



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)  
Re-accredited with 'A' Grade by NAAC. Recognised by UGC Under Section 12 B  
Coimbatore - 641 043, Tamil Nadu, India

# **RESEARCH CONVENTION 2024** **ON** **“HOLISTIC APPROACHES TO QUALITY RESEARCH”**

**Dates: 23-24 January, 2024**



## **REPORT**

## **Research Convention, 2024 - “Holistic Approaches to Quality Research”**

The Research Convocation on the theme “**Holistic Approaches to Quality Research**” which is held on 23<sup>rd</sup>-24<sup>th</sup> of January, 2024 brought together a diverse array of scholars, researchers, and thought leaders, creating a dynamic platform for the exchange of ideas and the exploration of groundbreaking research. The Research Convention embodies the mission of the organization to deliver high-quality education of international quality grounded in contemporary scientific and technological advancements as well as societal demands, with a focus on social progress, peace, harmony, and national integration.

### **Objectives of the Research convention -**

- a) To apply the holistic approach into quality research.
- b) To explore and formulate the research interest and to find the research gap.
- c) To explore quality research to meet the exactions of the society at large for holistic development.
- d) To strengthen innovation, consultancy and communication of product/ research work.
- e) To extend and implement the research results to the society and evaluate its effectiveness.
- f) To achieve the quality research in various fields of research outcomes.

This report encapsulates the essence of the event, summarizing key findings, insights, and the collective intellectual energy that defined this convocation.

### **Inagural ceremony**

The convention commenced with an inaugural ceremony by invoking the blessings of Lord Almighty that set the stage with spirit of enthusiasm. **Dr P. Lalitha, Professor and Director- Research and Development** gave the welcome address by introducing the respected dignitaries. Presidential Address was given by **Vice Chancellor; Dr. V. Bharathi Harishankar** emphasizing the importance of interdisciplinary collaboration in addressing contemporary challenges. Madam eloquently elucidated the concepts of holistic, interdisciplinary and quality research.

The inaugural address was delivered by **Prof. Balakrishnan Narayanaswamy, INSA Senior Scientist, Indian Institute of Science, Bangalore** on the theme “**Interdisciplinary research can make you superhuman**” Sir addressed the concept of "God-made system" and "man-made system" in the context of carbon and silicon draws parallels between the natural order created by a higher power and the artificial systems

created by humans, with a focus on the fundamental building blocks of life and technology.



**Mr. S. J. Balakrishnan** in his speech extended heartfelt felicitations to every researcher, speaker, and organizer who played a pivotal role in making this event a resounding success. **Dr. S. Kowsalya**, our registrar, offered greetings. She recounted her research experiences and underscored the need of a lab to land concept in any research endeavour. Vote of thanks was given by Dr. Vimala, Assistant Professor, Department of Commerce.

### Technical Session – I

In the post tea plenary session - I was conducted. **Dr Lancy D’Souza**, Professor



and Head, Department of Psychology, Maharaja’s College, University of Mysore, Mysore delivered a lecture on the topic “Data analytics in research”. In his lecture he elucidated the concept, need and ways of analysing data in research. He explained parametric and non-parametric data. He also clearly explained various statistical

tests based on the objectives and nature and size of the data collected. The session was coordinated by Dr. Kalaivani, Assistant professor, Department of Home Science Extension Education.

## Technical Session – II

Plenary session II was conducted post lunch in which **Dr Puthira Pratap**, Principal Scientist (Agricultural Extension) ICAR Sugarcane Breeding Institute, Coimbatore gave a lecture on How to conduct structured literature search?



In his lecture Dr Pratap emphasized the need to carry out appropriate literature review to ensure quality research. He also introduced various search engines to identify relate literature. He outlined the use of AI in literature review. The

Session was coordinated by Dr. Nirmala Devi, Assistant Professor, Department of Biochemistry& Biotechnology.

## DAY II – 24.01.24

### Technical session – III

Day II of the research convention was carried out by **Dr. Jibu Thomas**, Professor, Department of Biotechnology, School of Agriculture and Biosciences, Karunya Institute of Technology and Sciences, Coimbatore on the theme A way of thinking.



He explained how technology has made life easier, especially in medical field and various demonstrations on how research has helped us to lead a better life. He illustrated research cycle and also explained about TRLS- A scale for

understanding the technology awareness. The Session was coordinated by Dr. M. Krishnaveni, Assistant Professor, Department of Computer Science.

### Technical session – IV

**Prof. Dr. J. Jeyakanthan**, Senior Professor and Head, Department of Bioinformatics, Alagappa





University, Karaikudi delivered a plenary lecture on How to write research proposals for funding agencies?

In his speech, he explained about the meaning and concept of research proposal. He also outlined the need to draft a good research proposal. Moreover, he mentioned that research proposal should be based on the guidelines of the funding agency and also the points to be considered while writing a research proposal. The Session was coordinated by Dr. A. Vijayarani, Associate Professor, Department of English.

#### **Technical session – V**

Invoking the blessings of Lord Almighty, the conference held on 24<sup>th</sup> January, 2024 opened with a ceremony that exuded energy and set up the environment. The distinguished dignitary was introduced by **Dr. M. A. Vijaya**, Assistant Professor, Department of Business Administration, who made the welcoming speech.

**Prof. Dr. J. Jeyakanthan**, Senior Professor and Head of the Department of Bioinformatics at Alagappa University in Karaikudi, commenced the session with a discussion on "**How to publish research articles in Scopus and WoS.**"



He addressed the purpose of research in order to discover new information for benefitting the society. He also mentioned about journal article for contributing new knowledge, which follows a specific format and structure. Moreover, sir discussed about the selection criteria used

for journals that are indexed in WoS and Scopus and provided justifications for choosing journals by taking into account of its impact and scope. He also outlined how the manuscript should be formatted in accordance with the journal's guidelines and grabbed attention by discussing the challenges encountered during the preparation phase. Lastly, he illustrated the final steps taken before publication, including formatting changes and proofreading. The Session was coordinated by **Dr. M. A. Vijaya**, Assistant Professor, Department of Business Administration.

**Parallel Technical Session – V** (Hitech Seminar Hall) by **Dr. N. Ponpandian**, Professor & Head of the Department of Nano Science and Technology at Bharathiar University, Coimbatore, presented a Plenary Lecture on “Writing Scientific Articles.”



The audience included the School of Science (FSN and FSMD) and Engineering, addressing key aspects of effective scientific writing. Scientific papers typically have two audiences: first, the referees, who help the journal editor decide whether a paper is suitable for publication; and second, the journal readers themselves, who may be more or less knowledgeable about the topic

addressed in the paper. To be accepted by referees and cited by readers, papers must do more than simply present a chronological account of the research work. Rather, they must convince their audience that the research presented is important, valid, and relevant to other scientists in the same field. To this end, they must emphasize both the motivation for the work and the outcome of it, and they must include just enough evidence to establish the validity of this outcome.

#### Valedictory ceremony

The valedictory ceremony of the two days Research Convention on the topic “**Holistic Approaches to Quality Research**” was held at 3.30 pm on 24.1.2024. The programme started



with prayer song by Music Department students. Welcome Address was rendered by Dr. Vimala, Assistant Professor, Department of Commerce. The overall report of each school was presented by respective school coordinators which gave an elusive representation of the technical sessions held in

each school.

School of Home Science report by Assistant Professor Dr.P. Kalaivani, Assistant Professor Dr. School of Bio Sciences report. R. Nirmala Devi and School of Physical and Computational Sciences Report by Assistant Professor Dr.M. Dr. Krishnaveni, Associate Professor of the School of Arts and Social Sciences report. A.Vijayarani, School of Commerce and Management Education Report by Assistant Professor Dr. M.A. Vijaya, School of Education Report by Assistant Professors Dr. R. Vyjayanthi and Dr.K. Annaram presented the report for School of Engineering



Feedback on the two-day research convention was given by the research scholars at Avinasilingam Institute for Home science and Higher Education for Women.

The valedictory address was delivered by Dr.N.PonPandian, Professor and Head, Department of Nanoscience and Technology, Bharatiyar University. He said in his speech that

research should be of good quality and through quality research researchers can reach heights in research.

Vote of Thaks was proposed by Dr.M.Priya, Assistant Professor, Department of Human Development.

## School of Home Science

The total numbers of Ph.D Research scholars in School of Home Science were forty two which **includes 23 full time and 19 part time research scholars**. The department wise presentation by the scholars started at **2.30 pm on 23.01.2024**. All the research scholars presented their conceptual framework, objectives and methodology to the Resource person for the expert guidance.

## Department of Resource Management

In the Department of Resource Management, Mrs. J. Sofia Jannet oversaw the coordination of the session. Dr. N. Chandrasekaran, Professor of the Department of Soil Science, Agricultural Chemistry at Tamil Nadu Agricultural University, KVK, Santhiyur, Salem 63623, was the invited resource person. Five research scholars (2 part-time and 3 full-time) registered for this research convention. For the guidance of the invited expert, they presented their research in a variety of thrust areas, including **Housing, Ergonomics, Green furnishings, and Entrepreneurship**.



He provided greater insights into each scholar's investigation. He recommended that the scholar conducting research on Housing Scheme Beneficiaries to determine the environmental impact and evaluate the advantages and disadvantages of each housing scheme design. He recommended conducting a survey to identify all the shortcomings of the elderly population and

incorporating a case study for the individual involved in ergonomics. He contributed to the investigation of the reasons why women do not pursue entrepreneurship after receiving



training in the form of self-help groups (SHGs) and the determination of the number of SHGs in each panchayat, contingent on the availability of resources and funding agencies that offer the training program for SHGs.

He also suggested reframing the objectives, conducting a comprehensive market survey, identifying the population of the study area in order to determine the sample size, and

increasing the sample size. Every scholar who took part was inspired to publish articles of



superior quality in indexed journals. Overall, the shared ideas proved to be highly beneficial in augmenting the research endeavor. He finally started that the Research Convention was planned in a meticulous way so that it enriches and directs the young researchers towards a quality outcome.

### **Department of Food Science and Nutrition**

As part of Research Convention programme the (technical session – II) was conducted in the respective Departments. In the Department of FSN, Dr.S.Thilakavathy coordinated the session. A total number of 14 (Full-time - 9, Part-time – 5) research scholars registered to attend the research convention.



All the research scholars presented their objectives and methodology to the Resource person for the expert guidance. Also two research scholars from the department of Food Processing and Preservation Technology presented their methodology. The resource person for the session was Dr S Anandakumar, Associate professor and Head, Department of

Food Packaging and System Development at National Institute of Food Technology and Entrepreneurship Management, Thanjavur (NIFTEM-T), Ministry of Food Processing Industries, Thanjavur Tamil Nadu.



The resource person gave valuable suggestions for each and every scholar. He suggested to reduce the number of objectives presented and be focused in framing objectives. With regard to 3D food printing he suggested to prepare attractive food products. He suggested every scholar to publish their research work in scopus

indexed journals. For scholars working with Tribal population he suggested to apply for funding from the respective state governments and collect sufficient data to generalize the result and availability of the data is less in such population. The sample selection should be focused in the area where the problem exist and not the area of convenience of the researcher. On the whole the suggestions were very useful to improve the research design.

### **Department of Food Service Management and Dietetics**

For the Department of Food Service Management and Dietetics, the parallel presentation session was at room number 265, second floor of Home Science Block. The subject expert for this session was Dr. G. Murali Mohan Reddy, Cofounder and CEO, Co Guide, Bangalore.

For the department of Food Service Management and Dietetics, the programme was



co-ordinated by Dr. S. Karthiga, Assistant Professor. A total of seven research scholars (5 full time and 2 part time) presented their research work and suggestions were offered for each of the research proposed in the areas of Sports nutrition, Community Nutrition, Clinical Nutrition, Indigenous foods, Traditional practices, Geriatric nutrition, Ayush Nutrition and sports.

The common suggestions given by the resource person were:

- The study must be well planned and structured.
- Rework on the primary and secondary objectives
- The study should be focused only towards meeting the objectives



- Inclusion and exclusion criteria to be well framed
- Sample size for the overall study and sub sample calculation for intervention to be appropriately done using formula
- Redundant findings/phases must not be included as a part of the study
- For dietary intervention/education be specific with the mode of delivering, duration, and

monitoring of the study participants

- All studies are very extensive and elaborative, therefore to find for funding opportunities

For every study, sample size and sub sample size calculation were demonstrated. Overall, the session was very informative and would help to improve the study further.

### **Department of Textiles & Clothing**

As a part of Research Convention programme technical session – II was conducted in their respective Departments. Dr.S.Yamuna Devi coordinated the session for Department of Textiles and Clothing.

Subject expert was Dr.S. Grace Annapoorani, Professor and Director i/c (Center for



Research and Evaluation), Department of Textiles and Apparel Design, Bharathiar University, Coimbatore. Three research scholars (FT- 1& PT- 2) registered for research convention. All the research scholars presented their objectives and methodologies to the subject

expert for their guidance. The subject expert gave valuable suggestions for the scholars.

- All the topics were good and consistent for the research work.



- Subject expert suggested to file patent and publish their research work in highly indexed journals.

- The research work should be a helpful one to the society in a sustainable manner.
- The comments given by the subject expert in various fields of textiles was

motivating and useful for the scholars.

- Subject expert suggested to focus on end-product developments which should be useful to the society.

## Department of Human Development

Department of Human development had organized the technical session II in Audio



visual lab, Home Science Block. Mrs. P. Jagathambal coordinated the session in which three full time research scholars from the department presented their research work which included their conceptual framework, objectives and methodology to the research expert. The resource person for the session was Dr Janakirani, Professor, Department of Agricultural Extension, TNAU, Coimbatore. The

resource person reviewed the presentations precisely and gave valuable suggestions for each and every scholar.



She appreciated the wide range of thrust areas covered for research and also suggested to plan the intervention carefully. She suggested to reduce the sample size in order to carry the voluminous activities to meet out the planned objectives. She also emphasized the need to publish in quality journals. On the whole the suggestions were very useful to improve the research work.

## Department of Home Science Extension Education

The department presentation started at 2.30 pm. The subject expert was Dr. Janakirani, Professor, Department of Agricultural Extension, TNAU, Coimbatore. The total number of scholars in Women's Studies was 3. All scholars have completed their course



work. Scholars have completed their 2<sup>nd</sup> DC. One scholar is Part time and the other two scholars are Full time scholars. The comments given were to concentrate more on new statistical tools for data analysis. Policy papers may be developed as an outcome which will be useful for the policy

makers. Madam appreciated all the three scholars for their extensive work carried out for the

research study. The overall comments given were good by the subject expert. The presentation was over by 6.30 pm.

### **Women Studies Center**

The department presentation started at 2.30 pm. The subject expert was Dr. Janakirani, Professor, Department of Agricultural Extension, TNAU, Coimbatore. The total number of scholars in Women's Studies was 7. All scholars have completed their course work. Scholars who have completed I<sup>st</sup> DC are 5 and 2 scholars have completed their 2<sup>nd</sup> DC. All 7 scholars are Part time scholars.



The comments given were to concentrate more on methodology related to the selection of samples. More attention could be given for the statistical tool to agree forth with the objectives and educational interventions can be given for a few studies. Madam

appreciated all the seven scholars for the selection of the thesis topic and was interested of the varied topics selected for the thesis. The overall comments given were good by the subject expert. The presentation was over by 6.30 pm.

All the forty-two research scholars joined through offline. The overall comments given were Excellent by the subject experts. Subject Experts was interested of the varied topics selected by the scholars for their research work. On the whole the suggestions were very useful to improve the research work.



### School of Bio Sciences

After technical session 2 of the Research Convention, research scholars made their presentations in the respective departments. Department of Biochemistry, Biotechnology and Bioinformatics had their presentations at the Bioscience Seminar Hall and the Department of Botany and Zoology had their presentations at the Zoology laboratory.

#### Department of Biochemistry, Biotechnology and Bioinformatics

Department of Biochemistry, Biotechnology and Bioinformatics had their presentations at the Bioscience Seminar Hall. Twenty Research Scholars in the Department of Biochemistry, Biotechnology and Bioinformatics their research work in various fields including Microbiology, Cancer Biology, Nanotechnology and medicinal plants research for Diabetes, PCOS and metabolic disorders.



The resource person Dr. V.K. Gopalakrishnan, Professor in Biochemistry, Head, Centre for Plant Tissue Culture and Central Instrumentation Facility, Karpagam Academy of Higher Education shared his expertise and gave valuable suggestions to augment

the research quality of the scholars. He insisted on publishing their works in reputed journals especially UGC CARE listed and Science citation indexed journals. Also emphasized upon getting approval from Institutional Human Ethical Committee (IHEC), Institutional Animal Ethical Committee (IAEC) and Institutional Biosafety Committee (IBSC) for their projects involving human subjects, animal subjects and handling of pathogens respectively.

#### Department of Botany and Zoology

Parallel sessions were held along with Department of Botany and Zoology on 23.01.2024 and 24.01.2024 afternoon at Botany laboratory. The subject expert was Dr. N.



Geetha, Professor, Department of Botany, Bharathiar University, Coimbatore. Twelve scholars were presented their research findings. Suggestions given by the resource person according to their research

planning. The resource person gave suggestions to improve the research quality. Also emphasized upon getting approval from Institutional Human Ethical Committee (IHEC), Institutional Animal Ethical Committee (IAEC) and Institutional Biosafety Committee (IBSC) for their projects involving human subjects, animal subjects and handling of pathogens respectively.

### School of physical Sciences

The School of Physical Sciences & Computational Sciences at Avinashilingam Institute proudly presents an insightful snapshot of the research scholars who actively contributed to the Research Convention-2024. In total, 37 scholars actively participated in the convention, exemplifying the commitment of each department to fostering an environment of intellectual exploration and academic excellence

### Department of Mathematics

In the realm of research, the Department of Mathematics, led by **Mrs.P.Loganayaki, Assistant Professor**, made significant contributions during the Research Convention-2024. . Within the Department of Mathematics, a diverse cohort of researchers actively contributed to the Research Convention-2024. This collective effort included 5 Full-time Scholars and 4 Part-time Scholars. During the Research Convention-2024, the Department of Mathematics had the privilege of hosting Dr. K. Bhuvaneswari, Professor and Head of the Department of Mathematics at Mother Teresa University Research and Extension Centre, Coimbatore, as a distinguished Resource Person.



Dr. Bhuvaneswari directed and guided scholars, imparting valuable insights to elevate the quality of their research endeavors. The scholarly session commenced at 3:50 pm in the Mathematics Computer Lab, providing a conducive environment for academic discourse. A total of 9 scholars, comprising 4 Part-time Scholars and 5 Full-time Scholars, presented and reported on their respective areas of work.

The expert session during the Research Convention-2024 provided scholars with invaluable guidance to enhance the quality and direction of their research endeavors. Esteemed experts offered the following insightful suggestions:

1. Suggested Reading and Real-Time Applications: Experts recommended scholars to delve deeper into their respective fields by reading more papers and exploring real-time applications. This advice aims to broaden their understanding and foster a comprehensive approach to their research.
2. Channelizing Work and Strategic Progress: Scholars were instructed to channelize their efforts and strategically proceed with their work. This guidance emphasizes the importance of a structured and focused approach to ensure meaningful progress in their research pursuits.
3. Ideas for Further Progress: The experts shared specific ideas to catalyze further progress in scholars' work. These ideas are intended to inspire innovation and provide scholars with new perspectives, potentially leading to impactful contributions in their respective domains.

### **Department of Physics & Chemistry:**

In the realm of research, the Department of Physics & Chemistry, under the guidance of Ms. V. Bhuvaneshwari, Teaching Assistant, and Dr. A. Akila, Assistant Professor, made substantial contributions during the Research Convention-2024. The following report encapsulates the accomplishments and insights gained by the department.

The department showcased the work of 2 Part-time Scholars and 5 Full-time Scholars, illustrating the diverse and dedicated efforts undertaken in the pursuit of academic excellence.

Within the Department of Physics & Chemistry, a dedicated team of researchers played an active role in the Research Convention-2024. This collaborative effort included 2 Part-time Scholars and 5 Full-time Scholars, shaping a cohesive community of 7 scholars. Each member brings a unique perspective and unwavering dedication to advancing knowledge in the fields of physics and chemistry.



The Research Convention-2024 marked a significant collaboration between the Departments of Physics and Chemistry, with Dr. A. Thangamani, Associate Professor and Head of the Department of Chemistry at Karpagam Academy of Higher Education, Coimbatore, serving as a distinguished Resource Person. Dr.

Thangamani provided valuable direction and insights to scholars from both Physics and Chemistry, aiming to enhance their research endeavors. The scholarly session, held in Room no 111 Science Block, commenced at 3:50 pm, providing a conducive environment for academic discourse. Scholars from both departments actively participated, with 3 Scholars from Chemistry and 4 Scholars from Physics presenting and reporting on their respective works. Three Chemistry Scholars presented their work related to Nanochemistry and Coordination Chemistry. Physics Scholars presented their research work covering Crystal Growth and its Characterization, Energy Devices, Energy Storage Devices, and Solid-State Ionics. This organized session facilitated the scholars in showcasing their expertise and engaging in meaningful discussions under the expert presence of Dr. A. Thangamani. The Departments of Physics and Chemistry express their gratitude for the valuable contribution of Dr. Thangamani and the active participation of scholars, making this session a scholarly success.

#### **Department of Computer Science:**

In the domain of scholarly exploration, the Computer Science Department, under the coordination of Dr. M. Krishnaveni, Assistant Professor (SG), played a pivotal role in the Research Convention-2024. The department, represented by 4 Full-time Scholars and 17 Part-time Scholars, made substantial contributions to the convention. Within the Computer Science Department, a dynamic assembly of researchers played an active role in shaping the narrative of the Research Convention-2024. This collective engagement featured the participation of 4 Full-time Scholars and 17 Part-time Scholars, establishing a vibrant community of 21 scholars. Each member of this community contributes a unique perspective and unwavering dedication to the pursuit of knowledge within the realm of computer science.



During the Research Convention-2024, the Computer Science Department had the honor of hosting Dr. E. Grace Mary Kanaga, Professor and Head of the Department of Computer Science and Technology at Karunya Institute of Technology and Sciences, Coimbatore, as a distinguished Resource Person. Dr. Kanaga directed and guided Computer Science scholars, providing

valuable insights to enhance the quality of their research endeavors.

The scholarly session commenced at 3:50 pm in the Linux Lab, setting the stage for an environment conducive to academic discourse. A total of 21 scholars, including 4 Full-time Scholars and 17 Part-time Scholars, actively participated and presented their work on January 23, 2024, in the afternoon session.



Scholars presented their research findings on various topics, including Cyber Security, Text Mining, healthcare, supply chain management, Agriculture development, and Disease prediction. This focused and organized session allowed scholars to showcase their expertise and engage in meaningful discussions under the

guidance of the esteemed academician, Dr. Kanaga. The expert session during the Research Convention-2024 provided scholars with invaluable guidance to enhance the quality and direction of their research endeavors. Esteemed experts offered the following insightful suggestions. The expert provided insights focused on:

- Comparative analysis with existing models.
- Meticulous evaluation metrics for a comprehensive study.
- In-depth exploration into the subject matter.
- Scholars are encouraged to refer to recent journal papers to stay updated with the latest advancements in their respective research areas.



### **School of Arts and Social Sciences**

In SASS, the total number of Research Scholars who participated is 26.

In the Dept of English – 8, (FT – 7+ PT - 1); Tamil – 5 (FT -5); French- 3 (FT – 1+ PT - 2); Economics – 5 (FT – 2 + PT - 3); Music – 2 (FT - 2); Hindi – 1 (FT); Psychology - 2 (PT - 2) presented their research.

#### **Department of English**

The Resource person is Dr. Arun Bharath, Associate professor, SRMV College of Arts and Social Sciences, Cbe, TN. The thrust areas of the research are

1. “Exploration of the Literary Geography in select works of Ruskin Bond”,
2. Fairy Tales - A Transtextual Approach”
3. Re-conceptualising Motherhood: A Feminist Reading of Select Asian Novels
4. Disability Burnout in Select Indian English Fiction
5. Solastalgia in Select Eco-Fiction
6. Self-realisation in select novels of John Grisham and Lisa Scottoline
7. Food and literature
8. Digital Dystopia in Select Science Fiction



The external expert appreciated the thrust areas of the research and the selection of the theories. He also appreciated the literature review collected so far by the candidates. He advised the research scholars to be more specific in fixing the hypothesis and to provide solution orientated thesis statement.

#### **Department of Economics**

The afternoon session on 23rd January, 2024 during the Department session, Five



Research Scholars of Department of Economics presented their research work along with their supervisors. The resource person Dr. S.Boopathi, Professor and Head, Department of Economics, Bharathiar University, Coimbatore has given suggestions to the research scholars based on the thrust areas Environmental Economics, Employment in Digital Era,

Migrant workers in construction industry and Agricultural finance. The session was enlightened with the interactive phase where the scholars interacted and clarified their doubts about modification of Research topic, their objectives, methodology, sampling



techniques, sample size and selection of samples, and various statistical tools for both primary and secondary data in their research work.

Overall, the session was very informative and productive for the scholars. It paved them a platform to realize where they stand in their research work and the resource person has given few suggestions to bring out

effectiveness in their research.

### **Department of French**

The research convention was organized by Department of French through Google Meet on 23.01.2023 through virtual mode. Dr. Sarmila Acharif, Associate Professor, Department of French, Pondicherry University, was the Resource person in French.

Dr. Sarmila Acharif, Associate Professor, Dept of French, Pondicherry University,



Pondicherry, delivered a lecture on how to carry out research in the field of Française langue étrangère and Literature française, the importance of reading extensively and in documenting the sources. Madam

threw light into the different AI tools which can be incorporated into research in French studies and how to write articles and publish in French.



And the session followed by presentation of research Scholars of the department. Mrs. Anuja koothottil (Part time) presented first. Following this, Dr. Sarmila Acharif provided her insight about the progress of this research. She clarified about the sample size in field study and the

limitations of the study. Mrs. Janu V. Kumar (Part time) presented secondly. To her Madam suggested a change in the title in order to make it more specific and explanatory. She suggested also the scholar bring in pedagogical supports/ elements (Fiche Pédagogique). Mrs. Swathi K (Full time) presented thirdly. Following this, Dr. Sarmila Acharif gave her valuable suggestions and ideas regarding this research. Madam suggested her to do extensive reading and to do Research for quest for identity and to give justifications. She insisted that all three scholars to publish articles in a Scopus indexed journal. The research convention 2024 in the department of French came to an end with a positive note and vote of thanks. The scholars were extended further guidance and support by the Subject Expert.

### Department of Hindi

The Session was held on 23.01.2024 afternoon through offline mode in the Music Department Auditorium . The subject expert was Dr.S.Saji , Professor & Head , Department of Music, Maharajas College , Ernakulum , Kerala . The Research Scholar and the



Supervisor were present during the programme. The Research Scholar Geethu Das (22PHHIF001 ) presented the PPT on her topic “ Kamleshwar ke Upanyason mein Samajik Moolyon ka Vishleshanatmak Adhyayen “ . Her area of research is Social Values in the novels of Kamleshwar . She has done scholarly references pertaining to her area of research. The subject expert also highly appreciated the topic and gave valuable

comments.

### தமிழ்த்துறை – அறிக்கை

தமிழ்த்துறை சார்பாக 2024-25 ஆம் கல்வியாண்டில் நடைபெற்ற ஆராய்ச்சி மாநாட்டின் துறைசார் கூட்டம் 23.1.2024 அன்று பிற்பகல்



3.30மணி முதல் 5 மணி வரை அறை எண்276-ல் பெற்றது.

இதில் சிறப்பு அழைப்பாளராக துறை சார் வல்லுநர் முனைவர். தமிழரசி, முதுநிலை பேராசிரியர், கற்பகம்

நிகர்நிலை பல்கலைக்கழகம்,கோயம்புத்தூர்.வருகை தந்து முனைவர் பட்ட ஆய்வுக்கானத் தகுந்த ஆலோசனைகளை வழங்கினார். தமிழ்த்துறையின் முனைவர் பட்டஆய்வு மாணவியர் 5பேர் கலந்துகொண்டு தங்களுடைய ஆய்வு பணிகளுக்கான ஆலோசனைகளை பெற்றனர். பங்கேற்ற ஐந்து முனைவர் பட்ட ஆய்வாளர்களும் முழு நேர முனைவர்பட்ட ஆய்வாளர்கள் ஆவர்.

திருமதி. ப. ஜெயபாரதி ‘சங்கப்புற பாடல்கள் சோழவேங்கை கரிகாலன்



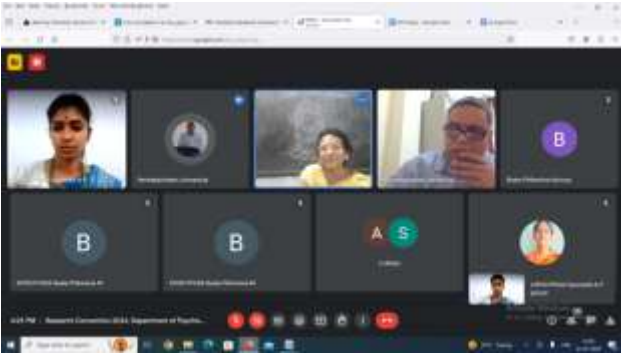
புதினம் போர் முறைகள்’ என்னும்தலைப்பிலும், செல்வி சு.ஸ்ரீநிதி ‘எட்டுத்தொகை பாடல்களில் பொருளியல்’ என்னும் தலைப்பிலும், செல்வி ம.வெங்கடலட்சுமி ‘இராம

அவதார நோக்கில் ஆழ்வார்கள் கம்பர் பாடல்கள் ஒப்பாய்வு’ என்னும் தலைப்பிலும் செல்வி ர.ஆர்த்தி, ‘எட்டுத்தொகை நூல்களில் அறிவியல்’ என்னும் தலைப்பிலும், திருமதி க. சுபலா, ‘திருஞானசம்பந்தரால்



பாடப்பெற்ற சீர்காழி வடகரைத் தலங்கள்' என்னும் தலைப்பில் தங்களுடைய முனைவர் பட்ட ஆய்வினை மேற்கொள்ளுகிறார்கள். துறை வல்லுநர் அவர்கள், மாணவியரின் தலைப்புத் தேர்வு குறித்தும், இயல்புக்குப் முறைக் குறித்தும் பாராட்டினார். தலைப்புக்கேற்ற வகையில் சிலசில மாறுதல்களை செய்து, ஆய்வினை தொடரும் வண்ணம் அறிவுறுத்தினார்.

### Department of Psychology



The Department of Psychology conducted the departmental session at the PG Psychology Laboratory. The subject expert Professor Venkatachellam Jonnadula, Dean of Social Sciences, Periyar University, Salem joined online. Permission for online conduct was obtained earlier from the Vice Chancellor. Professor has a rich

experience of over 35 years as an academician. Two research scholars, Ms. Buela Philomina. M (21PHCPP005) and Ms. Sanmathi. A. P (21PHCPP006), presented their research to the subject expert. The title of research of Ms. Buela Philomina. M (21PHCPP005) is "Acceptance Commitment Therapy on Occupational Stress and Cognitive failures among Working Women". She presented her research using a power point presentation. The expert advised the scholar to try some advanced statistics for the study further. Also, recommendation was given to include latest psychological tools for data collection.



Ms. Sanmathi. A. P (21PHCPP006) presented her research on the topic, "Efficacy of Positive therapy in Enhancing Resilience, Gratitude and Emotional Intelligence among Orphan Young Adults". The research scholar has finished her course work and first doctoral committee meeting. She was advised to use better technical terminology to describe the therapy that she

proposes to undertake. She was also asked to justify her choice of sample.

Professor Venkatachellam also asked both the scholars in depth questions about their research such as usage of wait list controls, application of the therapy techniques and he also advised them on strategies to avoid common pitfalls in research.



## Department of Music

The session started by 3pm at the Department of Music. Dr Saji, Professor & Head, Department of Music, Maharajas College , Ernakulam, Kerala was the resource Person. After the welcome speech



by Dr.V.Janaka Maya Devi, Professor and Head of the Department of Music, the presentations by two of our Music scholars, on the title **‘Padavarnams of Tanjore Quartette’** and **‘Janya raga kritis of Koteeswaralyer’**. The resource person Dr.Saji appreciated both their presentations and the course works carried by them. She also conveyed that the chapters and the methodology adopted for the research work. Among the two scholars, one is under the guidance of Dr.V.Janaka Maya Devi

and another one scholar is supervised by Dr.A.V.Sajini. The expert suggested few books, Journals and Musicians to proceed with their works.

In the end of the session, Dr.Saji, the resource person had an enchanting session on Research Methodology which was very useful to the students. The session was concluded with the Vote of thanks by Dr. A V Sajini , Assistant Professor, Department of Music.

### **School of Commerce and Management**

The School of Commerce and Management consist of three major departments,



namely Department of Commerce, Department of Business Administration and Department of Tourism Management is functioning actively. During the Annual Research Convention – 2024, the School of Commerce and Management, the total number of the research scholars

participated is 11, Out of which 8 Research Scholars from Department of Commerce and 3 Scholars from Department of Business Administration. The Technical Session was chaired by eminent Resource Person Dr. M. Jegadeeshwaran, Associate Professor, Department of Commerce, Bharathiar University, Coimbatore.

Dr. M. Jegadeeshwaran, Associate Professor, Department of Commerce, Bharathiar University, Coimbatore Chaired the Parallel Technical Session at Room No. – 172, IV – Floor Library Block Afternoon from 3.30 pm to 7.00 pm. The Session was really a thought provoking and 11 Research Scholars made their Research presentation in the field of both



Commerce and Management and moderate by Dr.K.Kanniammal, Professor and Head, Department of Commerce. The session was Co-ordinated by Dr. M. A. Vijaya of Department of Business Administration and Dr. P.Sasirekha and Dr. Kavitha of Department of Commerce.

Dr. M. Jegadeeshwaran gave his valuable suggestions to all the research scholars. He pointed to make the title very specific. He proposed to verify the feasibility and reliability of the data collection methods. He advised the Research Scholars to put more effort in improving the Research Methodology by modifying the Research Design to suit the objectives of the study so that the research problem will be efficiently addressed.

## School of Engineering

The research scholars of various departments in school of engineering presented their research work to receive expert suggestions from the research experts

### Department of Biomedical Instrumentation Engineering

The presentation was conducted on 23.01.2024 at 2.30 p.m. The external expert for the session was **Dr.V.R.Vijay Kumar**, Associate Professor & Head, Department of ECE, Anna University Regional Campus, Coimbatore. The research scholar registered for the session was Mrs.Blessy Rapheal M(22PHEBP001),Part time research scholar registered under the supervisor Dr.Judith Justin, Deputy Dean,Prof. & Head, Dept of BMIE. The research topic identified for Mrs.Blessy Rapheal M is “Lung cancer Classification and Prediction using Machine learning”. The domain is Medical Image Processing.



work.

The expert suggested the use of Deep learning algorithms for the detection of Lung Cancer. He also suggested that validation should be done using Explainable AI which is a very recent algorithm, if it is taken up for research

### Department of Civil Engineering

The Department presentation session was held on 24.01.2024 afternoon as per the schedule. The subject expert invited was Dr. M. Rama, Associate Professor, Department of Civil Engineering, Government College of Technology, Coimbatore. During the session the presentation were done by i) **Mrs.K.R.Reshma (21PHEVP001)**, Part Time Scholar and ii) **Mrs.M.Ramya Devi (22PHEVP001)**,Part Time Scholar. They presented their research work on the title i) Effectiveness of multiple type joint in composite space truss, ii) Ultra High Performance concrete with Structural Health Monitoring. The expert gave the following comments and suggestions for the improvement.



#### **Mrs.K.R.Reshma (21PHEVP001), Part Time Scholar**

➤ It is recommended to use more number of software applications for analytical work.

- Compare the work in accordance with various codal provisions.
- It is needed to do conduct more number analytical work & critical analysis.

***Mrs.M.Ramya Devi (22PHEVP001), Part Time Scholar***



- Selection of materials based on sustainability and economic analysis.
- The Mix Design software is to be included.
- It is necessary to study additional characteristics of different types of cement before making a selection

### **Department of Computer Science and Engineering**

Department session was held on 23.01.2024 afternoon. The subject expert was Dr. V. R. Vijay Kumar, Associate Professor and Head, Department of ECE, Anna University Regional Campus, Coimbatore. Six research scholars attended the session through offline

mode. All the scholars done their presentation pertaining to their area of research such as deep learning models, Machine Learning Techniques and Network intrusion detection.



Three scholars presented their papers on the topic “Performance analysis of deep learning models for discriminating covid-19 symptoms”, “Automated Medical image classification using Deep Learning for Lung

disease detection” and “Post Covid Analysis using Machine Learning Techniques”. Another two scholars presented her paper in the domain of Image processing related to healthcare on “Identifying Tiny Target Segmentation in Abdominal CT Scan Images using Recurrent Saliency Transformation Network” and “Deep learning model for the Sentimental Analysis of Online Shopping Product Evaluation”. Last scholar presented her paper in the domain of block chain technology with VANET and the title “Network intrusion detection in VANET using block chain technology”. The subject expert provided the feedback as all the Scholars done the presentation well and have good progression in research work. She highly

appreciated the chosen research topics of the scholars.

### **Department of Electronics and Communication Engineering**

The Department of Electronics and Communication Engineering organized the technical sessions with the department subject expert in the Mullai Hall on 23.01.2024 (AN). Totally seven Part Time research scholars were registered from our department. All the registered participants attended this research convention 2024. **Dr.K.R.Vijay Kumar, Associate Professor & Head, Department of ECE, Anna University Regional Campus, Coimbatore** reviewed all participants' research work.



The scholars are doing their research in the domains such as Digital Image Processing, Visual Light Communications, Internet of Things, Optical Image Processing and Wireless Sensor Networks. Among the seven research scholars, two research conventions are completed by three research scholars

successfully and the remaining scholars completed their 1<sup>st</sup> research convention.

Three candidates completed their first Doctoral Committee (DC) meeting and the remaining scholars completed their course work examinations. Seven research articles are



presented in the conferences by the research scholars of our department. The subject expert gave his suggestions to improve their research work, also motivated them to complete the research work in the stipulated time and to publish their research idea in the reputed journals.

### **Department of Food Processing and Presentation Technology**

The presentation of the research scholars from the Department of Food Processing and Preservation Technology was held at the Department of Food Science and Nutrition on 23.01.2024 in the afternoon session. The subject expert was **Dr.S.Anandakumar, Associate Professor, Department of Food Processing Engineering, National Institute of Food Technology, Entrepreneurship and Management (NIFTEM), Thanjavur**. The research scholars presented their research work in front of the supervisors during the session. Nearly 16 research scholars presented their research work, two scholars were from the



Department of FPPT, School of Engineering. Ms. R.Sharmeela presented on the title “Non-Destructive Quality Evaluation Fleshy Foods” the expert suggested to narrow down the topic by selecting any one specific type of meat and Mrs M.Saradhambal presented on the title “Utilization of Fruit and Vegetable Waste for Development of Biodegradable and Active Packaging Material for Foods” the expert suggested to conduct characteristics study of the packaging material. The expert also suggested both scholars to publish paper in the reputed journals.



### Department of Printing Technology



Department session was held on 24.1.2024 afternoon. The resource person was Dr V R Vijay Kumar, Associate Professor and Head, Department of Electronics and Communication Engineering, Anna University Regional Campus, Coimbatore. Research scholars attended the session. The research scholars are from PVG, Pune. They are doing the research under the guidance of Dr. A. Arulmozhi, Associate Professor, Department of Printing

Technology.

The scholars done their presentation pertaining to their area of research. Scholars presented their papers on the topic “To evaluate process parameters affecting printability in offset lithography printing” and “Reducing carbon footprint of PET and BOPP films for FMCG packaging. The resource person provided the feedback as all the Scholars done the presentation well and have good progression in research work. The Resource person highly appreciated the chosen research topics of the scholars and gave valuable suggestion for further proceeding.

## School of Education

From the school of education, three research experts namely Dr. S.Thangarajathi, Professor, Department of Educational Technology, Bharathiyar University, Dr. J. Sujathamalini, Dean, Department of Special Education & Rehabilitation, Alagappa University and Dr.Annadurai, Bharathiyar university visited as a subject experts.

## Department of Education

Research convention for the scholars from Department of Education was held in the Seminar Hall, Department of Special Education. The special guest of the program was Dr. R.Thangarajathi, Professor, Department of Educational Technology, Bharathiyar University, Coimbatore. The program started at 3.00 pm with a welcome address by Dr.C.Karthik Deepa, Assistant Professor, Department of Education and Dr.R.Vaijyanthi, Assistant Professor (SG), Department of Education greeted the Scholars.



It was followed by the presentation of the research scholars. The first presentation was made by Mrs. Neeta Chandra, who works under the guideship Dr. R Vaijyanthi. Her title is “Effectiveness of ICT-based pedagogy in Teaching English by Teacher trainees in Andaman and Nicobar Islands”. Expert suggested her to keep ‘ICT-based pedagogy’ as the Major

objective, Achievement as second objective. And also, to prepare a model for the pedagogy. The scholar M.Vijayalakshmi, who is working under the guideship of Prof.Dr.H Indhu presented her title “Effectiveness of Integrated pedagogy in enhancing thinking skills among prospective teachers” . The expert suggested her to prepare module - linear programming model.

The title “Efficacy of Gamification in Teaching and Learning Mathematics among Primary Kids” was presented by Antony Philomena M, who is doing research under the guidance of Dr.C.Karthik Deepa. The expert suggested her to carry on the research with primary Kids as the sample with the sample size of the sample size can be 30 to 60 instead of 100.

It was followed by the presentation of Sabitha C K, who is doing her research under, Prof.Dr.H.Indhu. She presented her title” Effectiveness of scientific argumentation on

enhancing scientific reasoning, science process skills, and achievement in science among secondary school students”. The expert suggested her to fast up the work since, many variables are involved.



The next presentation was done by Minilakshmi, K, Who is doing her research under the supervision of Prof. Dr.H.Indhu. She has presented her title on “Experiential learning for enhancing social values and civic sensitivity among secondary school students of Kerala”. The expert suggested her to keep the variables as it is, and to apply

mixed strategy, both qualitative and quantitative.

It was followed by the title “Development and Validation of Multimodal Package on Robotics among Primary Kids” presented by S.Nithya, who is working under the supervision of Dr.C.Karthik Deepa. The expert suggested her to do the module development first before the questionnaire.

The last title “Relationship between problem-solving skills and physics competency of middle school students in STEM Education” was presented by K.Brindha, who is doing research under the guidance of Dr.C.Karthik Deepa. The expert suggested to change the title into “Effectiveness of Electronics, Arduino, and Coding ( STEM) in Problem-Solving, Scientific Attitude, and Science Achievement of Secondary Students.” And recommended her to complete the STEM curriculum Module as a priority.

### **Department of Special Education**

In the Department of Special Education, 2 full-time scholars and 3 part-time scholars have participated. Dr. J. Sujathamalini, Dean, Department of Special Education and Rehabilitation, Alagappa University chaired the presentation through online mode.



First, Premalatha T a Part-time scholar, presented on the topic “Efficacy of Multimedia Instructional Strategies in Learning Plant Kingdom for Students with Special Needs at Secondary Level”. Experts suggested taking Mild Intellectual students.

Second M. Pavithra a Part-time research scholar presented on “Effectiveness of Critical Thinking-Based Package for Developing

Basic Arithmetic Skills among Children with Hearing Impaired”.



Expert suggested Activity-based package must be developed for the intervention tool and to Name the tool. Third, M. Ramya, a Part-time research scholar presented on “Effectiveness of Multisensory Intervention Strategies for enhancing prerequisites of independent living skills among children with multiple disabilities”. The Expert suggested Multisensory intervention strategies have to be specified. Fourth N. Ilakkiya, a Full-time research scholar presented “Impact of Adaptations in Trigonometric Basics for Children with Special Needs”. The expert suggested being more specific on the topic and defining dependent variables and independent variables clearly. Finally, A.Sharmila, a Full-time research scholar presented on “Effectiveness of Multi-Dimensional Approach to Enhance the Speech of Children with Hearing Impairment”. The expert suggested being More specific on the topic Mention the Multi-Dimensional approach

### **Department of Physical Education**

In the Department of Physical Education the subject expert was Dr. Annadurai, Department of Physical Education, Bharthiyar University and Fifteen scholars from the Department of Physical Education attended the research convention in 2024. The presentation was assigned to a Special Education Room No. 2. Out of the registered scholars, nine were present. Among these nine, three were full-time scholars, and six were part-time scholars. Six scholars who were registered did not attend the convention. The presenters included (Ms. Aditya Mallireddy, Ms. Nakalla Jhansirani, Ms. P. Priyadharshini, Ms. S. Vinolia, Ms. P. Soundharya, Ms. P. Vishnupriya, S. Selvamila, Ms. Salomy, and Ms. Saranya.)

First Ms. Mallireddy Aditya Lakshmi a Part-Time scholar presented the topic “Efficacy of Assorted Terrain Training on Selected Speed Parameters of Andhra Pradesh Athletes”. The expert suggested validating the training schedule with authorized coaches and samples to be spelled properly in all the slides. Second, Ms. K. Selva Maila a Part-Time scholar presented “Effect of Physical Activity, Meditative Technique and Pranayama among School Teachers”. Expert suggested Dependent variables be specified in the title and Can include physiological variables too.

Third, Ms. Vishnupriya a Part-Time scholar on “Effect of Resistance Training on Bone Mineral Density of Pre and Post Menopausal Women”. Expert suggested Must be



more specific on the topic and Advanced statistics techniques can be used, Test tools are to be mentioned with references. Fourth, Vinolia P, a Full Time presented “Effect of Unified Rhythmic Activity on Selected Physiological Psychological and Physical Profile Among Children with Mild Intellectual Disability”.



The expert suggested redefining the title and including it with and without assistance, the Training schedule to be validated Age group of subjects to be changed. Fifth, Soundharya P a Full Time scholar presented “Efficacy of Aerobic Interval

Training and Traditional Fermented Rice and Rice Water with Fortified Nutrients”. The expert suggested maintaining uniformity in using supplements.

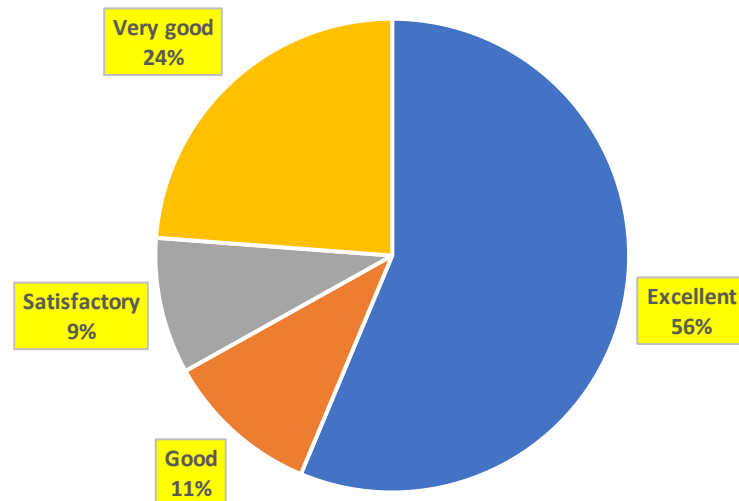
Sixth, Ms. R. Salomya Part-Time scholar presented “Effect of Different Training CAPSULE ON Selected Physical and Physiological Variables among Pre Adolescent girls”. The expert suggested Training Modalities can be mentioned in the title and Variables to be specified with standardized tests and references. Seventh, Ms. Nakalla Jhanshirani a part-time presented “Influence of Specific Skill Training with Yogic Exercise on Selected Physical Fitness and Physiological Variables among District Level”. Expert suggested Women Kabaddi Players, Title to be refined by adding an independent variable clearly. Also Use technical terms and Variables to be specified with standardized tests and references.

Eighth, Ms. S. Saranya a Part-Time presented “Combined Effect of Resistance Band Exercise, Plyometric Training, and Aerobic Training on Selected Physical, Physiological Variableamong High Altitude Female Hockey”. Expert suggested playerstiles to be refined and variables be specified with standardized tests and references. Ninth, Ms. S. Priyadharshini a Full Time scholar presented “Sports Training and Unified Adapted Exergames with Playway Yoga for Children with Autism”. The expert suggested Validating the training schedule with authorized coaches.

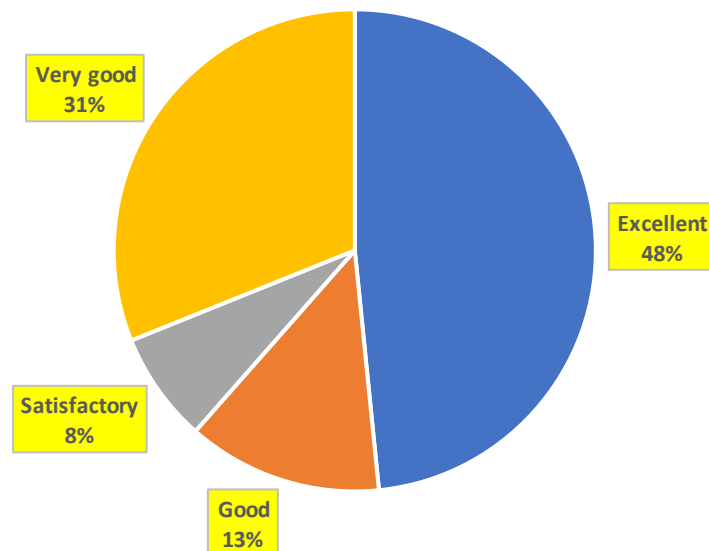


## Feedback – an overview

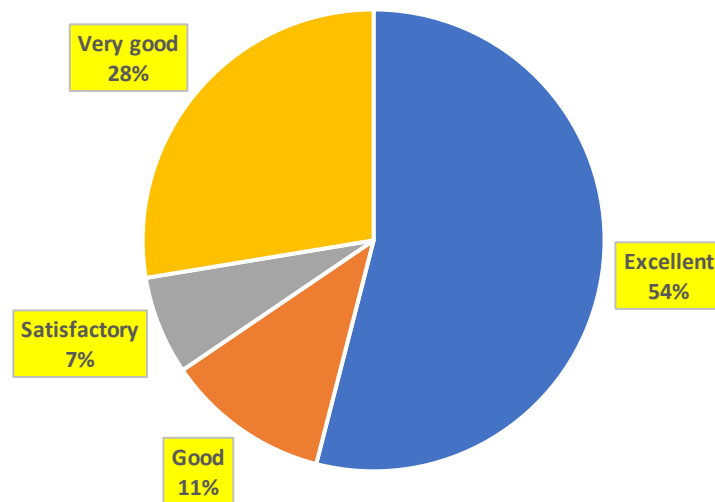
Dr. Lancy D'souza  
Plenary lecture: Data Analytics in Research



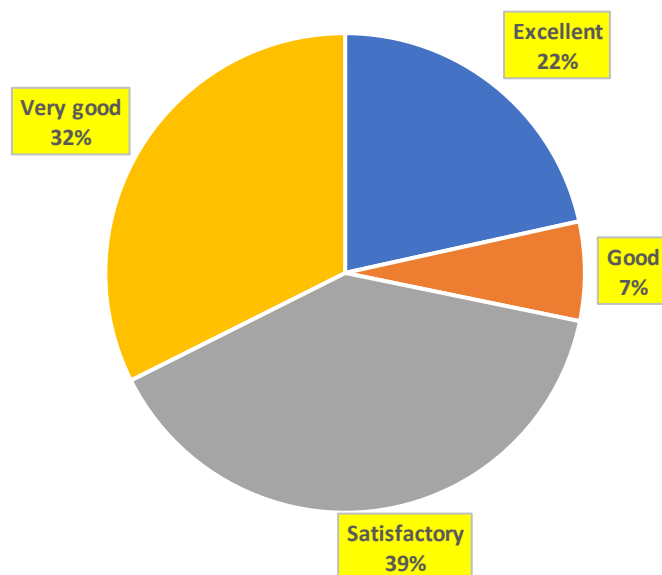
Dr. D. Puthira Prathap  
How to Conduct a Structured Literature Search?



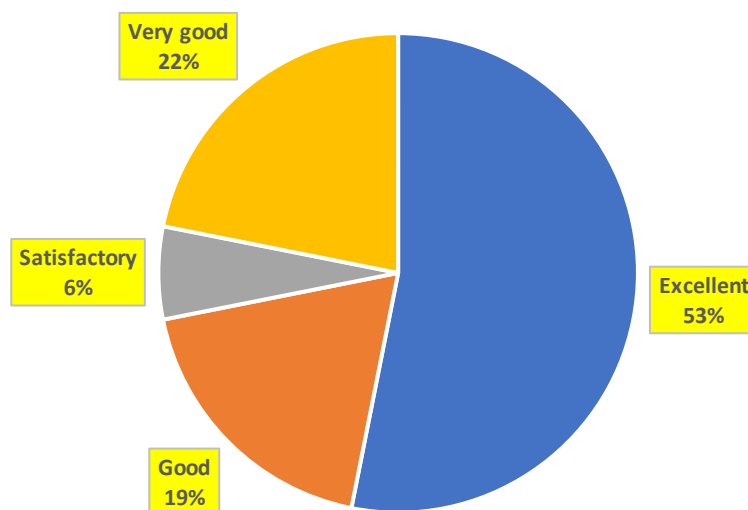
**Dr. Jibu Thomas**  
**Research - A Way of Thinking**



**Dr. Jeyakanthan**  
**How to Write Research Proposals for Funding Agencies**



**Dr. Ponpandian**  
**Writing Scientific Articles**



## **CONCLUSION**

A wide range of academics, researchers, and thought leaders came together for the Research Convocation, 2024, with the theme "Holistic Approaches to Quality Research," which was held on January 23–24, 2024. This created a vibrant forum for the discussion of novel research and the exchange of ideas. The research convention was refreshing to the scholars. The holistic development of the research scholars and their conceptual clarity towards research was amazing. Experts were eager to discuss the new topics of the scholars. It is a wonderful platform for developing research and its related concepts.

