaborations with multiple departments/schools/centers. The implementation of ARS should also contribute in enhancing the citation index of Amrita.

8 One member from RCM should be designated as the coordinator for ARS by the RH who will be liaising with the Provost Office in the conduct of the presentation from the respective School/Center.

9 It will be the responsibility of the research committee to keep track of important national and international calls for proposals, research and innovation challenges related to their thematic areas and motivate the researchers to submit proposals/applications and facilitate with them necessary support for the submission of the same.

10 Advise PROVOST on issues relating to supporting research & grant activities.

11 Review & Rank Proposals for being funded under Research Grants Programmes for final decision by PROVOST

12 It shall be the duty of the Research Committee to promote the culture of IPR filing among the researchers from their schools.

- 13 The Research Committee shall aid and extend all the support to the OPIP in their efforts to secure IPR for the research outcomes.
- 14 One member from RCM should be designated as the coordinator for OSR and OPIP by the RH. This designated member should work closely with both the offices to achieve the targets and strategies the actions required in the School/Center.
- 15 Support all researchers in - identifying Gaps in the various IPs filed to select appropriate subjects for initiation of Research - and also for securing Intellectual Property rights generated out of their research works.
- 16 The Research Committee shall propose the annual research targets (publications, proposals, patents, collaborations) for their respective School/Center which then would be approved by The Provost. Committee will ensure the implementation of the approved targets.
- 17 It will be the responsibility of the RCM to monitor the research performance and outcomes periodically using the standard yardstick approved by The Provost in consultation with the Research & Innovation Advisory Board. RH will head this activity in collaboration with RCM
- 18 Identify Potential Industry collaborators and promote more avenues for research & consultancy activities.
- 19 Identify Potential International & National academic collaborators and promote more avenues for research & academic activities.
- 20 One member from RCM should be designated by the RH, as the coordinator for planning, strategizing, implementing and monitoring the industry and international collaboration. The member should closely work with CIR and ACIP.
- 21 Drive distinct interventions in promoting quantum jump in number of interdisciplinary research programmes. RH needs to closely work with the Dean/Director of each School/Center to achieve the same.

22 Research committee shall ensure that research practices are strictly adhered to University Research Policy.

23 Evolve & implement systems & processes to ensure strict adherence to University Research Policy.

24 One member from RCM should be designated by the RH, as the Ethics Coordinator.

25 The Research Committee will also monitor for cases in Research Ethics dilution. The Research Committee will report such matters to the Provost & Ethics Committee, to take necessary disciplinary actions, and will have the accountability to facilitate such actions on the Ground.

26 Recommend Research Faculty members for Research Award(s) consideration by PROVOST, as per the Policies & Guidelines recommended by The Research Advisory Board

27 Conceive, annually, overall Long Range Research Plan (5 yrs) & overall Annual Research Plan every year and submit the plan for review to PROVOST, encompassing Plans envisaged vis-à-vis achievements of the Plans during the last 3 yrs with emphasis on the previous year. This will be presented to RIAB

28 Perform any other tasks, duties & responsibilities that may be assigned from time to time by the PROVOST.

29 Depending upon the strength of the Research Committee of a School/Center the members may have to assume multiple roles of Publication Coordinator, Ethics Coordinator, Dissemination Coordinator. The Research Head shall communicate the names of the Internal Coordinators to the Provost Office through email.

30 The Research Committee is responsible to ensure that the Research Infrastructure & Equipments are best utilized and properly managed.

31 The Research Committee shall work towards identifying the gaps in research infrastructure and propose new Laboratory/Research facilities that are required;

preparing a viability report for such facilities for Approval by Research Head/ Research Committee/ Provost; facilitation, planning & creation of such approved facilities.

32 Research committee shall submit a quantitative bi monthly summary of research outcomes, if any, achieved in the preceding two months in the standard format shared from the Provost Office.

33 Research committee shall conduct periodic quality audit to ensure adherence to international standards which includes internal evaluation of research papers,

34 Research committee must ensure that all the Research Labs in the institution fulfill the norms of Good Laboratory Practices (GLP) and Safety (Bio and Chemical) measures, recognized as QIP center and by the National Accreditation Board of Laboratories (NABL).

9.8 Office of Sponsored Projects

Following best practices in fund management in sponsored projects is critical in maintaining the funding agency's trust in investigators and in the institution. Funds & Grants management is overseen by the Office of the Sponsored Projects in close collaboration with the respective School/Center Level Research Committee and the Accounts department.

- ❖ It will be the responsibility of the School/Center Level Research Committee to implement the university-level framework for the selection of candidates as the beneficiaries of various institutional grants.
- ❖ In such selection, merit shall be the sole criterion.
- ❖ Committee shall extend necessary support to the researchers in the proposal submission.
- ❖ Committee shall extend necessary support to the researchers in obtaining research consultancy

- ❖ Committee shall extend necessary support to the Office of Grants in administering and managing sanctioned funds with the help of the concerned PIs.

Roles & Responsibilities of the OSP

- ❖ The OSP is devised for effective management of multi-campus projects and grants to enhance the delivery of research & innovation.
- ❖ Research heads shall work in close coordination with the Office of Sponsored Projects (OSP) to enhance the opportunity to receive and manage the research funding.
- ❖ The OSP shall be quite familiar with upcoming opportunities for new findings and project opportunities etc. The executive director of OSP will report to Provost.

9.9 Office of Patents & IP

It shall be the duty of the Research Committee to promote the culture of IPR filing among the researchers from their schools. Amrita strongly encourages the culture of filing claims for the Intellectual Property Rights of the research and scientific outcomes. Intellectual Property Rights arising out of the research and scientific outcomes shall be held by the institution, subjected to the conditions of the agreement of non-disclosure entered upon between the institute and the researcher(s) whose work has yielded the IPR. The Research Committee is expected to work towards identifying and promoting the such projects outcomes of which have the potential to generate IPRs.

Roles & Responsibilities of the OPIP

- ❖ Amrita Vishwa Vidyapeetham's policy on IPR governs all the *inventions* that are patentable, *copyrightable-works* or/and products/materials/processes that are made utilizing the funds, facilities, or any other resources which are provided by or through Amrita Vishwa Vidyapeetham.

- ❖ It shall be the responsibility of the OPIP in implementing Amrita Vishwa Vidyapeetham's policy on IPR.
- ❖ Research heads shall work in close coordination with the Office of Patents & IP in identifying and securing the intellectual property rights of the research work.
- ❖ Based on the recommendations of the research head the OPIP shall extend all the necessary support to the potential IP owner in securing the same.

10. Special Emphasis on Quality & Quantity

10.1 Expected Scholarly Outcomes from the Research Fraternity at Amrita:

6. Publish your research outcomes in the peer-reviewed journals of high quality (e.g: Q1/Q2).
7. Present the publications, posters and projects in the reputed international conferences.
8. Author publications with international co-authors .
9. Periodically improve the publication output from each TAG proportional to the number of members in the TAG.
10. Publish book chapters and books.
11. Increase the number of patent filing
12. Increase the number of proposal submissions for extra mural funding

10.2 Publication Coordinator:

- I. The School/Center Level Research Committee shall select one member among them from as the publication coordinator of the respective School/Center.
- II. He/she shall be responsible for the coordination of all matters related to the timely publications of research works from the respective school/center in the high impact factor reputed journals and conference proceedings.
- III. The applications for reimbursement from authors will be processed and verified by the publication coordinator and sanctioned by the Research Head for the School/Center under the directives of the Provost.
- IV. Regular and periodic reports in the prescribed format shall be prepared and kept by the publication coordinator.
- V. He/should keep a track of reputed journals from the areas of research where the school/center focuses primarily. This information shall be regularly made available to the researchers.

10.3 Categorization of journals based on quality

Papers should be submitted to only Scopus/Pubmed indexed conferences or journals.

Publications are classified in 3 Tiers.

- **Tier I Journals:** The First-tier journals are those in the 90 percentile or above rating in Scopus,
- **Tier II Journals:** The Second-tier are 75 percentile or above, and the
- **Tier III Journals:** Third-tier is 50 percentile or above.

Subject/Dicipline wise Quartile Ranking

However, the School/Center Research Committee may recommend which journals are considered First-tier, Second-tier, and Third-tier for a particular. Provost will examine, review and approve.

10.4 Authorship and Affiliation

The primary faculty author is the main contributor to the paper and should generally be either the first author or the corresponding author..

Guideline 5

Use only the approved Amrita University affiliation as author affiliation

Names of Authors:

Dept/Center

Amrita School of, Campus

Amrita Vishwa Vidyapeetham

India

Citations

Ensure that each such paper contains at least 4 citations to Amrita papers out of which a maximum of 2 can be citations to the papers of the same submitting author.

Review Paper

All TAGs, Centers should publish at least one review paper- which is a necessary condition for retaining the special status

University Affiliation

It is the responsibility of the publication coordinator to ensure all the literature sent to publication from the respective school/center is adhered to the proper affiliation approved by the University.

Anti Plagiarism

It shall be the responsibility of the publication coordinator to seek and verify the affidavit of anti plagiarism report from the authors before the literature is sent for publication. The anti plagiarism report should be verified thoroughly and ensured that it is in strict conformance with the university's anti plagiarism policy.

Software based plagiarism check should be mandatorily implemented as a prerequisite to sanction any publication under university affiliation. The Research Committee should sensitize the research community under their school/center about dubious research and publishing practices and caution them about predatory and paid journals.

10.5 Ethics Coordinator:

It shall be the responsibility of the Research Committee to sensitise the research community under their school/center about the importance of integrity and ethics in all the aspects of the research process.

- ❖ The School/Center Level Research Committee shall select one member among them from as the coordinator for the committee for ethics & nda.
- ❖ It shall be the duty of the Ethics Coordinator to ensure that the 'Research Ethical Policy' of the university is strictly adhered to in letter and spirit by every researcher.

Ethics Approval

1. Ethics Coordinator accepts applications for Ethics Approval from PIs.
2. Ethics Approval is a mandatory prerequisite for the sanctioning of applications for new research projects including submission of project proposals.
3. Ethics coordinator in consultation with Research Head shall appoint an ad hoc committee for the ethical evaluation and recommendation.
4. It shall be the duty of the Ethics Coordinator to ensure that the 'Research Ethical Policy' of the university is strictly adhered to in letter and spirit by every researcher.

Research Involving Human Subjects

Any research involving human subjects shall be governed by the Indian Council of Medical Research's (ICMR) guidelines document '**National Ethical Guidelines for Biomedical and Health Research involving Human Participants**' which is accessible from the ICMR website.

10.6 Collaborations Coordinator

- ❖ Amrita promotes research collaborations with the reputed partners from Academia, Industry or Research organisations.
- ❖ It shall be the responsibility of the School/Center Level Research Committee to ensure that such collaborations shall conform to the overall research vision and research policy of the Amrita Vishwa Vidyapeetham.

- ❖ The School/Center Level Research Committee shall select one member among them as the collaborations coordinator of the respective School/Center.
- ❖ He/she shall be responsible for the coordination of all matters related to the identification, implementation, tracking, and evaluation of the collaborations.

11. Research Dissemination

The Research Policy recognizes Timely '*Research Dissemination*' as integral to our research ecosystem. It is requested NOT to restrict the research dissemination to refereed journals and conference proceedings alone. The research committee shall explore the possibilities of all the platforms for the wider publicity of the research outcomes of our Scientists, researchers, and students. This is an important commitment on the part of the University towards the community, and peers and to motivate the scientists.

The overall responsibility is to record the research outcomes and ensure timely dissemination of the same vests with the School/Center level research committee. The Committee shall nominate one member among them as the dissemination coordinator who shall oversee the research dissemination initiatives of the School/Center. The roles and responsibilities of the research dissemination coordinator include

1. promotion of the publication of research outcomes in refereed academic journals.
2. promotion of the publication of books/chapters by the faculties
3. explore the possibility of all informal media such as Facebook, LinkedIn, and Twitter, for periodic research news posting.
4. Periodic mailing of Email newsletters highlighting the research achievements and outcomes of your School/Center.
5. oversee the conduct of weekly research seminars.
6. arrange periodic distinguished lectures.
7. organize colloquiums, workshops, and conferences.
8. coordination of periodic research dissemination reports to the Office of The Provost.

11.1 Periodic Research Dissemination Report

As a mandatory best practice, all the Research Committees must maintain a digital repository of the

1. Key publications from their School/Center
2. Approved patents from their School/Center
3. Funded projects from their School/Center
4. Awards, Honours, and other Achievements won by the Faculty or Students

Standard templates for the above purpose are available for download in the 'Research Section' of the My Amrita portal. The Research Dissemination coordinator shall be responsible for the research record-keeping.

11.2 Weekly Research Seminar

Our Chancellor, AMMA has advised devising a program for giving wide publicity to the research papers of the Amrita Faculty. Based on this it has been decided to conduct **Weekly Research Seminar Series every Monday from 3:00 PM to 4:00 PM**. This initiative will also serve as a platform for introducing the research work of a particular faculty/TAG/Department/Center to others thereby opening up the channels for intra-Amrita collaborations. The following schedule of online meetings is fixed

When?

Every Monday

Time

3:00 PM to 4:00 PM

Program Guidelines

1. The Weekly Research Seminar Series is conducted as part of the University-Wide Research Dissemination Initiatives of Amrita Vishwa Vidyapeetham.
2. Based on the disciplines four groups have been made for the seminar series

Group.1	Faculty of Engineering
Group.2	Faculty of Medical Sciences
Group.3	Faculty of Physical & Life Sciences
Group.4	Faculty of Interdisciplinary Studies, Social and Behavioural Sciences, Arts, Humanities and Commerce & Faculty of Management

3. 2 Presenters will be selected from each Group.
4. The Presenters are selected on a random basis with the help of a Software Driven Process; managed by the ICTS Department-Amritapuri Campus.
5. The presentation is conducted from 3:00 PM to 4:00 PM, every Monday, virtually through the Teams/Zoom/WEBEX platform.
6. Each presenter gets 20 minutes for the presentation. The last twenty minutes is for Q&As/Deliberations.
7. Presenters are encouraged to give the session at the common facility available in your school/center such as Conference Room or Conference Hall where the attendees from your school/center may attend physically the session; The same with the support of the School/Center IT Team will be made available live to the other campuses through Teams/WebEx/Zoom platform.
8. The Presenters are selected 14 days ahead of their date of presentation.
9. The selected presenter receives an Email from University intimating their selection and the link to access the PTP Portal.
10. The link for selecting the paper is normally active for seven days from the day the presenter receives the intimation email.
11. After the selection of the Paper, the Presenter is requested to email to Provost Office (provostoffice@amrita.edu) the details of the presentation in the standard template available in the My Amrita portal.
12. In case the presenter has not made the paper selection using the link provided within the time limit

1. The presenter should write to ICTS Department, Amritapuri to reactivate the PTP portal to make the selection.
 2. Or the presenter may select a paper of his/her choice, which must be authored by an Amrita Faculty (other than one authored/co-authored by you)
13. The presenter should
1. acknowledge, through email, the receipt of the Intimation to the Provost Office and to the Research Head of his/her School/Center.
 2. Intimate, through email, his/her School/Center Research Head about their selection for the presentation. In case the seat of the School/Center Research Head is vacant the presenter has to intimate the School/Center Head or any other Research Committee member as directed by the School/Center Head.
14. In case the presenter has any difficulty presenting on the scheduled date, intimate the same to the Research Head of the School. In case the seat of your School/Center Research Head is vacant you have to intimate the same to the School/Center Head or any other Research Committee member as directed by the School/Center Head.
15. The duly filled-in presentation details document has to be submitted to the Provost Office on or before the 10th day since the receipt of the intimation email.

11.3 Distinguished Lectures

Words of wisdom from distinguished Scientists, Academicians, Entrepreneurs, Industrialists, Social Workers and Eminent Administrators from their vast experience and expertise in the respective domains is a great learning opportunity for our Students and Faculty. The Research Committees are encouraged to organize periodic distinguished lecture series. Such lectures may be organized as virtual events or as physical events. The host School/Center shall explore the possibility of online streaming of the lectures for the

access of the faculty or students from other campuses also. It is recommended to publicize the news about an upcoming lecture across all the Schools/Centers. The Monday Weekly Research Seminar slot can be utilized for organizing distinguished lecture series with an advance notice sent to the Office of The Provost .

11.4 Newsletters & Mailing List

- ❖ The School/Center Level Research Committee shall extend necessary support to the Office of The Provost and Amrita Center for International Programs (ACIP) in bringing out Quarterly University Wide Newsletter highlighting the research achievements.
- ❖ The School/Center Level Research Committee shall extend necessary support to the Office of The Provost and Amrita Center for International Programs (ACIP) by providing content about the research outcomes from their School/Center for preparing periodic email newsletters which will be sent to the Top Scientists and Researchers across the globe whose contact list is maintained by ACIP.

11.5 Conferences & Workshops

Every IRC/MRC/TRC should organize one international Conference in every three years and multiple symposiums/workshops in an year.

Round-the-Year Research Activities,

Apart from the Weekly Research Seminar Series and Distinguished lectures the School/Center Level Research Committee shall plan and organize programs or events that motivate the faculties and students to onboard the domain of scientific research. This includes

1. Hackathons, Programming Contests
2. Semesterly workshops on improving paper writing skills, proposal writings etc.
3. Annual Research open house to celebrate research outcomes.

Openness in Research

Every project that involves the public use of the name 'Amrita Vishwa Vidyapeetham' and/or any of its subsidiary schools that involves the funding from Amrita Vishwa Vidyapeetham is subjected to scrutiny by the research committee.

12. Research Infrastructure

The School/Center Level Research Committee ensures:

- i. proper and periodic maintenance of the existing research facilities
- ii. periodic upgradations of the systems and softwares
- iii. periodic upskilling and training of lab staff
- iv. maintenance of necessary manuals and guides for researchers
- v. inventory keeping and periodic inspections of the research equipment and facilities.
- vi. maintain the digital catalogue of equipment.
- vii. promote responsible sharing of research facilities among schools/centers

Future Labs

The research committee shall keep a track of evolving technologies in their respective thematic areas and strive towards bringing up a road map for establishing the most modern research facilities for their school/center.

Resource Pooling

Schools and Centers shall responsibly share the access to the specific high end research facility housed in their respective Schools/Centers. A standard protocol can be implemented by the School/Center Level Research Committee for the same and shared with the other Schools/Centers.

13. Progress Monitoring, Merit Review & Evaluation

13.1 Annual Merit Review

Detailed policy on the merit review of the Individual Faculty members is available in my.amrita.edu alerts section. For Tenure Tracks, Research Performance Score is numerically computed and then labeled into 3 levels of Research Score (**R-Score**) namely R-Distinction, R-First Class and R- PIP (Performance Improvement Plan)

Each TAG/TRC/MRC/IRC will undergo annual merit review by The Provost and grades are awarded as a cumulative mean of **R-scores** of all the faculty members of the respective TAG/TRC/MRC/IRC.

- TAGs and TRCs should have the cumulative research grade 'R-First Class'
- MRCs and IRCs should have the cumulative research grade 'R-Distinction'

14. Research Translation: Deployment and Productization



Translating the research outcomes, innovations, and discoveries for the benefit of mankind, society, and nature is central to Amrita's Research Vision. It shall be the responsibility of the Research Committee to motivate and support each TAGs functioning under them to

- viii. Deploy the research outcomes
- ix. Productise the research outcomes wherever possible.

- x. Encourage the Faculty/TAG to partner with industries for productisation and commercialisation.

15.Targets

The School/Center Level Research Committee shall collectively strive towards for achieving the following targets:

1. Achieving papers per faculty per academic from your School/Center: Ensure either 20% increase than previous three years cumulative papers/faculty or a minimum is 2 papers per faculty of the respective School/Center; whichever is higher among both the scenarios, that need to be selected as the target for each year
2. Increase the citation per year- minimum 10% increase per year
3. Increase the number of patents registered per year: Minimum 10% of faculty should submit at least one patent application per year
4. Number of proposals submitted: 40% of faculty should submit at least one proposal per year
5. Project Funding: Ensure 20% increase than previous three years of total project funding
6. Number of international faculty with PhD and high research output: Increase the number by 10% every year on each of the school/center
7. Number of phd intake: Ensure that each and every faculty with PhD has required number of PhD students guided by them
8. International PhD students: Ensure at least 20% of PhD students of the respective school/center are international students (students having their nationality other than India)
9. Number phd graduation: Maximise the number of PhD student graduation. Increase it by 15% more than previous years.
10. Consultancy: Ensure at least 10% of faculty get engaged in delivering consultancy service

11. Productisation/research translation/deployment: Ensure at least 10% increase in delivering new Products/research translation/deployment for your school/center
12. Live-in-Labs(R) Participation: Ensure at least 25% of faculty and 40% of students participate in Live-in-Labs program and contribute in building sustainable solutions for the communities.