Avinashilingam Institute for Home Science and Higher Education for Women
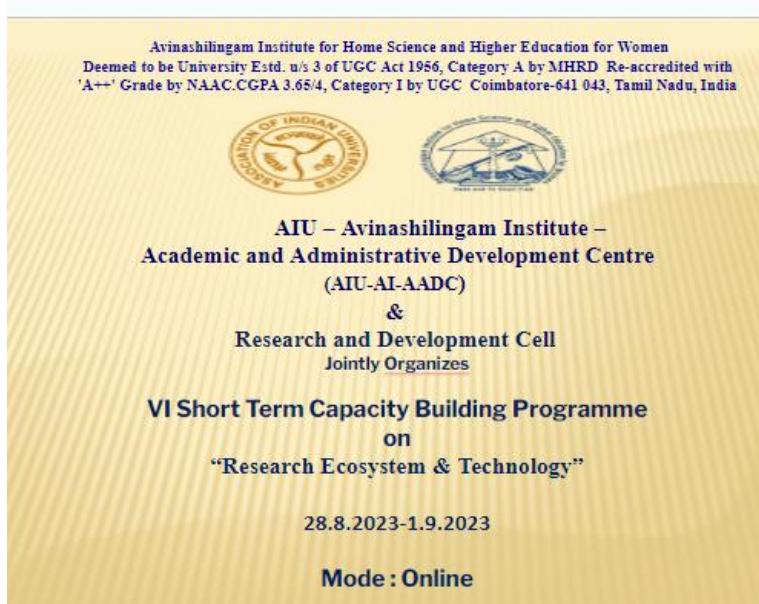**Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD**
Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC
Coimbatore-641 043, Tamil Nadu, India

Report of the
Sixth Short Term Capacity Building Program
on
RESEARCH ECOSYSTEM AND TECHNOLOGY
Organised
by
AIU-AI-AADC & Research and Development Cell

Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD Re-accredited with
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AIU – Avinashilingam Institute –
Academic and Administrative Development Centre
(AIU-AI-AADC)
&
Research and Development Cell
Jointly Organizes

VI Short Term Capacity Building Programme
on
"Research Ecosystem & Technology"

28.8.2023-1.9.2023

Mode : Online

(28 August 2023 to 1 September 2023)

AIU-AI-AADC

&

Research and Development Cell

Jointly organizes

Sixth Short-Term Capacity Building Program on 'Research Ecosystem and Technology'

28.8.2023-1.9.2023

Date/Day	Session I 9.30 am to 11.00 am	Session II 11.15 am to 12.45 pm	Session III 1.30 pm to 3.00 pm	Session IV 3.15 pm to 4.45 pm
Day 1 28/08/2023 Monday Responsible Research	**Inauguration & Special Address** Dr. Mangala Sunder Krishnan. Male. Department of Chemistry Indian Institute of Technology, Madras . Chennai, Tamil Nadu, India – 600036 . mangal@iitm.ac.in 7200008706	**Research Ethics , Dilemma and Responsibilities** Dr.K K Kailash, Professor, Department of Political Science/ School of Social Science, University of Hyderabad 9447670556 kailashkk@uohyd.ac.in	**Institutional Regulatory Board guidelines for research** Prof.S.P.Thyagarajan Distinguished Professor & Advisor to Chancellor, VIT Universities	**Facilities for Research and Design Expert software** Dr.P.Lalitha Director R&D Ms.A.PonNivetha (Research scholar)
Day 2 29/08/2023 Tuesday Research Processes and Tools	**Conducting Review of Literature using R programming and simple referencing methods** Dr.Kuralarasan Kumar Ghent University, Belgium 9710673153 Kuralarasan.Kumar @ugent.be	**Turnitin and Grammarly Software** Ms.J.Geetha, Information Scientist	**Open Research** Dr. M.V Subha Associate Professor Department of Management Studies Anna University Regional Centre, Coimbatore. subhamv@gmail.com 9994299995	**"End Note Magic: Research Management Unleashed"** Dr. Fazlunnisa. H Ph.D Assistant Professor Department of Library & Information Science, University of Madras

				9941322008 fazul_8383@yahoo.com
Day 3 30/08/2023 Wednesday **Research Tools**	**Researgence RIMS** Shri.Cedric Joseph, CEO CIntelligence Cedric@cintelservices.com	**IPR,Patents and Copyrights** Dr.Bharat N Suryawanshi Assistant Controller of Patents & Designs *Between 12.30 and 1.30pm* Mobile-09892605892 Email- bharatns.ipo@nic.in	**Statista: Research database** Shri.Stani John, Statista India Private Limited DLF Phase 5, Gurugram, Haryana 122002 stani.john@statista.com 9804223344 2-3pm	**"Literary Research Trends: Doing Environmental Humanities"** DrPramod K. Nayar Professor, Department of English, University of Hyderabad pramodknayar@gmail.com
Day 4 31/08/2023 Thursday **Research Outcome**	**Publishing in quality academic journals-journal selection** Prof.Ramesh Sivanpillai, Senior Scientist, University of Wyoming sivan@uwyo.edu	**UGC CARE listed Journals and Communicative research** - Dr.Shubada Nagakar, SPPU univeristy shubha.nagarkar@gmail.com 9822014134	**Selection of Right Journals** Dr.P.Lalitha Director R&D Dean_research@avinuty.ac.in	**Mastering Innovation: Navigating the PCT for Global Patent Success** Dr.Deepa Boppanna Attorney, Chennai intellpat@gmail.com
Day 5 01/09/2023 **Funding Opportunities for Research**	**Supporting early – career researchers: Grants and Fellowships** Dr.Anita Aggarwal Head, TDT anita.a@nic.in	**Researcher to Entrepreneur** Dr.Pavithra Ravi, CEO Frontoclub and Founder of @atom Coimbatore	**Multidisciplinary Skills in Achieving Sustainable Development Goals** Prof.Wong Ling Shing Pro Vice Chancellor	**Valediction and Special Address** Dr.HemanthKumar Aiyer Senior Lead Scientist , Aditya Birla Science & Technology

	10.30-11.30am	CSIR Fellow	Professor in Biotechnology,INTI international University,Malaysia. lingshing.wong@newinti.edu.my	Centre Mumbai, Maharashtra, India hemantiisc@gmail.com

Report of the Sixth Short Term Capacity Building Program on RESEARCH ECOSYSTEM AND TECHNOLOGY (28 August 2023 to 1 September 2023) Organised by AIU-AI-AADC & Research and Development Cell

The AIU-AI-AADC (Association of Indian Universities - Avinashilingam Institute - Academic & Administrative Development Centre) and **Research and Development Cell,** Avinashilingam Institute for Home Science and Higher Education for Women organized sixth Short Term Capacity Building Program on Research ecosystem and Technology from 28th August to 1st September 2023. This five-day program was designed to equip aspiring researchers with essential skills and knowledge to thrive in the dynamic world of research. This short-term program aimed to empower the participants with insights into the research ecosystem, cutting-edge technologies, and best practices that will bolster the quality and impact of research projects.

Objectives :

The program was aimed at understanding the research ecosystem, research methodologies and techniques, Research ethics and integrity, policies and guidelines for research, research processes and research outcome with multi-fold objectives:

♣**To familiarize participants with scientific research processes and tools**

♣ **To promote ethical research practices**

♣ **To explore how technology is transforming the research landscape**

♣ **To enhance participants' research writing and communication skills**

♣ **To provide insights into data management best practices**

♣ **To educate participants on intellectual property rights, patent filing procedures, and commercialization of research outcomes.**

♣ **To encourage interdisciplinary collaboration among researchers and promoting a strong professional network**

75 participants from various higher education institutions (HEIs) attended the program in virtual mode.

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28ᵗʰ August 2023 - Day 1

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Inauguration session:

The program was formally inaugurated with prayer song .

Welcome address was given by Dr. K Ramya, Nodal officer, AIU-AI-AADC.

Dr. C.A. Kalpana, Deputy Dean School of Home Science and Professor in Department of Food Science and Nutrition was an Organizing member of the Program for the Day 1.

Moderator of the program was Ms. Akila, Research Scholar, Department of Chemistry.

The Inauguration session started with briefing about the Five-day Short Term Capacity Building Program.
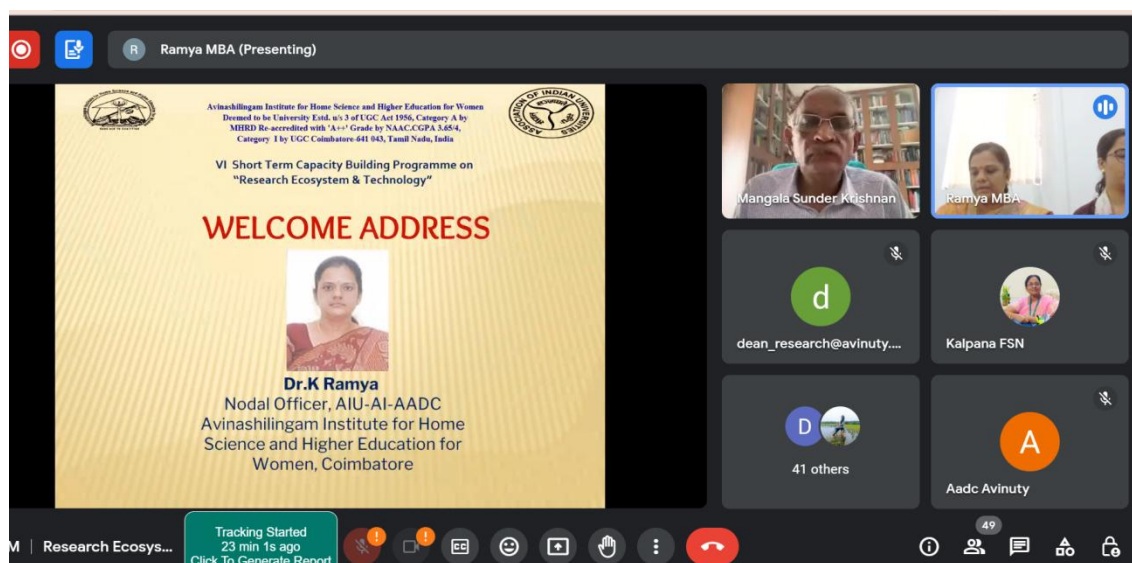
Dr. P. Lalitha, Director R & D, greeted and elaborated about the 5 days Short Term Capacity Building Program. Madam also wished and congratulated to all the participants of the program and explained about the research process and research outcomes. She also had mentioned briefly about the session structures from Day 1 to Day 5.
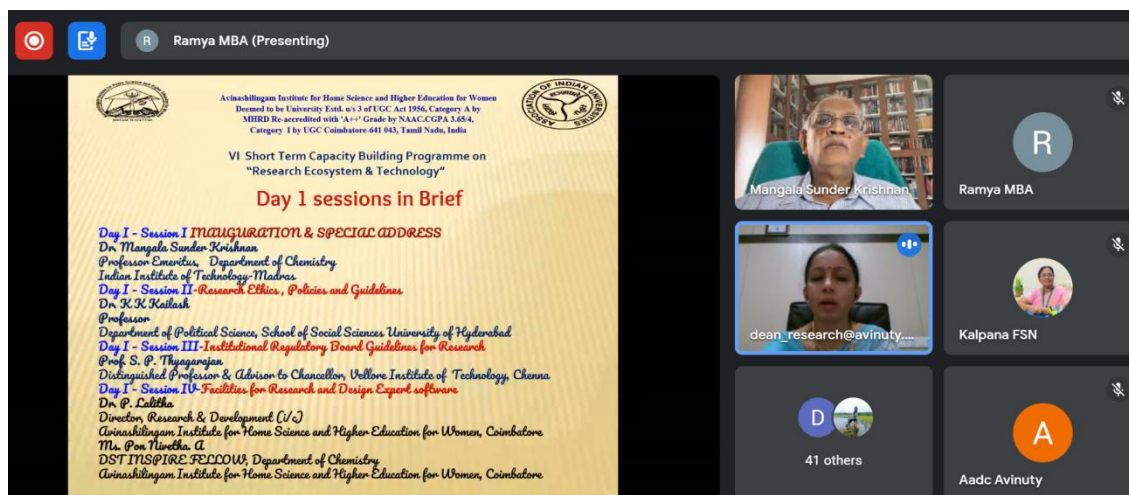
Special Address:

Special address was delivered by Dr. Mangala Sunder Krishnan, Department of Chemistry, Indian Institute of Technology, Madras, Tamil Nadu.

Dr. Mangala Sunder Krishnan had elaborated about Research Methodology and Technology Tools:

- The need to communicate science- importance for decision making socially, economically and politically and also for community.
- The modes of communication – from the discovery of agriculture to the science and innovation as new age of man and the evolution.
- The excitement and the recognition.
- Books and monographs
- Research publications and the proliferation of journals – quality of Research article is critically dependent on the significance of the problem and clarity of the problem statement.
- Copyrights and plagiarism
- Patents

He also mentioned about good quality publication, instead of publishing large number of publication, publish paper in good quality journals.

Sir had given a wonderful take home message "**you will be known and remembered not for the hundred pieces that you discovered by the one piece that most people would find useful in their lives**"
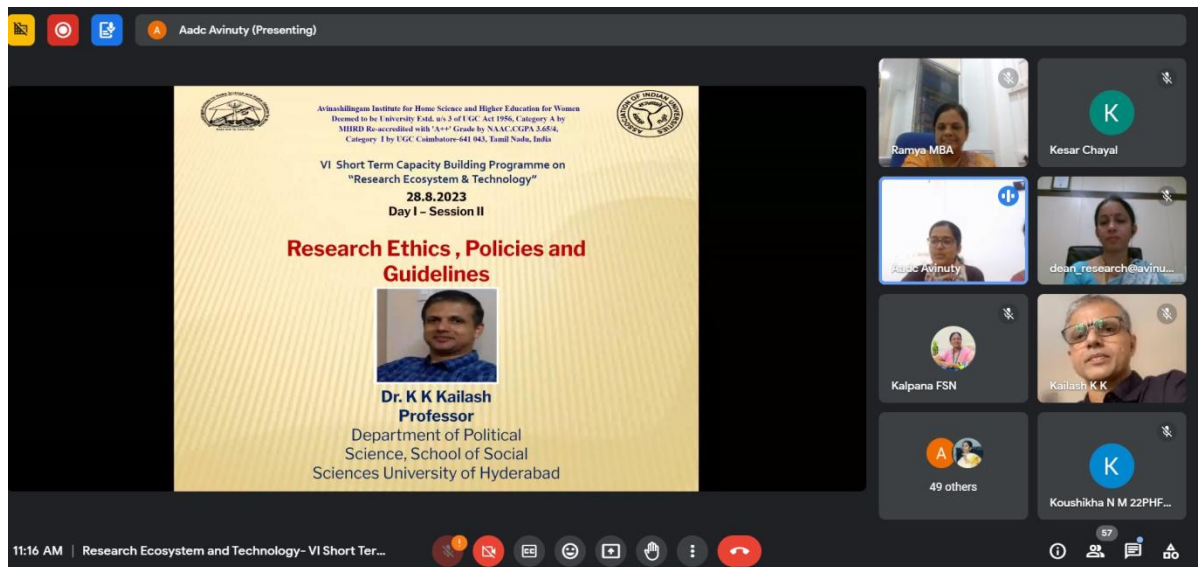

Session II

RESEARCH ETHICS, DILEMMAS AND RESPONSIBILITY

Dr. KK Kailash, Professor

Sir started his talk about 3 communities in Research-

- Larger public
- Secondary community
- Collaborators and peers

Dr.KK Kailash had elaborated "motive" of research but which can also affect in research ethics. Motive of research is due to professional requirement, degree, employment, promotions and recognition, ranking and funding etc. He also mentioned about Rationalisation and Responsibility of Research- data should be more transparent to the public, more transparency will be more productivity of research and explained about "FAIR" – Findable, Accessible, Interoperable and Reusable. These four (FAIR) makes more transparency in data and advantages of transparency and also discussed about Resolving Ethical Dilemmas by three responses/sins/issues –
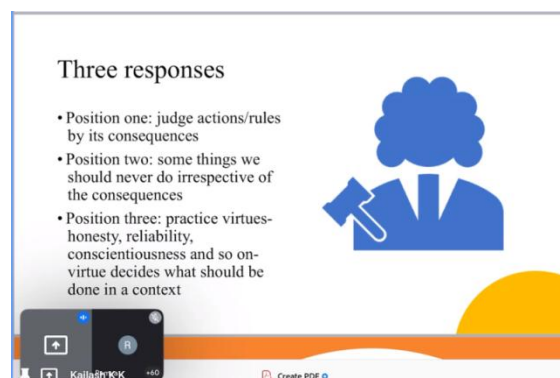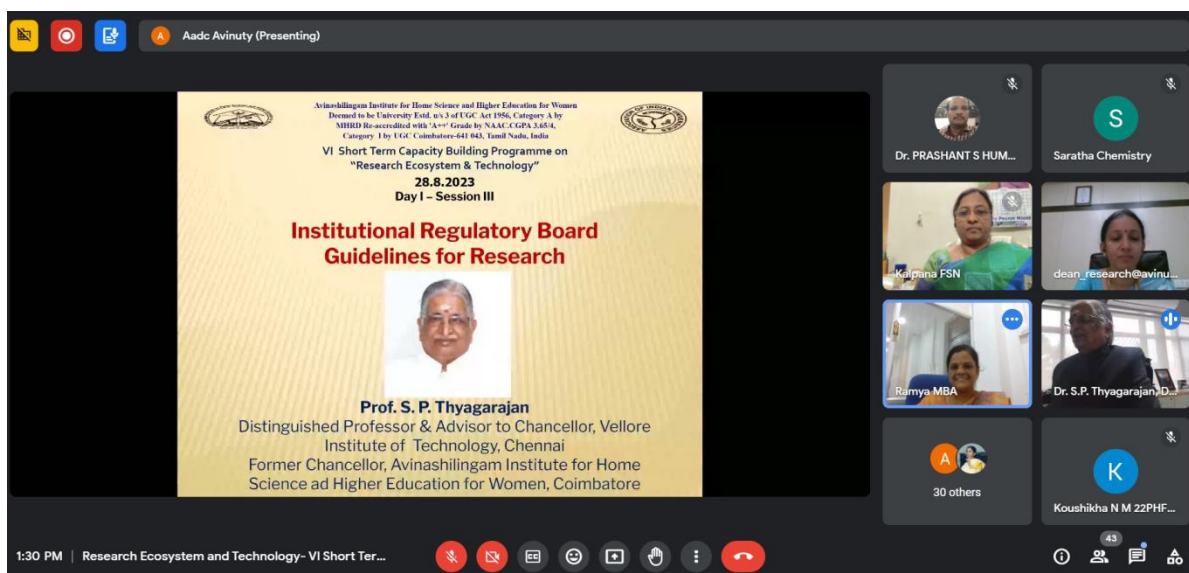

Session III

INSTITUTIONAL REGULATORY BOARD GUIDELINES FOR RESEARCH

Prof.S.P.Thyagarajan, Distinguished Professor & Advisor to Chancellor, VIT Universities

Professor started with the History of Research-started from World War II and explained about Gas Experiment, Freezing Experiment. The Evolution of Research Ethics was explained in a brief manner stating the codes, Guidelines and regulations developed to observe the rules of the road for research involving human participants. He also explained about the Council for International Organizations of Medical Science (CIOMS) Guidelines – Informed consent, research in developing countries, protection of vulnerable populations, distribution of the burdens and benefits and role of ethics committees. sir mentioned about Fundamental Ethical Principles to Local Guidelines and Guidelines of Bio-Medical Research involving human subjects should be based on 4 ethical principles i.e., Autonomy, Beneficence, Non-maleficence, Justice. Professor elaborated that it is mandatory that all proposals on biomedical research involving human subjects should be cleared by appropriately constituted Institutional Ethics Committee(IEC) / Institutional Review Board(IRB) and mentioned about the four phases of clinical trials.

Session IV:

FACILITIES FOR RESEARCH AND DESIGN EXPERT SOFTWARE

I had the privileage of highlighting the facilities of Research in India and also Research facilities in our University and mentioned about I STEM, Turnitin and Researgence software and also highlighted Information management system to help scholars for selection of journals. A short video of Research facilities available in our university (Prof. C.N.R Rao Centre, Advance Research Laboratory, Textile Production Laboratory and other PG and Research Laboratories) was projected by Dr.Lalitha.

Ms. PonNivetha, Research Scholar, Department of Chemistry, explained about Response Surface Methodology (RSM) using Design Expert (DoE) version 13. She explained DoE as structural method for studying a product, process or system and demonstrated about optimization with appropriate examples.

Ms.PonNivetha also explained about methods of experimentation, types of DoE, principles of RSM and its advantages – systematic, rigorous, less laborious, saves time and money, ensures formulation qualities, reduces wet lab trials and showed a short video on how to do optimization by using DoE software with examples in various fields.

Pre-assessment questions (form) were sent to all the participants before the sessions and feedback link was sent after each session.

Facilities for Research in India

- Some facilities in India include
- Research Universities
- National Laboratories
- Medical Research
- Space and Astronomy:
- Biotechnology
- Agricultural Research
- Environmental Research
- Archaeological and Historical Research
- Scientific Equipment and Laboratories
- Funding Agencies: Various government bodies and funding agencies, such as the Department of Science and Technology (DST), Department of Biotechnology (DBT), and University Grants Commission (UGC), provide financial support to research projects.
- Libraries and Archives
- Supercomputing Facilities:
- Innovation and Incubation Centers

https://www.istem.gov.in/rd-infrastructure-map/software-through-istem

Information Management System

- **Research management - e-campus software**
- **institutional software -11 modules including research**
- **module to collect and manage research-oriented information, databases, publications, research projects, fellowships, collaborations, patents, thrust areas, innovations etc. aligned with the institution's research policies**

Response Surface Methodology (RSM)

- RSM explores the relationships between several explanatory variables and one or more response variables.
- The method was introduced by George E. P. Box and K. B. Wilson in 1951.
- The main idea of RSM is to use a sequence of designed experiments to obtain an optimal response
- With RSM, a series of full factorial designs are run to map response and generate mathematical equations

- Design of Experiments
  - Customize trial runs
  - Minimize number of trials
  - Saves time, resource, money
- Significance
  - Predict contributing parameters
  - Get relative significance of each factor
  - Know the type of effect (+ve/ -ve)
- Optimization tool
  - Get the maximum, minimum or a desirable outcome

29th August 2023 - Day 2

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VI Short Term Capacity Building Programme on
"Research Ecosystem & Technology"

Day 2 sessions in Brief

Day 2 – Session I Conducting Review of Literature using R programming and simple referencing methods
Dr.Kuralarasan Kumar Ghent University, Belgium
Day 2 – Session II-Turnitin and Grammarly Software Ms.J.Geetha, Information Scientist, Avinashilingam Institute
Day 2 – Session III- Open Research Dr. M.V Subha, Anna University Regional Campus, Coimbatore
Day 2 – Session IV-"End Note Magic: Research Management Unleashed"
Dr. Fazlunnisa. H Ph.D
Assistant Professor, Department of Library & Information Science, University of Madras

Session 1: Tools for Data Collection

Resource by Dr Kuralarasan Kumar, Ghent University, Belgium

Dr Kuralarasan Kumar is a postdoctoral fellow in quantitative criminology at the Institute for International Research on Criminal Policy (IRCP), Ghent University. His research focuses on location choice of offenders, spatial and temporal patterns of crime, crime prevention, community policing and fear of crime. His expertise in utilizing statistical tools for his research study was envisaged from his deliberations on two very update tools for research referencing software namely 'Zotero' and the 'R software'. A demonstration of the utility of both the software was done online by the speaker.

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VI Short Term Capacity Building Programme on
"Research Ecosystem & Technology"

29.1.2023
Day II – Session I

Conducting Review of Literature using R programming and simple referencing methods

Dr.Kuralarasan Kumar
Ghent University, Belgium

Session 2: Turnitin and Grammarly Software

Resource by Mrs. J.Geetha
Information Scientist, AVINUTY

The utilization and benefits of Turnitin with special focus on plagiarism and Grammarly software for text check in preparation of a scientific article was explained by Mrs.Geetha.

She clarified all queries of participants

Question asked by Participants
1. Does turnitin has the option to find out?
2. Can Turnitin's AI feature identify any assistance that is provided by grammarly?
3. Which is better Quillbot/Turnitin?
4. Does the software team have access to our material? what about the confidentiality of the reports that are uploaded in Grammarly?
Currently our scholars are submitting manuscripts for similarity check. Will the language correction also be additionally given to them along with the report?

5. What about when the thesis is already uploaded in the plagiarism checker and thereafter the research papers from that very thesis comes out to be plagiarised? How to avoid that?

6. Can we remove self plagiarism in turnitin?

7. Has Grammarly signed NDA with us during the purchase?

Session 3: " Open Research"

Resource by Dr M.V.Subha

Associate Professor

Department of Management Studies

Anna University Regional Campus, Coimbatore

Dr M.V.Subha, Associate Professor, Department of Management Studies, Anna University Regional Campus, Coimbatore presented a vivid talk on Open Research and its significance.

The advantages, disadvantages and barriers to open access publishing were also elaborately discussed.

Question asked by Participants

1) What is impact factor, what criteria is there for good impact factor of a journal?

2) Any journal which is online is considered as open access journal?

3) What is your suggestion to young researchers in choosing the right journals that stay in indexed databases?

4) Is using Chat GPT safe?

Session 4: " End Note Magic- Reference Management Unleashed"

Resource by Dr Fazzinussa

Asst.Prof., Department Library Information and Science, University of Madras

Dr Fazzinussa, Asst.Prof., Department Library Information and Science, University of Madras introduced Clarivate Analytics and End Note Software Management with a demonstration of the software. She talked on the popular styles of citations with examples.
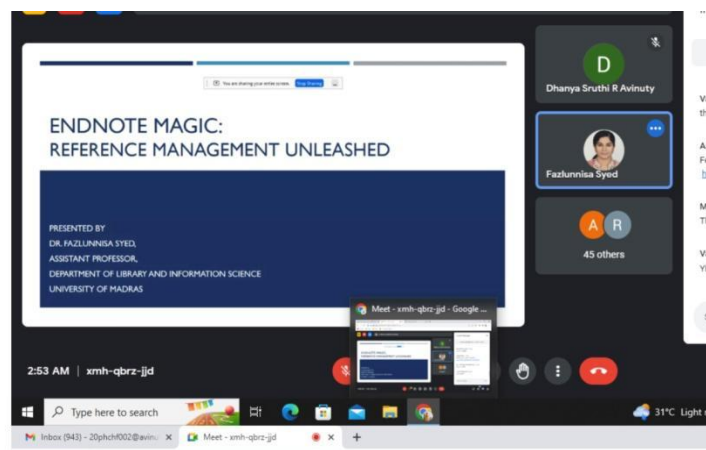
Question asked by Participants

- Is reference writing styles and citations style is same?
- Is endnote free of cost? or we have to purchase

- On the basis of impact factors how can we identify the good journals? is there any range of impact factors
- how can we improve our citations no.
- how much does it cost to access web of science?....as an individual attempt
- Some journal require to cite in terms of numerical instead of by author name, so what should be done in reference manager?
- can you please share insight on paraphrasing

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VI Short Term Capacity Building Programme on
"Research Ecosystem & Technology"

29.8.2023
Day II – Session IV

"End Note Magic: Research Management Unleashed"

Dr. Fazlunnisa. H
Assistant Professor
Department of Library &
Information Science
University of Madras

30th August 2023 - Day 3

**Avinashilingam Institute for Home Science and Higher Education for Women
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**VI Short Term Capacity Building Programme on
"Research Ecosystem & Technology"**

Day 3 Sessions in Brief

Day 3 – Session I *Researgence RIMS*
Shri.Cedric Joseph, CEO CIntelligence
Day 3 – Session II-*IPR, Patents and Copyrights*
Dr.Bharat N Suryawanshi
Assistant Controller of Patents & Designs
Day 3 – Session III- *Statista: Research database*
Shri.Stani John, Statista India Private Limited DLF Phase 5, Gurugram, Haryana
Day 3 – Session IV-""*Literary Research Trends: Doing Environmental Humanities"*
DrPramod K. Nayar Professor, Department of English, University of Hyderabad

Session 1 - 9.30 - 11.30 AM

Researgence RIMS by Shri. Cedric Joseph M, CEO C Intelligence

The session commenced with Shri. Cedric Joseph extending a warm welcome to all

attendees, including dignitaries, faculty, staff and research scholars. He briefly narrated his

journey, from starting as a patent consultant to expanding into research and publication analyst.

The speaker emphasized the significance of intellectual property, especially patents, as means to protect and give ownership to creative ideas. He explained how companies like C

Intelligence assist R& departments in assessing the patentability of new ideas. During the presentation, he touched upon the connection between patents and publications. He highlighted that choosing to become a research scholar signifies a commitment to independent research, innovation, and creativity. He emphasized the need for in-depth knowledge in the chosen research area and discouraged shortcuts facilitated by search engines like Google. He stressed the importance of critically reading research papers, respecting the contributions of others while identifying

gaps that your work can fill. He mentioned the significance of applying suitable research methods and rigorously exploring problem-solving approaches. The speaker continued the session by introducing the National Institutional Ranking Framework (NIRF), a ranking system established by the Government of India to assess research organizations in the country. The calculation for quantitative research was outlined briefly, underscoring the importance of both publication and citation metrics in determining an institution's ranking.

Continuing the presentation, he discussed the significance of Web of Science and Scopus as authentic sources for accessing journals. He then introduced the institutional research repository called "Researgence" which was developed by C Intelligence in response to a mandate from the Chancellor, Dr.S.P.Thyagarajan. The purpose of "Researgence" is to create a comprehensive platform for storing and accessing research works from institutions. He briefly explained its features and "Journal Book," an integrated intelligence tool designed to provide information about journals. He demonstrated how Journal Book presented an in-depth overview of journals, including indexing, scores, impact factor, publication details, and quality metrics.

This tool assisted researchers in selecting appropriate journals for their work, promoting international collaboration and further research opportunities. He cautioned researchers about predatory journals and cloned journals, encouraging them to stay informed and choose reputable publishing options.

During the Q&A session, participants actively involved in seeking further insights into

patent consulting, publication strategies, and challenges in pursuing a PhD. In conclusion, the speakers insightful presentation shed light on the critical aspects of research metrics and journal selection, aiding participants in understanding how to make informed choices in their academic endeavors.

Take away from the Session:

- Choosing reputable journals indexed in databases like Scopus and Web of Science is crucial for a higher NIRF ranking.

- Researchers should be cautious about predatory and cloned journals, making informed decisions about publishing.
- Scholarly outcomes encompass patents, products, and scientific publications, with eachcontributing to the growth of knowledge and innovation.

Session 2 - 12:30 - 1.30 PM

IPR, Patents and Copyrights

Dr. Bharat N. Suryawanshi

Assistant Controller of Patents and Design, RGNIIPM, Nagpur

The meeting commenced with an introduction to the organization of Patent offices and training centers located in various cities in India, including Kolkata, New Delhi, Mumbai, and Chennai.

He highlighted the availability of resources on the official website and encouraged participants to explore them to gain insights into intellectual property rights (IPR). The organizations social media platforms were also mentioned as sources of updates on programs and events. The main topic of the meeting was "Intellectual Property"; The presenter, Bharat Suryawanshi, shared a visual presentation symbolizing the birth of an idea in the mind. He defined intellectual property as the product of human creativity and thinking. He emphasized that any idea originating from the

human mind qualifies as intellectual property. For instance, a new novel is protected by copyright, new designs for products fall under intellectual property, and even innovative solutions for technical problems, such as herbal medicine for cancer, are considered intellectual property.

He highlighted the significance of human creativity and problem-solving abilities in generating intellectual property. Examples included innovative solutions for diseases, alternative energy sources like solar panels, and advancements in transportation such as electric vehicles. He explained that intellectual property encompasses intangible assets, in contrast to tangible possessions like cars or land.

Two primary categories of intellectual property were discussed: industrial property and copyright. Industrial property encompasses patents, designs, trademarks, and geographical indications (GI). Patents protect inventions, designs safeguard the visual appearance of products, trademarks distinguish brands, and geographical indications indicate the origin of products.

Copyright, on the other hand, safeguards original literary, artistic, and creative works. The meeting continued with the speaker providing additional insights into the process of granting patents and copyrights. He outlined the step-by-step procedures for obtaining patents and copyrights and addressed various queries from participants.

He described the process of patent examination and approval, starting with the filing of patent applications. He explained that after filing, applications undergo a

screening process and are classified based on subject matter. He concluded the session by encouraging participants to explore the different types of intellectual property, such as patents, copyrights, trade secrets, and designs. He emphasized the importance of utilizing the intellectual property system to protect and share innovations for the betterment of society.

Take away from the Session:
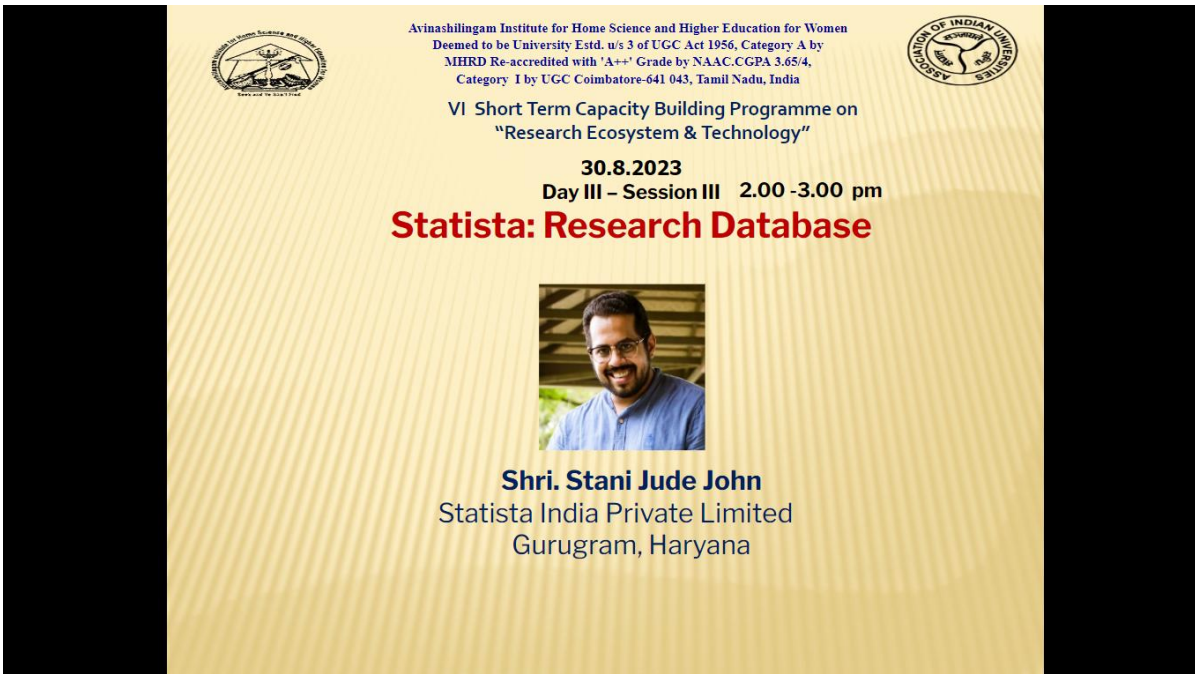
- Ideas, inventions, designs, and creative works are all forms of intellectual property.
- Patents and copyrights have distinct application and examination procedures.
- Copyrights are granted for original and new works.

Session 3 - 2:00 - 3:00 PM

Statista: Research Database

Shri. Stani Jude John

Statista India Private Limited, Gurugram, Haryana

The session began with Stani Jude John welcoming the participants and providing

information about the access they have to Statista for the next 10 to 12 hours. He emphasized that Statista provides access similar to a subscription during this time period, allowing participants to explore the platform and its features.
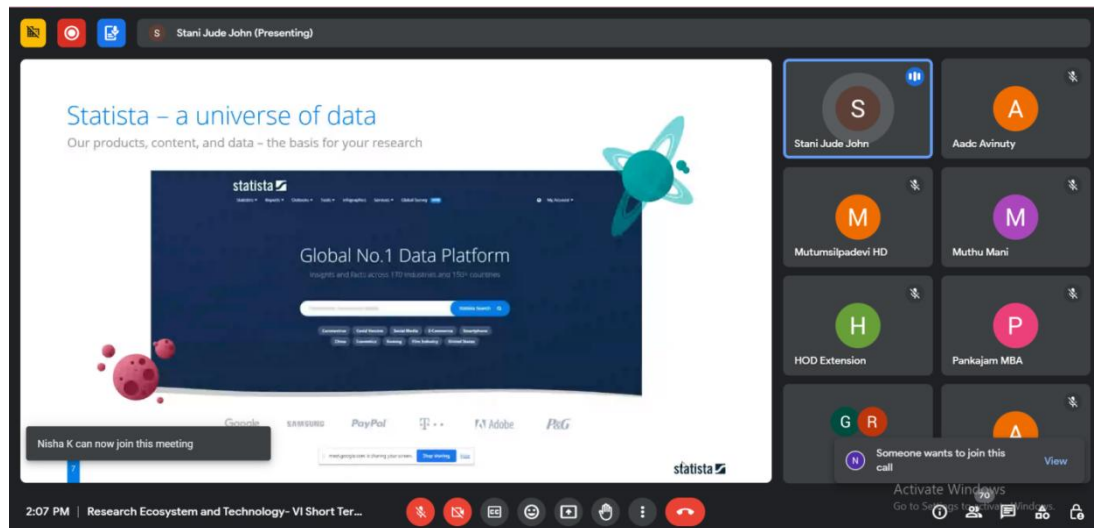
He discussed the major features of Statista, including statistics, reports, market insights,

and infographics. He noted that there are over 25,000 reports available on various topics, providing comprehensive insights. He explained that Statista offers a global database, enabling users to access content from various geographic regions.

He also mentioned Statista's diverse clientele, which includes universities, schools, private institutions, and even medical colleges. He showcased the wide array of industries covered by Statista, such as advertising, agriculture, finance,

economics, technology, and more. Regarding access, he highlighted that Statista provides unlimited campus access and also offers remote access to institutions without existing mechanisms. Users can download statistics in various formats, and Statista provides five different citation formats to ease the referencing process.

Stani Jude John concluded the session by addressing participants; questions and during the Q&A session, participants asked questions related to specific content access, statistical analysis services, and download limits. He clarified that the platform does not provide statistical analysis services but focuses on providing accessible and reliable data. He also explained the limited download restrictions during the trial period, assuring participants that the allocated limits were generous and unlikely to be exhausted quickly.

Take away from the Session:

- The live demo showcased how to access various types of content on Statista.
- Participants learned how to search for specific topics, access reports, and use filters.
- The platform offers features like downloading content in different formats and accessing source data.

Session 4 - 3:15 - 4:45 PM

Pramod K Nayar, UNESCO Chair in Vulnerability Studies,

Literary Research Trends: Doing Environmental Humanities, University of Hyderabad

The speaker, Pramod Nayar, began the session by acknowledging the growing

importance of environmental humanities as a discipline within the realm of humanities.

He pointed out that what was once considered a niche topic has now evolved into a

recognized discipline with dedicated journals, departments, and scholars worldwide. He emphasized the significance of understanding the fragility of the planet through visuals such as the iconic &;Blue Marble" photograph and real-time satellite images of environmental changes.
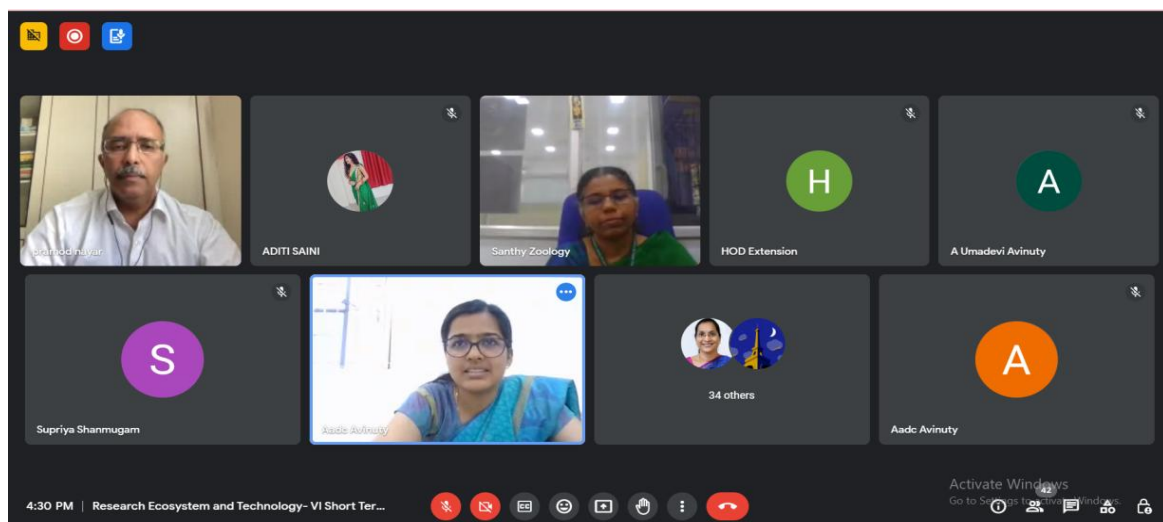
He highlighted the need to bridge the gap between the local and the global, as local issues often have global origins and implications. Discussing the literature of climate change, he underscored the importance of cultural responses alongside scientific

ones. He introduced the concept of "ecocriticism" as a means to explore ecological themes in literature, film, and other forms of cultural expression.

He further explored the ways in which environmental humanities address the complexities of human-nature relationships, the impact of climate change, and the ethical dimensions of environmental issues. He introduced the term "multi-species ethnography," which explores the interconnectedness of human and non-human life forms. He discussed the mutual influences, dependencies, and interactions that characterize these relationships. He used examples such as vultures and earthworms to illustrate how seemingly insignificant creatures play crucial roles in ecosystems. He emphasized that the disappearance of keystone species can lead to disruptions in the entire ecological chain.

The session concluded with the speaker's assertion that environmental humanities foster a new environmental imagination and explore concepts such as the Anthropocene and climate change fiction. He invited participants to engage with the broader interdisciplinary framework of the discipline, which encompasses economics, philosophy, geography, history, and more.
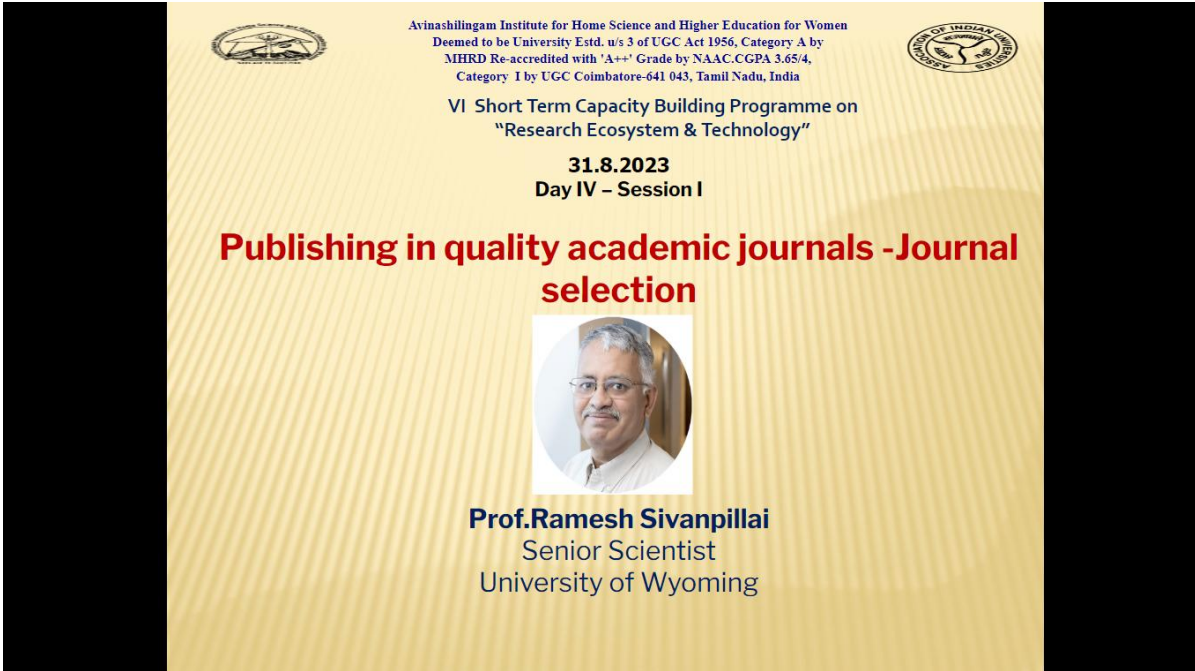
Take away from the Session:

- Cultural responses through literature, film, and art are essential besides scientific
- approaches to addressing climate change.
- Ecocriticism explores ecological themes in cultural expressions and emphasizes the importance of ethics and human-nature relationships.
- Multi-species ethnography delves the intertwined lives of human and non-human life forms, highlighting mutual influences and dependencies.
- Keystone species play critical roles in ecosystems, and their disappearance can disrupt

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31st August 2023 - Day 4

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SESSION 1 9.30-11.15am

Ramesh Sivanpillai, Senior Scientist, University of Wyoming

The co-ordinator of the session was Dr. S. Gandhimathi, Professor and Head, Department of Economics and Deputy Dean, School of Arts and Social Sciences. The guest speaker Prof. Ramesh Sivanpillai, Senior Scientist, University of Wyoming, honoured the session on the topic "Publishing in Quality Academic Journals- Journal Selection". The session addressed the audience about the importance of publishing articles in quality journals, identifying highly cited journals, benefits a researcher receives through publication, and getting funds for publication. Prof. Pillai gave clarification to the listeners about the peer-reviewed and non-peer-reviewed journals available for the researchers for their publication. Sir, also highlighted the importance of going for publication through a peer-reviewed journal.

Professor also shed light on identifying Web of Science journal and Scopus journal and clarified to the audience the Q1, Q2, Q3, and Q4 journal criteria and the variation that is there for both Web of Science and Scopus through this own friend

example. He also shared information about identifying the citation for articles and H-index and he also provided the difference between self-citation and total citation. He insisted on choosing the right journals and made awareness of predatory journals prevailing in the journal market for money. He guided the audience about starting an article and choosing the platform for publication. He answered all the queries raised by the audience in the session. Prof. Pillai`s presentation provided valuable insights into the intricacies of publishing in quality academic journals. Leveraging his extensive experience, her shared the key factors that contribute to successful journal selection and offered valuable advice on navigating the academic publishing landscape. The session was ended through a Vote of thanks provided by Dr. S. Gandhimathi.

Take away from the session

- Understanding the current research ecosystem
- Significance of journal selection
- Factors influencing journal selection
- Role of technology in the current research scenario
- Empowerment of successful publication
- Identification of web of science and Scopus journal
- The reality of Q1, Q2, Q3 and Q4 in journal
- Creation of Orchid ID, Citation, and H-index.

Session II 11.15-12.45 pm

The session began at 11.00 A.M having Ms. C. Akhila, Ph.D. scholar, Department of Chemistry hosting the event and Dr.S. Gandhimathi, Professor and Head, Department of Economics and Deputy Dean of Arts and Social Sciences welcoming the audience and the guest speaker of the day Dr. Shubhada Nagarkar, Department of Library & Information Science, Savitribai Phule Pune University. The guest speaker enlightened the audience on the topic "UGC Care listed Journals and Communicative Research". The session started with a warm introduction by the author about the UGC care journal specification and the importance of having

manuscripts published in the care list journal. She highlighted open-access journals,types of functions, and functions of journals in the research society.

Professor brought to the knowledge of the audience the types of communication in

which she threw insights about journal articles, comments, book chapters, editorial board, etc. She also brought to light the norms and conditions prevailing in UGC CARE listing and the criteria and categories of the journal. She informed me about the process of structuring research papers to get maximum output. Madam also informed the audience about the ways of writing impactful publications and shared insights about the selection criteria and peer-review process for UGC journals. Through the session, the speaker clarified the audience related to various queries namely creating clarification regarding the databases that are not included in the UGC care list, updating of UGC care list journal and periods, API score, how UGC includes new journals and article submission charges with the predatory journal.

Overall the session has enriched the audience about publication in UGC care journals. Finally, the session ended with a vote of thanks by Ms. Akhila and Dr. Gandhimathi.

Takeaway from the session

- Understanding UGC CARE listed journals
- Effective research communication
- Writing impactful publication
- Ethical consideration in research
- Need and importance of peer-reviewed journal
- API score of a journal
- Predatory journals and cloned journals

SESSION III 1.30-3.00pm

The third session for day 4 is on 31.08. 2023 was handled by Dr. P. Lalitha, Director, R&D, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in the afternoon session from 1: 45- 2:30. Welcome address was delivered by C. Akhila, Research Scholar, Department of Chemistry. Dr. P. Lalitha briefed on the title "Selection of Right Journals". Selecting the right journal for your research involves considering factors like scope, audience, impact factor, and reputation in your field. Start by identifying journals that publish articles similar to your research topic. Evaluate their aims and scope to ensure alignment. Check the journal's impact factor and indexing in databases relevant to your field. Also, consider the speed of publication and open-access options. Mam showed a virtual demonstration of logging into the UGC portal and identifying the apt journals from the list provided for various disciplines in UGC Care List 1 and UGC Care List 1 and UGC Care list. Madam highlighted to the audience that the UGC CARE list categorizes journal groups based on their quality and credibility and advised the scholar to make sure to search for their desired journal title or ISSN to see if it's included in the UGC CARE list. She glimpsed about the tips for getting our paper published quickly and the causes for journals rejecting our papers. Mam provided suitable ways to make the paper more evitable and preventative. The resource person gave a complete idea of selecting the right journals. Mam has guided the research scholars to take a step in publishing their works in quality journals so that their works are valued and get published in the right ones. Scholars raised their queries and there was an interactive session. A note of formal gratitude was conveyed by C. Akhila.

Takeaway from the session

- UGC CARE I and II group journal
- Avoiding predatory journal
- Official site to check for journal
- Choosing a journal based on the stream of education
- Importance of having an article published under UGC Care.

1ˢᵗ September 2023 - Day 5

Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by
MHRD Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4,
Category I by UGC Coimbatore-641 043, Tamil Nadu, India

VI Short Term Capacity Building Programme on
"Research Ecosystem & Technology"

Day 5 Sessions in Brief

Day 5 – Session I -Supporting early – career researchers: Grants and Fellowships
Dr.Anita Aggarwal, Head, TDT
Day 5 – Session II- Researcher to Entrepreneur
Dr.Pavithra V R , CSIR Fellow, Entrepreneur
Day 5 – Session III- Multidisciplinary Skills in Achieving Sustainable Development Goals
Prof.Wong Ling Shing, Pro Vice Chancellor
Professor in Biotechnology,INTI international University,Malaysia
Day 5 – Session IV-Valediction and Special Address
Dr.HemanthKumar Aiyer
Senior Lead Scientist , Aditya Birla Science & Technology Centre
Mumbai, Maharashtra

Session I: 9.30-11.00am

Session I   01/8/2023 @ 10.00 am – 12.00 pm

Supporting Early- C,areer Researchers: Grants and Fellowships

Dr.Anita Agarwal, Head, TDTThe first session of Day 5 was on Supporting early career researchers by Dr.Anita Aggarwal, Head, TDT of DST .

Madam spoke on contextual referencing of STI policy , research funding agencies in India, need to enhance quality and relevance of R&D, translation, connecting academia and rnd labs, industry , startups MSMEs and ministries.
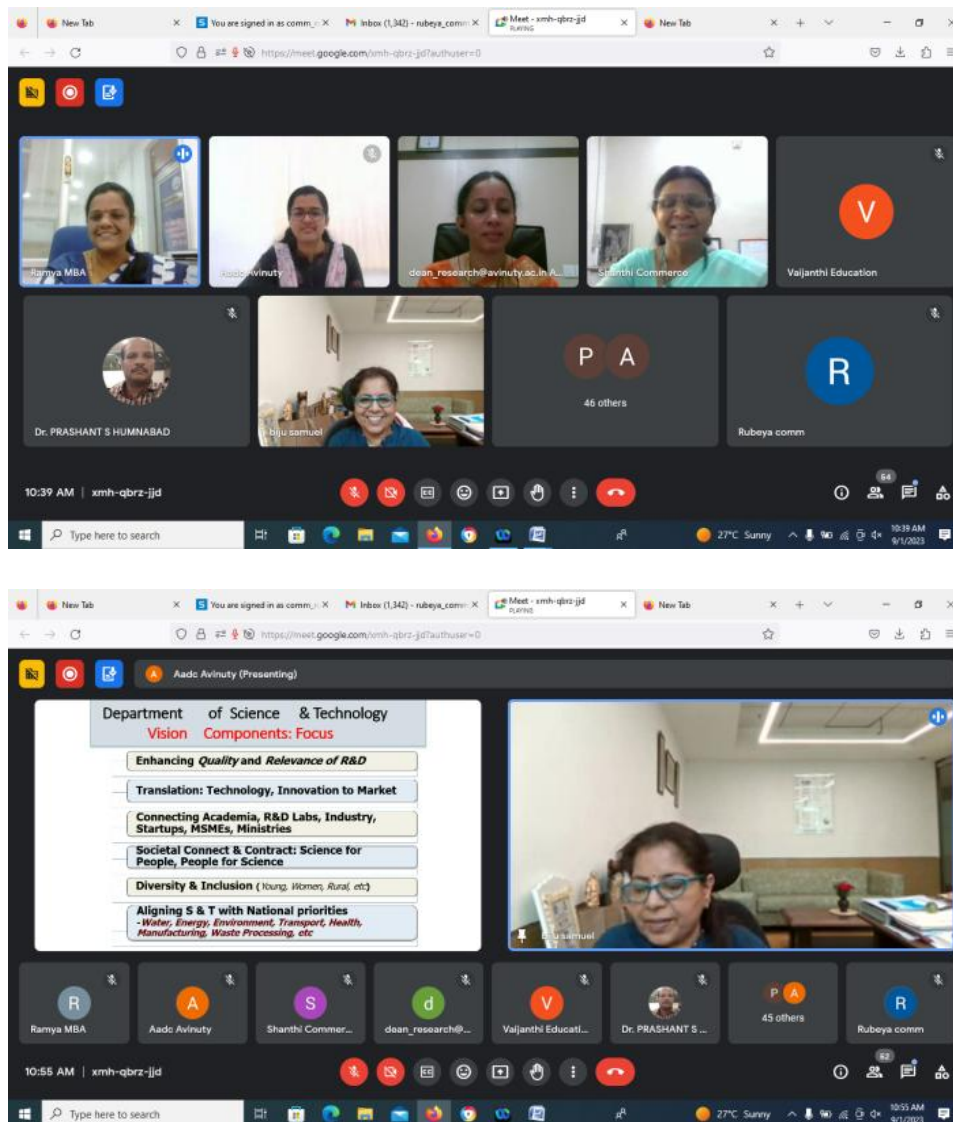
The speaker also highlighted the efforts of DST in promoting research, the supply chain in dst for technology development, Technology developemtn programmes, About technology enabling centres and avenues for funding.

Dr.Anita Agarwal initiated her speech on Developing Innovation Capacity and Capability. Science, technology, and innovation (STI), as well as capacity-building, are critical ways of achieving the Sustainable Development Goals (SDGs). The STI Policy will strive to develop a new regulatory framework for data access and sharing, as well as for the production and transfer of intellectual property rights. The new

policy framework will allow for strategic alliances and partnerships with other countries through bilateral and multilateral cooperation in research, technology, and innovation.

In order to support early career researchers, the Department of Science and Technology has established a vision such as Enhancing the quality and relevance of R&D, Translation: Technology, Innovation to Market, and Connecting Academia, R&D labs, Industry, Startups MSMEs, Ministries, Diversity and Inclusion. The DST support chain for technology development has been stressed, with numerous organizations/programmes such as Science and Engineering Research Board (SERB), NSTEDB, Technology Development Board (TDB), and Technology Information, Forecasting and Assessment Council (TIFAC) each having a separate activity that supports researchers with the latest technology. TRL 3 to 6 will be able to demonstrate in technology development. Various technology development programs, such as Advanced Manufacturing Technology, Waste Management Technologies, Biomedical Device and Technology Development Program, Technology Development, and Technology Enabling Center, has been developed to focus on disaster Management.

With a budget of Rs 240.75 crores, the Technology Development Project was launched in 2018-20. The project takes an average of 2-3 years to complete. So far, 326 projects have been completed, with 250 programs still under progress. Around 600 people have been trained and profited from this initiative. She also shared her vision for building TECs in the university system. To bridge the gap between technology creation and incubation activities in universities, and to increase technology outflow by playing a catalytic role, among other things. She also explained about the patent facilitation cell which was established for the purpose of facilitation to file the patents.

NEP 2020 focused on ways to improve the quality and quantity of research. How to do high-quality interdisciplinary research across disciplines and develop solutions to societal problems. NRF fosters a strong research culture while also increasing research capacity across higher education. Equipping students, instructors, and educational institutions with the necessary competencies and capabilities, as well

as creating an enabling and revitalized educational eco-system for a thriving India. The grant cycle for the research, including how it is supposed to function and how it actually works, was explained. In addition, the evolution of intellectual freedom to do research has been emphasized.

The planning and execution of a SMART research proposal have been thoroughly outlined. The steps for writing a research proposal were well described. Planning is essential while creating a research proposal. Innovative ideas with proof, a good team of collaboration, and a clear indication of the idea on the title, as well as a timeframe, will undoubtedly result in a strong research proposal. Some guidelines to follow while drafting a research proposal include finalizing the research questions, developing a logical proposal, identifying flaws in the research design, and accepting criticism. Common flaws in proposal writing include poor writing quality, failure to allude to major developments, insufficient resource mapping and budgeting, proposals that are too long or too short, and insufficient information.
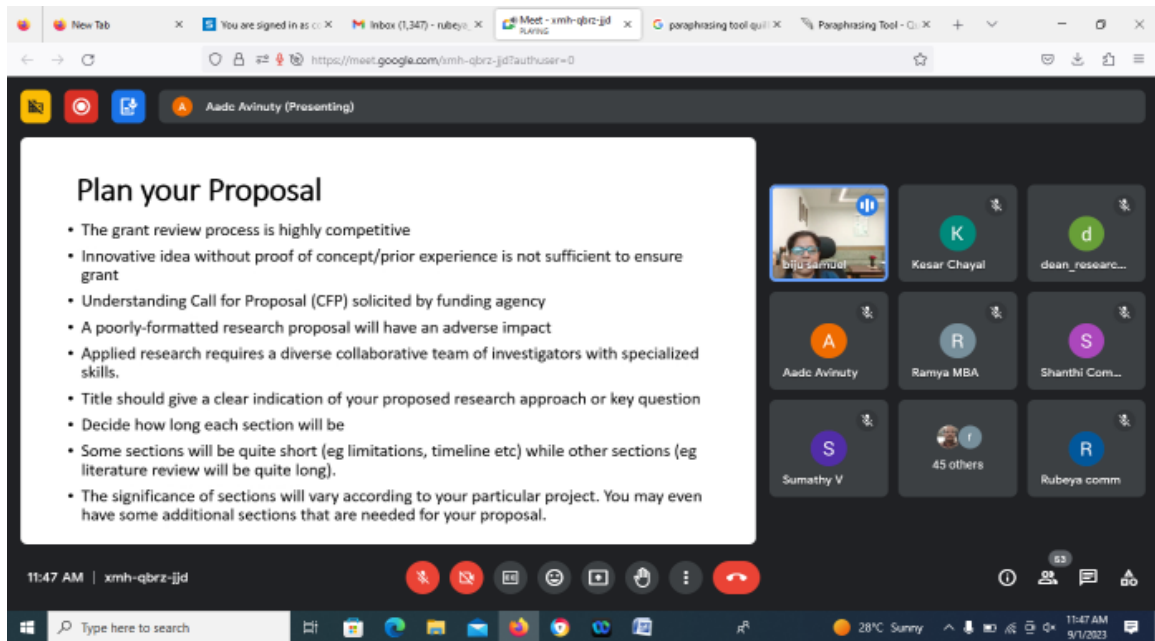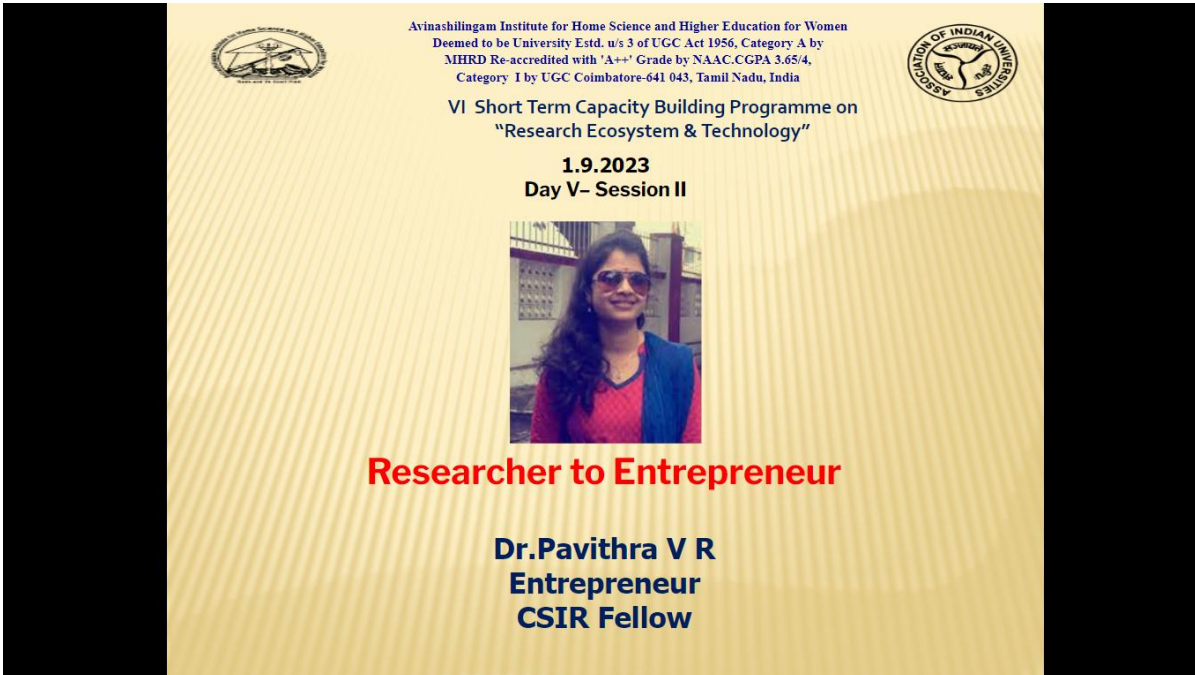
Finally, she explained how to submit a strong research proposal by following the format specified by the funding agency, highlighting the goal of the context, research questions, objectives, and methodology within 2 -5 minutes. Provide a clear budget justification, followed by a discussion of the long-term impact and future direction.

Session II: 01/8/2023 @ 10.00 am – 12.00 pm

Researcher to Entrepreneurs

Dr.Pavithra Ravi, CEO
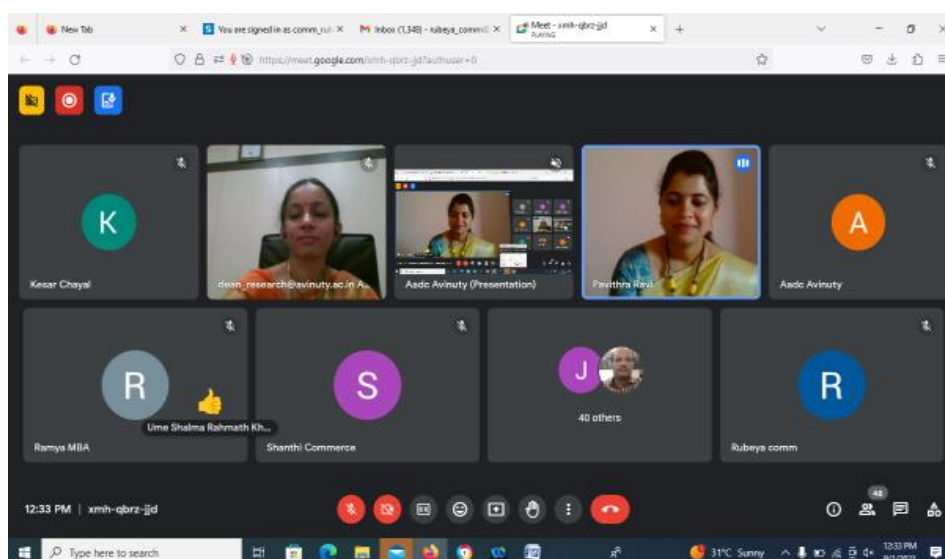
The second session was on the topic entrepreneur to researcher by Dr.Pavithra V R , CSIR Fellow and Entrepreneur who enlightened the attendees on the incudbation procedure, role of incubators, Second session was on Researcher to Entrepreneur by Dr.V R Pavithra CEO of Frontoclub and Founder of @atom and a CSIR Fellow. The session was on how an researcher can be an successful entrepreneur and the steps one needs to follow to initiate a start up and marketing.

It was a eye opener session on Incubatin, roles of incubate and support shcemes for start ups. The speaker also gave solutions to the general challenges in start ups.

Dr Pavithra began her presentation by discussing the flow of innovation in business. How a thought becomes an idea, how an idea becomes a product, and how it reaches the market and ultimately the customers. The distinction between researcher, businessman, and entrepreneur was emphasized: a researcher is someone who imagines, develops, and creates a validated innovation; a businessman is someone who watches market trends and sells the innovation; and an entrepreneur is someone who performs both roles of businessperson and researcher. A fresh idea will always have a push and pull effect in terms of validation and vision for success..

The vision and mission serve as a foundation and backbone for reaching the final target. The key of businesses is to focus on money motive and product development, whereas entrepreneurs think about the future and will follow retro style. The incubator's importance has been highlighted through offering lab space, mentorship, networking, and resources.

Angel investors, venture capitalists, incubators, and banks loan are all part of the startup support system. TANSEED and IVP are two government funding bodies from the state government. Start Up India, BIRAC, DST, MSME, and MHRD are a few central government funding agencies.

She continued by sharing several well-known startups such as OLA, Swiggy, Paytm, Zomato, and others, as well as some interesting startups such as Bakeys, Scentra, Potato parcel, Mokshshil, and others. India's GDP will provide more than 24% of yearly growth from 2022 to 2027, and the country is ranked third in the world.
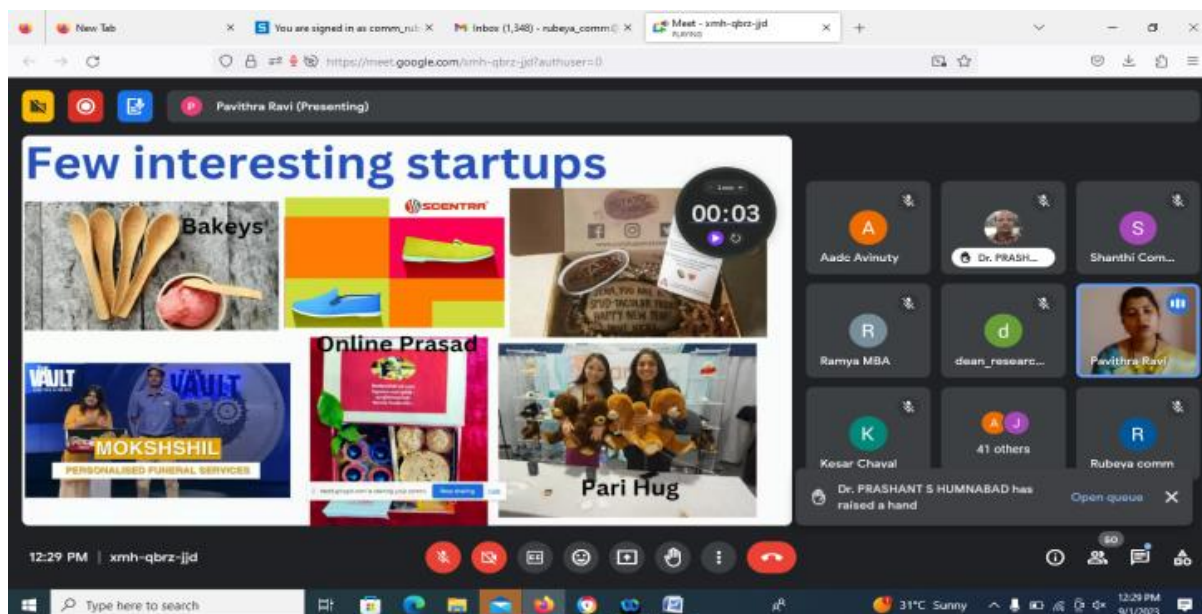
Session III 1.30-3.00 pm

Session III
01/8/2023 @ 1.30 pm – 3.00 pm
Multidisciplinary and Interdisciplinary Research in Achieving Sustainable Development Goals
Prof. Wong Ling Shing
Professor in Biotechnology, INTI, International University, Malaysia
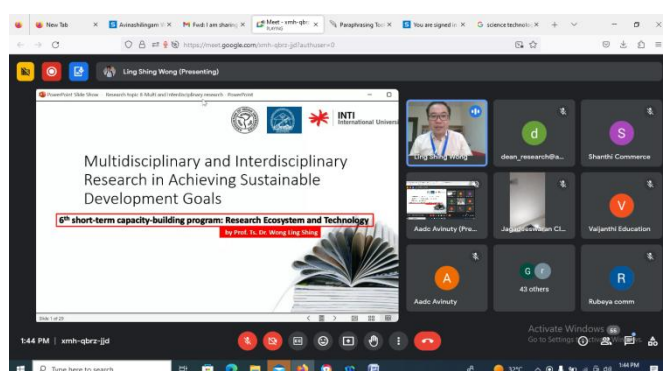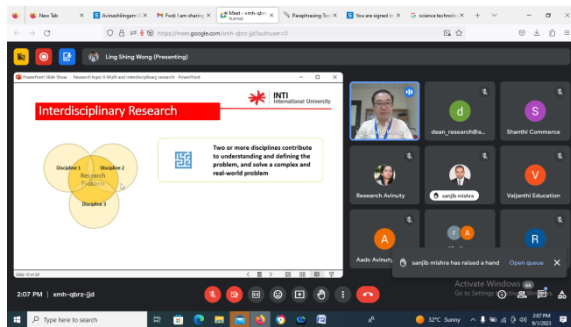
Prof.Wong started the session by introducing Multidisciplinary research. Two or more disciplines contribute to understanding, defining, and solving a portion of a complicated problem. Multidisciplinary research involves experts from several fields working on linked topics, but not as closely as in some research challenges. Experts, distinct expertise, parallel work with own ways, shared aim, limited interaction, independent contribution, and broad approach are some of the features of multidisciplinary research..

To design a smart health monitoring service, research health parameters that need to be monitored, electrical and electronic engineering to design the hardware and sensors, software development to create applications that connect hardware, medical science, and user experience and ergonomics design are all necessary. Another example of how specialists from various professions collaborate to discover, test, and manufacture a new plant-based therapy has been provided.

The skills required to conduct multidisciplinary research include in-depth knowledge of the specific field, effectively sharing findings and insights within one's field, focusing on one's area of expertise, working within a limited integration, strong techniques with one's discipline, working efficiently, and good coordination..

In interdisciplinary research, two or more disciplines collaborate to tackle a difficult and real-world problem. Interdisciplinary research is distinguished by the combination of experts, the mixing of knowledge, interaction, the blending of methodologies, synergy, holistic understanding, real-world problems, and communication abilities. The differences between multidisciplinary and interdisciplinary were explained.

He discussed the procedures for food security through sustainable agriculture and the benefits received from it to environmental scientists, agronomists, policy experts, social scientists, economists, and bio technologists. To ensure clean water access in impoverished nations, water purification must be developed, and policy experts must support sustainable use of clean water. A research of waterborne

diseases and their sources should be conducted. It is necessary to develop a hygiene and sanitation education program as well as to comprehend community behavior.

The skills inherit to do a interdisciplinary research is integration, holistic thinking and effective communication, synthesis, collaboration, open mindedness' and problem solving . Some of the sustainable goals are no poverty, zero hunger, good health, quality education, gender inequality, clean water, clean energy, decent work etc to be achieved through interdisciplinary research.

Session IV
01/09/2023 @ 3.15 pm – 4.15 pm
Valedictory Address
Dr. HemanthKumar Aiyer
Senior Lead Scientist & Technology Centre, Mumbai, Maharshtra, India

Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD
Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC
Coimbatore-641 043, Tamil Nadu, India

# VI Short Term Capacity Building Programme on Research Ecosystem & Technology
Organised By

AIU – Avinashilingam Institute – Academic and Administrative Development Centre (AIU-AI-AADC) & Research and Development Cell
Date: 1.9.2023 Time: 3.15 pm
Agenda for Valedictory Session

Prayer

Welcome Address

Dr. K. Ramya
Nodal Officer, AIU-AI-AADC
Avinashilingam Institute for Home Science and
Higher Education for Women, Coimbatore

Report of 5-Day Programme

Dr. P. Lalitha
Director R&D
Avinashilingam Institute for Home Science and
Higher Education for Women, Coimbatore

Valedictory and Special Address

Dr. HemanthKumar Aiyer
Senior Lead Scientist
Adity Birla Science & Technology Centre

Vote of Thanks

Dr. P. Santhi
Dean, School of Commerce & Management
Avinashilingam Institute for Home Science and
Higher Education for Women, Coimbatore

National Anthem

On 1st September 2023 at 4.00 p.m. valedictory session started with blessings of God Almighty, Dr.T.S.Avinahilingam Ayya Avargal and Dr. Rajaammal P.Devadas Amma Avargal with a prayer song. Dr.K.Ramya, Nodal Officer, AIU-AI-AADC, welcomed the
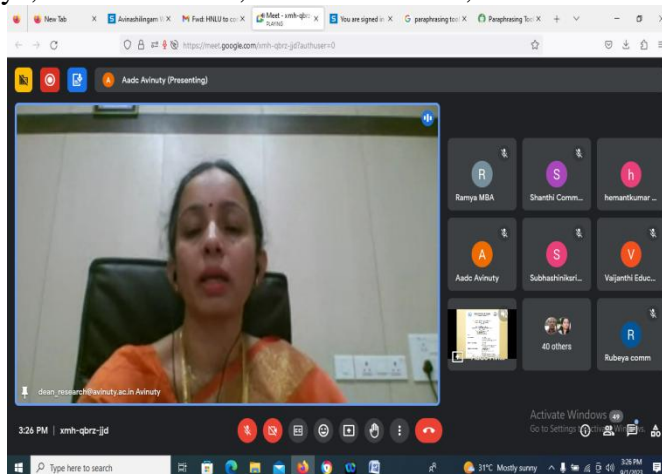
gathering   with   insightful   thought.
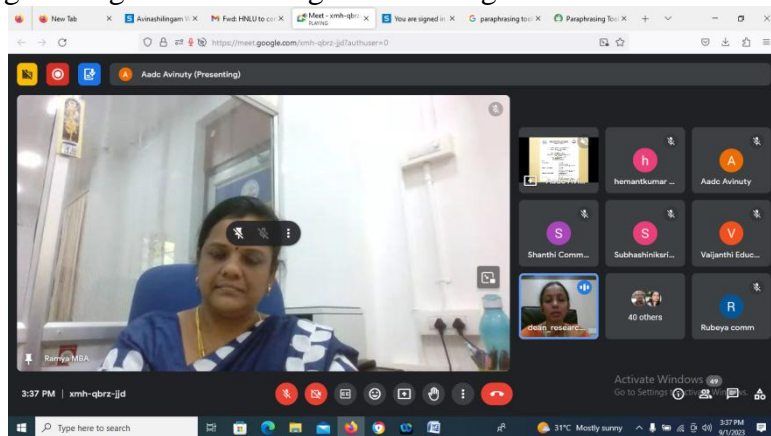
The sixth short-term capacity building program report on "Research Eco-System and Technology" was presented by Dr.P.Lalitha, Director R&D. She noted that 75 participants from diverse education have benefited through this workshop and all session speakers thoroughly discussed the theme, making it a fruitful, practical, and timely program.

The valedictory address was given by Dr. HemanthKumar Aiyer. He intiated the research process and its implications for technologies such as data gathering, cloud computing, AI, ML, data analytics, and so on. To develop writing skills, researchers must engage in broad, comprehensive reading practice, seek criticism, participate in workshops, and clarify concerns using reliable, authoritative sources and references. Conflicts of interest and plagiarism should be avoided by researchers in order to encourage ethical research. Patents, copyrights, trademarks, and trade secrets were highlighted as examples of intellectual property rights. He emphasized that interdisciplinary collaboration is the most important prerequisite for the hour.

Discoveries and innovation have been classified into three domains: basic research curiosity (16%), applied research solution (50%), and societal development (34%). The distinction between invention and innovation was discussed. Innovation formulae are creativity multiplied by risk taking. TRL levels were explained in stages. He closed his address by reflecting on the Stanford rankings and the percentage of GDP spent on R&D by the United States, China, India, and Israel. India provides 0.7% of the total.
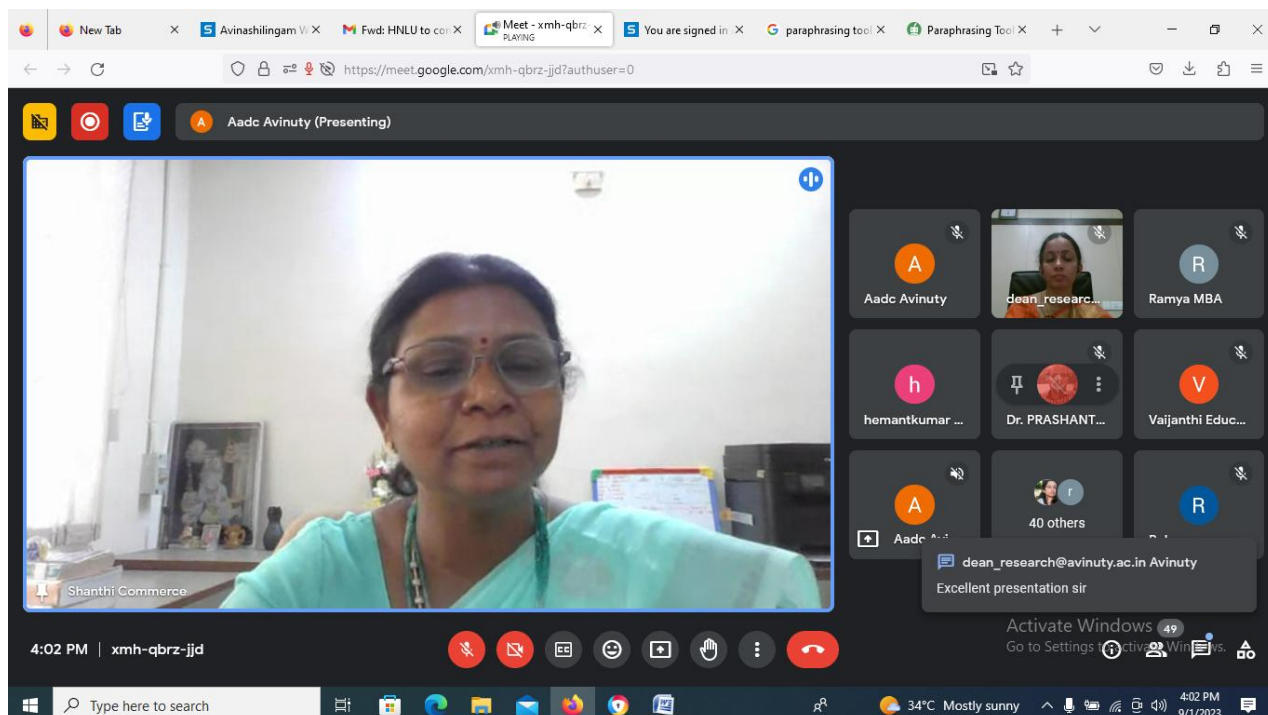
Dr.P.Santhi, Programme Coordinator, Dean, School of Commerce and Management has expressed her heartfelt gratitude to the chief guest and dignitaries for spending their important time and sharing their experiences with the participants.

Sample certificate issued to participants

Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd.u/s 3 of UGC Act 1956, Category A by MHRD
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4,Category I by UGC
Coimbatore-641043, TamilNadu, India

**AIU - Avinashilingam Institute - Academic & Administrative Development Centre (AIU-AI-AADC)
&
Research and Development Cell**

Certificate No: AIU - AI – AADC/ 2023 – 2024 / 06/ 001

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./ Mrs./ Ms./ Dr. XXXXXXXXXXXXXXXX
Designation, Department
Institution

has participated in the Sixth Short-Term Capacity Building Programme on
Research Ecosystem and Technology conducted by
AIU - Avinashilingam Institute – Academic & Administrative Development Centre
(AIU - AI- AADC) & Research and Development Cell from
28/08/2023 to 01/09/2023 and his/her performance was Excellent/Very Good/Good.

Dr. K. Ramya	Dr. P.Lalitha	Dr. Amarendra Pani	Dr. Pankaj Mittal	Dr. S.Kowsalya	Dr. V. Bharathi Harishankar
Nodal Officer AIU-AI-AADC	Director R&D i.c & Programme Coordinator	Joint Director & Head Research Division, AIU	Secretary General AIU	Registrar Avinashilingam Institute	Vice Chancellor Avinashilingam Institute

Post feedback report

Rank	First Name	Last Name	Attempt #	Accuracy	Score	Correct	Total Time Taken	Started At
1	Berdhisha	P	45	98%	43850	44	14:14	Fri 01 Sep 2023,07:13 PM
2	Abisha	Subha	45	93%	33000	42	06:56	Fri 01 Sep 2023,07:08 PM
3	Sunita	C	45	93%	31800	42	07:59	Fri 01 Sep 2023,06:02 PM
4	komala	ravi	45	87%	26400	39	18:58	Fri 01 Sep 2023,05:01 PM
5	Jayanthi	21PHCOP002	45	84%	25700	38	41:13	Fri 01 Sep 2023,04:35 PM
6	K	Deepika	45	80%	25100	36	11:24	Fri 01 Sep 2023,09:55 PM
7	Bhuvaneshwari	Narayanan	45	80%	24900	36	25:09	Fri 01 Sep 2023,04:28 PM
8	Shailaja	Raj Marla	45	80%	24600	36	07:39	Fri 01 Sep 2023,10:59 PM
9	Pon	Nivetha A	45	76%	24500	34	17:22	Fri 01 Sep 2023,05:00 PM
10	Prasanna	21PHBTP001	45	76%	23000	34	18:49	Fri 01 Sep 2023,05:19 PM
11	poongodi	comm	45	78%	22900	35	41:21	Fri 01 Sep 2023,04:35 PM
12	Rihana	Commerce	45	78%	22800	35	28:19	Fri 01 Sep 2023,04:35 PM
13	Sunita	C	45	78%	22400	35	39:34	Fri 01 Sep 2023,05:16 PM
14	Supriya	Shanmugam	45	78%	21600	35	47:19	Fri 01 Sep 2023,08:03 PM
15	Sanjib	Mishra	45	76%	21400	34	22:14	Fri 01 Sep 2023,04:30 PM
16	Balamallika devi	Arumugam	45	76%	21200	34	47:21	Fri 01 Sep 2023,04:22 PM
17	Sangeetha	S	45	71%	20700	32	40:46	Fri 01 Sep 2023,05:55 PM
18	21PHBCP001	Banu	45	67%	19900	30	07:52	Fri 01 Sep 2023,04:44 PM
19	Berdhisha	P	45	58%	19700	26	11:03	Fri 01 Sep 2023,06:58 PM
20	Dr.Susan	Manuel	45	69%	19700	31	45:12	Fri 01 Sep 2023,08:17 PM
21	Aswathi	I. R	45	71%	19600	32	28:28	Fri 01 Sep 2023,04:24 PM

22	Priya	J	45	71%	194 00	32	24:3 2	Fri 01 Sep 2023,04:18 PM
23	Michelle	Britto	45	69%	191 00	31	12:5 2	Fri 01 Sep 2023,04:21 PM
24	chhavi	mishra	45	69%	191 00	31	39:3 8	Fri 01 Sep 2023,06:29 PM
25	VAIJAYANT HI	R	45	67%	190 00	30	28:0 1	Fri 01 Sep 2023,07:25 PM
26	Sindhu	S	45	67%	189 00	30	16:1 7	Fri 01 Sep 2023,08:18 PM
27	Dr.	Nandhini	45	67%	186 00	30	12:2 5	Fri 01 Sep 2023,06:51 PM
28	Dr.	Gayatri MICROBIOLOGY	45	67%	183 00	30	32:1 5	Fri 01 Sep 2023,04:22 PM
29	Kesar	Chayal	45	64%	175 00	29	18:2 6	Fri 01 Sep 2023,04:26 PM
30	Shailaja	Raj Marla	45	62%	172 00	28	09:5 5	Fri 01 Sep 2023,10:45 PM
31	Abisha	Subha	45	53%	153 00	24	12:0 1	Fri 01 Sep 2023,06:51 PM
32	komala	ravi	24	49%	151 00	22	28:0 6	Fri 01 Sep 2023,04:28 PM
33	Doulat	Vaghamode	45	47%	127 00	21	08:4 8	Fri 01 Sep 2023,07:20 PM
34	Sathya	Moorthy	45	31%	840 0	14	04:0 1	Fri 01 Sep 2023,06:29 PM
35	Sindhu	S	3	7%	180 0	3	00:4 0	Fri 01 Sep 2023,08:40 PM
36	Ramya	Rajendran	5	4%	120 0	2	05:5 6	Fri 01 Sep 2023,04:12 PM
37	Dr.Prashan t	S Humnabad	3	2%	600	1	00:5 1	Fri 01 Sep 2023,04:20 PM
38	Umme	Sumaiya	0	0%	0	0	00:0 0	Fri 01 Sep 2023,10:13 PM
39	Aishna	Verma	0	0%	0	0	00:0 0	Fri 01 Sep 2023,04:27 PM
40	Haritha	21PFN004	0	0%	0	0	00:0 0	Fri 01 Sep 2023,07:50 PM
41	Dr.	Gayatri MICROBIOLOGY	0	0%	0	0	00:0 0	Fri 01 Sep 2023,04:15 PM
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Participant Data

S.No	Name	Designation	Department	Institution/ Organisation Name
1	Marclin Joe Felix D	Research Scholar	Botany	Nirmala College for Women
2	N K Zaheera Banu	Assistant Professor	Biochemistry	E. M. E. A. College of Arts and Science
3	PRASANNA R KOVATH	Research Scholar	Biochemistry, Biotechnology and Bioinformatics	Avinashilingam Institute for Home Science and Higher Education for Women
4	Chhavi Mishra	Research Scholar	Botany	Avinashilingam Institute for Home Science and Higher Education for Women
5	Anjana A	Research Scholar, UC College, Aluva	Zoology	UC College, Aluva, Ernakulam, Kerala
6	Dhanya Sukumaran	Research Scholar	Computer Science	Avinashilingam Institute for Home Science and Higher Education for Women
7	INDU.R	RESEARCH SCHOLAR	MANAGEMENT	PSGR KRISHNAMMAL COLLEGE FOR WOMEN
8	A.K.Nalina	Assistant Professor	English	Sri Krishna Arts and Science College
9	Aishna Verma	Research Scholar	Sociology	University of Lucknow
10	Shubhada Phadnis	Student	Zoology	Prof. Ramkrishna More Arts, Commerce and Science College Akurdi
11	A.R.Rihana Banu	Assistant Professor	Commerce	Avinashilingam Institute for Home Science and Higher Education for Women
12	Mrs.K.Jayanthi	Research Scholar	Commerce	Avinashilingam Institute for Home Science and Higher Education for Women
13	Sangeetha	Assistant professor	MBA	Hindusthan Institute of Technology, Coimbatore
14	Poongodi R	Research Scholar	Commerce	Avinashilingam Institute for Home Science and Higher Education for Women
15	Raji V Sugumar	Principal	Research Dept of Home Science	Bharathidasan Govt College for Women- An Autonomous College affiliated to Pondicherry University
16	R. Gowri	Assistant Professor	Department of Commerce	D.K.M. COLLEGE FOR WOMEN(AUTONOMOUS) VELLORE.
17	Niki Shah	PhD student	Food nutrition and Dietetics	Mumbai university
18	Narmatha.T	Ph.D Scholar	English Literature	Sri GVG Visalakshi College For Women, Udumalpet
19	Vanisree Talluri	Asst. Professor in Commerce	Commerce	St. Francis College for Women
20	M. Shailaja Raj	Vice Principal (research and development)	Microbiology	St. Francis College for Women
21	V. Archana	Teaching and Research Fellow	Chemistry	Avinashilingam Institute for Home Science and Higher Education for Women
22	S. RADJAREJ	PROFESSOR	CHEMISTRY	SONA COLLEGE OF TECHNOLOGY

	ESRI			
2 3	R.SARATHA	Professor and Head	Chemistry	Avinashilingam Institute for Home Science and Higher Education for Women
2 4	Varsha Tirkey	lecuterer	School education dept	Govt higher secondary school kebai Balenga
2 5	SUMATHY. K	Research Scholar	Women's studies	Avinashilingam Institute for Home Science and Higher Education for Women
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7 6	Sarad Chandra Rawal			Spring dell Academy

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