



A.H.M.'s
ANJUMAN ARTS, SCIENCE AND COMMERCE COLLEGE,
ANJUMANABAD, BHATKAL-581320
(AFFILIATED TO THE KARNATAKA UNIVERSITY, DHARWAD)

ANJUMAN ARTS, SCIENCE COMMERCE COLLEGE, BHATKAL

CIRCULAR

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Date: 15th July, 2023

This is to inform all the Commerce students that, A One Day Workshop on 'Basics of Research Methodology' is scheduled on July 18, 2023 to be organized in collaboration with our MoU Partner Disha Edu-Care. Dr. Vinayak A. Kamat, Lecturer in Physics will enlighten the audience. A good number of students from Disha Edu-Care are expected to participate.

Therefore, all the students are informed to be a part & take the benefit of this workshop.




Principal
(Prof. M. K. Shaikh)
Anjuman Arts, Science & Commerce
College, BHATKAL (U K) 581320



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**DR. VINAYAK ANAND KAMAT - A SESSION ON THE BASICS OF
RESEARCH METHODOLOGY FOR STUDENTS (18-07-2023)**





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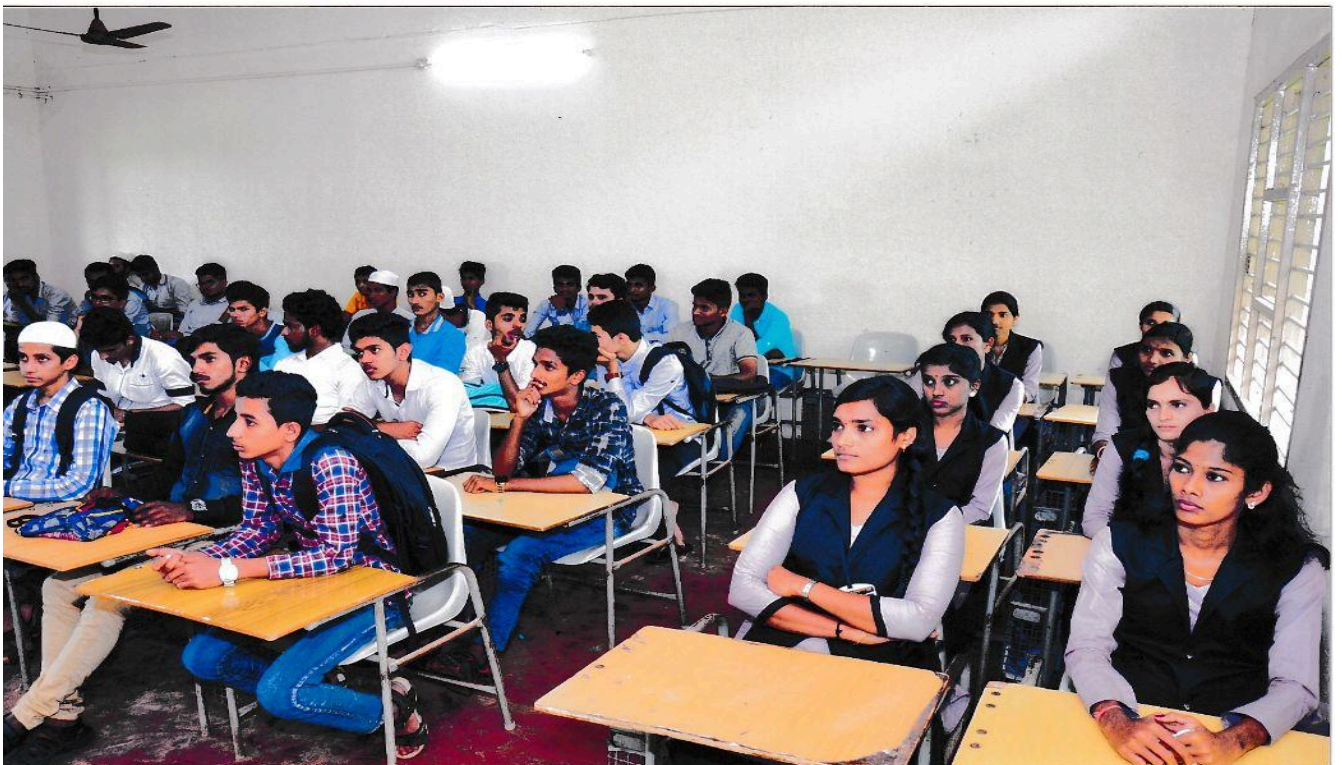




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**PARTICIPATION OF DISHA EDUCARE STUDENTS IN THE SESSION ON
THE BASICS OF RESEARCH METHODOLOGY FOR STUDENTS (18-07-2023)**





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**DR. VINAYAK ANAND KAMAT - A SESSION ON THE BASICS OF
RESEARCH METHODOLOGY FOR STUDENTS (18-07-2023)**

BIO-DATA OF THE RESOURCE PERSON

Dr. Vinayak Anand Kamat

Lecturer in Physics
Department of Physics
Anjuman Arts, Science and Commerce College
Bhatkal
e-mail: vkamat@anjuman.edu.in
Mobile: +917411106564/ +91 9483791732



Dr. **Vinayak Anand Kamat** is presently working as Lecturer at Department of Physics, Anjuman Arts, Science Commerce College & PG Centre, Bhatkal. He completed his M.Sc. and Ph.D degree from Department of Physics, Mangalore University, Mangalore, Karnataka, India. He has 6 years of research and teaching experience. His main area of research includes gamma radiation shielding properties of polymer composite materials and Thermo Luminescent Dosimeter (TLD) materials. He has more than 10 national and international publications in the field of nuclear radiation protection and Thermo Luminescent Dosimeters.

ACADEMICS:

Sl. No.	Degree Obtained	Board/University	Year
1	SSLC	Karnataka Education Examination Board	2007
2	PUC	Department of Pre-University Education	2009
3	B.Sc	Karnatak University, Dharwad	2012
4	M.Sc.	Mangalore	2014



University

5

Ph.D.

Mangalore
University

2021

RESEARCH PUBLICATIONS:

1. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, Benny George, and H.M. Somashekarappa (2019). Effects of Hematite-Lead Oxide Combination in Ethylene Propylene-Diene Monomer on Shielding 59.54 keV Gamma Rays. *Radiat. Phys. Chem.*, 156, 50-57.
2. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa (2018). Studies on the Effect of PbO-Magnetite (Fe₃O₄) on Shielding Properties of EPDM Composites for 662 keV Gamma Rays. *Indian J. Pure Appl. Phys.*, 56, 639- 642.
3. **Vinayak Anand Kamat**, K. Swaroop, K. U. Kiran, K. M. Eshwarappa & H. M. Somashekarappa (2021). Studies on the effects of Fe₃O₄-PbO combinations in peroxide vulcanisation of EPDM and shielding 59.54 keV gamma rays. *Radiat. Eff. Defects Solids*, 176, 690-703.
4. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa (2019). Preparation and Characterization of Hematite and Lead Oxide based Flexible EPDM Composites for Shielding Gamma Rays. *AIP Conf. Proc.*, 2115, 030047.
5. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa (2020). Optimization of PbO/Fe₃O₄/EPDM Flexible Composites for Gamma Shielding Applications. *AIP Conf. Proc.*, 2244, 040004.
6. M. Sheela, **Vinayak Anand Kamat**, K.U. Kiran, and K.M. Eshwarappa (2019). Preparation and Characterization of Bismuth-Filled High Density Polyethylene Composites for Gamma-Ray Shielding. *Radiat. Prot. Environ.*, 42, 180-186.
7. M. Sheela, **Vinayak Anand Kamat**, and K.M. Eshwarappa (2019). Mechanical and Electrical Properties of Bismuth Filled High Density Polyethylene Composites. *Int. J. Adv. Res. Innovative Ideas Educ.*, 5, 1176-1181.
8. K. Sharmila, **Vinayak Anand Kamat**, K. Swaroop and H.M. Somashekarappa (2019). Thermoluminescence Properties of TiO₂ Nanoparticles Synthesized using Co Precipitation Method. *AIP Conf. Proc.*, 2162, 020102.
9. Sheela M., **Vinayak Anand Kamat**, Kiran K.U., and Eshwarappa K.M



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- (2019). Nuclear Radiation Shielding Properties of Bismuth filled high-density polyethylene composites. *J. Rajasthan Acad. Phys. Sci.*, 18, 183-192.
10. K. Sharmila, **Vinayak Anand Kamat**, K. Swaroop and H.M. Somashekarappa (2020). Thermoluminescence Properties of Li doped TiO₂ Nanoparticles Synthesized using Co-Precipitation Method. *AIP Conf. Proc.*, 2244, 090003.
 11. K. Swaroop, M.J. Gaana, S.S. Shruthi, Shrinidhi, L.P. Shrikant, **A.K. Vinayak**, and H.M. Somashekarappa (2019). Studies on Swelling Behavior of Radiolytically Synthesised PVA/Gelatin Hydrogels. *AIP Conf. Proc.*, 2115, 030050.
 12. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa (2018). Studies on Effect of Magnetite (Fe₃O₄) on Shielding Properties of Natural Rubber Composites for 662 keV Gamma Ray. *Int. Conf. Recent. Adv. Mater. Sci. Biophys. (RAMSB) Conf. Proc.*, 145-148, ISBN 978-93-5291-953-6.
 13. P.V. Thulasi, Antony Joseph, Somashekarappa H.M., **Vinayak Anand Kamat** (2021). Coherent scattering cross sections of some rare earth compounds at small angles below 10° for 662 keV gamma rays, *65th DAE BRNS Symp. Nucl. Phys. Proc.*, 65 (2021), 812-813. ISBN 818372084-6.
 14. P.V. Thulasi, Antony Joseph, K.M. Varier, Somashekarappa H.M., **Vinayak Anand Kamat**, Vishnu C.V. (2023). Coherent scattering cross sections of some rare earth compounds at small angles below 10° for 59.54 keV gamma rays, *Radiat. Phys. Chem.*, 202, 110539.
 15. Sharmila Kankanady, Somashekarappa Hiriyur Mallaiah, Nimitha S. Prabhu, Sudha D. Kamath, **Vinayak Anand Kamat**, Kumaraswamy Swaroop. (2023). Thermoluminescence Properties of Copper Doped TiO₂ Nanoparticles Synthesized using Co precipitation Method for High Dose Gamma Dosimetry, *Radiat. Prot. Dosim.* <http://doi.org/10.1093/rpd/ncad249>.

Papers Presented in National and International Conference/Seminars/Symposiums
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1. **Vinayak Anand Kamat** and H.M. Somashekarappa. Study of Ethylene Propylene Diene Monomer-Lead Monoxide-Magnetite Composites in Radioactive Waste Disposal. 2nd National Conference on Radiation Physics (NCRP-2022), Bangalore University, Jnana Bharathi Campus, Bengaluru, India, from 15th to 16th December 2022.



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2. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa. Optimization of PbO/Fe₃O₄/EPDM Flexible Composites for Gamma Shielding Applications. International Conference on Physics of Materials & Nanotechnology, Mangalore University, Mangalagangothri, India, from 19th to 21th September 2019.
3. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa. Preparation and Characterization of Hematite and Lead Oxide based Flexible EPDM Composites for Shielding Gamma Rays. **63th DAE Solid State Physics Symposium**, Guru Jambheshwar University of Science & Technology, Hisar, India, from 18 to 22th December 2018.
4. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa. Evaluation of Gamma Shielding Parameters of PbO-Hematite (Fe₂O₃) Filled EPDM composites. National Seminar on Applications of Radioisotopes and Radiation in Industry, Healthcare and Agriculture, St. Aloysius College (Autonomous) and National Association for Applications of Radioisotopes and Radiation in Industry (NAARRI), Mangalore, India, from 10 to 11th September 2018.
5. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa. Studies on Effect of Magnetite (Fe₃O₄) on Shielding Properties of Natural Rubber Composites for 662 keV Gamma Ray. International Conference on Recent Advances in Materials Science and Biophysics, Mangalore University, Mangalagangothri, India, from 23th to 25th January 2018.
6. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa. Studies on Effect of PbO-Magnetite (Fe₃O₄) on Shielding Properties of EPDM Composites for 662 keV Gamma Rays. National Conference on Radiation Physics, Bangalore University, Bangalore, India, from 23th to 24th November 2017.
7. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa. Studies on Effect of PbO-Magnetite (Fe₃O₄) on Shielding Properties of EPDM Composites for 123 keV Gamma Rays. National Conference on Recent Trends in Applied Science and Technology, Alliance College of Engineering and Design, Bangalore, India, from 26 to 27th October 2017.
8. **Vinayak Anand Kamat**, K. Swaroop, K.U. Kiran, and H.M. Somashekarappa. Studies on Effect of PbO-Hematite (Fe₂O₃) on Shielding Properties of EPDM Composites for 662 keV Gamma Rays. National Conference on Reaching the Unreached through Science and Technology:



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Recent Advance in Physical, Chemical, Mathematical and Biological Science for Energy, Health and Environment, Mangalore University, Mangalagangothri, India, from 8 to 9th September 2017.

9. K. Sharmila, Nimitha S. Prabhu, Sudha D. Kamath, **Vinayak Anand Kamat**, K. Swaroop and H.M. Somashekarappa. Thermoluminescence Properties of Copper Doped TiO₂ Nanoparticles Synthesized using Co-precipitation Method for High-Dose Gamma Dosimetry. 2nd National Conference on Radiation Physics (NCRP-2022), Bangalore University, Jnana Bharathi Campus, Bengaluru, India, from 15th to 16th December 2022.
10. K. Sharmila, **Vinayak Anand Kamat**, K. Swaroop and H.M. Somashekarappa. Thermoluminescence Properties of TiO₂ Nanoparticles Synthesized using Co Precipitation Method, International Conference on Advanced Materials, Nirmalagiri College, Kannur, India, from 12 to 14th June 2019.
11. K. Swaroop, M.J. Gaana, S.S. Shruthi, Shrinidhi, L.P. Shrikant, **A.K. Vinayak**, and H.M. Somashekarappa, Studies on Swelling Behavior of Radiolytically Synthesised PVA/Gelatin Hydrogels, **63th DAE Solid State Physics Symposium**, Guru Jambheshwar University of Science & Technology, Hisar, India, from 18 to 22th December 2018.
12. P.V. Thulasi, Antony Joseph, Somashekarappa H.M., **Vinayak Anand Kamat**, Coherent scattering cross sections of some rare earth compounds at small angles below 10° for 662 keV gamma rays, **65th DAE BRNS Symposium on Nuclear Physics**, DAE Convention Centre, Anushaktinagar, Mumbai, India, from 1 to 5th December 2021.

TEACHING EXPERIENCE:

- Worked as **Guest Lecturer** in **Govt. First Grade Degree College**, Honnavar, from 11th August 2014 to 14th January 2015
- Worked as Guest Faculty in the Medical Physics Division, Mangalore University, from 07th August 2018 to 31st July 2019.
- Worked as Guest Faculty in the Medical Physics Division, Mangalore University, from 01st August 2019 to 31st October 2020.
- Presently working as a Lecturer at Department of Physics, Anjuman Arts, Science, Commerce College and PG Centre, Bhatkal from 02 November 2021.



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ACHIVEMENTS:

- ❖ Undergone "**the Specialised Training on Dry Rubber and Latex compounding**" at Rubber Training Institute (RTI), Kottayam in 2016.
- ❖ "**Best Oral Presentation**" has been Awarded in the "National Conference on Radaition Physics" held at Bangalore University in 2017.
- ❖ "**Young Researcher Award 2022**" has been Awarded from "**Institute of Scholars (InSc)**" for the work "**Studies on the effects of Fe_3O_4 -PbO combinations in peroxide vulcanization of EPDM and shielding 59.54 keV gamma rays**"

MEMBER

- ❖ Editorial member of "**EDWIN GROUP OF JOURNALS**", E-Elsevier, India.
- ❖ Reviewer and Life member of "**Institute of Scholars-InSc**", ISO 9001:2015 certified company.



WORKSHOP REPORT: BASICS OF RESEARCH METHODOLOGY

Date: July 18, 2023

Venue: Anjuman Arts, Science and Commerce College

Organized by: Anjuman Arts, Science and Commerce College in collaboration with Disha EduCare

Participants: 31 students

Introduction

On July 18, 2023, Anjuman Arts, Science and Commerce College, in collaboration with our MoU partner Disha EduCare, organized a workshop titled “Basics of Research Methodology.” The workshop aimed to provide students from both institutions with foundational knowledge and skills in research methodology.

Objectives

The primary objectives of the workshop were to:

- Introduce students to the fundamental concepts of research methodology.
- Equip students with the skills necessary to design and conduct research.
- Foster collaboration and knowledge exchange between students of both institutions.

Workshop Details

The workshop commenced with an inaugural session, where the principal of Anjuman Arts, Science and Commerce College welcomed the participants and emphasized the importance of research in academic and professional growth. Representatives from Disha EduCare also shared their insights on the significance of research methodology.

Sessions

The workshop was divided into several sessions, each focusing on different aspects of research methodology:

1. **Introduction to Research Methodology**
 - Definition and importance of research.
 - Types of research: Qualitative and Quantitative.
2. **Research Design**
 - Formulating research questions and hypotheses.
 - Designing a research study.
3. **Data Collection Methods**
 - Various data collection techniques.
 - Tools and instruments for data collection.
4. **Data Analysis**
 - Introduction to data analysis techniques.
 - Using software tools for data analysis.



5. Report Writing and Presentation

- Structuring a research report.
- Effective presentation of research findings.

Participation and Interaction

A total of 31 students actively participated in the workshop. The interactive sessions allowed students to engage with the speakers, ask questions, and discuss their research ideas. Group activities and practical exercises were conducted to reinforce the concepts learned during the sessions.

Feedback and Conclusion

The workshop concluded with a feedback session where participants shared their experiences and suggestions. The feedback was overwhelmingly positive, with students appreciating the comprehensive coverage of topics and the practical approach of the sessions.

The workshop on “Basics of Research Methodology” successfully achieved its objectives, providing students with valuable insights and skills that will aid them in their academic and research endeavors. The collaboration between Anjuman Arts, Science and Commerce College and Disha EduCare was instrumental in the success of this event, and both institutions look forward to organizing similar workshops in the future.


IQAC & NAAC CO-ORDINATOR
Anjuman Arts, Science,
Commerce College & P.G. Centre
Bhatkal




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