

ST. PHILOMENA'S COLLEGE

(Autonomous), Mysore -15



A Comprehensive Report on the 6 - Day Faculty Development Programme

organised by the IQAC for the faculty members of UG & PG programmes





06 to 11 January 2025



"Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

Prepared by

Dr. Deepa V IQAC Co-Coordinator Mr. A. Thomas Gunaseelan IQAC Coordinator



ST. PHILOMENA'S COLLEGE

(Autonomous), Mysore -15



6 - Day Faculty Development Programme on

"Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

by the IQAC for the faculty members of UG & PG programmes

06th to 11th January 2025 College UG Auditorium







Inauguration: 06th Jan' 2025 at 02:00 pm

President

Rev. Dr. Lourdu Prasad Joseph Rector

Presence

Rev. Fr. Gnana Pragasam Administrator

Rev. Fr. David Sagayaraj S. Assistant to Rector

Dr. Ravi J.D. Saldanha Principal

Dr. Deepa V. Co-Coordinator - IQAC Mr. A. Thomas Gunaseelan Coordinator - IOAC



and the state of

Preamble: In today's dynamic academic landscape, higher education educators are not just instructors but torchbearers of innovation and scholarly excellence. As the demand for impactful research and high-quality publications continues to grow, educators need to embrace advanced methodologies and innovative strategies to stay ahead in their fields. The Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications" is a specially designed initiative aimed at equipping higher education teachers with the knowledge and skills required to excel in research and academic publishing. This programme will provide insights into cutting-edge research methodologies, practical tools for data analysis, and strategies for crafting compelling manuscripts for top-tier journals.

Target Group: All the in-house teaching faculty and research scholars of the Undergraduate and Postgraduate programmes of St. Philomena's College (Autonomous), Mysore.

Salient features of the FDP

Day 1: Research Foundations and Literature Review

Introduction to Research Paradigms

- · Identifying Gaps and Framing Research Questions
- · Tools for Literature Review (Zotero, Mendeley, etc.)

Day 2: "Harnessing AI for Advancing Research Practices"

- Accelerating Literature Review & Managing Research Data
- · AI in addressing plagiarism & AI enhanced Analysis and Visualization
- · References and Citations Management

Day 3: "Future Research Directions and Collaboration"

- Exploring Interdisciplinary and Collaborative Research Opportunities
- Emerging Trends in Academic Research
- Best Practices for Sustaining Research Productivity

Day 4: "Structuring and Writing a Research Paper"

- Understanding the Anatomy of a Research Paper
- · Writing Effective Abstracts, Introductions, and Discussions
- Managing References and Avoiding Plagiarism

Day 5: "Publication Ethics & New Scholarly Publishing Models"

- · How to Choose the Right Journal (Scopus, Web of Science, UGC CARE)
- Navigating the Peer Review Process
- Strategies for Enhancing Acceptance Rates

Day 6: "Data Collection and Analysis"

- Selecting and Using Statistical Tools (SPSS, R, etc.)
- · Qualitative Data Analysis Techniques (Thematic Analysis, NVivo)
- Data Visualization for Research Presentation



Programme

Day 1: 06th January 2025 (01:30 pm to 04:30 pm)
Inauguration

Rev. Dr. Lourdu Prasad Joseph, Rector

Session 1: "Research Foundations and Literature Review"

Prof. Dr. Krishnaveni,

Professor Department of Studies in Physics

Professor, Department of Studies in Physics,
University of Mysore

Day 2: 07th January 2025 (02:00 pm to 04:30 pm)
Session 2: "Harnessing AI for Advancing Research Practices"

Dr. Mohammed Minhai.

Dean - Academics, SDMIMD, Mysore

Day 3: 08th January 2025 (02:00 pm to 04:30 pm)
Session 3: "Future Research Directions and Collaboration"
Dr. T. S. Harsha.

Chairman, Department of Environmental Science, Director (R&D) & Special Officer - Ph.D. Cell, KSOU, Mysore

Day 4: 09th January 2025 (02:00 pm to 04:30 pm) Session 4: "Research Methodology and Design"

Prof. Dr. G.S. Premakumara,

Professor, DOS in Economics, Sir MV PG Centre, UOM, Tubinakere, Mandya

Day 5: 10th January 2025 (02:00 pm to 04:30 pm)
Session 5: "Publication Ethics & New Scholarly Publishing Models"

Dr. Vasantha Raju N.,

Principal (Incharge) & Librarian, GFGC, Talakadu, Mysore

Day 6: 11th January 2025 (10:00am - 01:30 pm)

Session 6: "Data Collection and Analysis"

Prof. Dr. Lancy D' Souza,

Professor & Head, Department of Psychology, Maharaja's College, Mysore

Advisory Committee

Rev. Dr. Lourdu Prasad Joseph - Rector

Rev. Fr. Gnana Pragasam - Administrator

Rev. Fr. David Sagayaraj S. - Assistant to Rector

Dr. Ravi JD Saldanha - Principal

Mr. M. Nagaraj Urs - Vice Principal (Academic)

Mr. Ronald Prakash Cutinha - Vice Principal (Administration)

Mr. A. Thomas Gunaseelan - IQAC Coordinator

Dr. Reena Francis - Controller of Examinations

Dr. Noor Mubasheer C.A. - PG Coordinator

Dr. Alphonsus D'Souza - UUCMS Coordinator

Dr. Sunil D' Souza - ICT Coordinator

Ms. Agnes Sylvia D'Souza - Dean of Sciences

Mr. Sadebose A.T. - Dean of Languages

Dr. Praveen Saldanha - Dean of Arts

Organizing Committee

Dr. Deepa V. - IQAC Co-Coordinator & Asst. Professor of BBA

Dr. Prashanth D.A. - Assistant Professor of History

Ms. Neena P.K. - Academic section Co-Coordinator

Dr. Sandesh D' Souza - Assistant Professor of Commerce

Dr. Asha M.S. - Head, PG Department of Chemistry

Mr. William Joseph - Head, Department of English

Ms. Shruthi Menezes - Head, Department of Mathematics

Ms. Arshiya Khanum - Assistant Professor of BBA

Mr. Babu P. - Head, Department of Malayalam

Dr. Bharatha K. - Head, PG Department of Mathematics

Dr. Felan Amal - Head, PG Department of Physics

Dr. Shivakumar A. - Associate Professor of PG Chemistry

Dr. Zabiulla - Assistant Professor of PG Chemistry

Ms. Mirium Precilla, IQAC Office

For correspondence: spciqac@stphilos.ac.in



St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

Inauguration

A Hearty Welcome to the Delegates





06th January 2025 02:00 pm





St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

an IQAC initiative

Prof. Dr. Krishnaveni S.
Professor and Chairperson,
DOS in Physics,
University of Mysore







Day 1 "Research Foundations and Literature Review"



ADDRESS

Dr. (Mrs.) S. KRISHNAVENI

M.Sc., Ph.D.

Associate Professor in Physics Department of Studies in Physics University of Mysore, Manasagangotri Mysuru-570006, Karnataka, India Phone: 9844023568/0821 – 2419601 E-mail: sk@physics.uni-mysore.ac.in.

EDUCATION

1. Ph.D., (Physics), 2003, University of Mysore; 'Studies on incoherent scattering cross sections of gamma rays by elements'.

Research guide: Prof. Ramakrishna Gowda, Ph.D.

2. M.Sc., (Physics), 1997, University of Mysore, Mysore, Major Field - Nuclear Physics, (81.3%)

First class, 1st Rank. Winner of Four Gold Medals in M.Sc (Physics). Passed State Level Eligibility Test (SLET) conducted by Government of Karnataka during 1997

3. B.Sc., (Physics, Mathematics, Chemistry), 1995, University of Mysore; First class.

RESEARCH INTERESTS

- Studies on radiation induced defects in semiconductor devices.
- Reliability studies on electronic devices and circuitry.
- Studies on the incoherent scattering of gamma rays to determine the differential scattering cross sections.
- Studies on the K-shell and L-shell x-ray fluorescence cross sections.
- Studies on the effective numbers and electron densities of some chemical compounds.
- Understanding biomolecular mechanisms using Molecular Dynamics simulation techniques.

PROFESSIONAL EXPERIENCE:

Research: Since 1997

Teaching: Since 2003, Teaching Post-Graduate students leading to M.Sc.

Degree in Physics.

Subjects taught: Nuclear Physics, Classical Mechanics, Mathematical methods

of Physics, General Theory of relativity, Electromagnetism,

Quantum Mechanics and Accelerator physics.

TEACHING COURSES:

2 Year M.Sc.: Mathematical methods, Classical Mechanics, Quantum mechanics, Nuclear Physics, Accelerator Physics.

5 Year Integrated M.Sc.: Electrodynamics, Quantum mechanics, Nuclear Physics, Mathematical methods.

Details of Appointments held:

- 1999-2001: Junior Research Fellowship- University postgraduate junior research fellowship, Department of Studies in Physics, University of Mysore, Mysore.
- 2001-2002: Senior Research Fellowship- University postgraduate Senior research fellowship, Department of Studies in Physics, University of Mysore, Mysore.
- 3. 2002-2005: Senior Research Fellowship-CSIR-SRF, Department of Studies in Physics, University of Mysore, Mysore.
- 4. 2005-2006: Research Associate-CSIR-RA, Department of Studies in Physics, University of Mysore, Mysore.
- 5. 2006-2007: Lecturer at the Maharani's Science college for women, Mysore.
- 2007 till date: Lecturer at Department of Studies in Physics, University of Mysore, Mysore.

TEACHING EXPERIENCE:

2001-2006, *Taught M.Sc. students*, Dos in Physics, University of Mysore, Mysore. July 2006 – July 2007, Lecturer *in Physics*, Maharani's science college for women, Govt. of Karnataka, Mysore.

July 2007 -till date, Assistant Professor in Physics, University of Mysore, Mysore.

AWARDS AND FELLOWSHIPS:

- Passed State Level Eligibility Test (SLET) conducted by Government of Karnataka during 1997.
- Four Gold medals for securing FIRST rank in M.Sc. With 81.3% during 1997-1998, from the University of Mysore.
- University Junior Research Fellowship awarded from University of Mysore, Mysore (1999-2001)
- University Senior Research Fellowship awarded from University of Mysore, Mysore (2001-2002)

- Senior research fellowship awarded from Council of Scientific and Industrial Research, New Delhi (2002-2005)
- Research Associate awarded from Council of Scientific and Industrial Research, New Delhi (2002-2005).
- Best paper presentation award for our paper entitled Measurement of K_{α} and K_{β} XRF cross sections for the elements Ag, Cd, In, Sn, and Teexcited by 122 keV photons by T.Yashoda and S.Krishnaveni, presented in the 2^{nd} National Women's Science Congress, held at All India Speech and Hearing Institution (AIISH), Mysore, during 7-9, Nov. 2009.
- Best Poster Award for the paper "30 and 60 MeV Boron Ion Irradiation Effects on Electrical Characteristics of Bipolar Transistor", K. S. Krishna Kumar, C.M. Dinesh, Ramani, S.A. Khan, M.Vinay Kumar, S. Krishnaveni, B. Jayashree, Ist International conference on Physics of Materials and Material Based Device Fabrication, 17th -19th January 2012, Shivaji University, Kolhapur, India.
- Secured Best Oral Presentation (III Place) Award for the paper "MODIFICATION IN ELECTRICAL PROPERTIES OF SILICON PHOTO-DETECTOR DUE TO 100MeV Si ⁷⁺ ION IRRADIATION" at National conference on Solar Energy and its Application (NCSEA2013) on 9th April 2013 at Maharani's science college for women, Bangalore-560001.
- Attended International training program on leadership and career development for women scientists and technologists by DST from 26th August to and 4th September 2015 at IISER, Pune.

Foreign Exposure:

Attended "Career Development Workshop for Women in Physics" held at The Abdus Salam International Center for Theoretical Physics, Trieste, Italy, during 12-16 October 2015".

Invited talk:

International Conference on Advances in Science and Engineering, Bangkok, Thailand, 19-22, Jan 2017

Research projects completed:

Sl. No	Title	Agency	Period	Grants/Amount (Rs. In Lakhs)
1.	Studies on the incoherent scattering cross sections for high Z-elements at lower momentum transfers	University of Mysore, Mysore	2 yrs	1
2.	Studies on the irradiation effects on the semiconductor devices	UGC	3 yrs	3.25
3.	Irradiation effects on advanced optoelectronic devices	IUAC	3 yrs	5
4.	Research and Development of RPC detectors for INO project	DST	3 yrs	8.77
5.	R & D Efforts by University Groups for INO project	DST	3 yrs	59.81
6.	Studies on GTPases using Molecular Dynamics simulations. Funding Agency: University of Mysore. Amount: 75 Thousand.	University of Mysore, Mysore	6 months	1
7.	Studies on ion beam induced defects in GaN Schottky Interfaces (LEIBF)	IUAC, New Delhi	3 yrs	1
8.	Studies on ion beam induced defects in GaN Schottky Interfaces (HE)	IUAC, New Delhi	3 yrs	1
9.	Molecular Dynamics-PR	NPSF-CDAC	1 yr	Computing time

PROFESSIONAL AFFILIATIONS:

- 1. Life member Indian Society for Radiation Physics (NSRP), Mumbai.
- 2. Life member Swadeshi Vijnana Andholana Karnataka (SVAK), Bangalore.
- 3. Member: Member-India based Neutrino Observatory (INO) group, Mumbai.
- 4. Life Member- Indian Science congress, Kolkata.

PUBLICATIONS

33 publications in reputed National and International Journals like Nano Energy, Scientific Reports, Nanomaterials, Nuclear Science and Engineering (USA), Nuclear Instruments and Methods (Netherlands), Radiation Physics and Chemistry, Pramana Journal of Physics etc.38 papers presented in national and international symposia.

Peer reviewed International/National Journals	= 33
International/National Conferences proceedings	= 38
Book Chapter	= 01
Total Number of publications	= 72

List of publications:

Papers published in the national and international reviewed journals:

- Anup Pandith , Upendra N , Ravi Kumara Guralamatta Siddappa , Sungjin Lee, Chin–Ju Park, Krishnaveni S, Young Jun Seo Loop-mediated fluorescent probes for selective discrimination of parallel and antiparallel G-Quadruplexes. Bioorganic & Medicinal Chemistry, 35, 116077 2021. IF:3.073
- 2. Upendra N. and **Krishnaveni S.** Molecular dynamics simulation study on Thermotoga Maritima ENGA: GTP/GDP bound state of the second G-domain influences the domain-domain interface interactions. https://doi.org/10.1080/07391102.2020.1826359. IF:3.31
- 3. Kumar S., Kumar M.V., Kumar, Ashish Kumar, Asokan K and **Krishnaveni S**, Enhancement of Electrical Parameters of Ni/n-GaN SBDs under Remote and not In-flux Gamma Irradiation. ECS Journal of Solid State Science and Technology, **9**, 093017, **2020**. IF:2.142
- Kumar, S. Zhang, X. Mariswamy, V.K. Reddy, V.R.; Kandasami, A. Nimmala, A. Rao, S.V.S.N., Tang, J. Ramakrishnna, S. and Krishnaveni S. Medium Energy Carbon and Nitrogen Ion Beam Induced Modifications in Charge Transport, Structural and Optical Properties of Ni/Pd/n-GaN Schottky Barrier Diodes. Materials, 13, 1299, 2020.IF:3.057
- 5. Kumar, S., Kumar, M. V., & **Krishnaveni**, S. Fabrication and Analysis of the Current Transport Mechanism of Ni/n-GaN Schottky Barrier Diodes through Different Models. Semiconductors, *54*(2), 169-175, **2020**.IF:0.641
- Santosh Kumar, Mariswamy, V. K., Kumar, A., Kandasami, A., Nimmala, A.,S.V.S. Nageshwara Rao, V. Rajagopala Reddy & Krishnaveni, S. Ar Ion Irradiation Effects on the Characteristics of Ru|Pt|n-GaN Schottky Barrier Diodes. 54(12),1641-1649, 2020. IF: 0.641.
- 7. Upendra N., and **Krishnaveni S.,** Molecular Dynamics Simulations On *Bacillus Subtilis* Enga For Exploring Nucleotide Dependent Conformations. Proceedings of Royal Society of Chemistry. p3-8, https://doi.org/10.1039/9781839160783-00001.
- 8. Dry-Coated Graphite onto Sandpaper for Triboelectric Nanogenerator as an Active Power Source for Portable Electronics, Smitha Ankanahalli Shankaregowda, Rumana Farheen Sagade Muktar Ahmed, Yu Liu, Chandrashekar Bananakere Nanjegowda, Xing Cheng, Srikantaswamy Shivanna, Seeram Ramakrishna, Zhenfei Yu, Xiang Zhang and **Krishnaveni S.** Nanomaterials, 9, 1585, **2019.IF:4.324**
- Smitha A. S., Rumana Farheen S. M., Chandrashekar B. N., Jingwei Wang, Shi Rong Guan, Madhusudan P., Abbas Amini, Yulong Z, Dejun K, Krishnaveni S, Wang F. and Cheng C., Single-Electrode Triboelectric Nanogenerator Based on Economical Graphite Coated Paper for Harvesting Waste Environmental Energy, Nano Energy, 66, 104141, 2019.IF:16.602
- 10. Chandrashekar B. N., Smitha A. S., Wu Y., Cai N., Li Y., Huang Z., ... & **Krishnaveni S.** A Universal stamping Method of Graphene transfer for Conducting Flexible and transparent polymers. *Scientific reports*, *9*(1), Nature series, 3999, 2019.IF:3.998

- Raphael N., Namratha K., Chandrashekar B. N., Sadasivuni K. K., Ponnamma D., Smitha A. S., Krishnaveni S., Chen Chung and Byrappa K., Surface modification and grafting of carbon fibers: A route to better Interface. Progress in Crystal Growth and Characterization of Materials, 64(3), 75-101, 2018. IF:6
- 12. Santosh Kumar, Vinay Kumar M., Nalini B. K. & **Krishnaveni S**. Study of Electrical Transport Characteristics of Ni/p-GaNSchottky diodes, ISBN 978-1-5386-7322-5/18, 2018.
- 13. Santosh Kumar, Vinay Kumar M., Manjunatha Pattabi, Asokan K., Xavier, Nini, Martin, ChandrashekarB. N., Cheng Chun, **Krishnaveni S**. Effect of Gamma Irradiation on Eelectrical properties of CdTe/Cds Solar cells. Proceedings of Materials Today, 5, P22570-75, 2018.
- 14. RumanaFarheen S. M. and **Krishnaveni S.** Determination of gamma shielding characteristics of some wood samples available in and around Mysuru, proceedings of NRM, P25-26, Vol.II, ISBN 978-93-5682-405-8, 2018.
- 15. Upendra N, Abhishek Acharya, Balaji Prakash and **Krishnaveni S.** Conformational Studies on *Bacillus Subtillis* RbgA using Molecular Dynamics Simulations, P69-72, ISBN 978-93-5291-953-6, 2018.
- Santosh Kumar, Vinay KumarM., Srinivas R. N., Krishnaveni S. Electrical characterization of Ni/nGaNschottky diodes, P356-358, ISBN 978-93-5291-953-6, 2018.
- 17. Shakeel Ahmed et al., **Krishnaveni S.** Physics potential of the ICAL detector at the India-based neutrino observatory (INO), Pramana-J Phys. 88:79, doi:10.1007/s12043-017-1373-4, 2017.
- 18. Vinay Kumar M., Santosh kumar, Chun Cheng, Asokan K., Shobha V., Karanth S. P., & **Krishnaveni S.** Influence of High Dose Gamma Irradiation on Electrical Characteristics of Si Photo Detectors. ECS Journal of Solid State Science and Technology, 6(10), Q132-Q135, 2017.
- 19. Aneeshkumar K. V., **Krishnaveni S.**, Ranganathaiah C. and Ravikumar H. B. Effect of electron beam irradiation on the microstructure, optical and electrical properties of glass resistive plate chamber detector material, Appl. Phys. A. 123, 535, 2017.
- 20. Aneesh Kumar K.V., **Krishnaveni S.,** Nambissan P.M.G., Ranganathaiah C. and Ravikumar H.B.Oxygen ion implantation induced structural modifications and electrical conductivity in glass RPC detector materials: A positronlifetimestudy, *Journal of Non-crystalline Solids, Eds. Prof. B. G. Potter, Elsevier*, **464** 78–89, 2017.
- 21. Aneesh Kumar K.V., **Krishnaveni S.**, Asokan K., Ranganathaiah C. and Ravikumar H.B.Comparative study of 150 keVAr+ and O+ ion implantation induced structural modification on electrical conductivity in Bakelite polymer, *Journal of Physics And Chemistry Of Solids, Eds. Prof. A. Bansil, Elsevier*, **113** 74–81, 2018.
- 22. Vinay Kumar M., ShammiVerma, Shobha V., Jayashree B., Kanjilal D., Ramani and **Krishnaveni S.**,In-situ Electrical characteristics of 150MeV Ag9+ Ion Beam Induced Damage in Si Photo detector, ECS Journal of Solid State Science and Technology, 5 (7) P384-P388 (2016).

- 23. Vinay Kumar M., Santosh Kumar, Yashoda T., **Krishnaveni S.**, SHI Induced Damage in Electrical Properties of Silicon NPN BJTs, AIP Conf. Proc. **1731**, 120031 (2016).
- 24. Vinay Kumar M., Yashoda T., Dinesh M. C., Krishnakumar S. K., Jayashree B., Ramani, and **Krishnaveni S.**, A Comparative study of 30MeV Boron4+ and 60MeV Oxygen8+ ion irradiated Si NPN BJTs, AIP Conf. Proc. 1665, 120039 (2015).
- 25. Vinay KumarM., ShammiVerma, ShobhaV., JayashreB., KanjilalD., Ramani and **Krishnaveni S.**,100 MeV Si7+ Ion Irradiation induced modifications in electrical characteristics of Si Photo detector: An In-situ Reliability Study, *Journal of Materials Science Research*, Vol. 3, No. 3; 24-32, 2014.
- 26. Prasanna Kumar, **Krishnaveni S.,** and UmeshT.K., *Eur. J. Phys.* Determination of rest mass energy of the electron by a Compton scattering experiment, 33, 65–72, 2012.
- 27. Vinay Kumar M., Krishnakumar K. S., Dinesh C.M., **Krishnaveni S.**, Ramani. Effect of 100 MeV Oxygen Ion Irradiation on Silicon NPN Power Transistor. *AIP Conference Proceedings*, Volume 1447, pp. 1085-1086, 2012.
- 28. **Krishnaveni S.** and Ramakrishna Gowda.Incoherent scattering functions of iron, copper, zirconium, tin, tantalum, tungsten, gold and lead in the momentum range 2≤q≤46 Å ⁻¹ at 661.6 keV photon energy.*Nucl.Instrum.Method B.* Vol. 229/3-4, 333-338, 2005.
- 29. **Krishnaveni S.,** ShivalingeGowda, Yashoda T, Umesh T.K. and Ramakrishna Gowda. Incoherent scattering of ¹³⁷Cs gamma rays in rare earth elements Nd, Sm, Gd, Dy, Er and Yb. *Rad.Phys. Chem.* Vol.74, Issue 1, 1-6, 2005.
- 30. Yashoda T., **Krishnaveni S.** and Ramakrishna Gowda.Measurement of Kshell fluorescence yields for the elements in the range 22≤Z≤52 excited by 14.4 and 122 keV photons.*Nucl.Instrum.Meth.B*.Vol.240/3, 607-611.2005.
- 31. ShivalingeGowda, **Krishnaveni S.** and Ramakrishna Gowda, Studies on effective atomic number and electron densities in Amino acids and sugars in the energy range 30-1330 kev.*Nucl.Instrum.Meth.B*Vol.239/4, 361-369, 2005.
- 32. ShivalingeGowda, **Krishnaveni S.**, Yashoda T., T.K.Umesh and Ramakrishna Gowda.Photon mass attenuation coefficients, effective atomic numbers and electron densities of some thermoluminiscentdosimetric compounds, *Pramana Journal of Physics*, Vol.63, No.3, 1-13, 2004.
- 33. Yashoda T., **Krishnaveni S.**, ShivalingeGowda, UmeshT.K. and Ramakrishna Gowda,Studies on x-ray fluorescence in some rare earth and high Z elements excited by 661.6 keV gamma rays.*Pramana Journal of Physics*, Vol.58, No.1, 31-38, 2002.
- 34. MallikarjunaM.L, AppajiGowda, **Krishnaveni S.**, Ramakrishna Gowda and T.K Umesh. Studies on the photon interaction around the K-absorption of some elements. *Nucl. Sci. Eng.* 140, 96-102, 2002.

Papers presented in National and International Symposia:

- Study of photon interaction around the K-edge of some elements. G. SriPrakash, N.Ramesh Reddy, Krishnaveni S., Ramakrishna Gowda and T.K. Umesh presented in the 8th International symposium on Radiation Physics held at Prauge, during 5-9th June 2000.
- 2. Attenuation coefficients for photon energy absorption of some thermoluminiscentdosimetric compounds, ShivalingeGowda, Krishnaveni S., T. Yashoda, T.K. Umesh and Ramakrishna Gowda, presented in the 14th National symposium on Radiation Physics, held at Guru Nanak University, Amritsar during 1-3, Nov. 2001, P-51, 282.
- 3. Incoherent scattering functions of iron and copper at 661.6 keV incident photon energy, **Krishnaveni S.**, ShivalingeGowda, T.Yashoda, T.K. Umesh and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai during 12-14, Nov. 2003, P-77, 319.
- 4. K x-ray production cross sections and fluorescence yields in some low Z elements excited by 14.4 keV photons, T.Yashoda, Krishnaveni S., ShivalingeGowda, T.K. Umesh and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai during 12-14, Nov. 2003, P-78, 323.
- **5.** Effective atomic numbers and electron densities of some halides, ShivalingeGowda, **Krishnaveni S.**, T. Yashoda and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai **during 12-14, Nov. 2003**, **P-45**, **203**.
- 6. Measurement of K-shell production cross sections for the elements excited by 122 keV photons. T. Yashoda, Krishnaveni S., ShivalingeGowda, T.K. Umesh and Ramakrishna Gowda, presented in the 16th National symposium on Radiation Physics, held at MeenakshiCollege for women, Chennai, during 18-20, Jan. 2006, CP-93, 312.

- 7. Studies on effective atomic numbers and electron densities of some halides, ShivalingeGowda, Krishnaveni S., T. Yashoda and Ramakrishna Gowda, presented in the 16th National symposium on Radiation Physics, held at Meenakshi College for women, Chennai, during 18-20, Jan. 2006, CP-70, 284.
- 8. Measurement of K_{α} and K_{β} XRF cross sections for the elements Ag, Cd, In, Sn, and Teexcited by 122 keV photons.T.Yashoda and **Krishnaveni S.**, presented in the 2nd National Women's Science Congress, held at All India Speech and Hearing Institution (AIISH), Mysore, **during 7-9, Nov. 2009**.
- 9. Differential incoherent scattering cross sections for barium in the angular range 10 to 120°. Krishnaveni S., T.Yashoda, ShivalingeGowda and Ramakrishna Gowda, presented in the 18th National symposium on Radiation Physics, to be held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur 313001 (Rajasthan) India, during November 19-21, 2009, Proceedings of the NSRP-18, p299-301.
- 10. Measurement of K_α and K_β XRF cross sections for the elements Sr, Y, Zr, Moexcited by 122 keV photons.T.Yashoda, **KrishnaveniS.**, ShivalingeGowda and Ramakrishna Gowda, presented in the 18th National symposium on Radiation Physics, to be held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur 313001 (Rajasthan) India, during **November 19-21, 2009, Proceedings of the NSRP-18, p273-274.**
- 11. The studies on effective atomic number and electron densities of some chemical compounds, ShivalingeGowda, T.Yashoda, KrishnaveniS., and Ramakrishna Gowda, presented in the 18th National symposium on Radiation Physics, to be held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur 313001 (Rajasthan) India, during November 19-21, 2009, Proceedings of the NSRP-18, p302-304.
- 12. Measurement of K_{α} and K_{β} XRF cross sections for the elements Ag, Cd, In, Sn, and Teexcited by 122 keV photons by T.Yashoda and **Krishnaveni S.**,

- presented in the 2nd National Women's Science Congress, held at All India Speech and Hearing Institution (AIISH), Mysore, during **7-9**, **Nov. 2009**.
- 13. 60 and 100 MeV Oxygen Ion Irradiation Effects on Electrical Characteristics of Bipolar Transistor, K. S. Krishakumar, C.M. Dinesh, Ramani, M. Vinay Kumar, Krishnaveni S., M. C. Radhakrishna, B. JayashreeInternational Workshop on the Physics of Semiconductor Devices, Dec.19-22,2011. IIT Kanpur, Kanpur India.
- 14. Effect of 100MeV oxygen ion irradiation on silicon NPN power transistor, M. VinayKumar, K.S.Krishnakumar, C.M.Dinesh, Krishnaveni S. Ramani, 56th DAE SSPS, 19–23 December 2011, SRM University, Kattankulathur, Tamilnadu, India.
- 15. Best Poster Award for the paper "30 and 60 MeV Boron Ion Irradiation Effects on Electrical Characteristics of Bipolar Transistor", K. S. Krishna Kumar, C.M. Dinesh, Ramani, S.A. Khan, M.Vinay Kumar, Krishnaveni S., B. Jayashree, Ist International conference on Physics of Materials and Material Based Device Fabrication, 17th -19th January 2012, Shivaji University, Kolhapur, India.
- 16. "Effect of 60 MeV Boron Ion Irradiation on Silicon NPN Power Transistor", M. Vinay Kumar, K. S. Krishnakumar, C.M. Dinesh, B. Jayashree, Ramani, Krishnaveni S., Ist International conference on Physics of Materials and Material Based Device Fabrication, 17th -19th January 2012, Shivaji University, Kolhapur, India.
- 17. Modification in electrical properties of silicon photo detector due to 100 MeV Si⁷⁺ion irradiation. M. Vinay Kumar, K. S. Krishnakumar, C.M. Dinesh, B. Jayashree, Ramani, **Krishnaveni S.**, National conference on Solar Energy and its Application (NCSEA2013) on **9th April 2013** at Maharani's science college for women, Bangalore.
- 18. "Deterioration of Electrical Properties of Si Photo detector under 150MeV Ag⁹⁺ Ion irradiation: An in-situ study "Vinay Kumar M, Shammi Verma, **Krishnaveni S**, Jayashree B, Ramani and Kanjilal D, presented at SHIMEC 2014, IUAC New Delhi during **October 14th to October 17th 2014**.
- 19. "A Comparative study of 30MeV Boron4+ and 60MeV Oxygen8+ ion irradiated Si NPN BJTs" Vinay Kumar M , Yashoda T, Dinesh M C,

- Krishnakumar S K, Jayashree B, Ramani, and **Krishnaveni S**.presented at 59th DAE-SSPS at Vellore Institute of technology, Tamil Nadu, during **16-20**, **December 2014.**
- **20.** "SHI Induced Damage in Electrical Properties of Silicon NPN BJTs" VINAY M KUMAR, SANTHOSH KUMAR, YASHODA T, **Krishnaveni S.**, presented at 60th DAE-SSPS at Amity University, Noida, UP, India, during **21-25, December 2015.**
- 21. Effect of Gamma irradiation on Electrical Properties of CdTe/CdS Solar Cells Santosh Kumar, Vinay Kumar M., ManjunathaPattabi, Asokan K., Xavier, Nini, Martin and **Krishnaveni S.** *International Conference on Advances in Science and Engineering*, Bangkok, Thailand, **19-22**, **Jan 2017**.
- 22. Gamma irradiation on Electrical Properties of CdTe/CdS Solar Cells, Santosh Kumar, Vinay Kumar M., ManjunathaPattabi, Asokan K., Xavier, Nini, Martin and Krishnaveni S. International Symposium on Advanced Materials for Engineering Applications (ISAMEA-2017) March 24-25, 2017 at National institute of Engineering, Mysuru.
- 23. Effect of high dose Gamma irradiation on Electrical Properties of CdTe/CdS S olar Cells, Santosh Kumar, Vinay Kumar M., ManjunathaPattabi, Asokan K., Xavier, Nini, Martin and Krishnaveni S. National symposium on Nano science and Technology, IISC, Bengaluru from July 2-4, 2017.
- 24. "Effect of high dose Gamma irradiation on Electrical Properties of GaAs infrared emitting diode (IRED)". Santosh Kumar, M Vinay Kumar, Asokan K, & Krishnaveni S. National Conference on Science and Technology-Reaching the Unreached-Recent advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment, 8th–9thSeptember, 2017, Mangalore University, Mangalagangotri-574199 Mangalore, Karnataka.
- 25. "Effect of High Dose Gamma Irradiation on Electrical Properties of commercial GaN and GaAs based Optoelectronic Devices". Santosh Kumar, MVinay Kumar, Asokan K, & Krishnaveni S. National Seminar on "Recent Trends in Physics (NSRTP-2017), 26 September 2017, Bharathi College Mandya, Karnataka.
- 26. Conformational Studies on *Bacillus Subtilis*RbgA using Molecular Dynamics Simulations.Upendra N, Abhishek Acharya, Balaji Prakash and **Krishnaveni S.**, International conference on Recent Advances in Materials Science and Biophysics, **January 23-25, 2018**, Mangalore University.

- 27. Electrical characterization of Ni/nGaNschottky diodes, Santosh Kumar, M Vinay Kumar, Srinivas R N, Krishnaveni S. International conference on Recent Advances in Materials Science and Biophysics, January 23-25, 2018, Mangalore University.
- 28. "Simulation studies on RbgA a prokaryotic GTPase involved in Ribosome assembly", Upendra N, Abhishek Acharya, Balaji Prakash and **Krishnaveni S.** National conference on recent advanced materials-2018, **February 23-24, 2018**, Thiruvalluvar University College of Arts and Science, Tamil Nadu.
- 29. Study of Current-Voltage plots by different methods for Ni/n-GaNSchottky diodes.Santosh Kumar, Srinivas R.N. and **Krishnaveni S**. National conference on recent advanced materials-2018, **February 23-24, 2018**, Thiruvalluvar University College of Arts and Science, Tamil Nadu.
- 30. Determination of gamma shielding characteristics of some wood samples available in and around Mysuru, RumanaFarheen S. M. and **Krishnaveni S.**National conference on radiation physics & its applications in material science & medicine, **April-6**th, **2018**, Government College for Women (GCW), Kolar.
- 31. "700 keV O3+ ion implantation induced effects on transport properties of Cr/p-GaNSchottky diode". Santosh Kumar, M Vinay Kumar, V Rajgopal Reddy, **Krishnaveni S**. International Conference on Ion Beams in Materials Engineering and Characterization (IBMEC 2018) organized by Inter University Accelerator Centre (New Delhi) **from 9-12 October 2018**.
- 32. "Molecular Dynamics Simulations on EngA A GTPase involved in Ribosome Assembly". Upendra N., Abhishek Acharya, Balaji Prakash and **Krishnaveni S.**, International Conference on Advanced Functional Materials for Energy, Environment and Health Care (*AFMEEHC*), **March 18-20**, **2019**, VijnanaBhavan, University of Mysore, Mysuru-570006.
- 33. "Flexible and Transparent Electrode based TriboelectricNanogenerator for Efficiently Harvesting Wind Energy". Smitha A.S., RumanaFarheen S. M., and **Krishnaveni S**., International Conferenceon Advanced Functional Materials for Energy, Environment and Health Care (*AFMEEHC*), **March 18-20**, **2019**, VijnanaBhavan, University of Mysore, Mysuru-570006.
- 34. "Comparison of Electrical Parameters of Ni/Pd/n-GaN and Ni/Ru/n-GaN SBD'S Extracted from Different models". Santosh Kumar, Vinay Kumar M. and **Krishnaveni S**. International Conference on Advanced Functional

- Materials for Energy, Environment and Health Care (*AFMEEHC*), **March 18-20, 2019**, Vijnana Bhavan, University of Mysore, Mysuru-570006.
- 35. "Study on variation of structural and electronic properties of hcp Zn at various temperatures. Muniraju M., Somashekar R. and **Krishnaveni S**. International Conference on Advanced Functional Materials for Energy, Environment and Health Care (*AFMEEHC*), **March 18-20, 2019**, Vijnana Bhavan, University of Mysore, Mysuru-570006.
- 36. "Conformational Studies on EngAGTPase using Molecular Dynamics Simulations". Upendra N., Abhishek Acharya, Balaji Prakash and Krishnaveni S. National Seminar on Biomolecular structure and dynamics, March 28-29, 2019, Periyar University, Salem, Tamil Nadu.
- **37.** Environmental friendly method of Graphene Transfer onto Flexible and Transparent Polymers for Triboelectric Nanogenerator. Smitha A S, Rumana Farheen S M and **Krishnaveni S.** 4th International Symposium for Persistent, Bioaccumalating and Toxic Substances (4th PBTs). Harbin Institute of Technology, Shenzhen, China. 21st 23rd June 2019.
- 38. Molecular Dynamics Simulations of *Bacillus Subtilis* EngA For Exploring Nucleotide Dependent Conformations. Upendra N. and Krishnaveni S., Drug Design and Discovery Technologies (CDDT-2019) at Ramaiah University of Applied Sciences, Bengaluru, from Nov 21-22, 2019.

Book Chapter:

Chandrashekar B.N. and **Krishnaveni S**. et al. (2017) and Functional Nanomaterials for Transparent Electrodes. In: Ponnamma D., Sadasivuni K., Cabibihan JJ., Al-Maadeed MA. (eds) Smart Polymer Nanocomposites. Springer Series on Polymer and Composite Materials. Springer, Cham (SSPCM), 978-3-319-50423-0, 2017.



RESEARCH FOUNDATION

Dr. Krishnaveni S.

Professor and Chairperson
Department of Studies in Physics
University of Mysore

Mysuru-06

OUTLINE

- Research
- Classification
- Research foundation
- Research Paradigm
- Theoretical Framework
- Problem Statement
- Objectives and Research Questions
- Methodology

RESEARCH

- Logical and systematic search for new and useful information on a particular topic.
- Search for knowledge, a discovery of hidden truths.
- Investigation of finding solutions to scientific and social problems through systematic analysis.

RESEARCH

- Research is search for knowledge.
- Research as a scientific and systematic search form information on a specific topic.
- Dictionary definition Research is a careful investigation/inquiry specially through search for new facts in any branch of knowledge.
- It is a journey of discovery.

DEFINITION

O Clifford Woody. "Research comprises defining and redefining problems, formulating hypothesis or suggested solutions, collecting, organising and evaluating data, making deductions and reaching conclusions; and at last. carefully testing the conclusions to determine whether they fit the formulating hypothesis"

RESEARCH METHODOLOGY



- Systematic way to solve a problem.
- Science of studying how research is to be carried out.
- The procedures by which researchers go about their work of describing, explaining and predicting phenomena.
- The study of methods by which knowledge is gained.

Its aim is to give the work plan of research

CLASSIFICATION

Research is broadly classified into two main classes:

Fundamental or basic research

O Fundamental research is the systematic investigation aimed at gaining a deeper understanding of basic principles and theories, without a focus on immediate practical applications. It seeks to expand knowledge and provide a foundation for further scientific inquiry.

CLASSIFICATION

Applied research:

O Applied research is a systematic investigation that aims to solve specific, practical problems or develop new products, technologies, or processes by applying existing scientific knowledge. It focuses on real-world applications and tangible outcomes.

Research foundation

- The fundamental basis upon which a research study is built.
- •It encompasses the core components that provide direction, structure, and purpose to the research process.

Key Components of Research Foundation

- Research Paradigm
- Theoretical Framework
- Problem Statement
- Objectives and Research Questions
- Methodology

Research Paradigms

Guiding belief or philosophy that helps researchers decide how to study something. It answers questions like:

- 1. What is real? (What is the nature of reality?)
- 2. How can we know about it? (How do we gain knowledge?)
- 3. What methods should we use to find out?

Types of research paradigms

Positivism

- Belief: The world is real and can be measured objectively, like in science.
- Approach: Use experiments, numbers, and data to find the truth.
- Example: Testing how effective a new medicine is in a lab.

Types of research paradigms

Interpretivism

- Belief: People see the world differently based on their experiences.
- Approach: Understand feelings, thoughts, and experiences by talking to people.
- Example: Exploring how students feel about online learning.

Types of research paradigms

Critical Theory

- Belief: Society has problems caused by things like inequality and power.
- Approach: Study these problems to bring change and fairness.
- Example: Researching how gender discrimination affects job promotions.

Theoretical Framework

- A theoretical framework is a foundation of ideas and theories that supports and shapes a research study.
- It provides the lens through which the research problem is examined and helps explain why the study is being conducted.

Definition:

• A collection of existing theories and concepts that provide a background and context for the research.

Purpose:

- > To guide the study by connecting it to established knowledge.
- > To define key variables or concepts and their relationships.
- To justify the choice of research methods and data analysis.

Components:

- Relevant Theories: The main ideas from the literature that relate to the research topic.
- Key Concepts: The specific terms and definitions used in the study.
- Proposed Relationships: How the variables or concepts are linked.

Role in Research:

- Provides a structured explanation of the problem.
- Offers a roadmap for hypothesis development and analysis.
- Helps interpret findings within a broader context.

Why it is important?

Theoretical frameworks connect your research to established knowledge, ensuring your study is grounded and contributes meaningfully to the field.

Problem Statement

- A problem statement is a clear and concise description of the issue or gap in knowledge that the research aims to address.
- It sets the stage for the study by explaining why the research is necessary and what it seeks to accomplish.

The Problem:

- Clearly define the issue or challenge.
- Explain its significance and impact.

Context:

- Provide background information to situate the problem within a broader field of study.
- Highlight what is already known and what gaps exist.

Importance:

- Explain why solving this problem matters.
- Show how addressing it will contribute to knowledge or practical solutions.

Scope:

- Define the boundaries of the problem to focus the research.
- Avoid being too broad or vague.

A strong problem statement ensures your research is relevant, focused, and meaningful.

Objectives and Research Questions

The objectives outline what the research aims to achieve. They are clear, specific, and measurable goals that define the direction of the study.

Types of Objectives:

General Objective: A broad statement of the overall aim of the study

• To explore and improve devices that convert mechanical energy into useful energy forms such as electrical or thermal energy.

Specific Objectives: Narrower goals that break the general objective into actionable steps.

- To identify the current technologies used for mechanical-to-electrical energy conversion.
- To analyze the efficiency of different mechanical energy conversion devices.

- To explore materials and designs that enhance the performance of these devices.
- To assess the environmental and economic impact of adopting such devices.
- To propose innovative solutions for optimizing mechanical energy conversion systems.

Objectives and Research Questions

- Research questions are the specific queries that the study seeks to answer.
- They are closely aligned with the objectives and help frame the investigation.

Characteristics of Good Research Questions:

- Focused: Addresses a specific aspect of the problem.
- Clear: Easy to understand and unambiguous.
- Feasible: Can be answered within the scope of the study.

By aligning objectives and research questions, the research maintains clarity, direction, and focus, ensuring a well-structured investigation.

Methodology

- The framework that guides the entire research process, ensuring that the study is systematic, reproducible, and based on sound scientific principles.
- •It provides a clear roadmap for how the research will be conducted, from formulating hypotheses to analyzing results.

1. Research Design

- Decide how you will approach the research (e.g., experiment, observation).
- Example: You want to test how light affects plant growth. So, you set up an experiment where plants grow under different light conditions.

2. Hypothesis

- Make a prediction about what you think will happen based on what you know.
- Example: "If plants get more light, they will grow taller."

3. Variables

- Identify what you will change and measure.
- Independent Variable: What you change (e.g., light intensity).
- Dependent Variable: What you measure (e.g., plant height).
- Control Variables: What you keep the same (e.g., type of plant, water).

4. Data Collection

- Collect information during your experiment.
- Example: Measure the plant height every week under different light levels.

5. Data Analysis

- Look at the data and see if it supports your hypothesis.
- Example: Compare the plant height under each light condition and use a graph to visualize the results.

6. Conclusion

- Decide if your hypothesis was correct based on the data.
- Example: "Plants grew taller with more light, so my hypothesis was correct."

7. Ethics

• Ensure your research respects all guidelines (e.g., don't harm plants or other living beings).

STAGES OF A RESEARCH

- 1. Selection of a research topic
- 2. Definition of a research problem
- 3. Literature survey and reference collection
- 4. Assessment of current status of the topic chosen
- 5. Formulation of hypotheses
- 6. Research design
- 7. Actual investigation
- 8. Data analysis
- 9. Interpretation of result
- 10. Report

CONCLUSION

- Research is important both in scientific and nonscientific fields.
- Scientists have to undertake research, to find causes, solutions, explanations and applications.

"Research assists us to understand nature and natural phenomena"

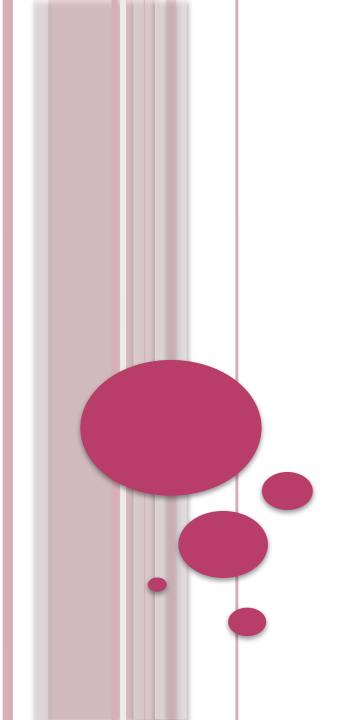
QUESTIONS

REFERENCE

• S. Rajasekar, P. Philominathan and V. Chinnathambi, Research Methodology, arXiv:physics/0601009v2 [physics.ed-ph] 25 Jan 2006.

Internet.

THANK YOU





LITERATURE REVIEW

Dr. Krishnaveni S.

Professor and Chairperson
Department of Studies in Physics
University of Mysore

Mysuru-06

OUTLINE

- Literature survey
- Search engines for research
- List of major Nano-Science and related journals
- Digital Repositories
- Mendeley
- Zotero
- How to write the research paper
- Plagiarism
- Conclusion
- References

LITERATURE SURVEY

- Collection of research publications, books and other documents related to the defined problem.
- Sources of literature survey.
 - 1. Primary
 - 2. Secondary and
 - 3. Tertiary



LITERATURE SURVEY

- The journals which publish abstracts of papers.
- Review articles related to the topic chosen.
- Journals which publish research articles.
- Advanced level books on the chosen topic.
- Proceedings of conferences, workshops, etc.
- Reprint/preprint collections available with the supervisor and nearby experts working on the topic chosen.
- Internet.

A comprehensive literature review not only informs your research question but also identifies gaps in existing knowledge. This presentation will guide you through the key steps to conduct an effective literature review.

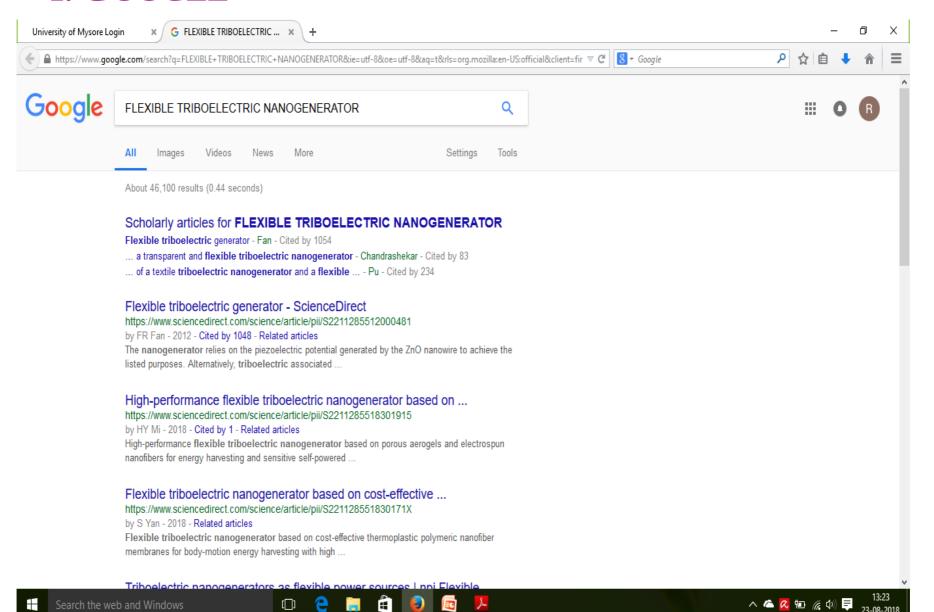


SEARCH ENGINES FOR RESEARCH

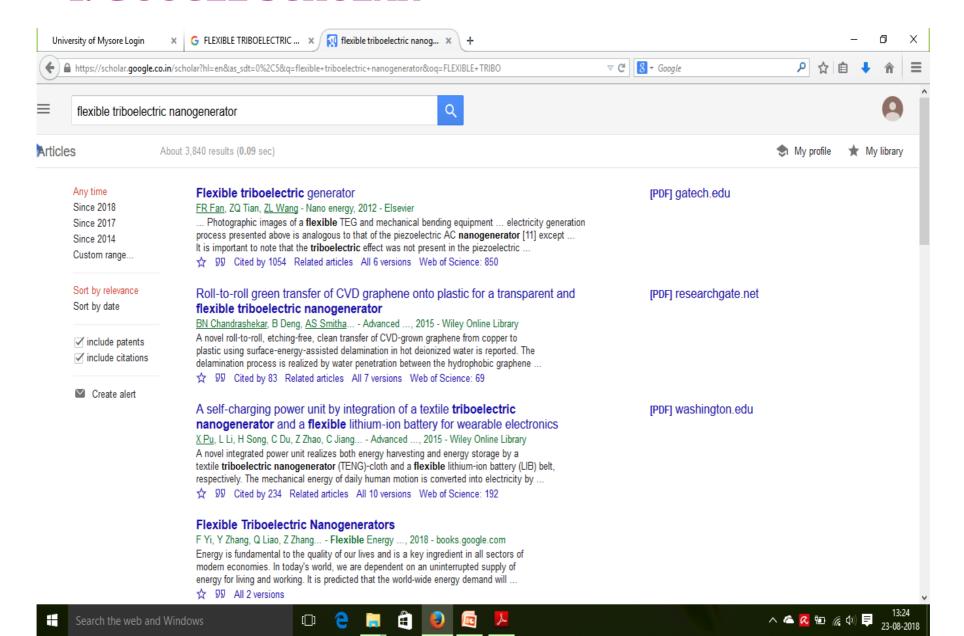


1. GOOGLE

Search the web and Windows



2. GOOGLE SCHOLAR





KRISHNAVENI S

FOLLOW

Other names >

University of Mysore

Verified email at physics.uni-mysore.ac.in

Computational Biophysics TENG Irradiation effects on semi c...

TITLE	CITED BY	YEAR
Invited review: Physics potential of the ICAL detector at the India-based Neutrino Observatory (INO) A Kumar, AM Vinod Kumar, A Jash, AK Mohanty, A Chacko, A Ajmi, Pramana 88, 1-72	269	2017
Photon mass attenuation coefficients, effective atomic numbers and electron densities of some thermoluminescent dosimetric compounds S Gowda, S Krishnaveni, T Yashoda, TK Umesh, R Gowda Pramana 63, 529-541	179	2004
Studies on effective atomic numbers and electron densities in amino acids and sugars in the energy range 30–1333 keV S Gowda, S Krishnaveni, R Gowda Nuclear Instruments and Methods in Physics Research Section B: Beam	163	2005
Single-electrode triboelectric nanogenerator based on economical graphite coated paper for harvesting waste environmental energy SA Shankaregowda, RFSM Ahmed, CB Nanjegowda, J Wang, S Guan, Nano Energy 66, 104141	120	2019
Surface modification and grafting of carbon fibers: A route to better interface N Raphael, K Namratha, BN Chandrashekar, KK Sadasivuni, Progress in crystal growth and characterization of materials 64 (3), 75-101	94	2018

GET MY OWN PROFILE

Cited by		VIEW ALL	
	All	Since 2020	
Citations	1361	926	
h-index	16	14	
i10-index	21	18	
	340		
		255	
	41	170	
er H	н	85	
2018 2019 2020 202	1 2022 2023	2024 2025 0	
Public access		VIEW ALL	
8 articles		11 articles	
not available		available	

Based on funding mandates

Citation

Reference to a source of information that you have used in your writing, research, or presentation. Citations serve several purposes, including:

- Acknowledging Sources: They give credit to the authors or creators of the original work.
- Supporting Claims: They back up your arguments or ideas with credible evidence.
- Avoiding Plagiarism: By citing sources, you show that you are not claiming someone else's work as your own.
- Guiding Readers: Citations allow readers to locate and verify the sources you us

Components of a Citation

- Author(s): Who created the work?
- Title: What is the name of the work (book, article, webpage)?
- Publication Date: When was it published or created?
- Publisher or Source: Where can the work be found (journal, website, institution)?
- Additional Details: Page numbers, DOI, URL, edition, etc., depending on the source type.

Cite

MLA Ahmed, Rumana Farheen Sagade Muktar, et al. "Copper selenide as a facile nanomaterial for triboelectric nanogenerator: Self-powered Braille code keyboard."

Chemical Engineering Journal 500 (2024): 156706.

APA Ahmed, R. F. S. M., Amini, S., Gopalakrishnan, R., Ankanathappa, S. M., & Sannathammegowda, K. (2024). Copper selenide as a facile nanomaterial for triboelectric nanogenerator: Self-powered Braille code keyboard. *Chemical Engineering Journal*, 500, 156706.

Chicago Ahmed, Rumana Farheen Sagade Muktar, Sebghatullah Amini, Raghanya Gopalakrishnan, Sangamesha Madanahalli Ankanathappa, and Krishnaveni Sannathammegowda. "Copper selenide as a facile nanomaterial for triboelectric nanogenerator: Self-powered Braille code keyboard." Chemical Engineering Journal 500 (2024): 156706.

Harvard Ahmed, R.F.S.M., Amini, S., Gopalakrishnan, R., Ankanathappa, S.M. and Sannathammegowda, K., 2024. Copper selenide as a facile nanomaterial for triboelectric nanogenerator: Self-powered Braille code keyboard. *Chemical Engineering Journal*, 500, p.156706.

Vancouver Ahmed RF, Amini S, Gopalakrishnan R, Ankanathappa SM, Sannathammegowda K. Copper selenide as a facile nanomaterial for triboelectric nanogenerator: Self-powered Braille code keyboard. Chemical Engineering Journal. 2024 Nov 15;500:156706.

H-index

 The H-index is a metric used to measure the productivity and citation impact of a researcher's work. It was proposed by physicist Jorge E. Hirsch in 2005 and has become a widely used tool for evaluating academic output, particularly in the sciences and social sciences.

h-index

Paper	Number of Citations
1	100
2	78
3	62
4	43
5	32
6	18
7	3
8	2
9	1
10	1
h-index = 6	

i10-index

- The i10-index is a simple metric used to measure the impact of a researcher's publications. It was introduced by Google Scholar and is defined as:
- The number of a researcher's publications that have been cited at least 10 times.

i10-Index

No. of Articles	No. of Citations
1	102
2	85
3	70
4	50
5	12
6	10
7	9
8	6

Impact Factor

 The Impact Factor (IF) is a metric used to measure the average number of citations received by articles published in a particular academic journal. It is widely used as an indicator of the influence or prestige of a journal in its field. The concept was introduced by Eugene Garfield, the founder of the Institute for Scientific Information (ISI).

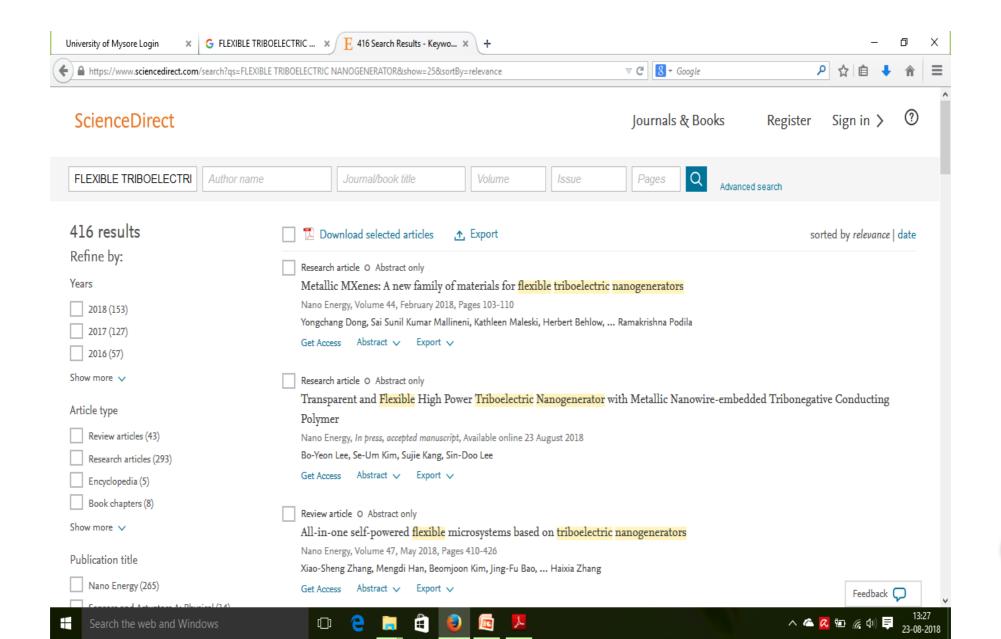
Total number of times its articles were cited during the two previous years



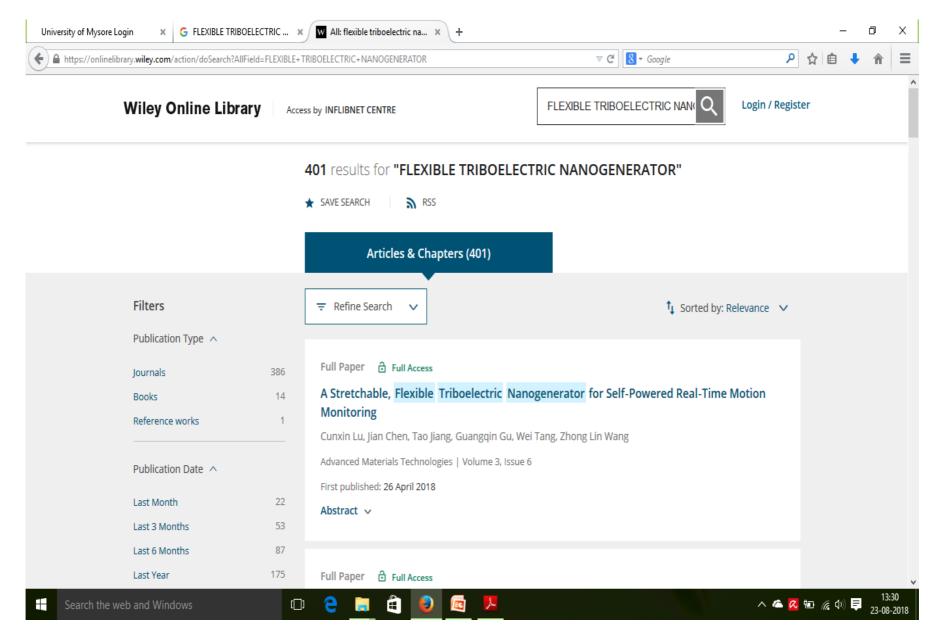
Total number of citable articles in the journal during those two years

A journal's Impact Factor for a particular year

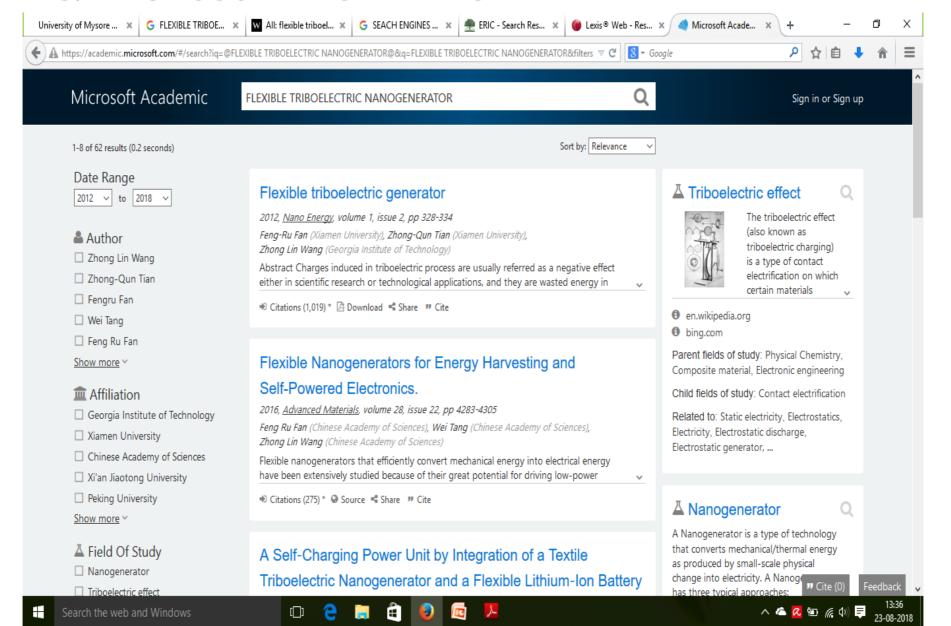
3. SCIENCE DIRECT



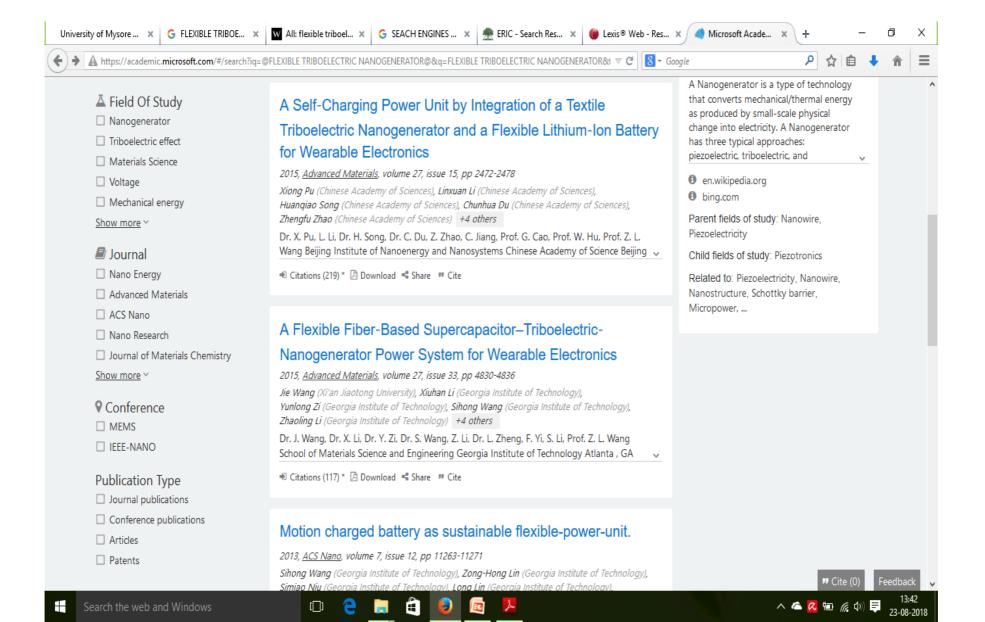
4. WILEY ONLINE LIBRARY



5. MICROSOFT ACADEMIC



5. MICROSOFT ACADEMIC



CORE (COnnecting REpositories)



Services About



The world's largest collection of open access research papers

Search 135,539,113 papers around the world

Search





We provide seamless access to content and data, through our unique APIS

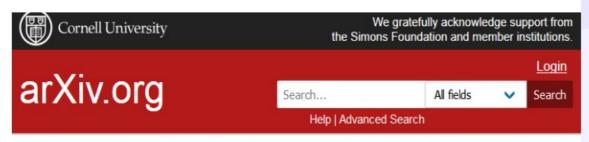


We create powerful services for researchers, universities, and industry

Perfect for text

- by the Knowledge Media Institute, based at The Open University, United Kingdom
- special feature programmable machine access to data
- CORE Publisher Connector
- CORE Recommender
- CORE Repository Dashboard

Read about our data



Open access to 1,588,810 e-prints in the fields of physics, mathematics, computer science, quantitative biology, quantitative finance, statistics, electrical engineering and systems science, and economics. Submissions to arXiv should conform to Cornell University academic standards. arXiv is owned and operated by Cornell University, a private not-for-profit educational institution. arXiv is funded by Cornell University, the Simons Foundation and by the member institutions.



30 Aug 2019: We're hiring a Backend Python Developer

20 Aug 2019: arXiv Holiday scheduled for 2 September 2019

12 Jun 2019: We are hiring: Executive Director of arXiv.

11 Jun 2019: Announcing a new category and category mergers.

See cumulative "What's New" pages. Read robots beware before attempting any automated

download

Physics

- Astrophysics (astro-ph new, recent, search)
 includes: Astrophysics of Galaxies; Cosmology and Nongalactic Astrophysics; Earth and
 Planetary Astrophysics; High Energy Astrophysical Phenomena; Instrumentation and
 Methods for Astrophysics; Solar and Stellar Astrophysics
- Condensed Matter (cond-mat new, recent, search)
 includes: Disordered Systems and Neural Networks; Materials Science; Mesoscale and
 Nanoscale Physics; Other Condensed Matter; Quantum Gases; Soft Condensed Matter;
 Statistical Mechanics; Strongly Correlated Electrons; Superconductivity

arXiv

 Cornell University, the Simons Foundation and by member institutions.

- repository of electronic preprints & scientific papers in different fields
- self-archived

- Notifications
- formats -TeX file format or pdf for other documents

DOI (Digital Object Identifier)

- a string of numbers, letters and symbols.
- to permanently identify an article or document.
- link to it on the web. http://doi.org followed by / DOI.
- always refers to the specified particular article only.
- find the DOI of the article on CrossRef.org.
- add DOI at the end of the reference.

DIGITAL REPOSITORIES





Home

About

Members ~

E-Resources v

Search

INFED

InfiStats

Welcome to e-ShodhSindhu: Consortium for

Higher Education Electronic Resources

Provides access to e-resources to Universities, Colleges and Centrally Funded Technical Institutions in INDIA. Read More>>





Being Executed by INFLIBNET Centre

Library Login

98 CFTIs

217

Universities

3800+

Colleges

10000+

e-Journals

199500+

e-Books

600000

e-Books through NDL 20

Resources

tabasa

Databases

Summary for the Year 2024



Shodhganga

- digital repository of Indian theses and dissertations.
- by INFLIBNET Centre which is an autonomous Inter-University Centre of the University Grants Commission (UGC) of India.
- another repository Shodhgangotri : repository of the synopses and research proposals of the PhD programs.
- mandatory submission under UGC regulations.









576731

15087

MRPs/PDFs/Fellowships Reports

83

About Shodhganga

A reservoir of Indian Theses

The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. The repository has the ability to capture, index, store, disseminate and preserve ETDs submitted by the researchers.[Read More]

Shodhganga Membership is not for Colleges.

Latest Updates

Videos

Photos

University (Dr K. Kumar) MoU List

»Shodhganga Membership is not for Colleges. Read More.

»Shodhganga crossed 5,35,000 Theses on 27th May 2024.

>>5,00,000th Thesisis uploaded into Shodhganga by Prof Yogesh Singh, Hon'ble Chairman, Governing Board, INFLIBNET Centre & Vice Chancellor, University of Delhi, Delhi in the august presence of Prof J P Singh Joorel, Director, INFLIBNET Centre, Gandhinagar and other Governing Board Members on 14.12.2023.

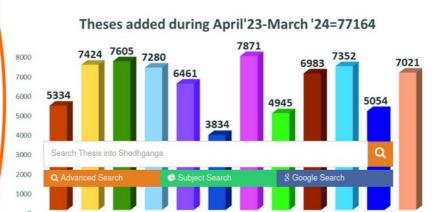






SEARCH & BROWSE > MoE/UGC NOTIFICATION > GUIDE & TUTORIALS > DOWNLOAD >







576731

SYNOPSES 15087 MRPs/PDFs/Fellowships Reports 83

About Shodhganga

A reservoir of Indian Theses

The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. The repository has the ability to capture, index, store, disseminate and preserve ETDs submitted by the researchers.[Read More]

Shodhganga Membership is not for Colleges.

Videos

Photos

» SR University, Sister Nivedita University, and Nava Nalanda Mahavihara has become a member of Shodhganga and uploaded its first thesis in August and September 2024.

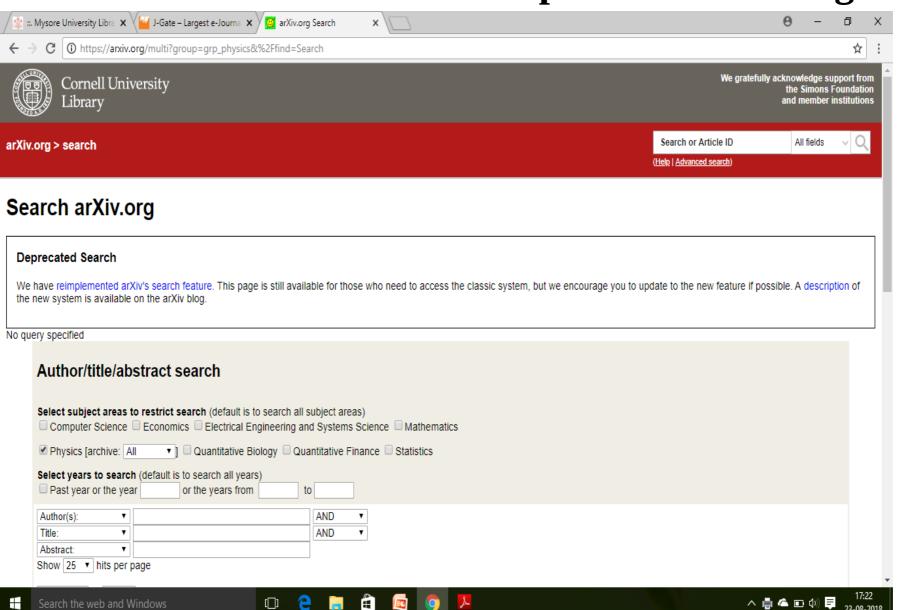
»As of August 08, 2024, Alliance University has contributed 100 % Theses (55) to the Shodhganga

» New University added & UC created 808. Lords University 809. Sri Venkateswara Veterinary University (Dr K. Kumar) MoU List

»Shodhganga Membership is not for Colleges. Read

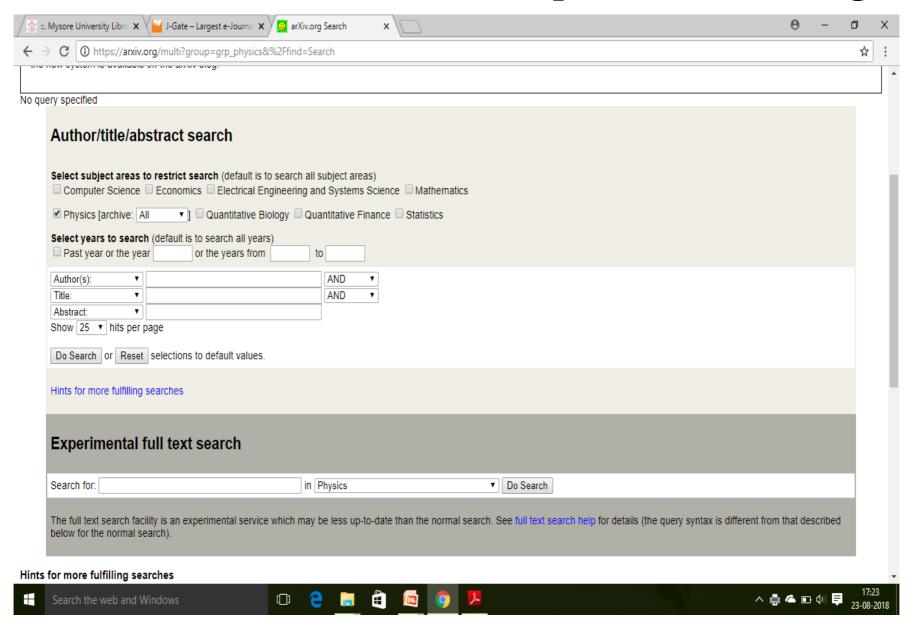
e-Prints

http://www.arXiv.org

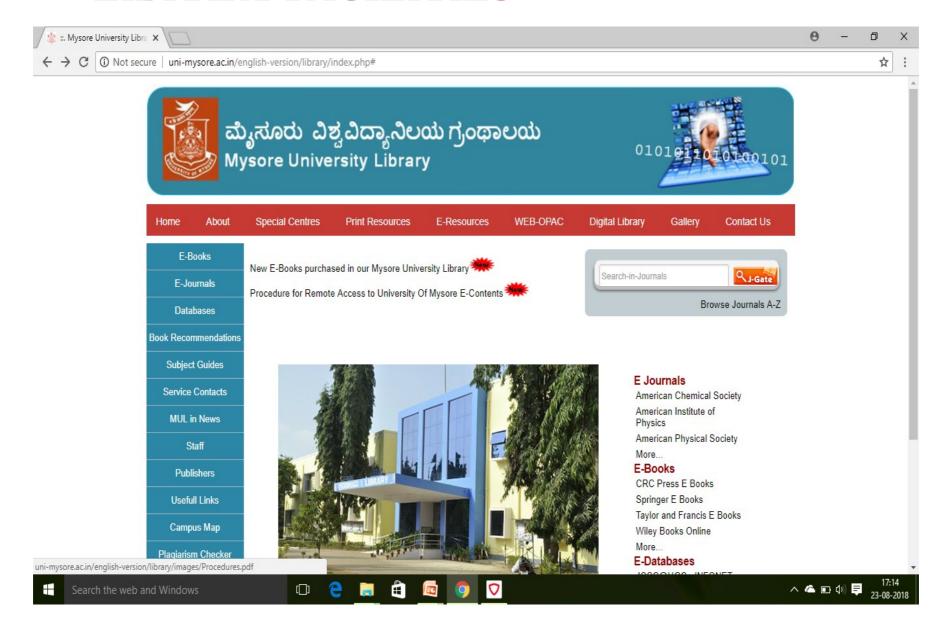


e-Prints

http://www.arXiv.org



LIBRARY FACILITIES

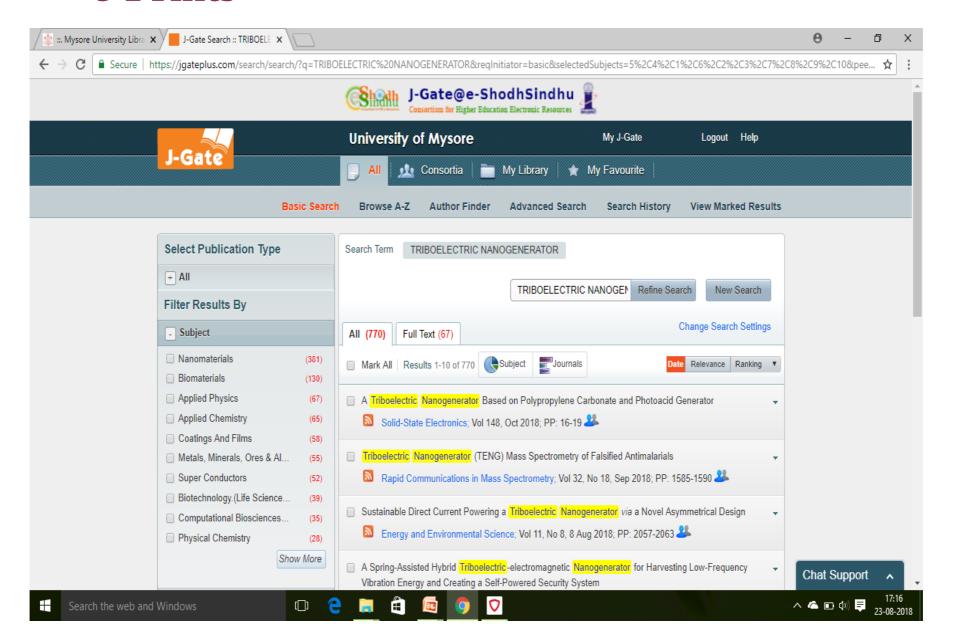


e-Prints

Search the web and Windows



e-Prints



Citation tools



Organizing your findings is key to a successful review. Use citation tools like Zotero, Mendeley, or EndNote to keep track of sources and categorize them by themes or methodologies. This organization will streamline the writing process and improve clarity.

MENDELEY COMPONENT



Mendeley Desktop A software that organizes PDFs, create references and helps you write papers.

Mendeley Web A research catalog of 350M documents from 2M researchers, 100K collaborative groups.

Mendeley Importer Create your library while surfing the web. Import of references from various websites.

MS Word Plugin: writing & citing your research in MS Word made easy via mendeley

How do you use Mendeley?



Free academic software

Non-platform or browser specific









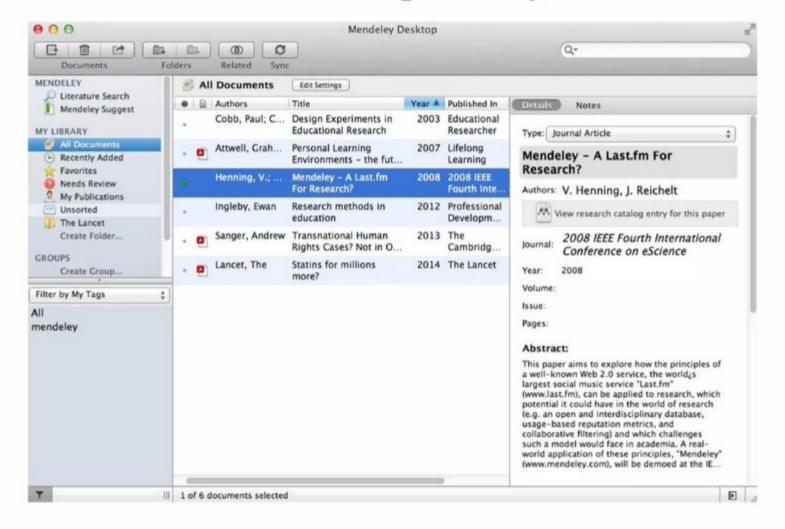




ORGANIZE

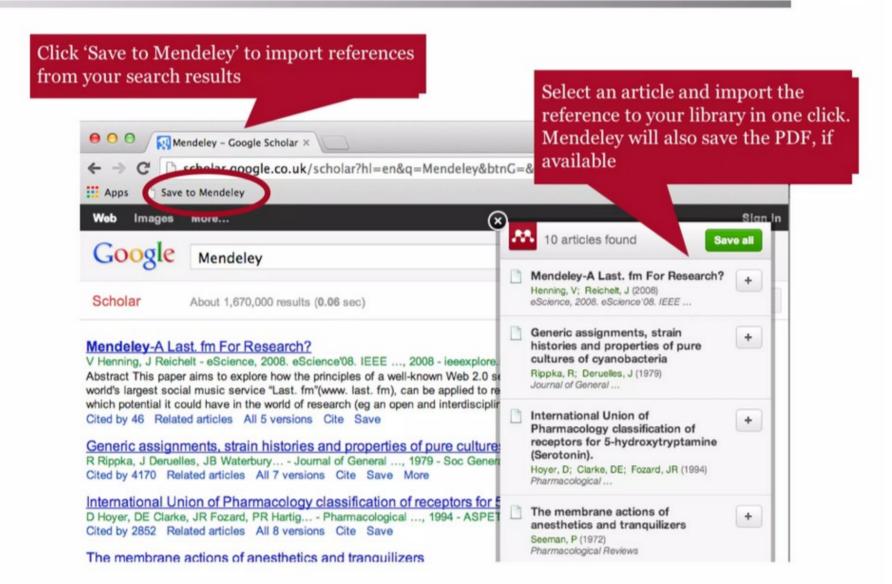


Your Desktop Library



ORGANIZE: Using the Web Importer

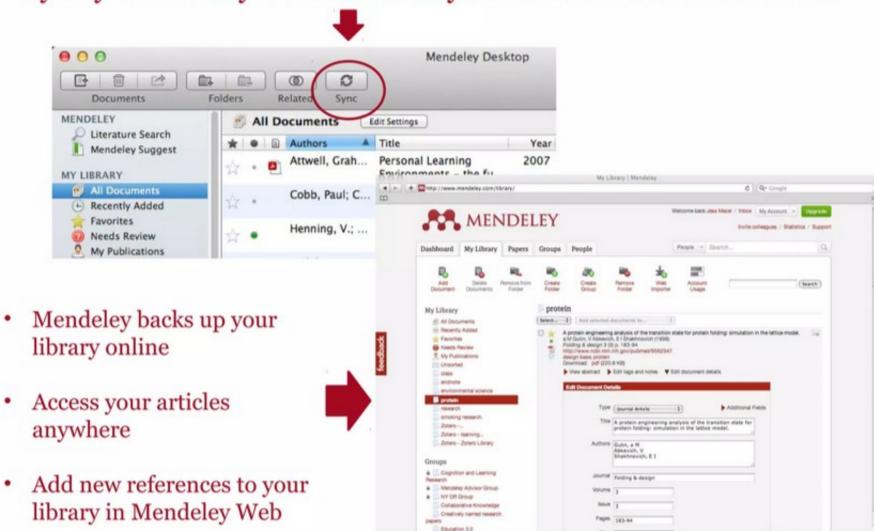




ORGANIZE: Sync

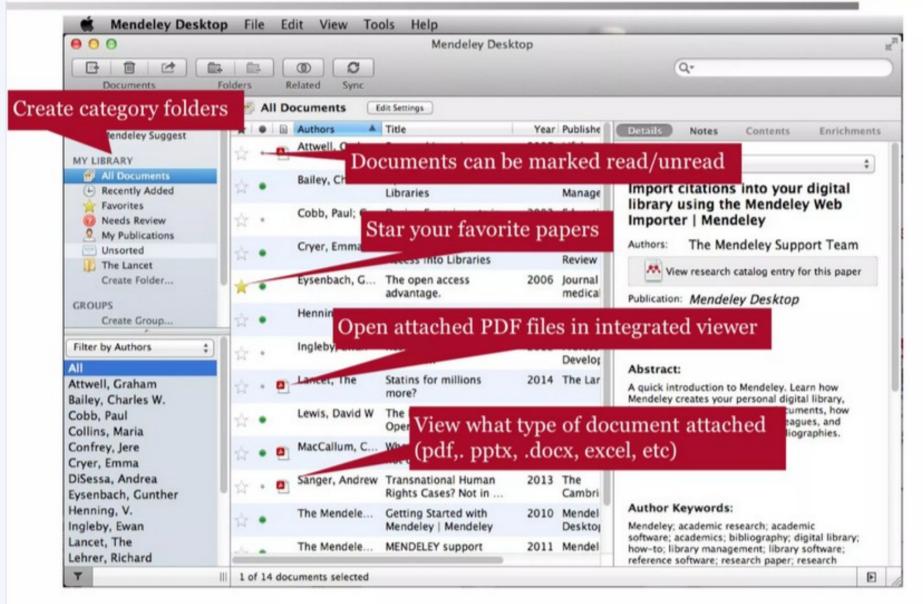


Sync your library to access it anywhere & read across devices



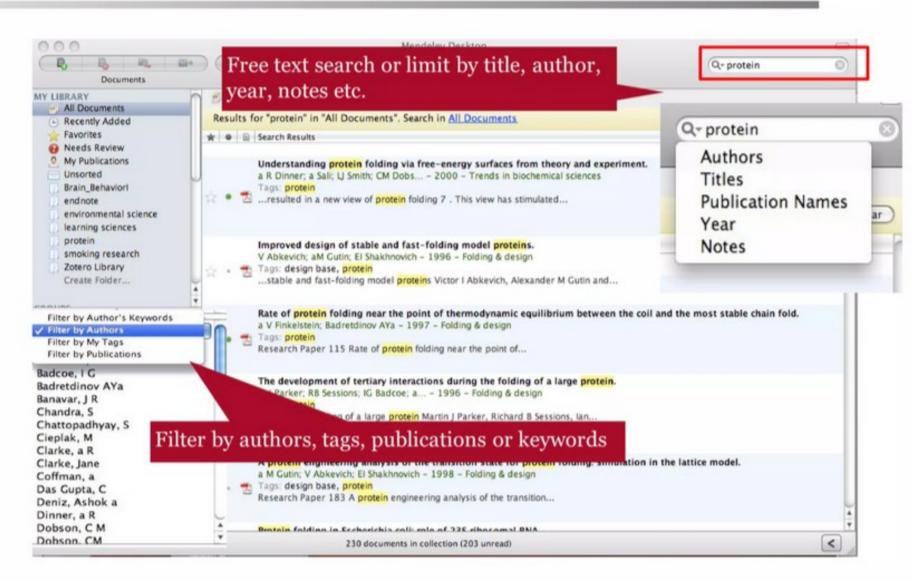
MANAGE: Manage your library





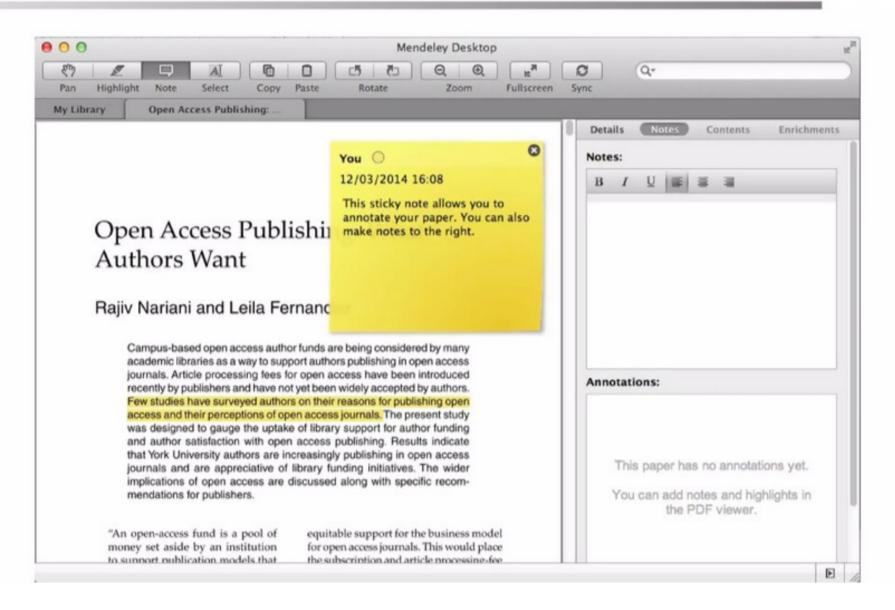
MANAGE: Search + filter to easily locate documents





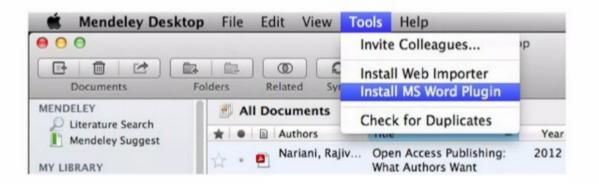
MANAGE: Annotate + highlight your papers



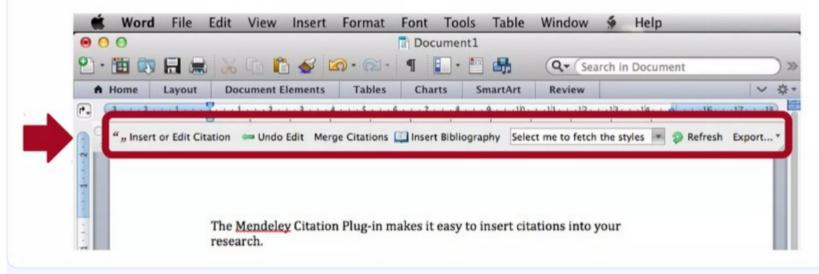


CITATION PLUG-IN: Installation



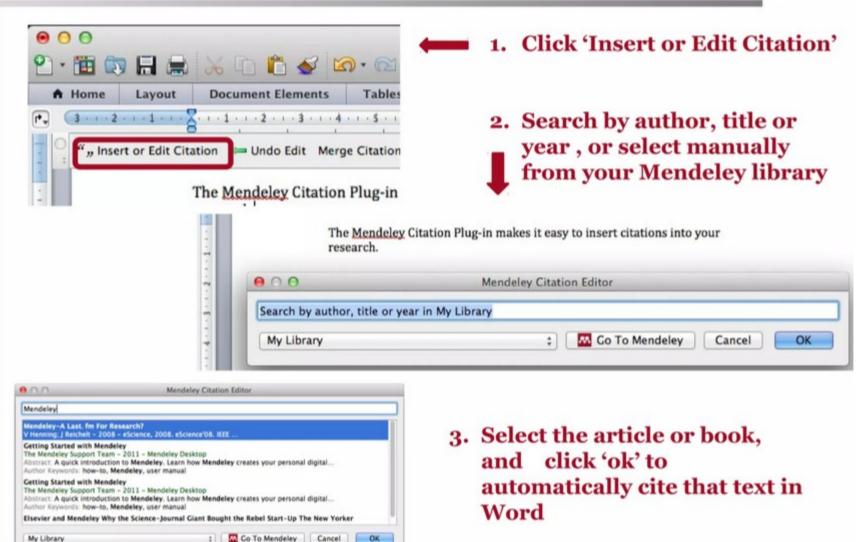


The Tool Bar Appears in Word Automatically

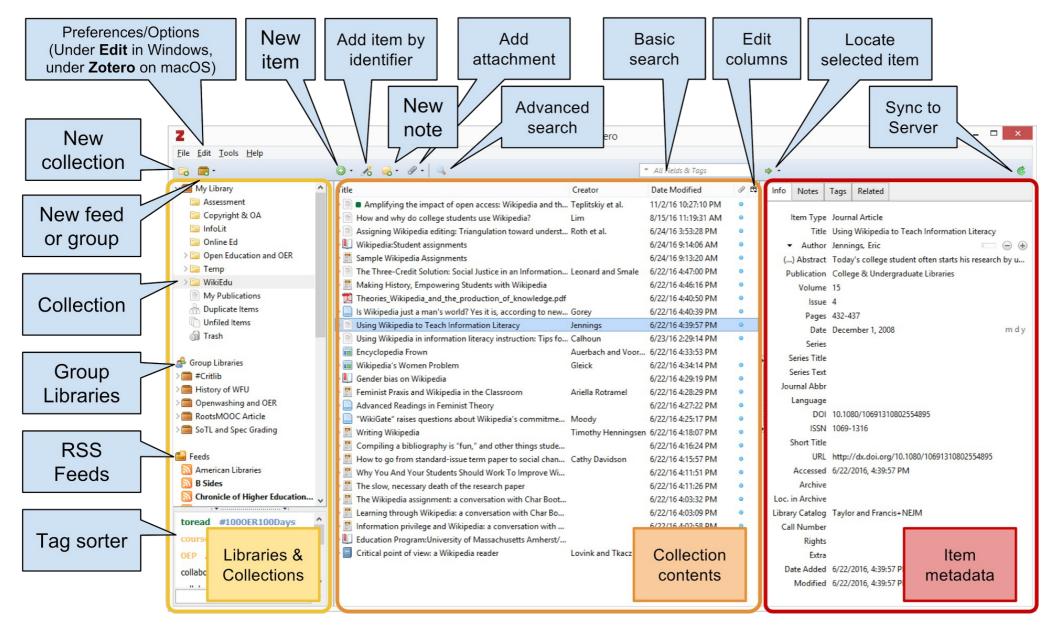


CITATION PLUG-IN: Generate In-Text Citations in Word





Zotero



How to write the Research Paper?

Writing a full research paper from abstract to conclusion involves following a structured format to present your findings effectively.



Writing a research paper introduction

- 1. Introduce your topic
- 2. Describe your background
- 3. Establish your research problem
- 4. Specify your objectives
- 5. Map out your paper

Results and discussion

1

Summarize your key findings

- Reiterate your research problem
- Summarize your major findings

2.

Share your interpretations

- Identify patterns, and relationships among your data
- Discuss whether the results met your expectations
- Contextualize your findings within previous research
- Explain unexpected results
- Consider possible alternative explanations

3.

Discuss the implications

- Show the relevance and implications of your research
- Relate your results back to previously discussed literature and existing knowledge
- Explore what new insights your research contributes

4.

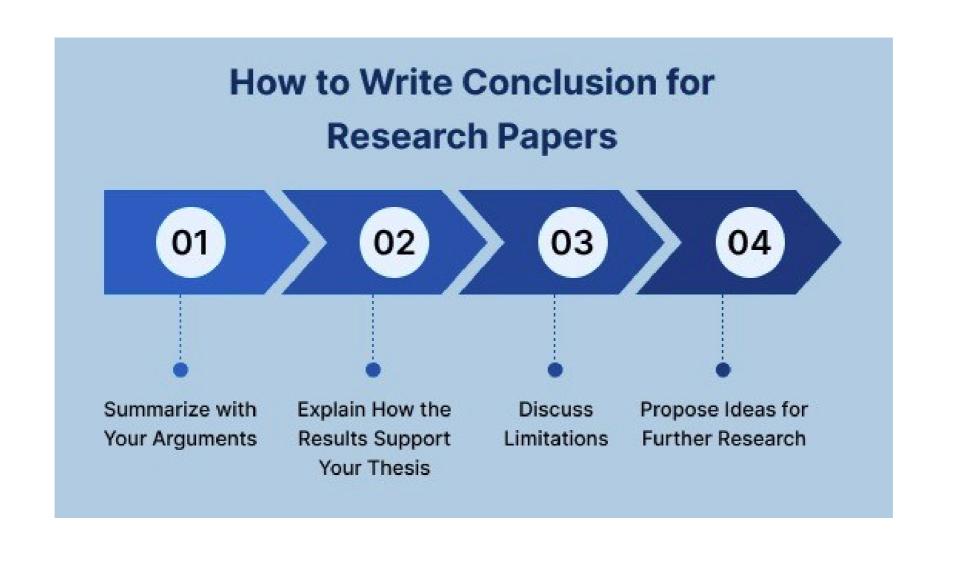
Acknowledge the limitations

- Provide a picture of what can be concluded from your study
- Evaluate any impact limitations had on your research
- Explain why your results are still valid for answering your research question

5.

State your recommendations

- Make recommendations for practical implementation
- Give concrete ideas for future research





A tool that scans text to identify similarities with existing content in online databases, journals, and publications.
Why Use It?

- Ensures originality in research.
- Maintains academic and professional integrity.
- Prevents penalties and reputational damage.

How It Works:

- Upload or paste content.
- Compare text with vast repositories.
- Generate a similarity report highlighting matches.

Plagiarism

- The unethical practice of using someone else's ideas, data, text, or findings without proper acknowledgment, thereby presenting them as your own original contribution.
- It violates academic integrity and can have serious consequences for the researcher, their reputation, and the validity of their work.

Types of Plagiarism Detected:

- Direct (word-for-word copying).
- Paraphrasing without credit.
- Self-plagiarism.
- Mosaic (mixing content from sources).

Popular Tools:

- Turnitin
- Grammarly
- iThenticate
- Copyscape

Benefits:

- Promotes ethical writing.
- Enhances work quality.
- Saves time and builds confidence.

Limitations

- False Positives: Matches phrases that are common or technical terms.
- Cost: Some tools require subscriptions or payment for detailed reports.
- Dependence on Databases: Limited to the content available in the tool's repository.

Best Practices

- Cite Properly: Always give credit to original authors.
- Use Paraphrasing Wisely: Ensure paraphrased content is significantly reworded and cited.
- Review the Report: Analyze flagged sections to decide if they need modification or citation.
- Combine Tools: Use plagiarism checkers with other writing tools for comprehensive content evaluation.

REFERENCE

• S. Rajasekar, P. Philominathan and V. Chinnathambi, Research Methodology, arXiv:physics/0601009v2 [physics.ed-ph] 25 Jan 2006.

Internet.

THANK YOU



St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"



Dr. Mohammed Minhaj, Dean – Academics, SDMIMD, Mysore



07 January 2025



Day 2
"Harnessing Al for Advancing Research Practices"



Research Interest / **Consulting Area**

Web Services, Information Management and **Business Analytics**

Courses Offered

Information Technology for Management E-Business **Business Intelligence IT Outsourcing Trends** and Strategies IT Audit and Governance Machine Learning in Practice. Managing Cloud Services

Also teaches/taught at

St. Philomena's College, Mysore International School of Information Management (ISiM), University of Mysore, Mysore **Business Analytics** Institute, France

Mohamed Minhaj, MCA, M.Phil & Ph.D

Dean - Academics
Professor - Systems
Chairperson - Systems
Chairperson - Grievance Cell
mminhaj@sdmimd.ac.in

Dr. Mohamed Minhaj has around 15 years of Teaching and Consulting Experience. His area of specialization is Information Management, Web Services and Business Analytics.

At SDMIMD, besides teaching courses related to Information Technology and Analytics, as Chairman of Campus Systems, he is involved in the management of IT infrastructure and services.

He has completed many consulting assignments related to Information Management, Digital Libraries, e-Learning and Web Services. He has handled corporate training programs related to IR, Data Analysis and Business Modeling with Excel and Essentials of Business Analytics.

Prior to joining SDM, he has served organizations like APTECH Limited, ECIT, St. Philomena's College and University of Mysore. He was also associated with Vidyanidhi Digital Library Project which was sponsored by Ford foundation and Microsoft. He was also the Lead Software Consultant for India - Educational Digital Library Project, undertaken by Educational Development Center which is an international non-profit organization head-quartered in US.

His research interests include Semantic Technologies and Text Analytics.

He has completed many courses related to Analytics, including FDP from Indian Institute of Management, Bangalore and is a visiting faculty at the Business Analytics Institute, France.

He is an active member of Computer Society of India (CSI) and is currently the Chairman of Mysore Chapter. He is also a Member of IT Panel, Confederation of Indian Industries (CII), Mysuru and member of Analytics Society of India.

Book Chapters

- 1. Schlenker, Lee & Minhaj, Mohamed (2020). *Machine Intelligence and Managerial Decision-Making*. **Data Analytics and AI** by Jay Liebowitz [Editor]. Boca Raton, 1st Edition, ISBN: 9781003019855, DOI: https://doi.org/10.1201/9781003019855.
- 2. Minhaj, Mohamed (2019). *Smart Retail through Market Basket Analysis*. Cases in Management Vol. VIII by N.R. Parasuraman, Mousumi Sengupta and Nilanjan Sengupta and G.Srilakshminarayana. [Editors]. Mysore: Shri Dharmasthala Manjunatheshwara Research Centre for Management Studies (SDM RCMS), SDMIMD. [ISBN: 978-93-83302-44-4]

- 3. Minhaj, Mohamed (2018). *Measurable SEO for a travel company*. <u>Cases in Management Vol. VII</u> by N.R. Parasuraman, Mousumi Sengupta and Nilanjan Sengupta and G.Srilakshminarayana. [Editors]. Mysore: Shri Dharmasthala Manjunatheshwara Institute for Management Development (SDMIMD). [ISBN: 978-93-83302-36-9].
- 4. Minhaj, Mohamed (2017). Discovering the influencers in a social network: A case study of Facebook-group of IT professionals. <u>Cases in Management Vol. VI</u> by N.R. Parasuraman, Mousumi Sengupta and Nilanjan Sengupta and G.Srilakshminarayana. [Editors]. Mysore: Shri Dharmasthala Manjunatheshwara Institute for Management Development (SDMIMD). [ISBN: 978-93-83302-29-1].
- 5. Minhaj, Mohamed (2017). Clustering Of Conference Papers Using Lda Based Topic Modeling. Contemporary Research in Management Vol. VI by Mousumi Sengupta and Nilanjan Sengupta [Compilers]. Mysore: Shri Dharmasthala Manjunatheshwara Institute for Management Development (SDMIMD). [ISBN: 978-93-83302-23-9].
- 6. Minhaj, Mohamed (2016). *Sentiment analytics using RapidMiner*. Cases in Management Vol. V by N.R. Parasuraman, Mousumi Sengupta and Nilanjan Sengupta and G.Srilakshminarayana. [Editors]. Mysore: Shri Dharmasthala Manjunatheshwara Institute for Management Development (SDMIMD). [ISBN: 978-93-83302-14-7].
- 7. Minhaj, Mohamed (2016). *An exploratory study of near-real time ETL approaches for the design of Agile Business Intelligence Infrastructure*. Contemporary Research in Management Vol. V. by Mousumi Sengupta and Nilanjan Sengupta [Compilers]. Mysore: Shri Dharmasthala Manjunatheshwara Institute for Management Development (SDMIMD). [ISBN: 978-93-83302-15-4].
- 8. Minhaj, Mohammed. (2015). *Retargeting with Google Adwords*. Cases in Management- Vol IV. N.R. Parasuraman, Mousumi Sengupta and Nilanjan Sengupta and G.Srilakshminarayana. [Editors]. Mysore: Shri Dharmasthala Manjunatheshwara Institute for Management Development (SDMIMD). [ISBN:978-93-83302-14-7]
- 9. Minhaj, Mohammed. (2015). *Cloud based business intelligence systems premise and promises*. Contemporary research in management Vol. IV by Mousumi Sengupta and Nilanjan Sengupta [Compilers]. Mysore: SDM RCMS. [ISBN: 978-93-83302-08-6].
- 10. Minhaj, Mohammed (2014). *How to Promote and Monetize "Free" Mobile Apps?* Cases in Management- Vol III. N.R. Parasuraman, Mousumi Sengupta, Nilanjan Sengupta and G.S. Lakshminarayana. [Editors]. Mysore: Shri Dharmasthala Manjunatheshwara Research Centre for Management Studies (SDM RCMS), SDMIMD. [ISBN:978-93-83302-05-5]
- 11. Minhaj, Mohammed, Kumar, Varun & Sharma, Nancy (2014). *An Exploratory Study on Reverse Logistics in E-Commerce and its Impact on Customer Loyalty*. Contemporary research in management Vol III by Mousumi Sengupta and Nilanjan Sengupta [Compilers]. Mysore: Shri Dharmasthala Manjunatheshwara Research Centre for Management Studies (SDM RCMS), SDMIMD. [ISBN:978-81-922146-8-9]
- 12. Minhaj, Mohammed (2013). *Unlocking success through SEM: a case study of a travel agency*. Cases in Management Vol.II. N. R. Parasuraman, Nilanjan Sengupta, Mousumi Sengupta and G. Srilakshminarayana [Editors]. Mysore: Shri Dharmasthala Manjunatheshwara Institute for Management Development (SDMIMD). [ISBN:978-81-922146-9-6]
- 13. Minhaj, Mohammed and Hasan, Syed Mamoon (2013). *How ODigMa leveraged Social CRM to drive customer satisfaction, retention and advocacy for a leading Telecom Company: A Case Study.* Cases in Management Vol.1. Mysore: Shri Dharmasthala Manjunatheshwara Research Centre for Management Studies (SDM RCMS), SDMIMD. [ISBN: 978-81-922146-3-4]

- 14. Minhaj, Mohamed. (2004). *Introduction to library networking*. Managing school libraries in digital era course manual Edited by Harinarayana, N.S., Malathi Sriram and Sunil, M.V. New Delhi: KVS-ZIET and Mysore: SDM Institute for Management Development. 144-145p.
- 15. Minhaj, Mohamed. (2004). *Internet searching*. Managing school libraries in digital era course manual Edited by Harinarayana, N.S., Malathi Sriram and Sunil, M.V. New Delhi: KVS-ZIET and Mysore: SDM Institute for Management Development. 154-157p.
- 16. Minhaj, Mohamed. (2004). *Scanners*. Managing school libraries in digital era course manual Edited by Harinarayana, N.S., Malathi Sriram and Sunil, M.V. New Delhi: KVS-ZIET and Mysore: SDM Institute for Management Development. 158-159p.
- 17. Minhaj, Mohamed. (2004). *Overview of digital libraries*. Managing school libraries in digital era course manual Edited by Harinarayana, N.S., Malathi Sriram and Sunil, M.V. New Delhi: KVS-ZIET and Mysore: SDM Institute for Management Development. 160-161p.
- 18. Minhaj, Mohamed. (2004). *Greenstone digital library*. Managing school libraries in digital era course manual Edited by Harinarayana, N.S., Malathi Sriram and Sunil, M.V. New Delhi: KVS-ZIET and Mysore: SDM Institute for Management Development. 162-167p.
- 19. Minhaj, Mohamed. (2004). *Building collections usin GLI (Greenstone Librarian Interface)*. Managing school libraries in digital era <u>- course manual</u> Edited by Harinarayana, N.S., Malathi Sriram and Sunil, M.V. New Delhi: KVS-ZIET and Mysore: SDM Institute for Management Development. 168-173p.
- 20. Minhaj, Mohamed. (2004). *eMail*. Managing school libraries in digital era course manual Edited by Harinarayana, N.S., Malathi Sriram and Sunil, M.V. New Delhi: KVS-ZIET and Mysore: SDM Institute for Management Development. 174-175p.

International Journals

- 1. Shalini R. Urs and Mohamed Minhaj (2022). *Evolution of data science and its education in iSchools: An impressionistic study using curriculum analysis*. Journal of the Association for Information Science and Technology, DoI: https://doi.org/10.1002/asi.24649, pp.1-17, (ABDC).
- 2. Minhaj, Mohamed (2021). *Using Wikipedia's Big Data for creation of Knowledge Bases*. International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN: 2456-3307, Vol.7(6), pp.11-18, November-December.
 - URL: https://ijsrcseit.com/CSEIT217546.
- 3. Minhaj, Mohamed & Gandhi, L (2018). *Learning Analytics Improving the Impact of Organizational Training Process*. International Journal of Exclusive Management Research (IJEMR), Vol.8 (3), Online ISSN 2249–2585, Print ISSN 2249-8672, March 2018.
- 4. Gandhi, L. & Minhaj, Mohamed (2017). *HR Analytics: A big deal for C-suite in Talent Management*. FOCUS International Journal of Management, Vol.12 (2), ISSN: 0973 9165, October 2016-March 2017.

Journals

1. Malathi Sriram and Minhaj, Mohamed. (2011). *E-Governance, The Journey Ahead: E-Lokshahi Project.* SDMIMD Journal of Management, 2 (1), March.

International Conference

1. Malathi, Sriram and Mohamed Minhaj. (2011). Nepalese academy of Management. Changing Perspective of Management: Revisit the existing and explore the novel ideas, Kathmandu, Nepal, March 10–12. *Socially Relevant Project* @ *SDMIMD*.

National Conference

- 1. Gopal, G.V., Nadeemulla Sheriff and Minhaj, Mohamed. (2011). Regional Institute of Education, Mysore (A constituent unit of the National Council of Educational Research and Training, New Delhi). National seminar on pedagogy for schools, March 2-4. *Continuous Curricular Evaluation and Teacher Empowerment using open-source e- Learning platform: a case study of Moodle*.
- 2. Kumbar, Mallinath., Minhaj, Mohamed and Sunil, M.V. (2010). Department of Library and Information Science, Kuvempu University. UGC sponsored National conference on Content Management in Digital Era: opportunities and challenges, Shimoga, March 12 & 13. *Deploying Collaboration in Content Management System (CMS): a case study of Drupal.*
- 3. Malathi, Sriram and Minhaj, Mohamed. (2009). Rai Business School. RICON 2009- International Conference on Crystal Ball Gazing, New Delhi, August. *e-Governance, the journey ahead : e- Lokshahi Project.*

Case Study

- 1. Minhaj, Mohamed (2021). *Shared Investment and Risk PPP for providing Fiber Optic Internet at Westminster, Maryland*. Administrative Training Institute (ATI & SDM Institute for Management Development (SDMIMD), Volumn 1.
- 2. Minhaj, Mohamed (2020). *Smart Retail through Market Basket Analysis (Product number 1537*). India Case Research Centre, All India Management Association (AIMA). pp.4

Peer-reviewed Web Publication

1. Minhaj, Mohamed & Shalini Urs (2021). Wikipedia Infoboxes: The big data source for knowledge bases behind Alexa and Siri virtual assistants. Information Matters. https://informationmatters.org/2021/11/wikipedia-infoboxes-the-big-data-...

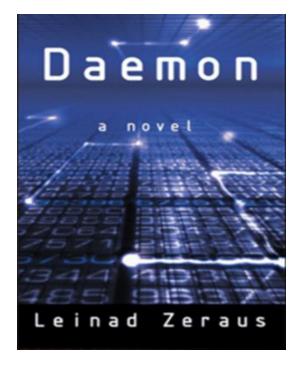
Newsletters

- 1. Minhaj, Mohamed (2014). Engaging Library users on Social Media, is it really beneficial? MyLISA News.
- 2. Minhaj, Mohamed. (2010). Designing and implementing library website. MyLISA NEWS, Vol 1(6).

Harnessing Al for Advancing Research Practices

Artificial Intelligence (AI)





















Home / Trending / US woman marries chatbot she created using AI

US woman marries chatbot she created using AI

By Arfa Javaid

Jun 08, 2023 07:38 PM IST











A woman hailing from US created an AI chatbot in 2022 and eventually married him after falling in love.



Home > Articles > The world's first AI-authored book is out. Know the Indian startup that made it happen

Generative AI | 7 Min Read | Jan 10, 2023

Conversations - The world's first AIauthored book is out. Know the Indian startup that made it happen

Presenting to you, Bridging the AI gap – which has been completely penned by AI algorithms trained by Indian startup, Fluid AI. So, what is it that went behind this creation? Were there any challenges that the startup came across? Most importantly, what is it that Fluid AI really does and what sets it apart? Jibu Elias –

December Content Head at India DAMMes Divide with Alabia and Agains and

Generative AI-based conversational order-taking systems deployed by leading retail and consumer players such as Dominos, IKEA









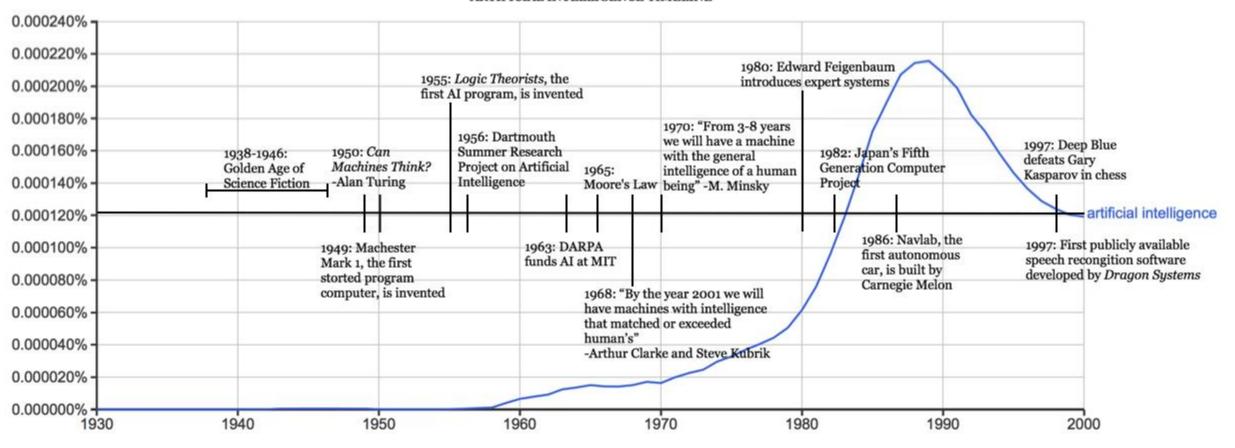
WORLD SENSATION – A.I. DEVELOPED AND TASTED ITS OWN ENERGY DRINK

Artificial Intelligence can revolutionize the world of energy drinks – it not only created what it considers the perfect recipe – but also tasted it.

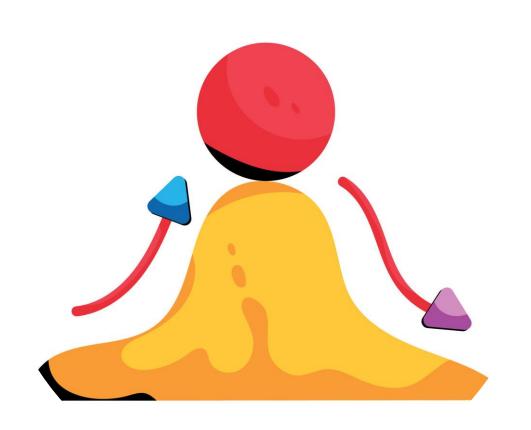
Budapest, July 3, 2023 – The world's first energy drink entirely powered by A.I. has been developed by HELL ENERGY. Design, recipe, tasting and meticulous taste evaluation, predictive intelligence, security measures, marketing elements – every aspect has been expertly crafted by advanced A.I. (Artificial Intelligence) systems.

The vast amount of information and knowledge available on the World Wide Web is utilized by A.I. It can process and uncover connections at a speed that is almost incomprehensible to humans. Additionally, it possesses comprehensive knowledge about energy drinks, encompassing their ingredients, sales results,

ARTIFICIAL INTELLIGENCE TIMELINE



Source: http://sitn.hms.harvard.edu/flash/2017/history-artificial-intelligence/



The tipping point is that magic moment when an idea, trend, or social behaviour crosses a threshold, tips and spreads like wildfire.

Malcolm Gladwell



ChatGPT Sprints to One Million Users

Time it took for selected online services to reach one million users



* one million backers ** one million nights booked *** one million downloads Source: Company announcements via Business Insider/Linkedin











Source: https://www.timesnownews.com

Al Lawyer

A New York lawyer, Steven A. Schwartz, faced a courtroom debacle after relying on ChatGPT for legal research. The AI program fabricated judicial decisions and citations, which Schwartz included in a court filing for a case against Avianca Airlines.

This incident led to a hearing for potential sanctions and highlights the dangers of uncritically accepting Al-generated content in professional settings.

Al Against Women in Tech Hiring

Amazon's attempt to revolutionize hiring with AI backfired spectacularly. Their algorithm, trained on a mountain of primarily male resumes, was accused of favoring men. Despite efforts to remove the AI bias, the Guardian alleged the tool discriminated against resumes from women. This unfortunate case, which led to the tool's shutdown in 2019, highlights the difficulty of creating fair and neutral AI, especially when tackling complex human characteristics like gender.

European Research Council issues warning on Al's use in grant applications

19 Dec 2023 | News

Al

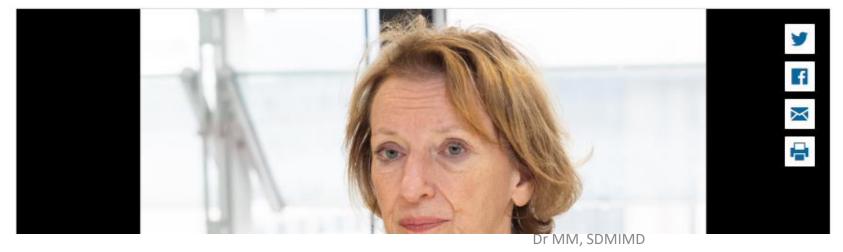
Digital

European Research Council

R&D Policy

Researchers who use AI in writing research proposals must take 'full and sole authorship responsibilities', says the ERC. Its 'robust' system can detect 'text similarities'

By Thomas Moller-Nielsen



Get the Science | Business newsletters

Receive the Funding
Newswire each Tuesday,
our Policy Bulletin each
Thursday, and news about bridging
Europe's east-west innovation gap
twice a month in The Widening.

Sign up for the Funding Newswire

Sign up for the Policy Bulletin

Sign up for The Widening

Funding Newswire subscription



nature > news feature > article

NEWS FEATURE | 05 December 2023

Is AI leading to a reproducibility crisis in science?

Scientists worry that ill-informed use of artificial intelligence is driving a deluge of unreliable or useless research.

nature briefing

Sign up for the *Nature Briefing* newsletter — what matters in science, free to your inbox daily









CHINA / SOCIETY

Papers concealing usage of ChatGPT to be rejected or withdrawn

By Xu Keyue

Published: Feb 14, 2023 12:51 AM















CHAT GPT Potential Use Cases



Forbes

FORBES > LEADERSHIP > CAREERS

Elon Musk And Other Tech Leaders Call For Slowdown On AI Development

Chris Westfall Contributor @

Business coach. Author of Easier and Leadership Language.





Mar 29, 2023, 11:26am EDT



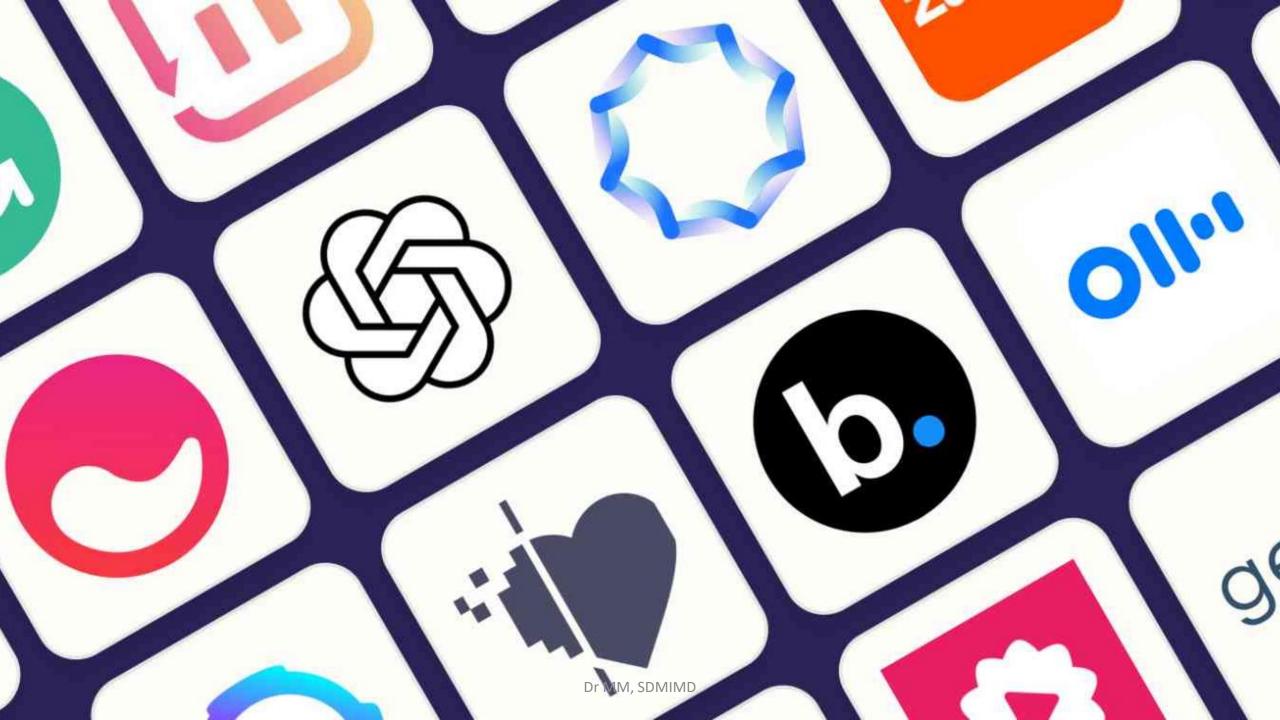
Listen to article 6 minutes













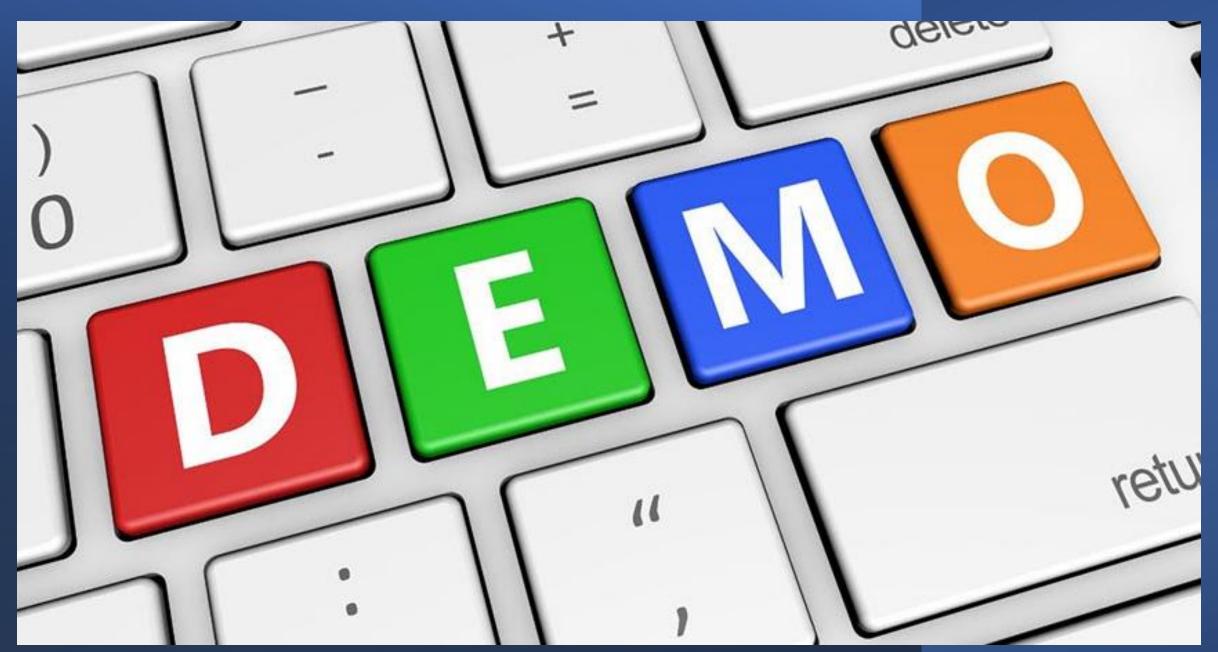
- Identifying a research problem
- Literature review
- Research Design
- Collecting Data
- Analysing Data
- Writing and Publishing

- Scopus
- Web of Science
- ScienceDirect
- •JSTOR









https://www.heuristi.ca/

https://jenni.ai/

https://consensus.app/search/

https://scite.ai/

https://www.litmaps.com/

https://paperpal.com/

https://www.perplexity.ai/



St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

an IQAC initiative

Dr. T. S. Harsha,
Director (R&D) & Special
Officer - Ph.D. Cell,
KSOU, Mysore



08 January 2025



Day 3
"Future Research Directions and Collaboration"



Dr.T. S. Harsha

ADDRESS:

Chairman Principal Investigator Special Officer (Ph.D) Cell Department of Environmental Science Karnataka State Open University Manasagangotri, MYSORE – 570 006



email: raoamer@gmail.com,

tsharsha.ksou@ka.gov.in, envrao@rediffmail.com

Sl. No	Recognition/Organisation	ID Number/Link
1	Orcid	0000-0003-0538-3920
2	Scopus	6506491804
3	Vidwan:	https://vidwan.inflibnet.ac.in/profile/251798
4	Google Scholar	6saZhsgAAAAJ
5	Web of Science	ABG-5418-2021
6	https://in.linkedin.com/in/	dr-t-s-harsha-rao-89284650

- Fellow of Academy for Environmental and Life Sciences(FAELS)
- Fellow of Bose Science Society (FBSS)
- Fellow of Scholars Academic and Scientific Society (FSASS)
- Fellow of International Organization for Academic and Scientific Development (FIOASD)
- Fellow of Eurasian Academy of Environmental Science (FEAES)

Teaching Experience: 17 years Research Experience 15 Years

- Ph. D. In Environmental Science from the University of Mysore (2008) Area of Specialization: Aquatic Microbial Ecology
- ❖ Title of the Thesis: "Study of some Environmental and Microbial parameters in the river Cauvery and its important tributaries like Shimsha, Arkavathy, Suvarnavathy and Kapila rivers"
- ✓ Passed Karnataka State Eligibility Test (KSET) for lectureship/Assistant Professor 2013

CITATION





Dr. T S Harsha Rao

Assiatant Professor of Environmantal Science Verified email at ka.gov.in - Homepage

Aquatic Microbial Ecology Planktonology
Pollution Biology

ARTICLES CITED BY CO-AUTHORS

		All		Since 2	018
Citations		76			28
h-index		4			3
i10-index		2			1
	ľ				12
	Н		_		6
	-				

ACADEMIC AWARDS, HONORS AND RECOGNITION:

- 1. Junior Research Fellowship award for two and half years (Completed on June 2002) sanctioned by Department of Science Technology, New Delhi.
- **2.** *CSIR-SRF fellowship* award for three years (Completed on March 2006).
- 3. "Junior Scientist of the year 2003" by the National Environmental Science Academy, (NESA), New Delhi.
- 4. Awarded "Best Paper" at National Seminar on Algol Ecology held on 3 and 4th November 2012 at Chennai and given a cash award in recognition of the same.
- 5. Indira Priyadarshini Best Scientist Award for 2015-16 by the Bose Science Society, Pudukottai, Tamil Nadu.
- "Adarsh Vidya SaraswatiRashtriya Puraskar" award by The Global Management Council, Glacier Journal Research Foundation, Ahmadabad, Gujarat on 10th May 2016.
- 7. Name is cited in Asia/Pacific "Who's Who" Rifacimento International, 15th Volume P 422.
- 8. "Outstanding Scientist Award" by International Institute Technical Teachers, Dehradun, on 22nd May, 2021.
- 9. *"Dr. Sarvepalli Radhakrishnan Best Faculty Award"* by Center for Professional Advancement Continuous Education, Vijayawada, Andra Pradesh. On 5th, September 2021.
- 10. "INDIA Prime Top 100 Professors award 2021" by Fox Clues India Prime Awards, Chandigarh, Punjab 18th September 2021.
- 11. "Eminent Scientist of the Year 2021" by the National Environmental Science Academy, (NESA), New Delhi on 13th December 2021.

- **12**. Awarded by Fox Story India of *'Top 50 Aspiring Authors & Researchers' 2022* by Fox Story India in recognition and honor the torch-bearers of society in their Field.
- 13. Scholars Academic and Scientific Society (SAS Society) has recognized the contributions in academics and research and has Awarded as SAS Fellow Membership (FSASS) in 13th March 2023.
- **14.** "Academic Excellence Award" 2022-2023 by the Centre for Internal Quality Assurance (CIQA), Karnataka State Open University, Mysore on 28-03-2023, Science Day Celebration at KSOU.
- **15.** *"C V Raman Prize 2023"* for outstanding professional and Research Achievement in the field of Environmental Science by the Institute of Researchers, registered and recognized by the Ministry of MSME, Govt. of India, Kalpetta, Wayanad on 25-04-2023.
- **16.** Name is cited in *"Asian Admirable Achievers 2023"* Rifacimento International, 11th Volume P 414.
- 17. "Dr. APJ Abdul Kalam Rashtriya Puraskar" award by The Global Management Council, Glacier Journal Research Foundation, Ahmadabad, Gujarat on17th August 2023.
- **18.** Associate Member of Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka, Bangalore on October 2023.

EMPLOYMENT HISTORY:

- 1. **Assistant Professor:** Department of Environmental Science, Karnataka State Open University, Manasagangotri, Mysore, Karnataka State, India: **October 2006-till** date.
 - Supervise 60 to 80-students programme; Institute devoted to Open Distance Learning in
 - M. Sc., in Environmental Science, Certificate Programmes in Environmental Technology, Management and Solid Waste Management with Commonwealth of Learning, Vancouver, Canada collaboration: education/outreach
 - Teach graduate level courses.
 - Teach Post Graduate level courses

$\textbf{Additional Responsibility:a) Project Director,} \\ National \\ Mission \\ on$

Education through Information and Communication Technology (NMEICT).

b) **Co-Ordinator,** Virtual Laboratory, Nodal Center, KSOU, Mysore (from 19-11-2019 to 14-02-2023).

- 2. Special Officer and Nodal Officer for UGC's Student Grievance Redressal Portal: Examination Branch, Karnataka State Open University, Mysore from 16 -07-2019 to 21-01-2020.
- 3. **Senior Research Fellow:** Sanctioned by Council of Scientific and Industrial Research, New Delhi, Working Place: Aquatic Microbial Ecology Research Laboratory, DoS in Zoology, University of Mysore, Manasagangotri, Mysore, Karnataka State, India: 2003
 - March, 2006.
 - Carried out research activity in the project entitled "Spatial study of the Arkavathy and Suvarnavathy Lotic Ecosystems in Karnataka State". Attempted to identify role of heterotrophic bacterial community in two different aquatic ecosystems and the factors controlling the important biopurification activity in lotic aquatic ecosystem and also provide technical support for the research program; manage external contracts; and conduct research on othermicrobial communities (Phytoplankton & Zooplankton).
- 4. **Junior Research Fellow:** Sanctioned by Department of Science & Technology, New Delhi.

Working Place: Aquatic Microbial Ecology Research Laboratory, DoS in Zoology, University of Mysore, Manasagangotri, Mysore, Karnataka State, India: September 1999 – June, 2002.

- Carried out research activity to understand the role of Heterotrophic bacteria, Phytoplankton and Zooplankton (microbial assemblages) in the functioning of "*microbial loop*" in the freshwater Aquatic Ecosystems.
- Carried out Water quality analysis for two years to know the physicochemical nature of the aquatic environment all of which probably influences the growth and physiology of microbial populations.
- 5. **EnvironmentalOfficer**: Bangalore Trade and Finance Corporation Distillery Unit, Hriyur, Chitradurga District, Karnataka State, India: August1998–March,1999.
 - Supervision of Primary (Anaerobic Digestion & Bio-methanization) and Secondary (Aerobic treatment by aerator and clarifier) Effluent Treatment Plant.
 - Effluent analysis (before and after treatment) for chemical parameters such as Total Volatile Acids, Chemical Oxygen Demand and maintain the efficiency in treatment process.

COURSES TAUGHT:

Environmental Sciences: Environmental Technology, Environmental Management, Solid Waste Management, Environmental Education, OSHA, and Environmental Studies

M. Sc., in Environmental Science

Microbiology: Microbial Ecology, Soil Microbiology, Environmental &

Industrial Microbiology

Biotechnology: Industrial & Microbial Biotechnology.

AREA OF SPECIALIZATION:

- Aquatic Microbial Ecology
- Limnology
- Environmental pollution
- Environmental Law
- Conservation and Management
- Environmental Education
- Solid Waste Disposal and Management
- Wastewater Pollution and Solution
- Integrated Water Resource Management

RESEARCH PROJECTS COMPLETED:

- "Comparative analytical study of various types of yagna and its effect on environment with special reference to antimicrobial activity of airborne Microbes" (Co-PI), RGUHS sanctioned (2017-2019).
- Quality Enhancement in Distance Learning in Karnataka State Open University sponsored by Distance Education Council, New Delhi.
- Development of India Fact file on Open Distance Learning system (Sate wise) sponsored by Distance Education Council, New Delhi
- Spatial study of the Arkavathy and Suvarnavathy Lotic Ecosystems in Karnataka State (CSIR Sponsored).
- Microbial Ecology of the River Cauvery and its Tributaries in Karnataka State (DST- GOI Sponsored)
- Limnological Study of Gopalaswamy Pond Chitradurga, Karnataka State (During PG)
- Extension Work Use of pesticides and fertilizers in Shankaraghatta Village -a preliminary survey (During PG).

PUBLICATIONS (On Open Distance Learning)

1. S.N. Vikram Raj Urs, **T S Harsha** and Vijay Raju B P. **(2013)** Ethical issues in Open and Distance Education with Special reference to Expectations and Reality *Turkish Online Journal of Distance Education*(TOJDE) 14 (4) 46-53.

ISSN 1302-6488

2. C. Anitha and **T.S. Harsha (2013)** Ethical Perspectives in Open and Distance Education System., *Turkish Online Journal of Distance Education*(TOJDE) 14 (1) 193-201.

ISSN 1302-6488

3. **T.S. Harsha, (2016)** Learning Science through Distance Education- A challenge at Karnataka State Open University. The Online Journal of Distance Education and e-Learning, Volume 5, Issue 1, 62-65.

ISSN 2147-6454.

PUBLICATIONS (Environmental Science/Microbiology):

1. **Harsha. T. S.** and Malammanavar (2004) Assessment of phytoplankton density in relation to environmental variables in Gopalaswamy pond at Chitradurga, Karnataka. *Journal of Environmental Biology.*, 25(1): 113-116.

ISSN/ISBN No. 02548704 IF: 0 . 48

2. T. S. Harsha, M Mahadevaswamy and Sadanand M Yamakanamardi (2006) Temporal variation in the abundance of heterotrophic bacteria in the river Cauvery and its down stream Tributaries. *Indian Journal of Microbiology.*, **46(3)**: **249-257.**

ISSN/ISBN No. 0046-8991 IF: 0.93

3. **T. S. Harsha,** Sadanand. M. Yamakanamardi* and M. Mahadevaswamy (2006) Physico- chemical (Environmental) study of Lotic Ecosystems of main river Cauvery and its four down stream tributaries in Karnataka State, India *Indian Hydrobiology* ., 9(2): 269-294

ISSN No. 0971-6548

4. M. Mahadevaswamy, Sadanand M. Yamakanamardi **and T. S. Harsha**. (2006) Microbial Ecology of main river Cauvery and its four important upstream tributaries in Mysore district of Karnatakastate,India,Indian *Hydrobiology.*, 9(2):247-268.

ISSN No. 0971-6548

5. **T. S. Harsha**, Sadanand. M. Yamakanamardi and M. Mahadevaswamy (2007) Heterotrophic free living and particle bound bacterial cell size in the river Cauvery and its downstream tributaries, *Journal of Biosciences.*, 32(2):363-374 (https://doi.org/10.1007/s12038-007-0035-y)

ISSN/ISBN No. 0250-5991 IF: 4.08

6. M. Mahadevaswamy, Sadanand M. Yamakanamardi and **T. S. Harsha**. (2008) Bacterial (free living and particle bound) cell –size in the surface waters of river Cauvery and its upstream tributaries, in Karnataka state, India, *International* Journal of Applied Ecology and Environmental Research., 6(1):29-47.

ISSN/ISBN No. 1589-1623

IF:0.54

7. **T.S.Harsha**, S.M.Yamakanamardi and M. Mahadevaswamy (2009) Temporal variations in Specific Growth Rate(SGR)of heterotrophic bacterioplankton in river Cauvery and its four important tributaries in Karnataka, State, India, *Environmental Monitoring and Assessment*., 154:169-185.

ISSN/ISBN No. 0167-6369 IF: 1.43

8. Wadie Ahmed Mokbel, Sadanand M. Yamakanamardi and T.S. Harsha (2008) Temporal variation in the Specific Growth Rate of heterotrophic bacteria of the ground water from three different Agriculture, Domestic and Industrial areas, Mysore district, Karnataka state, India.

Indian Hydrobiology, 11(1):51-63.

ISSN No. 0971-6548

9. C Nagalabika, S Mahadevamurthy, **T S Harsha** and Keshava Nireshwalia (2010) Enumeration of *Escherichia coli* in groundwaters of Mysore city, Karnataka, India. *Indian Hydrobiology.*, 13(1): 75-79.

ISSN No. 0971-6548

10. Ipsita RH, Dayani C, **Harsha T S** and Sudha S. Assessment of zooplanktonic frequencyin relationtophysico-chemicalparametersin Karanjilake, Mysore. *JSSCWM QUEST* Journal, 1(2),77-85.

ISSN 2321-0052

11. C Nagalabika, S Mahadevamurthy, **T S Harsha** and N. Lakshmidevi (2012). Studies on Groundwaters of Mysore City with special Reference to Fluoride Concentration, *Nature Environment and Pollution Technology.*, 11(4),711-716.

ISSN 0972-6268 IF: 0.53

12. **T. S. Harsha**, S. M. Yamakanamardi (2013). Species abundance, composition and distribution of phyto and zooplankton in river Cauvery and its four important tributaries in Karnataka State, India, *The Journal of Ecology.*, Photon107, 200-213

ISJN 6853-3275

13. C Nagalabika, S Mahadevamurthy, **T S Harsha**, D Istalinga Murthy and Pratibha Rajashekar (2013). Physico-chemical Parameters and Correlation Coefficients of Groundwaterof Mysore City, Karnataka. *JSSCWMQUEST* Journal, 1(1), 20-28

ISSN 2321-0052

14. C Nagalabika, S Mahadevamurthy, **T S Harsha**, (2014) Seasonal Variations in Physical- Chemical and Bacteriological parameters of Groundwater in East-West Zones of Mysore City, *The Journal of Water Research*., Photon 136, 272-277

ISJN 3294-9473

15. C Nagalabika, S Mahadevamurthy, **T S Harsha**, (2014) Bacterial Assessment of Groundwater: A case study of Mysore City, *JSSCWM QUEST* Journal, 2(1), 76-79

ISSN 2321-0052

16. Priyadarshini. S., **Harsha T.S.**, and Mythrey R.C. (2017) Comparative analysis of Bacterial and Fungal counts in 'vastu homa,' a traditional air purification process. Indian Journal of Research., PARIPEX, 6(2), 44-45.

ISSN 2250-1991 IF: 5.215

17. Priyadarshini. S., **Harsha T.S.**, and Mythrey R.C. (2019) Sri Narasimha Homa –a Comparative study with special reference to seasons. GJRA -Global Journal for Research Analysis., VOLUME-8,ISSUE-4,

ISSN No 2277 - 8160 IF3.62 (SJIF)

18.Prathima R, Harsha TS, and Nagalambika Prasad. (2021). Multifunctional aspect of Mycosporine like Amino Acids: a review. International Journal of Innovations in Biological and Chemical Sciences, Volume 14, 2021, 1-9.

ISSN 2047-9093 IF 3.2

19. Kushala, M., Harsha T.S. and Mahadeveswamy. M. (2022). Vegetable wastes as Economic and Nutritive Media for the Culture of Zooplankton, *Moina Brachiata*. Science, Technology and Development Journal, VolXI, Issue II, 54-58. (7th Feb 2022). (DOI. 21.18001.STD.2022.V1I01.22.3527.6).

ISSN 0950-0707

20. Soundarya K R, Bhavana D, **Harsha T S**, Nagalambika Prasad (2022). Isolation, Identification and Biochemical Characterization of *Rhizobium* spp. from *Mimosa pudica*. World Wide Journal of Multidisciplinary Research and Development, 8(05): 4-9.

E-ISSN: 2454-6615, IF 1.36

21. Kushala. M, **T.S. Harsha** and M. Mahadevaswamy (2022). Assessment of Zooplankton Abundance in Relation to Physico-Chemical Parameters in the Important Lakes of Mysore City, Karnataka State, India. *Indian Journal of Natural Sciences, Vol.13* / Issue 74 / October / 2022. 48457-48466.

ISSN: 0976 - 0997, IF 1.98

22. Namratha K.M, Mahadevaswamy M and Harsha T.S. (2022). A Comparative Study of Two Freshwater Lakes of Mysore with Different Pollution Status. *Indian Journal of Natural Sciences, Vol.13* / Issue 74 / August / 2022. 45000-45012.

ISSN: 0976 - 0997, IF 1.98

23. Thirthalakshmi Yochitha S., Soundarya Shree K.R., Bhavana D., Arpitha H., **Harsha T.S.** and Nagalambika Prasad. (2023). Isolation, Screening and Optimization for Laccase production by *Fusarium* spp. under submerged fermentation. Eco. Env. & Cons. 29 (January Suppl. Issue): 2023; pp. (S59-S64)

ISSN 0971-765X, IF 0.341

24. **T.S.** Harsha (2023). *Ozone (Conservation)" – Past-Present-Future: A Review.* International Journal of Research and Analytical Reviews (IJRAR). March 2023, Volume 10, Issue 1, 88-893.

E-ISSN 2348-1269, P- ISSN 2349-5138

25. Haripriya Holachii, Harsha Tandoti Sathyanarayana Rao, Raghu Ram Achar, Vadiraj Kalya Tulsidas. (2023). Sustainable Way for Integrated Farming System: A Case Study on Bellary District of Karnataka, India, World Journal of Environmental Biosciences, Volume 12, Issue 1: 10-15.

ISSN 2277-8047, IF: 0.976

26. Nijagal B S, **Harsha T S**, Neha khanum R, Nabiya and Darshankumar D (2023). A Study on Zooplankton Diversity and Some Physicochemical Parameters of Gobli Lake, Mysuru. Indian Journal of Natural Sciences, Vol.14 / Issue 77 / April / 2023,

ISSN: 0976 - 0997, IF 1.98

27. Bhavya.G.N and **T. S. Harsha**. (2023). Ergonomics Impact on Government Employees Work Performance at Office of the Assistant Commissioner, Madhugiri Sub-Division, Madhugiri, Tumakuru District. International Journal for Research in Engineering Application & Management (IJREAM) Vol-08, Issue-12. P 69-73.

ISSN: 2454-9150, IF 7.427

28. Chaitra R.K, **T.S Harsha**and M.F Rahman (2023). Fish diversity of Tungabhadra river in Harihar taluk, Davangere district, Karnataka, India. *International Journal of Current Research*, Vol. 15, Issue, 05, pp.24620-24626, May, 2023.(DOI: https://doi.org/10.24941/ijcr.45317.05.2023)

ISSN: 0975-833X

29. K.M. Namratha, T.S.

Harsha, and M. Mahadevaswamy (2023). Assessment of Water Quality Index: A Case Study of Two Lakes of Mysore District. *Indian Hydrobiology*, 22(1): 1–12, 2023. ISSN No.0971-6548

30. Rabiah Ayman, Lakshmi P K , Bhavana D , Shivarudraswamy D , **Harsha T S** and Nagalambika Prasad (2023). Food Colors and Dyes - Its Safety and Concern in Modern World: a Review. Indian Journal of Natural Sciences, Vol.14 / Issue 78 /June: pp 56388-56394.

ISSN: 0976 - 0997, IF 1.98

31. Shiva Kumar Basavaraj, Raj Kumar Devaraje Urs and **T. S. Harsha** (2023). Sighting of Greater White Fronted Goose in Hadinaru Kere, Mysore. International Journal of Innovative Science and Research Technology. Volume 8, Issue 7, PP 2206-2208.

ISSN No: 2456-2165

32. Rajkumar Devaraje Urs, Daniel Sukumardas and **T.S.Harsha Rao** (2023). Record of Vulture Nests in Bandipur Tiger Reserve. Indian Journal of Natural Sciences. Vol.14 / Issue 79 / Aug / 2023, PP 58985-58987

ISSN: 0976 - 0997

ARTICLES PUBLISHED IN LOCAL LANGUAGES (KANNADA) ABOUT ENVIRONMENT IN NEWS PAPER/UNIVERSITY PUBLICATION

- Haruva Nari (Flying fox) Pranishastra Vishwakosha. Kuvempu
 KannadaAdyana Samsathe, University of Mysore, 2006, 1144.
- 2. Heggana (Bandi coot) *Pranishastra Vishwakosha*. Kuvempu Kannada Adyana Samsathe, University of Mysore, 2006, 1158.
- 3. "Shanakagalu" *Kannada Vishwakosha*. Kuvempu Kannada Adyana Samsathe, University of Mysore, 2004, 533-534(14).

- 4. Barathada silicon vyaliya vayu malinyakke Remote Sensingna balake.

 Vijnana Karnataka, Prasaranga, University of Mysore. 2003, 31(1&4), 8.
- 5. PrakruthiHarisida Hosa Varsha, Chandravalli Patrike, Chitradurga. 1999, 2.
- 6. Ozone padaradalli randra...! uttara druvakku haradida appathu.

 Chandravalli Patrike, Chitradurga. 1999, 2.
- 7. Manavana tulithakke silukida malegadugalu. *Chandravalli*Patrike, Chitradurga.1998, 2.
- 8. "Microbe" Yestu upayoga?. *Chandravalli Patrike*, Chitradurga. 1998, 2.
- 9. Parisara Samrakashane Manavaninda Sadhyave?. *Chandravalli Patrike*, Chitradurga. 1998, 2(b).
- 10. Parisara Samrakashane Manavaninda Sadhyave?. *Priya Patrike*, Chitradurga. 1998, 2(a).
- 11. Chitradurgada Ithihasica Gopala swamy Honda Mundina peeligege ulidite?. *Jana Vahini*, Chitradurga. 1998, 1.

ARTICLES PUBLISHED IN ENVIROWORLD MAGAZINE (ENGLSH)

- 'Beat plastic pollution: an alarming call for Action' ENVIROWORLD Magazine
 Volume II/ Issue -1/June 2018: RNI-KARENG/2017/75103
- 2. **OSHAinIndia**—,*StayingSafeontheJob*". ENVIROWORLD Magazine, Volume II/ Issue 1/June 2018: RNI-KARENG/2017/75103
- 3. Municipal Solid Waste..... Problems and Solutions? .

 ENVIROWORLD Magazine Volume II/ Issue -2/July 2018: RNI
 KARENG/2017/75103: Page 30-31.

4. RiskatWork-Personal protective equipment (PPE). ENVIROWORLD Magazine,

Volume II/Issue-2/July2018: RNI-KARENG/2017/75103:Page12.

- 5. **Biomedical Waste Management: Policy and Practices.**ENVIROWORLD Magazine Volume II/ Issue-3/August2018: RNIKARENG/2017/75103:Page 30-31.
- 6. Risk at Work Personal protective equipment (PPE)(Continued).

 ENVIROWORLD Magazine Volume II/ Issue -3/July 2018: RNI
 KARENG/2017/75103: Page 12.
- 7. "E-Waste" Problem, Hazards and Solutions. ENVIROWORLD Magazine
 Volume II/ Issue -4/August 2018: RNI-KARENG/2017/75103: Page 30-31.
- 8. Hazardous Waste Management. ENVIROWORLD Magazine Volume II/
 Issue 5/August 2018: RNI-KARENG/2017/75103: Page 26-29.
- Liquid WasteManagement. ENVIROWORLD Magazine Volume II/ Issue 6/October 2018: RNI-KARENG/2017/75103: Page 37-39.
 - A book on Student Grievance in Karnataka State Open University (in Kannada), 2007
 published by KSOU, Mysore.

SCIENTIFIC PRESENTATIONS AND ABSTRASCTS PUBLISHED:

1 2000 Harsha. T. S. "Seasonal Study of Environmental and Microbial variables in the surface waters of Cauvery, Shimsha, Arkavathy, Suvarnavathy and Kapila rivers in Karnataka, India in National Symposium on Chronobiology held at Gulbarga University, Gulbarga, from October 13 to14,".

- 2 2001Harsha.T.S. "Determinationofthewaterqualityoftheriver Cauveryandi ts tributaries in Karnataka State, based on Specific Growth Rate of Bacterioplankton" in 42nd annual Conference of Association of Microbiologists of India (AMI), held at Gulbarga University, Gulbarga from 9th to 11th November.
- 3 2004 **Harsha. T. S.** "Effect of some Environmental variables on Abundance of Heterotrophic Bacteria in the surface waters of River Cauvery and its Tributaries in Karnataka State" in *XVII Annual International Conference on Recent Trends in Environmental Sciences, organized by National Environmental Science Academy, New Delhi, from 23rd to 26th April.*
- 4 2012., **Harsha T S** "Abundance, species composition, and distribution of Phyto and Zooplankton in river Cauvery and its four important tributaries in Karnataka State, India" in National Seminar on Algol Ecology on 3rd and 4th November 2012 held at Chennai.
- 5 2021., Harsha T S "Ozone (Conservation) Past- PresentFuture: A Review " in the 2 days International Conference on Promoting Environmental Technologies for Waste Management and Sustainable Development (WMSD-2021), Organized by National Environmental Science Academy (NESA), New Delhi In Collaboration with Bhubaneswar City Knowledge Innovation Cluster (BCKIC) on 12-13 December, 2021 held at Kalinga Institute of Industrial Technology, Bhubaneswar.

ORIENTATION/REFRESHER/SHORT-TERM PROGRAMME:

- Participatedin102nd UGC Sponsored Orientation Programme organized by UGC Academic Staff College, University of Mysore from 28.12.1013 to 24.01.2014 and obtained 'A' grade.
- ➤ Participated in 12th UGC Sponsored Refresher Course in Life Sciences organized by UGC- HRDC, University of Mysore from 03-11-2016 to 23.11.2016 and obtained 'A'grade.

- ➤ Participated in UGC Sponsored 1-Week Workshop on ICT organized by UGC-HRDC, University of Mysore from 07-03-2017 to 13.03.2017.
- ➤ Participated in National Workshop on Design and Development of Self Learning Materials for Distance and Online Learning (Virtual Mode), Organized by Staff Training and Research Institute of Distance Education IGNOU, New Delhi from 12-10-20 to 18-10-20.
- Participated in 14th UGC Sponsored Refresher Course in Life Sciences (Online) organized by UGC-HRDC, University of Mysore from 29-09-2021 to 12.10.2021 and obtained A grade.

KEYNOTE AND SPECIAL LECTURES:

- ❖ Delivered keynote address on , Microbial Loop: Concept and its applications in Aquatic Ecosystems" at 5th National Conference on Natural Sciences held at Holy Cross College, Trichirapalli, Tamil Nadu in collaboration with Bose Science Society, Pudukottai, Tamil Nadu on 19th January 2016.
- ❖ Delivered key note address on ,Why Waste Water a review. " at One day National Seminar on Current Issues and Challenges of Sustainable Water Resources Management (CICSWRM-2017) on 22nd March 2017 organized by Dept. of Biotechnology, Mother Teresa Women's University, Kodaikanal-02.
- ❖ Delivered key note address on ,Environmental Clarence Procedure for Industrial Projects" at One day Work Shop on Environmental Impact Assessment on 10th April, 2017 organized by Dept. of Civil Engineering, NMAM, Institute of Technology, Nitte.
- ❖ Delivered Special lecture on "Challenges Forced by Development VS Environment" at One Day Workshop for Law Students on Environmental Protection and Legal Enforcement Challenges" on 24-10-2019 Organised by Akhil Bharatiya Vidyarthi Parishad, Mysuru and District Legal Services Authority Bar Associaltion (R)Mysuru.
- ❖ Delivered Special lecture on "Environmental Science: Concept and Importance in the Current Scenario" at Student Induction Program" organized by University College of Engineering Technology (UCET), Vinoba Bhave University, Hazaribag, Jharkand on 20th January 2021 (Online).

- ❖ Delivered Special lecture on "Effect of Emissions on Environment" at TEQIP- III Sponsored 5-days Online Course on Advancement in the use of Alternative fuels in IC Engine organized by University College of Engineering Technology (UCET), Vinoba Bhave University, Hazaribag, Jharkand from 01St to 5th February 2021.
- ❖ Delivered Special lecture on "E-waste Management in India" at TEQIP-III Sponsored Two-week Virtual Short term course on "Research Trends in Electronics and Communication Engineering -2021" organized by Department of Electronics and Communication Engineering, University College of Engineering Technology (UCET), Vinoba Bhave University, Hazaribag, Jharkand from 8th to 19th February 2021.
- ❖ Delivered a talk on "Reimagine, Recreate and Restoration of Ecosystem" in "Higher Education Summit-2021(Online), Organized by International Institute of Technical Teachers (IITT), Dehradun, India on 25th May 2021.
- ❖ Delivered Special talk on "Reimagine, Recreate and Restoration of Ecosystem" on World Environmental Day Celebration organized by Environment and Conservation Cell and Dept. of Biotechnology, Mother Teresa Women's University, Kodaikanal-o2
- ❖ Delivered Special Lecture on "Effect of Emissions on Environment" at AICTE Training and Learning Academy Online Elementary FDP on Alternative fuels in IC Engine organized by University College of Engineering Technology (UCET), Vinoba Bhave University, Hazaribag, Jharkand from 2nd 6th August, 2021.
- ❖ Delivered a Invited Talk on "Microbial Loop: Concept and its applications in Aquatic Ecosystems"
- ❖ Delivered a talk on "Challenges in Biomedical Waste Management: Pollution V/S Solutions", on 5th June 2003, the occasion of World Environmental Day Celebration Organized by Dept of Health System Management Studies, JSSAHER, Mysore.

WORKSHOPS/CONFERENCES ATTENDED:

- Two days Seminar on "Biodiversity and Conservation" on 26th and 27th March 1997, Sahyadri College, Shimoga.
- Two days National symposium on "Chronobiology" on 13 and 14 October 2000, organized by Department of Zoology, Gulbarga University, Gulbarga.

- One day Workshop on "Livestock and Environment" on 30th March 2001, organized by Department of Environmental Science, Bangalore University, Bangalore,
- National Workshop on "Methods in Limnology" on 16th to 22nd November
 2003, at RKM, Vivekananda College, Chennai.
- National Workshop on "Zooplankton" from 5th to 10th July 2004, at the New College, Chennai.
- o One day workshop on "Personality Development at the International Leadership Institute of M/s. Infosys, Mysore" on 15th February 2006, organized by the UGC- Academic Staff College, University of Mysore, Manasagangotri, Mysore.
- One day workshop on "RecentApplications of Remote Sensing & GIS" on 4th April 2006, at Department of Studies in Geology, University of Mysore, Manasagangotri, Mysore.
- o National Conference on "Quality Assurance in ODL Institutions" on 3rd to 5th March 2007 at Karnataka State Open University, Mysore
- National Workshop on "Research & Training in Distance Education" from 19th to 21st
 August 2007, at BRAOU, Hyderabad organized by Staff Training &
 Research in Distance Education (STRIDE), IGNOU, New Delhi.
- One day Workshop on "Production of Audio Lesson" on 15th July 2008, organized by Karnataka State Open University, Mysore
- Six Days Workshop on "Basic Audio-Video Production" from 3rd November to 8th November, 2008, organized by Karnataka State Open University, Mysore in collaboration with Electronic Media Production Centre (EMPC), IGNOU, New Delhi.

- Seminar-cum -workshop on advancing ESD in Teacher Education from 19th to 21st March, 2009, at RV Teachers College, Bangalore organized by Centre for Environmental Education (CEE) Bangalore in collaboration with teacher training colleges in Bangalore and with support from NCTE, Bangalore.
- o One day Workshop on "Water and Waste Treatment" on 9th May 2009, organized by Association of Consulting Civil Engineers (India), Mysore
- Orientation Programme on "Distance Education –New Trends" on 21 and 22
 May, 2009, at Karnataka State Open University, Mysore organized by
 Distance Education Council, New Delhi and KSOU, Mysore.
- Three days Training on "Audio-Visual Learning Aid Development" held from 12th to 14th June 2010, at Electronic Multi Media Research Centre(EMMRC)
 Mysore organized by Karnataka State Open University,
 Mysore
- One day National Conference on "Information Literacy and Higher Education in Digital Environment" held on 30th March 2011, organized by the Dept. of Studies in Library and Information Science, Karnataka State Open University, Mysore.
- Two days workshop on Development of Self Learning Material held on 2nd and 3rd June 2011, Organized by Karnataka State Open University, Mysore.
- o Three Days International Conference on "Open Distance Learning in Global environment: issues and challenges" from September 21-23, 2011, Organized by Karnataka State Open University, Mysore.
- \circ Two days' workshop on Development of Self Learning Material held on 7^{th} and 8^{th} October 2013, Organized by Karnataka State Open University, Mysore.
- o One day workshop on "*Technology in Higher Education*" organized by University of Mysore in association with Karnataka Jnana Aayoga, Govt. of Karnataka on 7th Feb, 2015 at Sente Bhavan, University of Mysore, Mysore.

- o Two days Regional Knowledge Conclave in South India for Colleges and Universities, Mysuru, held on September 6 and 7th, 2018, organized by Centre for Science and Environment (CSE), New Delhi.
- One day workshop on Choice Based Credit System held on 19th July 2019,
 Organized by Karnataka State Open University, Mysore.
- One-week National Workshop on Design and Development of Self Learning
 Materials for Distance and Online Learning

RESPONSIBILITIES CARRIED OUT TILL DATE:

- Served as Chairman, Dept of Environmental Science, KSOU from Feb 17th, 2015- Feb 16th 2017.
- Worked as Co-ordinator for Faculty Development Programme for UG teachers in the subjects Biochemistry, Biotechnology and Microbiology in KSOU funded by VGST, DST, GOK, Bangalore
 - Written Self Learning Material for Environmental Studies/Sciences, Environmental Microbiology, Environmental Biotechnologyand Nutrition and Health Education.
- Worked as Chief Superintendent for PG/UG/Diploma/Certificate
 Examinations of Karnataka State Open University.
- Worked as Coordinator for Evaluation of PG/UG/Diploma/Certificate
 Examinations of Karnataka State Open University.
- Delivered many special lectures in universities,
 colleges and schools on Environmental issues.
- Served as Joint-secretary, Association of Microbiologist of India-Mysore Chapter, CFTRI for the year2013-14
- Served as secretary, Association of Microbiologist of India-Mysore Chapter,
 CFTRI for the year 2014-16.
- Served as Special Officer in the Examination Branch and Nodal Officer for UGC- Students Grievance Portal from 16 -07-2019 to 21-01-2020.

ADVISORY BOARD MEMBER:

- 1. BIOINFO -Environment and Pollution Journal
- 2. BIOINFO- Aquatic Ecosystem
- 3. Glacier Journal Research Foundation, Ahmadabad, Gujarat
- 4. Edwin Group of Journals, Madhya Pradesh, India

M.SC., DISSERTATION EVALUATOR:

1. Department of Environmental Sciences, University of Agricultural Sciences,

Bangalore

PH.D THESIS ADJUDICATOR:

- 1. Madras University, Chennai.
- 2. Mother Theresa University, Kodaikanal.

VISITING FELLOW:

- JSS ACADEMY OF HIGHER EDUCATION AND RESEARCH, SRI SHIVARATHREESHWARA NAGARA, MYSORE
- PBMMPGC, KRS ROAD, MYSORE

MEMBERSHIP (IN SCIENTIFIC ORGANIZATION):

SECRETARY: ASSOCIATIONOFMICROBIOLOGISTOFINDIA-MYSORECHAPTER FOR THE YEAR 2014-2016

- 1}. Life Member, National Environmental Sciences Academy, New Delhi
- 2} Life Member, Indian Science Congress Association, Kolkata.
- 3}.Life Member, Indian Association for Aquatic Biologists, Hyderabad, AP
- 4}.Life Member, Association of Microbiologist of India, New Delhi
- 5}. Associate Member, Krishnamurthy Institute of Algology, Chennai, Tamil Nadu
- 6} Associate Member, Karnataka Science and Technology Academy, GOK, Bangalore.

ACADEMIC MEMBERSHIP:

- 1}. **Member**, Doctoral Committee in Environmental Sciences, JSSAHER, Mysore
- 2}. External Member (Expert in ODL),CIQA, JSSAHER, Mysore
- 3}. **Member**, Board of Examination in Environmental Sciences, Yuvarajal's College, Mysore
- 4}. **Expert Member**, Dept. Of Biotechnology, Mother Teresa Women's University, Kodaikanal
- 5} External Expert Member (Subject), Research Advisory Committee, JSSAHER, Mysore

OTHERS:

Good working knowledge of modern computing facilities, viz. most of the Word
processing packages, graphic packages like Sigma Plot (Jendel, USA), Corel Draw
12 and Statistical packages like SPSS. 12.05 (Statistical Package for Social Sciences,
Chicago, USA), etc.

(T S Harsha)

Future Research Challenges and Solutions



Dr. T S Harsha.,

M.Sc., Ph.D., DEE., FBSS., FAELS., FSASS., FIOASD., FEAES

CHAIRMAN

Department of Environmental Science Karnataka State Open University Manasagangotri, Mysore, Karnataka State, India

9449178802, raoamer@gmail.com

How will you be Recognized...Academically?

- Ph.D?
- Number of Publications?
- Citations?
- Impact Factor?
- H index?
- I Index?
- Metrics
- Projects?
- Awards?



"All that work to tell you about stuff you could look up on Wikipedia?!"

Number of Publications?

- Which journal
- Peer-reviewed
- UGC-CARE list
- Scopus
- Web of Science
- Thomson Reuters
- ABCD indexed (Academic Business Current Data)

Citation. Metrics...impact factor

ಹೊಸ ಚಿಗುರು ಹಳೆ ಬೇರು ಕೂಡಿರಲು ಮರಸೊಬಗು । ಹೊಸಯುಕ್ತಿ ಹಳೆತತ್ತ್ವದೊಡಗೂಡೆ ಧರ್ಮ ॥ ಋಷಿವಾಕ್ಯದೊಡನೆ ವಿಜ್ಞಾನ ಕಲೆ ಮೇಳವಿಸೆ ।

ಜಸವು ಜನಜೀವನಕೆ –ಮಂಕುತಿಮ್ಮ ॥ (೫೨೨)

ಹೊಸದಾಗಿ ಚಗುರು ಬರುವುದು ಹಳೆಯ ಬೇರನಿಂದಲೇ ಅಲ್ಲವೇ? ಅದರಿಂದಲೇ ಗಿಡ, ಮರ ಸೊಗಸಾಗಿ ಕಾಣುತ್ತದೆ. ಹಾಗೆಯೇ ನಮ್ಮಲ್ಲಿ ಬುದ್ಧಿಶಕ್ತಿ ಬೆಳೆದು ಅದರ ಹರಹು ವಿಸ್ತಾರವಾಗುತ್ತಿದೆ. ಜನರು ತಿಳಿದುಕೊಳ್ಳಬೇಕಾದ ಸಂಗತಿಗಳೂ, ಹೊಸದಾಗಿ ವಿಮರ್ಶಿಸಬೇಕಾದ ಸೂಕ್ಷ್ಮಗಳೂ, ಹೊಸದಾಗಿ ಪರಿಹರಿಸಬೇಕಾದ ಸಮಸ್ಯೆಗಳೂ ದಿನೇ ದಿನೇ ಹೆಚ್ಚಾಗುತ್ತಿದೆ. ಹೀಗೆ ನಮ್ಮ ಅಂತರಂಗಜೀವಿತದ ಮೂಲ ವಿಚಾರಗಳು ಸಾರ್ವಕಾಲಿಕವಾದವು. ಅವು ಎಷ್ಟೇ ಪುರಾತನವೋ ಅಷ್ಟೇ ನೂತನವೂ ಹೌದು. ಅದನ್ನು ಕುರಿತ ಪ್ರಾಚೀನದೃಷ್ಟಿಯನ್ನು ಅಧುನಿಕದೃಷ್ಟಿಯೊಡನೆ ನಮನ್ನಯಗೊಳಿಸುವುದೇ ನಮಗಿರುವ ಕರ್ತವ್ಯ. ಋಷಿವಾಕ್ಯ ಹೇಳುವ ಹಳೆಯ ತತ್ತ್ವದೊಡನೆ ನಮ್ಮ ಹೊಸ ಯುಕ್ತಿಗಳು ಕಲ್ಪಿಸಿರುವ ವಿಜ್ಞಾನಕಲೆ ಮುಂತಾದವುಗಳೊಡನೆ ನಮನ್ನಯಗೊಳಿಸಿ ಈಗಿನ ಧರ್ಮವನ್ನು ನಾವು ನಿರ್ಣಯಿಸಿಕೊಳ್ಳಬೇಕು. ಇದರಿಂದ ಜನಜೀವನಕ್ಕೆ ಒಳ್ಳೆಯದಾಗುತ್ತದೆ. ಯಶನ್ನು ಬರುತ್ತದೆ.

ಕೃಪ: ಮಂಕಾತಿಮೃನ ಕಗ್ನ ತಾತ್ರರ್ಯ – ಶ್ರೀಕಾಂತ್, ಕಗ್ನಕ್ಕೊಂದು ಕೈಪಿಡ – ಡ.ಆರ್.ವೆಂಕಟರದಾಣನ್

Wm://fotoyskeggs.bloggset.com

Emerging trends in Research

- Writing Skills in research articles.
- Selection of Journals
- Appropriate title
- Language Editing
- Plagiarism
- Time period
- API
- CAS



Introduction

- A naturalist's life would be happy one if he had only to observe and never to write (Charles Darwin)
- In science, no matter how spectacular the results are, the work is not completed until the results are published.
- Let's explore the main steps from rough manuscript to published paper.

Contents

From an idea



by way of rules





to the published paper



- kinds of scientific written communication
- scientific writing in general
- IMRaD format
- paper organization
- paper writing
- paper submission
- the editing process
- proof-reading
- ... and pointers to reading

Scientific written communication

- Reports
- Theses or dissertations
- Journal articles
- Books and book chapters
- Technical manuals/users guides
- Research or grant proposals
- Slide presentations
- Posters

Scientific writing in general

- Subject
- Purpose
 - to exchange the scientific/academic knowledge
 - to ask and answer specific questions
- Audience
 - scientists and those interested in the subject
 - a publisher or an editor

"IMRaD" format

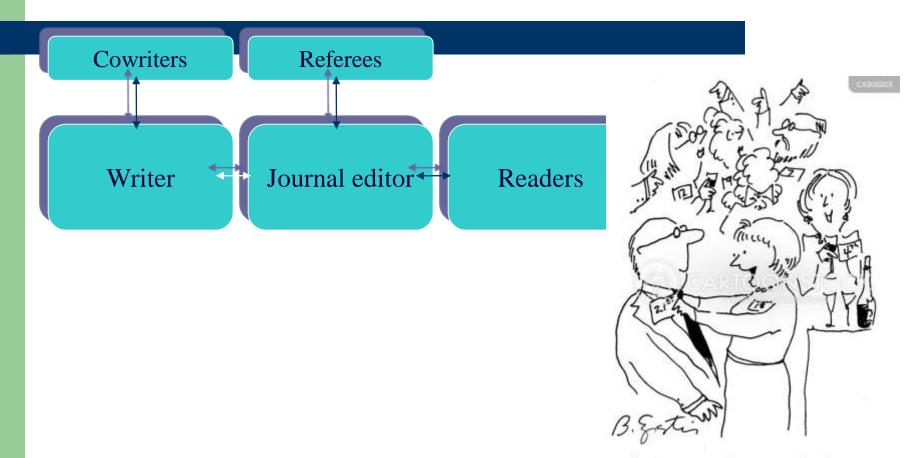
- Introduction
- Methods
- Results and
- Discussion

- What problem was studied? What others and you did? Your study area.
- How do you did it?
- What did you find out?
- What do your findings mean?... Combine /conclusion/summary and future plans

Other types of journal papers

- Review
- Technical note
- Letter to the editor
- State-of-the-Art
- Short Communication
- Example of other types of articles, including technical notes or data briefs:
- https://www.agu.org/publications

Steps in scientific journal writing



"Welcome to the co-author's party!
You're number twenty-one!"

Introduction

- call attention to the specific subject, define the problem
- provide background and present the results of other studies (literature review)
- list the structure of your research project and what you plan to present in your paper

Reading a scientific article isn't the same as reading a detective story. We want to know from the start that the butler did it (Ratnoff, 1981)

Methods

- complete information of materials and methods used, conditions present, actions, experimental design, etc.
- this section usually has subheadings; when possible match those to be used in Results
- enough information must be given so that the models/experiments can be reproduced
- ask a colleague if he/she can follow the methodology

Results

- display of data with logical development showing how your findings satisfy your objectives
- where possible give illustrative examples and compare those with known results from literature
- use tables and figures
- the fool collects facts; the wise man selects them
 (J. W. Powell, 1888)

Discussion

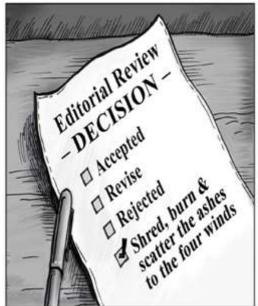
- the hardest section to write
- discuss, without just repeating the Results
- show the relationship among observed facts

Conclusion or Summary

- state your conclusion(s) as clearly as possible
- summarize evidence for each conclusion
- end with a short statement regarding the significance of your work

A rough draft perhaps but





(1) (S) (E) (9 2013, Aries Systems Corporation. Some Rights Reserved. http://creativecommons.org/licenses/by-nc-nd/3.0/deed.en_US

- Will you have co-authors?
- Which journal to submit your manuscript?
- How soon will it be published?
- How to deal with editors?

Journals - Publishers

- Professional societies
 - AAG
 - AGU
 - URISA
 - ESA
 - AFS

- Professional publishers
 - Elsevier
 - Pergamon Press
 - Springer Verlag
 - J Wiley & Sons
 - Kluwer Academic Publishing
 - BlackwellTaylor & Francis
 - Academic Press

Where to submit the manuscript

- The prestige factor
- The circulation factor
- The frequency factor
- The audience factor
- What is the publisher's practice w/libraries?
 - Will they have access to the journal for reasonable price???

Journal Citation Reports

jcrweb.com

Information for New Users

Welcome to the Journal Citation Reports on the Web (JCR Web). JCR Web provides easy access to data that helps you evaluate and compare scholarly journals. Please read the overview sections (see the Table of Contents on the left) for information about what the JCR is and how it can be used.

Refer to the JCR Home Page help for information on selecting a database and a query option.

The JCR Web, like the JCR on CD product, is an essential, comprehensive, and unique resource tool for journal evaluation, using citation data drawn from over 8,400 journals from over 3,000 publishers worldwide.

The JCR is the *only* source of citation data on journals, and includes virtually all specialties in the areas of science, technology, and social sciences. The JCR can show you the:

- highest impact journals
- most frequently used journals
- hottest journals
- largest journals

Please refer to the Using the JCR to Find... section in the Table of Contents on the left for a list of tasks you can perform using JCR Web.

Please refer to the JCR Web Pages section of the Table of Contents on the left for a list and a flowchart of the web pages at this site.

Note: JCR Web is best viewed at a display resolution of 800 x 600 or higher.

Documentation version 1.0

Paper writing

- Write a rough outline first, fill it in
- A rough draft is ready
- Select the journal and read Instructions to Authors (manuscript requirements: style in headings, the system for citations, figures and tables, etc.)
- Write the final manuscript
- Write or refine your abstract
- Carefully choose keywords (increases success with e-databases and search engines)

The final draft

Front Matter

- Title (fewest possible words that describe the contents)
- Author's (co-authors) name and address
- Abstract (miniversion of the paper, no citations)
- Keywords

Article Body (IMRaD)

- Introduction
- Methods
- Results
- Discussion/Conclusion

End Matter

- Acknowledgment (technical help and financial assistance)
- References (EndNote has style guides)
- Appendices

Abstracts

- Descriptive abstract
 - or topical abstract, describes the contents but contains too little substance and detail
- Informative abstract
 - self-explanatory report on a scientific investigation (research objectives for conducting the investigation, the basic method used, and the results and significant conclusions) - 200 to 250 words
- Extended abstract (conference proceedings)
- Don't ignore those keywords!

Ethics of scientific writing

- Avoid dual publication
- Don't use the work of others without appropriate attribution
- List only those coauthors who contributed substantially to the work



Final submission

- In-house reviews required?
- Submit the paper to the journal's editor (only to one journal)
 - Hard-copy of manuscript (usually three or more copies)
 - Disk of the same version
 - Text: Word, Word Perfect, TeX/LaTeX, etc.
 - Figures: tif, gif, postscript, etc
 - E-Journal submission



Checklist for referees









© 2013, Aries Systems Corporation. Some Rights Reserved. http://creativecommons.org/licenses/by-nc-nd/3.0/deed.en_US

Studies in Earth Science CONFIDENTIAL REVIEWER'S REPORT

 Is the subject of the paper consistent with the scope of the journal? 	YES	NO	
As far as you know, has this material been published before in English?	YES	NO	
Does the scientific content justify the space it will occupy?	YES	NO	
4. Can any parts of the paper be shortened or omitted without loss of scientific content?	YES	NO	
Are any errors of fact or logic contained?	YES	NO	
6. Are all figures necessary?	YES	NO	
7. If the paper contains graphs and tables based on the same data, is it necessary to include both?	YES	NO	
Does the abstract (normally 50-150 words) bring out the main points of the paper?	YES	NO	
9. Is the title suitable and adequate?	YES	NO	
10. Are the literature references adequate?	YES	NO	
11. What is your overall recommendation?	YES	NO	
PUBLISH AS SUBMITTED DO NOT PUBLISH	н		
PUBLISH WITH MAJOR REVISION PUBLISH WITH U	PUBLISH WITH MINOR REVISION		
COMMENTS: Please use a separate sheet to expand on the above a changes that you feel would improve the manuscript, in particluar length.	and to su with reg	ggest ard to its	
Signature: Date:	-		

Proof-reading

 Proof-reading and return to the editor

- Copyright transfer
- Offprint order

Common Proofreader's Harks

Marginal

Correction	Symbol	Marked text	Corrected text
Delete	2	the #la cat	the cat
Restore deletion	on stet	the #1# cat	the old cat
Close up space	C	the old cat	the old cat
Insert	old	the cat	the old cat
Replace	old	the Mig cat	the old cat
Insert space	#	thecat	the cat
New paragraph	97	Once upon a	Once
		time	upon a time
Move to left	E	\mathcal{L} the dog	the dog
Move to right	コ	the dog $\mathcal J$	the dog
Center	ctr	∃the dog [the dog
Transpose	Tr	the on dog	on the dog
make lower cas	e /c	the øld dog	the old dog
Capitalize	Caps	jim burns	Jim Burns
Period	0	Go west	Go west.
Comma	1	Come/Jim.	Come, Jim.
Apostrophe	V	Jime dog	Jim's dog
Superscript	3	3 m/Z	3 m ²
Subscript	1	ң ио	H ₂ O
		52	

Davis, M. Scientific Papers and Presentations, p.88

Copyright Statement from Journal

- Be sure to read thoroughly
- For theses read UMI Microfilm statement
- Make sure you agree with points
- Will you be free to send or post to web the final pdf??

Project.....Why



Why This Topic?

- Research budgets are shrinking everywhere.
- Researchers are being forced to seek external funding
- But writing a good research grant proposal is not easy.
- To help you gain insight into the way decision-makers assess and evaluate research proposals.

Grants: Some Basics

- Grants are sums of money awarded to finance particular activities and not to be paid back.
- It is important to understand the goals of the funding bodies and their grant programs.
- Decisions are made on the applicant's ability to fit the proposed research activities to the interests of the funding body.

Current Funding Opportunities

Funding available for India collaborative research projects:

- ICSSR
- DBT
- DST-SERB
- CSIR
- UGC
- ICMR
- ICPR (Indian Council of Philosophical Research)
- MHRD
- MOEF&CC
- VGST

.....many more

Seek answers to the following questions:

- What are the current trends?
- What are the current limitations and restrictions?
- What subject areas were awarded funding recently?
- What are the future plans of the funder?
- Who are the decision-makers/assessors?
- What review processes do they follow?
- What are the deadlines for submission?
- How long will the process take?
- What is the proper way to approach them?
- How many people apply each year and what percentage get grants?
- Most answers can be found on the funding body's website, research guide, annual report & future plans.

Some points to remember

- Funding bodies look for good researchers.
- Think of them as potential investors in you and your ideas.
- You must 'sell' your idea: Be enthusiastic about the work!
- Why should they give a grant? See it from the funder's point of view.
- Remember that you are NOT begging.
- You have ideas, they have money.
 - You and the funders are both professionals coming together for a specific purpose.
 - Get to know relevant people in the funding body.
 - Get help of finance office on matters relating to staff costs, travel, overheads etc.
 - Seek professional advice on confidentiality, possible restrictions on publications, liabilities and disputes etc.

Approaching the Proposal

Always remember:

- Your case will be read by one or two experts in your field but others in the judgement panel won't be experts. You must write for their benefit too.
- Ask lots of people to help you improve your proposal.
- Make sure the first page acts as a stand-alone summary of the entire proposal.

Major Criteria: Questions to be Answered

- What the objectives of the project?
- What will be the outcomes?
- Does the proposal address a wellformulated problem?
- Is it a research problem or just a routine application of a known technique?
- Is it an important problem, whose solution will have useful effects?
- Is special funding necessary to solve the problem or to solve it quickly enough?

- Do the proposers have a good idea on which to base their work?
- Does the proposal explain clearly what work will be done?
- Is there evidence that the proposers know about relevant work that others have done?
- Do the proposers have a good track record, both of doing good research and of publishing it?
- What are the implications for policy and practice? How will these be taken up?

Secondary Criteria

- An applicant with existing funding may be favoured due to evidence of a good track record.
- Also priority is given to new researchers in the field.
- Funders generally prefer to offer a reasonable balance of support for different research areas.
- Evidence of industrial interest in the proposal and its potential for future exploitation will count in favour.

Common Shortcomings

- It is not clear which research questions are being addressed by the proposal.
- The questions being addressed are illformed.
- It is not clear why the questions are worth addressing.
- The proposal is just a routine application of a known technique.
- Industry ought to be doing it instead.

- There is no evidence that the proposers will succeed where others have failed.
- A new idea is claimed but insufficient technical details are given.
 - The proposers seem unaware of related research.
 - The proposed research has already been done.

- The proposal is badly presented or incomprehensible.
- The proposers seem to be attempting too much for the funding requested and/or the time-scale envisaged.
- The proposal is too expensive for the probable gain.
- The proposers institution should be funding it.

Writing Grant Application - Formal Structure

Essential Contents:

- Statement of the problem.
- Summary of current developments in the field.
- Statement of what is new about the project.
- Indication of the extent to which the research builds on previous work by you and by others?
- In certain cases, assurance that you are aware of existing work in the field despite no exhaustive literature review being available.

Methods: Questions to be answered

- What methods will be applied to achieve the aims? The methodology must be described in detail and clearly related to the research questions.
- Are the chosen methods sufficiently rigorous to produce clear answers?
- What is the timetable? This must be realistic.

Ethical Aspects

 Make sure your proposal addresses relevant ethical considerations.

Evaluation

- How will you measure the success of your project?
- Distinguish between monitoring & evaluation.
 <u>Monitoring</u> is part of the project management while <u>evaluation</u> is formal assessment of the outcome of a project.

Dissemination: Questions to be answered

- What audience should be targeted to achieve the maximum impact?
- How might this audience best be reached?
- What is the budget for dissemination?

Personnel

- Explain the staffing requirements in detail and ensure that this make sense.
- It is essential to provide brief details of the relevant qualifications and experience of the staff.
- To minimise expenses, the plan should include the phasing out of staff whenever their tasks are completed.

Budget

- The application should include an itemised budget setting out the costs year by year.
- A cost justification for each item should be given.
- The budget should be exhaustive.
- If additional funding from other sources is sought then this should be made clear.

Timing

- The individual tasks should be sequenced logically and allocated realistic durations.
- Detailed reasoning should be given for the task sequence and durations.

Revising Your Proposal

- Seek regular feedback from readers as soon as possible during the development of the proposal, allowing time to receive responses.
- Bear in mind that strong grant proposals take a long time to develop, so plan well ahead to ensure meeting the deadline.

Some Advice

- Do not feel ashamed or embarrassed about asking for money or promoting yourself.
- If you never ask for the money, it will never be offered.
- If at first you don't succeed, try and try again.
- Learn from feedback regarding a rejected proposal.
- Be positive!

Success in getting Project

- Inter- departmental collaboration
- Inter- disciplinary collaboration
- Inter- Institute collaboration
- Inter- University collaboration
- Industrial –University collaboration
- Institutional Funding
- International collaboration

Bibliography

- Davis, M. Scientific Papers and Presentations, Academic Press, 1997
- Day, R. A. How to Write and Publish a Scientific Paper, 4th Ed.,
 Cambridge University Press, 1995
- Michaelson, H. B. How to Write and Publish Engineering Papers and Reports, 3rd Ed., Oryx Press, 1990
- O'Connor, M. Writing Successfully in Science, Academic Press, 1991
- Paradis, J. G. and Zimmerman, M. L. The MIT Guide to Science and Engineering Communication, MIT Press, 1997

... and more books

- Briscoe, M.H. A Researcher's Guide to Scientific and Medical Illustrations, Springer-Verlag, NY, 1990
- Hodges, E. R. S. The Guild Handbook of Scientific Illustration, Van Nostrand-Reinhold, NY, 1989
- Reynolds, L. and Simmonds, D. Presentation of Data in Science, Nijhoff, Hague, 1983
- Smith, R. V. Graduate Research: A Guide for Students in the Science, ISI Press, Philadelphia, 1984
- Stock, M. A Practical Guide to Graduate Research, McGraw-Hill, NY, 1985

Research Metrics

- Research grants Distance Education Council, DST, CSIR, RGUHS, KSOU (ongoing)
- Scientific Publications over 40 articles
- General Articles: 20
- PhD supervision- 5 (on going)
- Dissertation supervision- >100
- H index: 06
- Citation: 95
- Awards: 20



Sl. No	Recognition/Organisation	ID Number/Link
1	Orcid	0000-0003-0538-3920
2	Scopus	6506491804
3	Vidwan:	https://vidwan.inflibnet.ac.in /profile/251798
4	Google Scholar	6saZhsgAAAAJ
5	Web of Science	<u>ABG-5418-2021</u>
6	https://in.linkedin.com/in/	dr-t-s-harsha-rao-89284650

Good luck with your research proposals! Thank you.





St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"



Prof. Dr. G.S. Premakumara, Professor of Economics, PG Centre, Mandya



09 January 2025



Day 4 "Research Methodology and Design"



CV of Dr. Premakumara, G.S. Professor of Economics, Dept of Economics Sir M.V. PG Centre, University of Mysore, Mandya

Working since 1999.....

Awards and Works:

- 1. UGC Research Award 2012-14, New Delhi
- 2. IUC Associate, IIAS Shimla 2014-16
- 3. Best Paper Award in International Conference at Jaipur 2013
- 4. Highly Commanded Paper Award in International Conference at Chiang Mai, Thailand 2014
- 5. Best Researcher in Applied Econometrics by University of Mysore 2017
- 6. Association with Indian Institute of Science (IISc) Bangalore
- 7. Association with Indian Association for Canadian Studies
- 8. Association with Chiang Mai University, Chiang Mai, Thailand
- 9. GOK honor for best of works 2012
- 10. Member, Planning Commission of India Chair, UOM
- 11. Principal Investigator, ICSSR, Major Project
- 12. Worked for WRI (Washington DC) on 'Clean Energy Project'

Ph.D:

- Awarded Ph.D for working on 'Power Sector Reforms'
- Successfully guided for 13 scholars for their Ph.D award
- Successfully guided for 18 scholars for their M.Phil award

Books:

- Power Sector Restructuring and Reforms in Karnataka (Germany)
- Gender Mainstreaming (USA)
- Dictionary of Economics and Commerce (Mysore)
- Commercial Banks (Mysore)

Research Articles and Conferences:

• In Journals: 78+3

• In Edited Books: 19+2

• International Conferences: 38

• National Seminars and Conferences: 100+

Special Lectures:

• 100+ talks were delivered on research, econometrics, current issues at various institutions in India and abroad

Capabilities:

- Expert in Data Analysis
- Expert in Model Building and Interpretation of Results
- Expert in Handling Software; SPSS, E-Views, Gretl and others

PARAMETRIC AND NON-PARAMETRIC TECHNIQUES FOR RESEARCH ANALYSIS

PRESENTATION
ON
30TH DEC 2024

AT HRDC Mysore

DR. PREMAKUMARA G.S

Professor of Economics

Sir M.V. PG Centre University of Mysore, Mandya

UGC Research Awardee, IUC - Associate, IIAS Shimla

Email: <u>gspremakumara@gmail.com</u>

Mob: + *9108919355*

BASIC IDEA OF RESEARCH

- Proving or Disproving an argument
- How to Prove?....Proof...!
- Two types of proofs in research
- 1. Previous research works
- 2. Data.....
- What data?....Sources of Data, Types of Data,
 Properties of Data or Scale of Data
- Sufficiency of Data: Adequacy

Data Analytics: Data - Knowledge - Decision Making



LEVELS OF DATA MEASUREMENT

- Nominal Lowest level of measurement
- Ordinal
- Interval
- Ratio Highest level of measurement

NOMINAL LEVEL DATA

- Numbers are used to classify or categorize
 Example: Employment Classification
 - 1 for Educator
 - 2 for Construction Worker
 - 3 for Manufacturing Worker

Example: Ethnicity

- o 1 for African-American
- 2 for Anglo-American
- 3 for Hispanic-American
- 4 for Oriental-American

ORDINAL LEVEL DATA

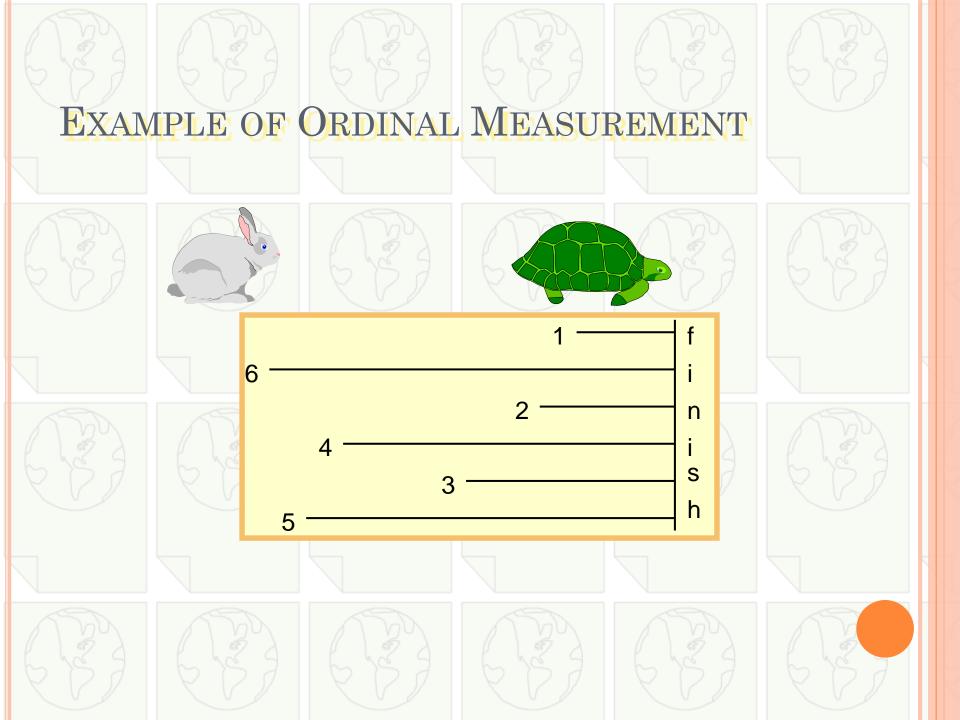
- Numbers are used to indicate rank or order
 - Relative magnitude of numbers is meaningful
 - Differences/between numbers are not comparable

Example: Ranking productivity of employees

Example: Taste test ranking of three brands of soft drink

Example: Position within an organization

- o 1 for President
- 2 for Vice President
- 3 for Plant Manager
- 4 for Department Supervisor
- 5 for Employee



ORDINAL DATA

Faculty and staff should receive preferential treatment for parking space.

Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	2	3	4	5

INTERVAL LEVEL DATA

- Distances between consecutive integers are equal
 - Relative magnitude of numbers is meaningful
 - Differences between numbers are comparable
 - Location of origin, zero, is arbitrary

Example: Fahrenheit Temperature

Example: Calendar Time

RATIO LEVEL DATA

- Highest level of measurement
 - Relative magnitude of numbers is meaningful
 - Differences between numbers are comparable
 - Location of origin, zero, is absolute (natural)

Examples: Height, Weight, and Volume

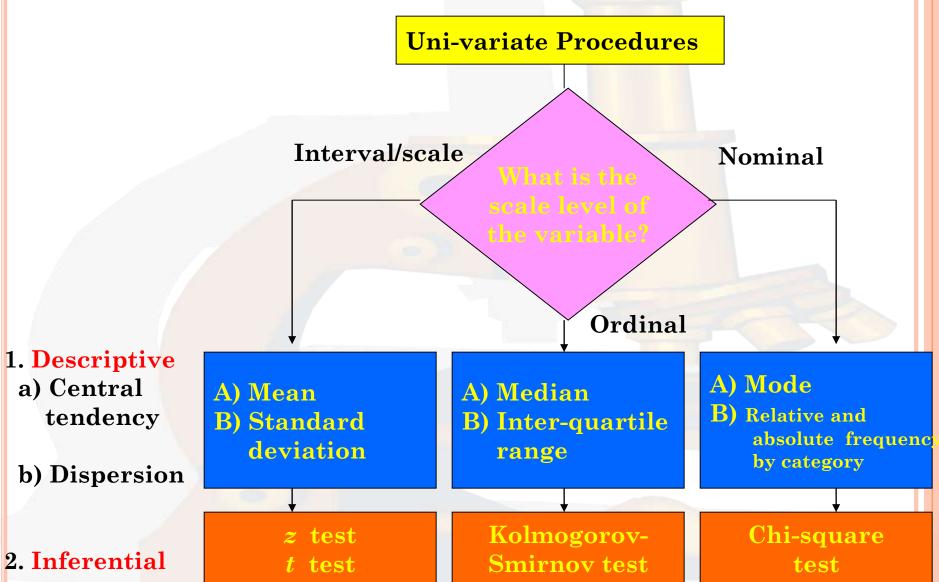
Example: Monetary Variables, such as Profit and Loss, Revenues, and Expenses

Example: Financial ratios, such as P/E Ratio, Inventory Turnover, and Quick Ratio.

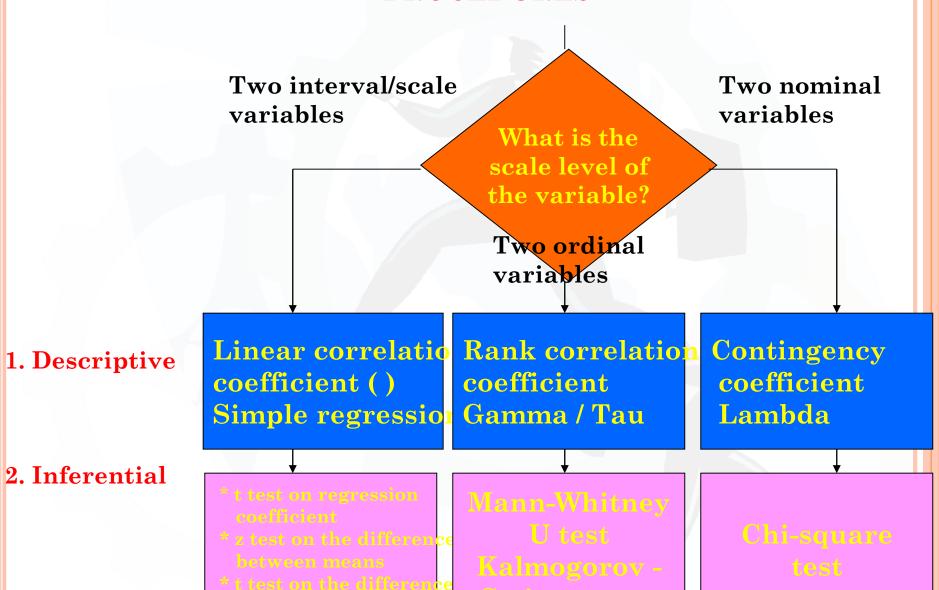
IS DATA SUFFICIENT FOR GIVING PROOFS

- Two types of empirical analyses
- 1. Descriptive Analysis
 - Presents status of phenomenon ---- what is what
 - Descriptive statistics...
 -Mean, Deviation, Correlation, Index......
- o 2. Analytical Analysis
 - Gives tested proof for arguments.....
 - Inferential statistics.....
 - Mean difference, Relations, Impacts, Processes, Associations and distributions
 - It also includes econometric analysis
 - Each has many tests and these are basis for formulation of hypotheses

OVERVIEW OF UNIVARIATE DATA ANALYSIS PROCEDURES



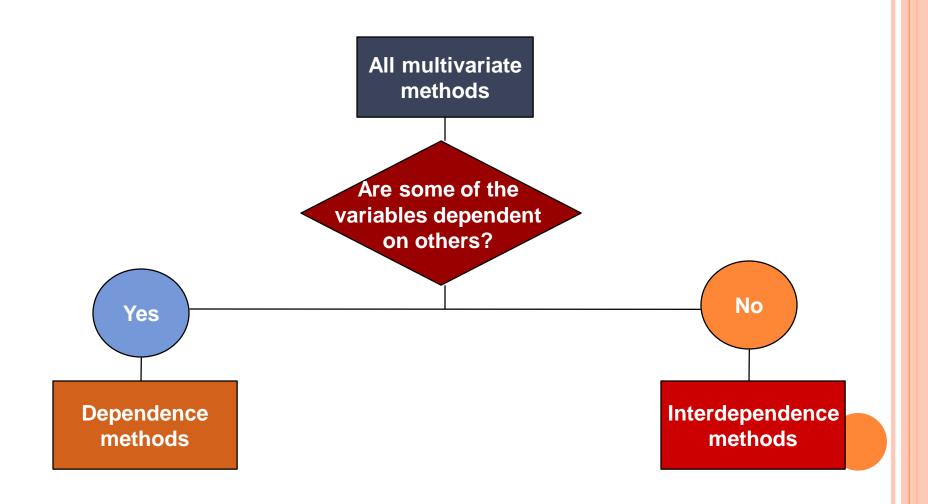
BIVARIATE DATA ANALYSIS PROCEDURES



Multivariate Analysis Methods

- Two general types of MVA technique
 - Analysis of dependence
 - Where one (or more) variables are dependent variables, to be explained or predicted by others
 - dependent (criterion) variables and independent (predictor) variables are present
 - E.g. Multiple regression, MANOVA, Conanical Correlation
 - Analysis of interdependence
 - No variables thought of as "dependent"
 - Look at the relationships among variables, objects or cases
 - variables are interrelated without designating some dependent and others independent
 - E.g. cluster analysis, factor analysis

A CLASSIFICATION OF SELECTED MULTIVARIATE METHODS



What is hypothesis?

•A tentative statement made based on the sample against the population

Why against the population?

Rationale

Population

Sample

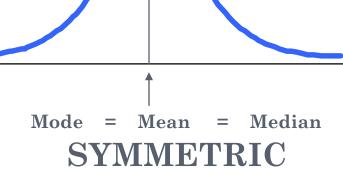
Examples: Rise, Sambar, Tube light

TYPE I AND TYPE II ERROR

- Type I: Reject the null hypothesis when it is true.....ok
- Type II: Accept the null hypothesis when it is falseserious problem
- We always test the null hypothesis
- Theoretical foundation......100 times 5 mistakes
- Probability and Level of Significanceusually 5 percent
- Three Important things:
 - Data, Distributions and testing procedure

THEORETICAL DISTRIBUTIONS

Normal Distribution



- o Z or t DistributionsParametric, Mean
- F Distribution......Parametric, Variance
- Chi-Square Distribution.....Non-parametric

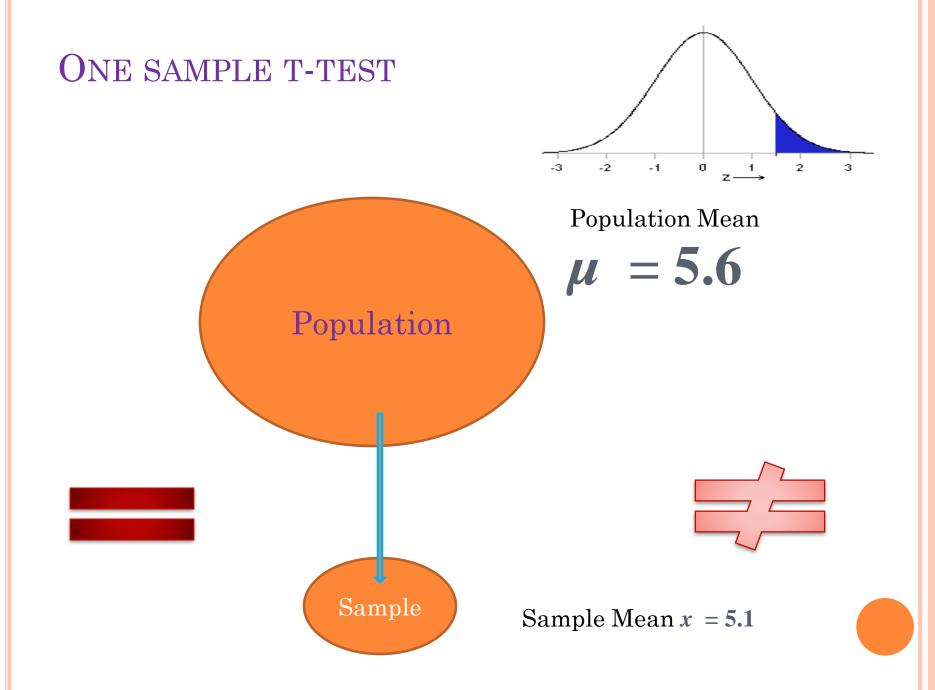
STEPS IN HYPOTHESIS TESTING

- 1. Formulation of Hypothesis
- o 2. Data.....Distribution
- o 3. Test Criteria.....level of significance, tail, df
- 4. Computing test statistic
- 5. Comparison and interpretation
- 6. Drawing Inferences and Policy Suggestions
- 7. Decision Making

- Comparing sample with Population
 - Examples:profit, income, expenditure, etc
 - * One sample t-test

ONE SAMPLE T-TEST

- Hypothesis testing is designed to detect significant differences: differences that did not occur by random chance.
- In the "one sample" case: we compare a random sample to a population.
- o compare a sample statistic to a population parameter to see if there is a *significant* difference or not.



PROBLEM:

- Whether, the rate of profit of food processing companies is on par with national average
- Hypothesis:
- H0: there is no significant difference between average profit of food processing companies and national average
- H1: there is significant difference between average profit of food processing companies and national average

Test criteria: 5 percent level of significance, and two tail test

Data......Numericsee excel sheet.

DATA

Profit
12.39954
10.44463
13.48851
15.55295
15.3967
16.46627
8.632825
12.53164
15.19005
10.8266
11.61959
9.619135
9.306178
11.04474
11.45299
8.764138
11.86415
12.1919
13.26971
12.26901

RESULTS

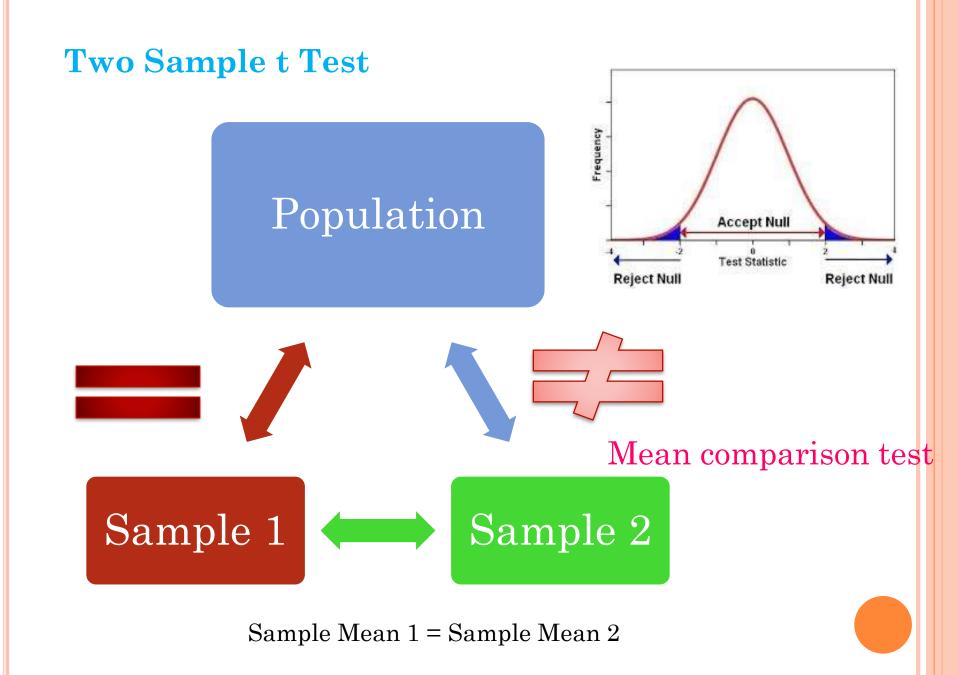
One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Income of Food companies	20	12.116562	2.2745421	.5086031

One-Sample Test

		Test Value = 17					
			95% Confidenc Differ				
	t	df	Sig. (2-tailed)	Mean Difference	Lower	Upper	
Income of Food companies	-9.602	19	.000	-4.8834376	-5.947956	-3.818919	

- Comparing one sample with another sample
 - Examples:profit, income, expenditure of two types of companies, like, food processing companies v/s polymer producing companies
 - * Two sample independent t-test



X1 = X2

TWO SAMPLE T-TEST

Data Entry in SPSS

A STATE OF THE PARTY OF THE PAR			
Income		Group	
133	3025		1
132	2147		1
128	303	7	1
127	439		1
****		7,	1
****			1
90	304		2
89	9 427		2
88	3517	T _A	2
90)855	À	2
***			2

Income of Food		Income of Polymer	
companies		companies	
	133025		90304
	132147		89427
	128303		88517
	127439		90855
	129338		90135
	132706		89333
	132444		89695
	130920		90293
	127092		90472
	129215		90782
	129571		89279
	128420		88931
	128839		90071
	131453		91007
	130131		90250
	128935		89701
	128560		91461
	133337		91656
	131988		89632
	130839		91076

Results

Group Statistics

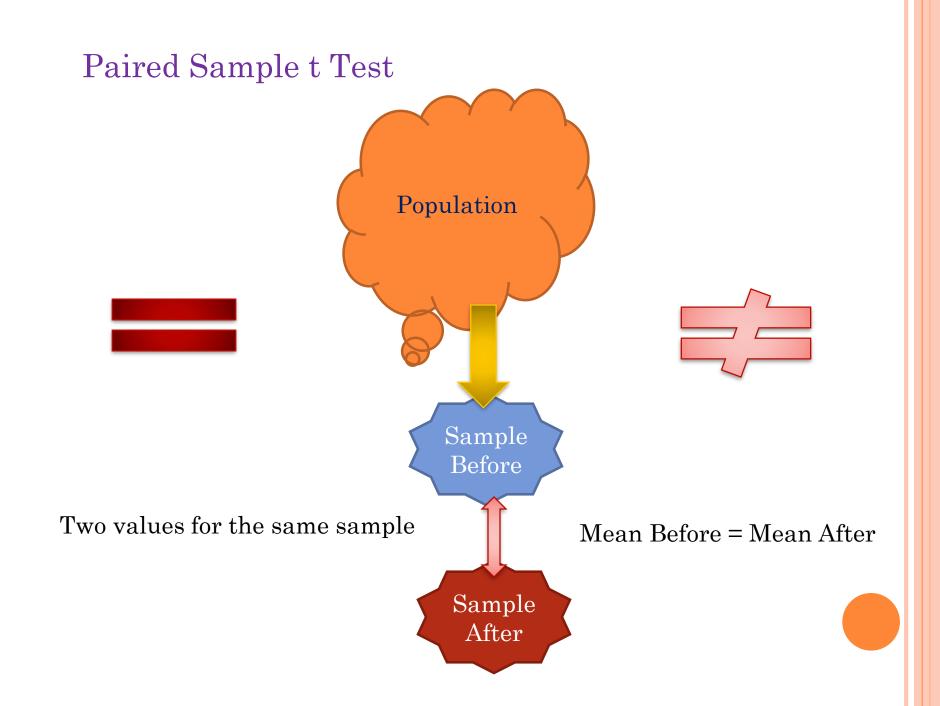
	aroup	N	Mean	Std. Deviation	Std. Error Mean
income	Polymer	20	130235.087555	1931.7260602	431.9470785
	Food	20	90143.843181	840.3469791	187.9072970

Independent Samples Test

		Levene's Test for Equality of Variances				t-test for Equality	of Means	
		F	Siq.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference
income	Equal variances assumed	19.867	.000	85.111	38	.000	4.0091244E4	471.0492871
	Equal variances not assumed			85.111	25.943	.000	4.0091244E4	471.0492871

 Comparison of two groups of observations of the same sample and Population

- Examples:level of BP before and after food
 - * Paired sample t-test



before	after	
14	17	
14	18	
18	15	
10	19	
15	15	
17	17	
12	15	
18	20	
11	17	
11	19	
12	19	
13	16	
5	15	
11	25	
16	19	
20	19	
15	14	
19	16	
13	19	
10	15	

PAIRED T TEST

Paired Samples Statistics

		Mean	Z	Std. Deviation	Std. Error Mean
Pair 1	before	13.654553	20	3.6101377	.8072513
	after	17.440781	20	2.5177855	.5629940

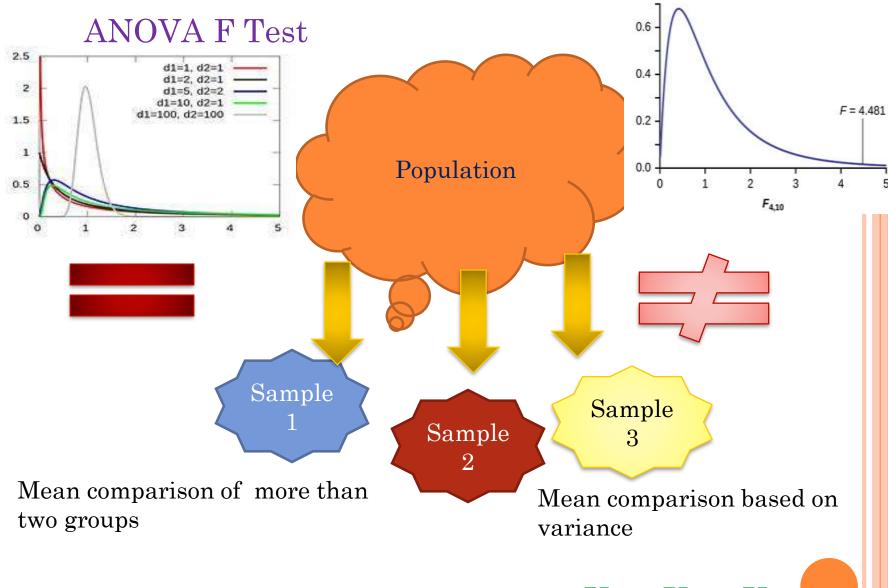
Paired Samples Test

		Paired Differences							
					95% Confidenc Differ				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	Sig. (2-tailed)
Pair 1	before - after	-3.786E0	4.4347123	.9916318	-5.8617372	-1.7107187	-3.818	19	.001

 Comparison of more than two groups of samples

- Examples:profit, income, expenditure of Three types of companies, like, food processing companies, polymer producing companies, and drug companies

* ANOVA and post-hoc t-test



$$X1 = X2 = X3$$

ANOVA

Income of	Income of	Income of
133025	90304	19171
132147	89427	21608
128303	88517	12469
127439	90855	20974
129338	90135	18172
132706	89333	21233
132444	89695	20422
130920	90293	17087
127092	90472	20484
129215	90782	15209
129571	89279	20416
128420	88931	17072
128839	90071	21221
131453	91007	18550
130131	90250	19087
128935	89701	19040
128560	91461	14073
133337	91656	22729
131988	89632	17096
130839	91076	24412

Income	Factor
133025	1
132147	1
128303	1
127439	1
****	1
***	1
90304	2
89427	2
88517	2
90855	2
***	2
19171	3
21608	3
***	3

COMPARISON OF MORE THAN TWO GROUPS

ANOVA								
Income								
Groups	Sum of Squares	df	Mean Square	F	Sig.			
Between Groups	12688286449 7.633	2	63441432248	14606.194	0.000			
Within Groups	247577272.1	57	4343460.914					
Total	12713044176 9.733	59						

MULTIPLE COMPARISION

Income								
Duncan ^a								
Group	N	Subset for alpha = 0.05						
		1	2	3				
Rural	20	19026.2500						
Semi Urban	20		90143.8500					
Urban	20			130235.1000				
Sig.		1.000	1.000	1.000				

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 20.000.



• Establishing association or dependencynominal data

Examples:
......Whether, rate of profit depends on size of the company
......Whether, expenditure depends on type of city
......Whether, SSLC results depends on gender
Distribution of Opinion.....nominal data

- * Chi-Square Analysis for Association
- * Chi-Square Analysis for Equal Distribution

CHI-SQUARE ANALYSIS

	Gender		T-4-1	
Satisfaction	Male	Female	Total	
	Count	2	9	11
No	% within gender	10.0%	45.0%	27.5%
	Count	18	11	29
Yes	% within gender	90.0%	55.0%	72.5%
	Count	20	20	40
Total	% within gender	100.0%	100.0%	100.0%

Goodness of Fit Chi-Square Value: 8.100, df: 01, Sig: 0.004

Association Chi-Square Value: 6.144, df: 01, Sig: 0.013

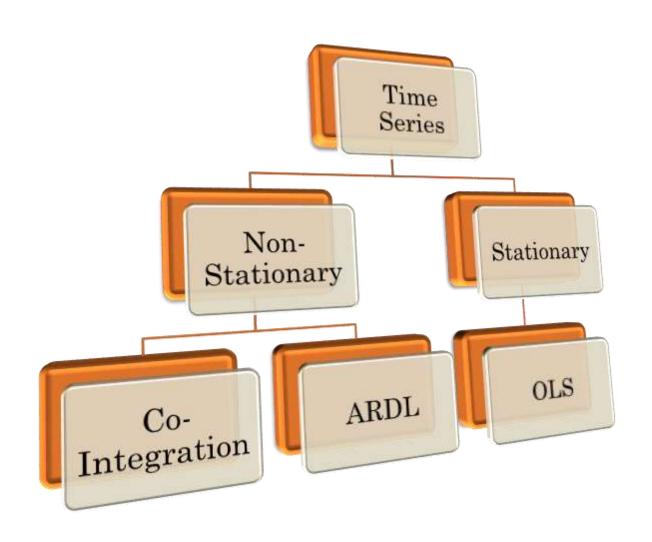
- Establishing Relationship.....numeric data
- Examples:
 price and demand
 Supply and price
 Income and consumption expenditure

Correlation co-efficient test

- Impact Analysis......Numeric and Nominal data
- Impact of Investment on development
- Impact of rain fall on food grains production etc
- Impact of region on education

Econometric Analysis

TIME SERIES ECONOMETRIC ANALYSIS



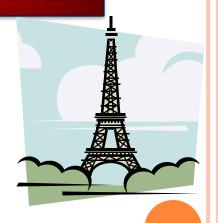
ADVANCED CLASSIFICATION ANALYSIS

- Data Reduction Techniques:
- Factor Analysis: Principal Component Analysis
- Creating Components
 - Multiple Regression Analysis



Thank You





SAMPLING TECHNIQUES

Premakumara G.S
Sr. Assistant Professor of Economics
University of Mysore, Mysore
UGC Research Awardee, IUC – Associate, IIAS Shimla
Email: gspremakumara@gmail.com

Primary Data

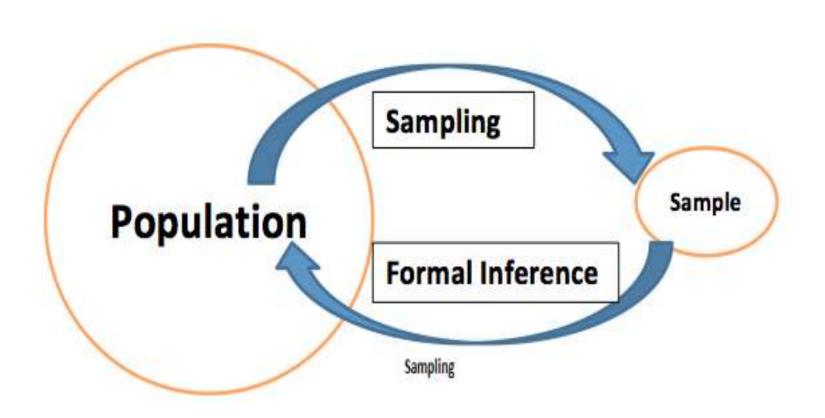
- Important things
 - Selection of Study area: Justification
 - Sample Size: Variance/ sq of SE
 - Selection of Sample
 - Means of collection
 - Questionnaire, Schedule, Camera, observation, films, records,
 - Sampling Methods:
 - -Probability sampling; simple, stratified, systematic random
 - cluster, area sampling, multistage, proportional, double
 - -Non probability sampling: convenience, purposive, quota

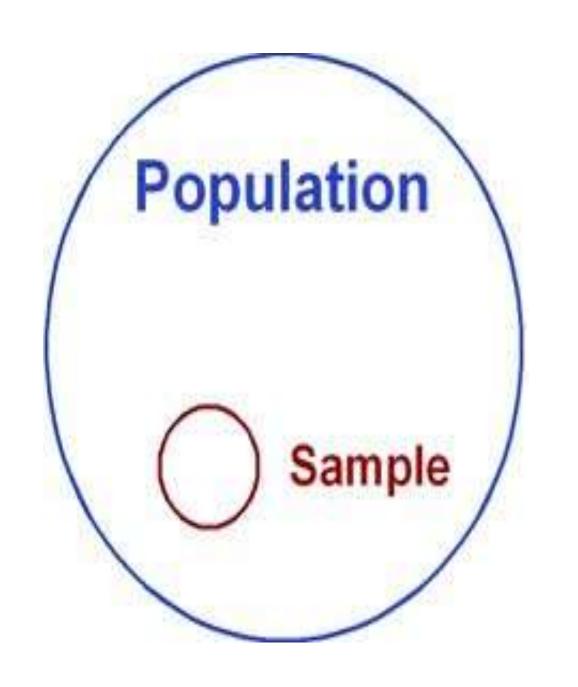
CENSUS SAMPLE

- A census study occurs if the entire population is very small or it is reasonable to include the entire population (for other reasons).
- It is called a census sample because data is gathered on every member of the population.

WHY SAMPLE?

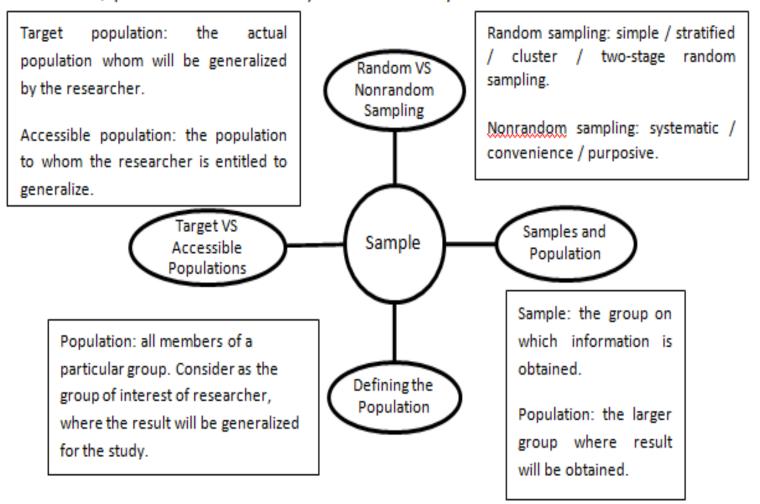
- The population of interest is usually too large to attempt to survey all of its members.
- A carefully chosen sample can be used to represent the population.
 - The sample reflects the characteristics of the population from which it is drawn.





Sampling

The term **sampling** is defined as the process of selecting the individuals who will participate (via observation, questionnaire or interview) in a research study.





Probability versus Nonprobability

- **Probability Samples:** each member of the population has a known non-zero probability of being selected
 - Methods include random sampling, systematic sampling, and stratified sampling.
- Nonprobability Samples: members are selected from the population in some nonrandom manner
 - Methods include convenience sampling, judgment sampling, quota sampling, and snowball sampling

RANDOM SAMPLING

Random sampling is the purest form of probability sampling.

• Each member of the population has an equal and known chance of being selected.

• When there are very large populations, it is often 'difficult' to identify every member of the population, so the pool of available subjects becomes biased.

Systematic Sampling

- Systematic sampling is often used instead of random sampling. It is also called an Nth name selection technique.
- After the required sample size has been calculated, every Nth record is selected from a list of population members.
- As long as the list does not contain any hidden order, this sampling method is as good as the random sampling method.
- Its only advantage over the random sampling technique is simplicity (and possibly cost effectiveness).

STRATIFIED SAMPLING

- Stratified sampling is commonly used probability method that is superior to random sampling because it reduces sampling error.
- A stratum is a subset of the population that share at least one common characteristic; such as males and females.
 - Identify relevant stratums and their actual representation in the population.
 - Random sampling is then used to select a *sufficient* number of subjects from each stratum.
 - Stratified sampling is often used when one or more of the stratums in the population have a low incidence relative to the other stratums.

CLUSTER SAMPLING

- Cluster Sample: a probability sample in which each sampling unit is a collection of elements.
- Effective under the following conditions:
 - A good sampling frame is not available or costly, while a frame listing clusters is easily obtained
 - The cost of obtaining observations increases as the distance separating the elements increases
- Examples of clusters:
 - City blocks political or geographical
 - Housing units college students
 - Hospitals illnesses
 - Automobile set of four tires

CONVENIENCE SAMPLING

- Convenience sampling is used in exploratory research where the researcher is interested in getting an inexpensive approximation.
- The sample is selected because they are convenient.
- It is a nonprobability method.
 - Often used during preliminary research efforts to get an estimate without incurring the cost or time required to select a random sample

JUDGMENT SAMPLING

- Judgment sampling is a common nonprobability method.
- The sample is selected based upon judgment.
 - an extension of convenience sampling
- When using this method, the researcher must be confident that the chosen sample is truly representative of the entire population.

QUOTA SAMPLING

- **Quota sampling** is the nonprobability equivalent of stratified sampling.
 - First identify the stratums and their proportions as they are represented in the population
 - Then convenience or judgment sampling is used to select the required number of subjects from each stratum.

SNOWBALL SAMPLING

- Snowball sampling is a special nonprobability method used when the desired sample characteristic is rare.
- It may be extremely difficult or cost prohibitive to locate respondents in these situations.
- This technique relies on referrals from initial subjects to generate additional subjects.
- It lowers search costs; however, it introduces bias because the technique itself reduces the likelihood that the sample will represent a good cross section from the population.

Sampling Techniques and Sample Size Determination

Introduction:

Research is the scientific pursuit of finding truth. It is also understood from the literature that research is the proof giving process. The proof given for research argument should be based on valid and tested data. The test, generally called hypotheses testing procedure. A hypothesis testing has followed standard theoretical and probability distributions. The common tests like, t, F and chi-square are based on their respective distribution. Accordingly, the data being used for any test should be collected scientifically with high confidence and lesser margin of errors. Having said this, sampling techniques and sample size determination play important role in collection of data.

It is also important to note that, for a researcher complete enumeration of population is not possible due to lack or time and resources. Hence, researcher draws inferences about the population based on sample. To draw the inferences, the sample should sufficiently represent the population characters. It is because; the researcher explains the unknown population parameters with the known sample statistics. Therefore, sampling refers to selection of adequate, representative and non-repeated samples from population with appropriate scientific methods. Accordingly, in the present article, an attempt has been made to explain the scientific procedures of sampling and sample size determination.

Steps for Sampling:

The following steps are followed to select the samples.

- 1. Define Target Population
- 2. Select Sampling Frame
- 3. Select Sampling Technique
- 4. Determine Sample Size
- 5. Collection and Process Data
- 6. Presence of Data

Define Target Population:

As mentioned earlier, it is important that the sample selected be representative of the population from which it is taken so that inferences about the population are the best that they can be. The population should be defined in connection with the objectives of the study. A

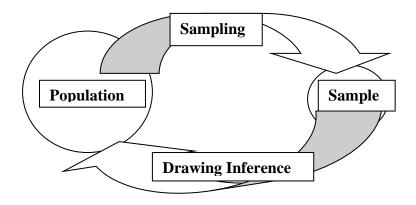
census study occurs if the entire population is very small, or it is reasonable to include the entire population. It is called a census sample because data is gathered on every member of the population. The population is a universal set and sample is a sub-set of universal set. The entire set of cases from which researcher sample is drawn in called the population. Since, researchers neither have time nor the resources to analysis the entire population so they apply sampling technique to reduce the number of cases. The first stage in the sampling process is to clearly define target population. Population is commonly related to the number of people living in a particular country. Based on the objectives of the study the targeted population will be determined. The targeted population is smaller than the general population, for example: If a study is concerned about farmers, all farmers are the representatives of the population. However, the targeted population is concerned about the type of farmers and the location of farmers. To be specific, the paddy growing farmers in the state of Karnataka in India is the targeted population. In this case, the targeted population has reduced from globe to India, India to Karnataka and only paddy growing farmers. Therefore, specification of target population is important in understanding the contour of present study.

Select Sampling Frame:

A sampling frame is a list of the actual cases from which sample will be drawn. The sampling frame must be representative of the population. However, in most of the cases or times, listing of actual cases in the targeted population may be difficult. In this situation, knowing the characteristics of targeted population and the population size (sub-sets of population like, male and female) is sufficient.

Select Sampling Technique:

Selection of each unit of sample from the targeted population is called sampling. And how each sample will be selected is explained by the sampling technique. The following figure shows the relationship between population and sample and process of sampling.



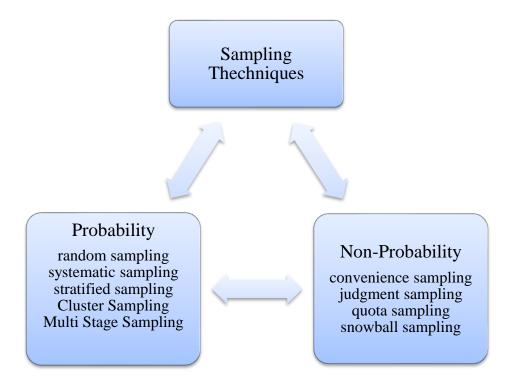
The above figure clearly explains that samples are taken from population or targeted population or sample frame and it is known as sampling. The inferences have been drawn based on samples and these inferences are generalization of population characteristics.

Broadly, sampling techniques have been divided into two groups, namely;

- Probability Sampling Techniques
- Non-probability Sampling Techniques

Generally speaking, the probability sampling techniques are used for hypotheses testing. The data collected by using non-probability techniques cannot be used for hypotheses testing. It is because; all the tests are being used standard probability distribution.

The group of techniques included under probability and non-probability are shown in the following chart



Probability Sampling:

Under the probability sampling each member of the population has a known non-zero probability of being selected. Each member of the population has equal chance to become sample. The probability sampling completely represents population.

Random sampling:

Random sampling is the purest form of probability sampling. Each member of the population has an equal and known chance of being selected. When there are very large populations, it is often 'difficult' to identify every member of the population, so the pool of available subjects becomes biased. In some studies, such as surveys by personal interviews, the costs of obtaining the sample can be high if the units are geographically widely scattered. The standard errors of estimators can be high. However, as there are no restrictions in the selection of samples, it is the largely used sampling technique. Most importantly, this method is easy to do and fair representative of population.

In the simple random sampling, the probability of being a sample depends on the size of the population and size of the sample. If the population is 10,000 and the sample size is 384, then the probability of each member in the population being sample is 384/10000 = 0.038.

In the random sampling without replacement each member of the population has a varying probability of being selected as a sample.

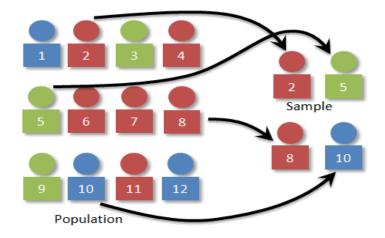
The probability of selection of the first sample = 1/N = 1/10000 = 0.0001

The probability of selection of the second sample = 1/(N-1) = 1/9999 = 0.00010001

The probability of selection of the 384^{th} sample = 1/(N-1) = 1/9999 = 0.00010398

It has been cleared from the above probability calculation that the probability of selection of samples in the large population will not much change. However, in the small population it makes the difference.

The following chart shows the selection of samples from the population.



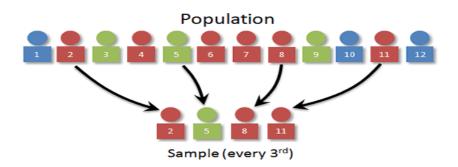
Systematic Random Sampling Method:

Systematic random sampling is a modified version of simple random sampling method. A specific system or mechanism will be introduced in this method to select the sample. Systematic sampling is often used instead of random sampling. It is also called an Nth name selection technique. After the required sample size has been calculated, every Nth record is selected from a list of population members. As long as the list does not contain any hidden order, this sampling method is as good as the random sampling method. Its only advantage over the random sampling technique is simplicity and possibly cost effectiveness.

Two methods are used in the selection of samples:

- 1. From a population of 100 members, 12 samples are to be selected. A starting number is picked first; for example 5. Then an interval is picked; for example 8, so every eighth member in the population is selected to produce 5, 13, 21, 29, 37, 45, 53, 61, 69, 77, 85, and 97.
- 2. The sample size is identified as 30. The total number of the population is divided by the sample size to obtain the sampling fraction. This is used as the constant difference between the data items.

The following chart shows the selection of samples from the population.



Stratified Sampling Technique:

Stratified sampling is commonly used probability method that is superior to random sampling because it reduces sampling error. A stratum is a subset of the population that share

at least one common characteristic; such as males and females. Under the stratified sampling, the population will be reconstructed or divided into meaningful stratums (parts) and then simple random sampling will be used for selection of samples.

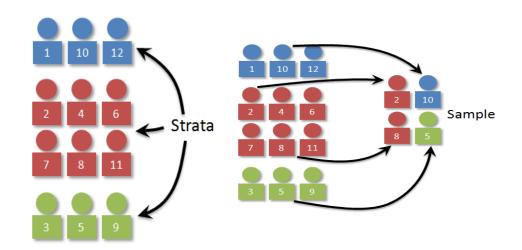
In the stratified random sampling most important things are; Identify relevant stratums and their actual representation in the population. Random sampling is then used to select a *sufficient* number of subjects from each stratum. Stratified sampling is often used when one or more of the stratums in the population have a low incidence relative to the other stratums.

Procedure of selection of samples from the population:

A stratified sample is obtained by taking samples from each stratum or sub-group of a population.

- Each stratum is represented proportionally according to its incidence in the population.
- Each stratum must be *non-overlapping* as overlapping subgroups will mean some members of the population will have higher chances of being selected.
- Most common strata are age, gender, socio-economic status, religion, nationality, educational attainment.
- Simple Random Sampling is done within the strata.

The following chart shows the selection of samples from the strata of population.



Cluster Sampling Technique:

Cluster sampling is used when the population has "natural" but relatively homogeneous (similar) groups. It is often used in market research surveys. The total population is divided into these groups (or clusters). Once the clusters have been identified the simple random sampling can be used for selection of samples.

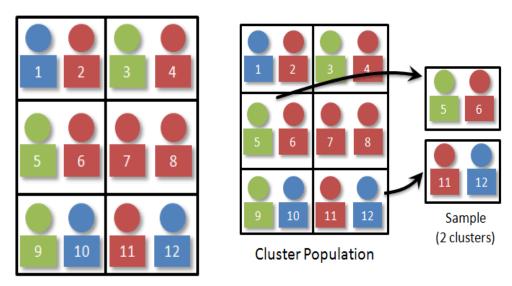
The cluster sampling is very effective under the following conditions:

- A good sampling frame is not available or costly, while a frame listing clusters is easily obtained.
- The cost of obtaining observations increases as the distance separating the elements increases

Some examples of clusters are given below:

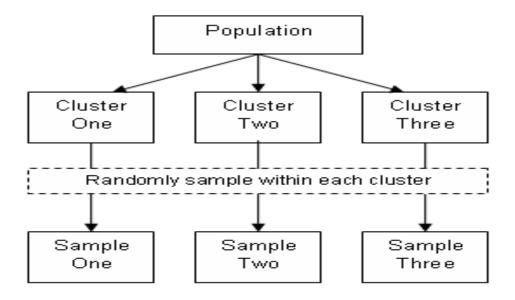
- City blocks political or geographical
- Housing units college students
- Hospitals illnesses
- Automobile set of four tires

The following chart shows the selection of samples from the strata of population.



Cluster Population

The following chart also shows the selection of samples using cluster method.



Multi-Stage Sampling:

The multi stage sampling has been used when the area of research is too large like covering the entire nation. In this case, size of the sample frame is very large and it consumes more time and resources. In such a situation multi stage sampling will reduce the cost and time of survey. The multi stage sampling helps to design the smaller sample frame. This sampling technique uses more than one stage for survey.

The multi stage sampling can be performed as illustrated below;

- When the researcher is intended to conduct the national level study, then identify the regions based on their convergence and divergence characteristics. For example: South, North, East, West and Centre.
- From each region, select one or two states as a representative of the region.
- From each state, select one or two districts as representative of state.
- From each district, select one or two taluks as representative of district
- The same procedure can be continued until the last stratum is identified.
- Select the desired samples from the last strata.

Non Probability Sampling:

The name the sampling itself clears that these sampling techniques are not based on any probability. Samples are being selected from the population in some nonrandom or non-probability manner. Each member of the population may or may not have chance being selected as sample. There will be a specific reason or intension to select a sample. Therefore,

these techniques are called non-probability sampling techniques. Non probability sampling is often associated with case study research design and qualitative research. To be specific, case studies tend to focus on small samples and are intended to examine a real life phenomenon, not to make statistical inferences in relation to the wider population.

Convenience sampling:

Convenience sampling is used in exploratory research where the researcher is interested in getting an inexpensive approximation. Typically, convenience sampling tends to be a favoured sampling technique among students as it is inexpensive and an easy option compared to other sampling techniques. Under this sampling, the sample is being selected because they are convenient. It is a non-probability method. Often, this technique is being used during preliminary research efforts to get an estimate without incurring the cost or time required to select a random sample.

Judgment Sampling:

Judgment sampling is also known as purposive sampling because; researcher will have specific reason or purpose to select a sample. Judgment sampling is a most commonly used non-probability method. The sample is selected based upon judgment. This method is an extension of convenience sampling. The condition for using this method is that the researcher must be confident that the chosen sample is truly representative of the entire population.

Quota Sampling:

Quota sampling is a non random sampling technique and it is equivalent of stratified sampling in which participants are chosen on the basis of predetermined characteristics so that the total sample will have the same distribution of characteristics as the wider population.

Steps for selection of samples;

- First identify the stratums and their proportions as they are represented in the population.
- Then convenience or judgment sampling is used to select the required number of subjects from each stratum.

Snowball Sampling:

Snowball sampling is a special non-probability method used when the desired sample characteristic is rare. It may be extremely difficult or cost prohibitive to locate respondents in these situations. This technique relies on referrals from initial subjects to generate additional subjects. It lowers search costs; however, it introduces bias because the technique itself reduces the likelihood that the sample will represent a good cross section from the population.

Sample Size Determination:

Sample size determination is an important step in primary data collection. The samples selected should be adequate and sufficient to draw the inferences about the population with high confidence and less margin of error. There are two types of sample sizes: relative and absolute sample size. The relative sample size is the sample proportionate to the population. The absolute sample size is based on accuracy and margin of error. Two step procedures have been adopted to determine the sample size.

Step 1: Sample size determination for large population;

The following formula has been used to determine sample size for large population.

$$S = {Z^2 * [p * (1-p)]}/E^2$$

S = Sample size for infinite population (minimum of large population is 10000)

Z = Z-score

Z – Score is determined based on confidence level in Z-Distribution. The Z value for different confidence level is readily available in standard research methodology or statistical text books. As an example: the Z value at 95% of confidence level is 1.96.

P = **Population** proportion

Population proportion is also known as expected population. The expectation refers to the population having certain characteristics. As P increases, the value of 1-P will decrease. Accordingly, the maximum P value may be considered is 50 percent. Most of the previous studies have used 50% which is equal to 0.50.

E = Margin of Error

Margin of error is the probability of committing mistakes or type I error.

Given the conditions the following table explains the selection of samples in a large population with different confidence level, expected population and margin of error.

Sample	Size	in	a	Large	Po	pulation
			••			POLICIOI

Confidence	Z-Score	\mathbb{Z}^2	P	1-P	p*1-p	Е	\mathbf{E}^2	Samples
90	1.645	2.706	0.1	0.9	0.09	0.1	0.01	24
90	1.645	2.706	0.2	0.8	0.16	0.1	0.01	43
90	1.645	2.706	0.3	0.7	0.21	0.1	0.01	57
90	1.645	2.706	0.4	0.6	0.24	0.1	0.01	65
90	1.645	2.706	0.5	0.5	0.25	0.1	0.01	68
Confidence	Z-Score	\mathbb{Z}^2	P	1-P	p*1-p	Е	E^2	Samples
95	1.96	3.842	0.1	0.9	0.09	0.05	0.0025	138
95	1.96	3.842	0.2	0.8	0.16	0.05	0.0025	246
95	1.96	3.842	0.3	0.7	0.21	0.05	0.0025	323
95	1.96	3.842	0.4	0.6	0.24	0.05	0.0025	369
95	1.96	3.842	0.5	0.5	0.25	0.05	0.0025	384
Confidence	Z-Score	\mathbf{Z}^2	P	1-P	p*1-p	Е	E^2	Samples
99	2.576	6.636	0.1	0.9	0.09	0.01	0.0001	5972
99	2.576	6.636	0.2	0.8	0.16	0.01	0.0001	10617
99	2.576	6.636	0.3	0.7	0.21	0.01	0.0001	13935
99	2.576	6.636	0.4	0.6	0.24	0.01	0.0001	15926
99	2.576	6.636	0.5	0.5	0.25	0.01	0.0001	16589

Note: 1. The formula for large population has used for estimation. 2. Hypotheses testing generally being conducted at 1, 5 and 10% level of significance. If a hypotheses testing are conducting at 5% level of significance, then the sample size has to be determined at 95 % level of confidence and so on. 3. In the above table P has been representatively taken and it can be any number between 0 and 1. 4. E has taken in corresponding to confidence level.

Step 2: Sample size determination for finite population;

The second step has been used when the population is know and finite. Once the sample size is determined for the large sample, it has to be adjusted to know population.

The following formula has been used to determine sample size for finite population. It is also known as adjusting sample to known population.

$$AS = \{(s)/[1+(s-1)/p)]\}$$

AS = Adjusted Sample

S = Minimum Sample in Large population

P = Population size

Sample Size for Finite Population

P = 0.50 or 50	$\mathbf{P} = 0.50$	or 50%	P = 0.50 or 50%						
At 90% of Confid	At 95% of	Confidence	At 99% of Confidence						
Z-Score	1.645	Z-Score	1.96	Z-Score	2.576				
Z-Square	2.706025	Z-Square	3.8416	Z-Square	6.635776				
Expected P	0.5	Expected P	0.5	Expected P	0.5				
1-p	0.5	1-p	0.5	1-p	0.5				
p*1-p	0.25	p*1-p	0.25	p*1-p	0.25				
Error	0.1	Error	0.05	Error	0.01				
E-square	0.01	E-square	0.0025	E-square	0.0001				
Sample for Large Population	67.65		384.16		16589.44				
For the given sample for	For the given sample for large population, the corresponding sample size for finite population								
Finite Population	Adjusted	Finite	Adjusted	Finite	Adjusted				
	Sample	Population	Sample	Population	Sample				
10	8.71	10	9.75	10	9.99				
25	18.25	25	23.47	25	24.96				
50	28.75	50	44.24	50	49.85				
75	35.57	75	62.75	75	74.66				
100	40.35	100	79.35	100	99.40				
200	50.55	200	131.53	200	197.62				
300	55.20	300	168.45	300	294.67				
400	57.86	400	195.96	400	390.58				
500	59.59	500	217.25	500	485.37				
1000	63.36	1000	277.54	1000	943.15				
2000	65.44	2000	322.26	2000	1784.82				
3000	66.16	3000	340.55	3000	2540.57				
4000	66.53	4000	350.50	4000	3222.90				
5000	66.75	5000	356.75	5000	3842.03				
10000	67.20	10000	369.95	10000	6239.11				
100000	67.60	100000	382.69	100000	14228.94				
1000000	67.65	1000000	384.01	1000000	16318.72				

Note: 1. The formula for large population and finite population have used for estimation. 2. Values are computed in excel sheet using both the formulas.

Collection and Process Data:

In the fifth step researcher will collect the data by using questionnaire or schedule. The collected data may be input in the excel sheet for processing. It is always suggested to input data in excel sheet as we can transfer the data to any software like, SPSS, E-views and others.

Presentation of Data:

Presenting data in a meaningful way according to the objectives of the study is purely depending upon the skill and capability of researcher. The descriptive and inferential statistics can be used for the data.

Conclusion:

The present paper has mainly explained the sampling and sample size determination. Probability and non-probability sampling techniques have discussed in the paper. The study has suggested to use probability sampling if researcher is intended to testing the hypotheses. The process of sample size determination for both large and finite population has explained with illustration. The researcher can determine the sample size, if known the confidence level, population proportion and margin of error by using the formulas.

References:



St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

an IQAC initiative

Dr. Vasantha Raju N., Principal (In-charge) & Librarian, GFGC, Talakadu, Mysore



10 January 2025



Day 5
"Publication Ethics & New Scholarly Publishing Models"



Resume

Name Dr. Vasantha Raju N.

Address Principal (In-Charge) Cum College Librarian (Selection

Grade)

Government First Grade College-Talakadu, Mysore Dist.

E-Mail: Vasanthrz@gmail.com

ORCID ID: https://orcid.org/0000-0003-3594-6018

Google Scholar

https://www.slideshare.net/vasanthrz

Date of Birth 12-02-1981 (Twelve February Nineteen Eighty One)

Experience

a) Junior Research Fellow
b) College Librarian
c) College Librarian (Senior Scale)
d) College Librarian (Selection Grade)
e) College Librarian (S Selection Grade)
o3-03-2006 to 06-02-2008
08-02-2008 to 06-03-2014
07-03-2014 to 06-03-2019
07-03-2019 to 06-03-2022
06-03-2022 to Till Date

Academic Qualifications

Sl. No.	Examination passed (starting with Post-Graduation Exams)	University/ Institutions	Month & Year	Class Obtained
1.	MLISc	University of Mysore	June 2004	First Class with distinction
2.	UGC-NET (JRF)	University Grant Commission	2005	
3.	B.A.	University of Mysore	April 2002	First Class
4.	Ph D.	University of Mysore	November 2011	Topic of Research: Content Analysis of Indian Library Web sites: A Study

Teaching Experience

 Taught technology for information management (Practicum) to MLISc 3rd semester during the year 2007-2008

Academic distinctions

- Serving as Associate Editor (Volunteer) The Directory of Open Access Journal (DOAJ) (Since February 2023- to till date)
- I have an *h-Index* of 12. My research papers published in various scholarly journals and meetings have received 368 citations (based on Google Scholar, as on 31-07-2024) so far. One of my articles entitled "Web 2.0 Features in University Library Websites" published in *The Electronic Library* of Emerald Group Publishing in 2010 has been cited 292 times so far.
- Serving as a Joint Secretary, Mysore University Information and Library Science Alumni Network (MILAN), Mysore for the period of 2023-2025.
- Won third KELPO best research paper award 2015 for the research article "Re-Examining the location of web objects: A study of library websites" by the Kerala Library Professionals' Organization, Kerala in 2015.
- Served as Public Relation Officer of Mysore Librarians and Information Scientists Association (MyLISA), Mysore for the period of 2013-15.
- Highly Commanded 2011 Indian LIS Research fund award for the Research Proposal" *Use of social network sites and its effect on students of engineering colleges in Mysore city:*An exploratory study" by Emerald Group Publishing Limited, UK.
- Awarded UGC Junior Research Fellowship for pursuing full-time research in Library and Information Science in 2005
- Awarded cash prize from S.B.R.R. Mahajana First Grade College for securing highest marks in History examination in BA at the University level.

Membership for academic bodies

- Karnataka State College Librarians Association (KSCLA)- Life Member
- Mysore Librarians and Information Scientists Association (MyLISA) -Life Member
- Mysore University Information and Library Science Alumni Network (MILAN)-Life Member

Publications

Journal Articles

2024

Predatory journals in dermatology: a bibliometric review. With Amrollah Shamsi, Ting Wang, Arezoo Ghamgosar, Golbarg Mahdizadeh Davani, & Mohammad Javad Mansourzadeh. *Online Information Review*, ahead-of-print. https://doi.org/10.1108/OIR-04-2023-0161.

2023

- Critical analysis of journal inclusion practice in the UGC-CARE list: A case study of Group-1 Kannada language journals. With Murtala Ismail Adakawa & N.S. Harinarayana. *Annals of Library and Information Studies*, 70(2), 59-65
- Independent Researchers: A Bibliometric Analysis. With Brady Lund, Amrollah Shamsi, Arezoo Ghamgosar, Hossein Dehdarirad & Mohammad Javad Mansourzadeh. *Journal of Scientometric Research*. 12(2), 275-284. DOI: 10.5530/jscires.12.2.026

2022

- Indian S & T Journals: The way forward. (Commentary). *Current Science*, 122(01), 10-11
- A grey zone for bibliometrics: publications indexed in Web of Science as anonymous. With Amrollah Shamsi, Rafaela Carolina Silva, Ting Wang & Karen Santos-d'Amorim. *Scientometrics*, 127(10), 5989-6009. https://doi.org/10.1007/s11192-022-04494-4

2021

- Copyright Literacy among Nigerian Librarians: A Survey of Copyright Awareness, Attitudes, and Abilities. With Amrollah Shamshi, Brady D. Lund & Oluwole O Durodolu. *African Journal of Library, Archives and Information Science*. 31 (2), 119-128.
- Barriers to Scholarly Publishing Among Library and Information Science Researchers: International Perspectives. With Brady D. Lund, Ting Wang, Amrollah Shamsi and other 17 authors. *Information Development*, 39(2), 376–389. https://doi.org/10.1177/026666692110525

- Semantic Web and Libraries: A Scientometric Assessment of Global Publications Output during 1998-2019. With N.S. Harinarayan, B.M. Gupta and Rajpal Walke. *International Journal of Information Dissemination and Technology*, 11(3). 115-122
- Use of MARC21 control field data in University Library OPACs in Karnataka: A study. With Chandrappa & N.S. Harinarayana. *Annals of Library and Information Studies*, 68(1), 21-27. ISSN: 0975-2404

2020

Indian Publications on SARS-CoV-2: A Bibliometric study of WHO COVID-19
 Database. With S.B Patil. *Diabetes and Metabolic Syndrome Clinical Research and Reviews*, 14 (5), 1171-1178. ISSN: 1871-4021

2017

- Wikipedia and LIS: A study of coverage of concepts for UGC-NET. With N.S. Harinarayana, and Meenakshi, S. *Annals of Library and Information Studies*, 64 (1), 69-75. ISSN: 0975-2404
- Prof. Shalini Urs: The Quintessential Professor. *Journal of Library Development (JLD)*, 3(1), 67-72. ISSN: 2395-518 X

2016

Facebook Posts and Lotka's Law. With N.S. Harinarayana, and AnjumKousar, and Sunil,
 M. V. SRELS Journal of Information Management, 53 (2). ISSN 0972-2467

2015

• Re-examining the location of library web objects: A study of library websites (Special issue on Library Websites and Portals). With N.S. Harinarayana. *Kelpro Bulletin*, 19(1), 54-67. ISSN: 0975-4911.

2013

- Current trends in Webometrics research (Special issue on Scientometrics). With N.S. Harinarayana. SRELS Journal of Information Management. 50(5), 657-665.ISSN:0972-2467. (Refereed Journal)Cited 02 times (Google Scholar)
- How does UGC identify predatory journals [Correspondence]. Current Science, 104(11), 1461. ISSN: 0011-3891(Refereed Journal). Impact factor: 0.935Cited 09 times (Google Scholar)

2012

Citation analysis of publications of LIS teachers in South India. With N.S. Harinarayana.
 Information Studies, 18(3), 143-161. ISSN: 0971-6726. (Refereed Journal)Cited 02 times (Google Scholar)

2011

A study of citation accuracy in psychology theses submitted to the University of Mysore.
 With N.S. Harinarayana & Chikkamanju. *Annals of Library and Information Studies*, 58(4), 326-335. ISSN:0975-2404. (Refereed Journal)

2010

- Libraries, journals and publishers: A response [correspondence]. *Current Science*, 99(6), 711. **ISSN:** 0011-3891. Impact factor: 0.935
- Web 2.0 features in university library websites. With N.S. Harinarayana. *The Electronic Library*, 28(1), 69-88. Impact Factor:0.486 Cited 298 times (Google Scholar)
 ISSN: 0264-0473. (Refereed Journal) 1.47 (Cite Score)

2009

Citation analysis of S R Ranganathan's works: A look into the window of Google Scholar.
 With N.S. Harinarayana. Information Studies, 15 (3), 2009, 165-178.
 ISSN: 0971-6726. Cited 06 times (Google Scholar)

2008

- Indian author productivity in international journals in library and information science: A study. With N.S. Harinarayana & Mahadevaswamy. SRELS Journal of Information Management, 45(4), 2008, 399-411.
 - ISSN: 0972-2467Cited01times (Google Scholar).(Refereed Journal)
- An analysis of usability features of library web sites. With N.S. Harinarayana. Annals of Library and Information Studies, 55 (2), 2008, 111-123.
 ISSN:0972-5423. Cited 10 times (Google Scholar). (Refereed Journal) 0.83 (Cite Score)
- Measuring the effectiveness of library services of selected college libraries in Mysore city from user perspective. With N.S. Harinarayana & ShivakumarSwamy.IASLIC Bulletin, 53 (2), 2008, 71-81.

ISSN: 0018-8441.Cited 06 times (Google Scholar)

• Research productivity in library and information science during 1957-2005. With MallinathKumbar. SRELS Journal of Information Management, 45 (1), 71.80. ISSN: 0972-2467. Cited 03 times (Google Scholar) (Refereed Journal)

2007

• E-recruitment for library and information science: A study of Careerage.com. With N.S. Harinarayana. PEARL, 1 (1), 2007, 44-51. ISSN: 0973-7081. Cited 02 times (Google Scholar)

 Use of Internet in engineering colleges of three districts of Karnataka State: A study. With Mallinath Kumbar. ILA Bulletin, 43(1), 2007 13-19.
 ISSN:0970-4728.Cited 14 times (Google Scholar). (Refereed Journal)

2006

 Web content analysis: A review literature. With N.S. Harinarayana. KELPRO Bulletin, 10, (2), 2006 71-83.
 ISSN: 0975-4911.

2005

• Use of electronic resources by research scholars in CFTRI, Mysore: A study. With Mallinath Kumbar & Girish Kumar, G., & Praveen, G.K. ILA Bulletin, 41(1), 2005, 16-20. ISSN:0970-4728.Cited 09 times (Google Scholar)

Books Published

 Vasantha Raju, N., & Harinarayana, N. S. (2017). Content Analysis of Indian Academic Library Websites. Germany: LAP LAMBERT Academic Publishing. [ISBN 978-3330034907]

Paper Published in Edited Books/Conference Proceedings

Role of Libraries and Librarians in Accreditation and Institutional Ranking: A Case study
of Indian Maritime University Library. With Chandrappa and N.S. Harinarayana. In
Rajesh Singh & Shivu Kanaujia Sukula (Eds). Library and Research Ecosystem
Management Framework and Advocacy (191-212). Canada. Society Publishing, 2024.
ISBN: 9781774699560

- Recent Trends in Scholarly Communications: Linking the past with contemporary to understanding future trends. With Murtala Ismail Adakawa & N.S. Harinarayana. In Venissa A.C., Vishala B.K. & Gopakumar V. (Eds). *Empowering Minds: Unleashing Collaborative Excellence in Education, Library and Research* (613-622). Mangalore, St. Agnes College (Autonomus), 2024. ISBN: 978-81-968205-4-1.
- What Makes Predatory Journals and How to Stop Publishing in It? With Sham Rao and Thimme Gowda. In Bagappa Chalawadi (Ed.). Reformation in Higher Education: Challenges, Concerns and New Directions (387-391). Bangalore, Lal Bahadur Shastri Government First Grade College, 2018. ISBN: 97881933447
- Can Cloud Computing Help for Government Colleges to Automate Their Libraries: A
 Point of View. In Ganapathi Z. Shinde, Mallikarjun Angadi, Suresh Jange & Parashuram
 S. Kattimani (Eds). *Emerging Technologies and Future of Libraries* (pp. 145-149). Delhi,
 Daya Publishing House, 2015. ISBN: 9789351246107
- Building School Library: A Unique Experience with Facebook. With Vimalkumar Nallyadi. In K.V. Prabhakara, N.S. Harinarayana, M.V. Sunil, N. Vasantha Raju&M. Veena(Eds), (2014). Social Media and Libraries(pp.105-114). Mysore: SBRR Mahajana First Grade College and Mysore Librarians and Information Scientists Association (MyLISA), Mysore. ISBN: 978-81-928920-1-6.
- Current Trends in Webometrics Research. With N.S. Harinarayana. In I.K. Ravichandra Rao and A. Neelameghan (Eds). *Scientometrics* (pp. 129-238).EssEss Publications, New Delhi, 2014. ISBN: 978-81-7000-717-3
- Digital shift in cataloguing: are we ready to change? With N.S. Harinarayana and Sunil M.V. In: Digital shift and libraries (pp. 127-144). Prasaranga, Karnataka State Women's University, Bijapur, 2014. ISBN 978-93-83090-17-4
- How Productive Our Teachers Are? A Bibliometric Analysis. With N.S. Harinarayana. In B.D. Kumbar, S.L. Sangam, R.R. Naik, G.S. Hadagali and C. Krishnamurthy (Eds). A Scientometric Approach to Research Assessment, Evaluation and Performance of Indian Universities. (pp. 153-173). Karnataka University, Dharwad, 2013. ISBN: 9788192385917
- Diligence of metadata in Indian Institutional Repositories: A preliminary assessment. With N. S. Harinarayana and J. Manjunath. In. 16th National Convention on Knowledge, Library and Information Networking Emerging Technologies and Innovations in Library Practices, December 10-12, 2013. Jaipur: DELNET, New Delhi.
- Prof. B. Ramesh Babu as seen through Google Scholar. With Harinarayana N.S. In D. Chandran, P.Rajendran& S.K. Ashok Kumar (Eds.), *Dynamics of Librarianship in the Knowledge Society (Festschrift in Honour of Prof. B. Ramesh Babu)* (pp. 1359-1376). Delhi, B.R. Publishing Corporation. 2013. ISBN: 9789350500613

- Government College Libraries: Present Status and Future Perspective. With Harinarayana N.S. In R.B. Gaddagimath&MallikarjunVaddenkeri (Eds.), *Empowering Libraries for Lifelong Skill* (pp. 816-823). Agra, Current Publications, 2012. ISBN: 9788189065911
- Research Productivity of Prof. S. C. Sharma as Seen Through the Web of Science (WoS). With VasanthaRaju N. & Sunil M. V. Proceedings of the National Conference on Scientometrics. Edited by P. Sadasivamurthy, D. Shivalingaiah, S. L. Sangam, B. T. Sampath Kumar & Keshava. Organized by the *Department of Studies and Research in Library & Information Science, Tumkur University* in collaboration with Institute of Scientometrics, Tumkur (7th September 2012), pp. 292-304.
- Identifying the location of web objects: A study of library websites. With Harinarayana N.S. Proceedings of the 8th International CALIBER 2011 on Towards building a knowledge society: Library as catalyst for knowledge discovery and management organized by the *INFLIBNET Centre*, *Ahmadabad in collaboration with Goa University*, Goa (March 2-4, 2011). Cited 10 times (Google Scholar)
- From street campaigning to online campaigning: Indian national political party websites. With N.S. Harinarayana&MallinathKumbar. Proceedings of the National conference on Information Technology and its applications. Organized by the *Centre for Information Science and Technology (CIST) in collaboration with Department of Computer Science*, University of Mysore, Mysore (November 21-22, 2009)
- Folksonomy in flickr: A study. With N.S. Harinarayana&Tadasad, P.G. Proceedings of the National conference on Library 2.0: The confluence of web 2.0 and library paradigm. Organized by the *Department of Library and Information Science*, University of Mysore, Mysore (August 21-22 2008)
- ಆಧುನಿಕಯುಗದಲ್ಲಿಗ್ರಂಥಸ್ವಾಮ್ಯ ತೊಡಕುಗಳು ಮತ್ತು ಗ್ರಂಥಾಲಯಗಳ. ಜೊತೆಯಲ್ಲಿಎನ್. ಎಸ್. ಹರಿನಾರಾಯಣ, ವೀಣಾ ಸಾಂತೇಶ್ವರ (ಸಂ). ಪ್ರಬುದ್ದ: ಕೆ. ಎಸ್. ದೇಶಪಾಂಡೆಅಭಿನಂಧನೆಗ್ರಂಥ. ಸುಂದರ ಪುಸ್ತಕ ಪ್ರಕಾಶನ, ಧಾರವಾಡ, 2008.

Edited Books/Magazines

- Prabhakara, K. V., Harinarayana, N. S., Sunil M. V., Vasantha Raju, N., & Veena, M. (2014). Social Media and Libraries. Mysore: SBRR Mahajana First Grade College and Mysore Librarians and Information Scientists Association (MyLISA), Mysore. ISBN: 978-81-928920-1-6.
- Served as co-editor of 'MyLISA News-2015" an Annual Magazine published by Mysore Librarians and Information Scientists Association (MyLISA), Mysore

- Served as co-editor of 'MyLISA News-2014" an Annual Magazine published by Mysore Librarians and Information Scientists Association (MyLISA), Mysore
- Served as co-editor of 'MyLISA News-2013" an Annual Magazine published by Mysore Librarians and Information Scientists Association (MyLISA), Mysore

Paper published in newspapers and magazines other Platforms

- ಗ್ರಾಮೀಣ ಗೃಂಥಾಲಯಗಳ ಯಶೋಗಾಥೆ. **ವಾರ್ತಾಭಾರತಿ.** (28 ಆಗಸ್ಟ್ 2023)
- ನಕಲಿ ಸಂಶೋಧನಾತ್ಮಕ ಜರ್ನಲ್ ಗಳ ಹಾವಳಿ ಮತ್ತು ಪ್ರೋತ್ಸಾಹ. **ವಾರ್ತಾಭಾರತಿ**. (08 ಜನವರಿ 2022)
- ಗೃಂಥಾಲಯ: ಮಾಹಿತಿಗಷ್ಟೇ ಅಲ್ಲ. (ಸಂಗತ ವಿಭಾಗ). **ಪ್ರಜಾವಾಣಿ** (12 ಆಗಸ್ಟ್ 2021)
- Why are both UGC- CARE List of Journals and Good Academic Research Practices (GARP) Archaic? With N.S. Harinarayana. Confluence. (17th May, 2021) https://confluence.ias.ac.in/why-are-both-ugc-care-list-of-journals-and-good-academic-research-practices-garp-archaic/
- ವಿಶ್ವವಿದ್ಯಾಲಯದ ಸ್ವರೂಪಗಳಿಲ್ಲದ ಕಾಲೇಜುಗಳನ್ನು ವಿವಿಗಳಾಗಿ ಪರಿವರ್ತಿಸಬಾರದು. **ವಾರ್ತಾಭಾರತಿ** (28 ಜೂನ್ 2020)
- ಪಿಹೆಚ್.ಡಿ. ಬಿಕ್ಕಟ್ಟು ಬಗೆದಷ್ಟು ಆಳ. (ಸಂಗತ ವಿಭಾಗ) **ಪ್ರಜಾವಾಣಿ** (16 ಜೂನ್ 2019)
- After distinguished service, Shalini Urs retires. CityToday Online Newspaper (31 December 2016)
- ಅಭಿವೃದ್ಧಿಯಾಗದ ತಂಬಾಕು ನಾಡು. **ರಾಜ್ಯಧರ್ಮ** (02 ಫೆಬ್ರವರಿ, 2015)
- Library for a cause: the Mysore Librarians and Information Scientists Association (MyLISA) in Mysore runs a tent library (2014). With Harinarayana, N.S. & Sunil, M.V. Taylor & Francis Ignite: the librarians' newsletter for South Asia, October-December, Issue 4, 7p.
- ಸರ್ಕಾರಿ ಶಾಲೆಗಳ ಕುರಿತ ಪ್ರೊ. ಗೋವಿಂದ ಸಮಿತಿ ವರದಿಯ ವಿಶ್ಲೇಷಣೆ. ಆಂದೋಲನ ದಿನಪತ್ರಿಕೆ (28, ಅಕ್ಟೋಬರ್ 2012)
- ಪುಸ್ತಕಗಳಿಗೆ ಐಎಸ್ಬಿಎನ್ ಮತ್ತು ಐಎಸ್ಎಸ್ಎನ್. **ಆಂದೋಲನ ದಿನಪತ್ರಿಕೆ** (21 ಆಗಸ್ಟ್ 2011)

- ಭಾರತದ ಗ್ರಂಥಾಲಯ ಚಳುವಳಿಯ ಪಿತಾಮಹ: ಡಾ.ಎಸ್.ಆರ್. ರಂಗನಾಥನ್. ಆಂದೋಲನ ದಿನ ಪತ್ರಿಕೆ (8 ಅಗಸ್ಟ್ 2010)
- Books speak. MyLISA News, 1(6), 2010.

Paper presented at the professional meetings

The following papers were presented at the academic meetings

- Evaluating LIS doctoral programs on the basis of citations: A Study of Universities in Southern Stated in India. Paper Presented at 5thIATLIS International Conference on "Restructuring Library and Information Science Education in the Internet Era" Jointly Organized by the Pondicherry University, Puducherry (19-20, December, 2019)
- What Makes Predatory Journals and How to Stop Publishing in It? Paper Presented at the National Conference on Reformation in Higher Education: Challenges, Concerns and New Directions Organized by Lal Bahadur Shastri Government First Grade College, Bangalore (October 23, 2018)
- Massive Open Online Courses (MOOCs) in India: A Study of Swayam Paper Presented at the National Conference on Make in India and Digital India: Empowerment and Transformation for Inclusive Growth Organized by Centre for Study of Social Exclusion and Inclusive Policy, University of Mysore, Mysore (August 29-30, 2018)
- Is Indian Social Media Space Misogynistic: A Study of Facebook Comments on Female Artists in Indian Film Industry? Paper Presented at the National Policy Conference on Social Media for Digital and Social Inclusion: Cultural, Technological and Economic Implications Organized by the Centre for Study of Social Exclusion and Inclusive Policy, University of Mysore, Mysore (February 19, 2018)
- Online Survey Tools: A Case Study of Google Forms. With N.S. Harinarayana. Paper presented at the National Conference on **Scientific**, **Computational and Information Research Trends in Engineering** (NCSCI-2016) Organized by the GSSS Institute of Engineering and Technology for Women, Mysore (January 30, 2016).
- Can Cloud Computing Help Government Colleges to Automate their Libraries: A Point of View. With N.S. Harinarayana. Paper presented at the International Conference on Emerging Technologies in Libraries Organized by the Karnataka State SC/ST Library Professionals Association (R), in association with Dr. B.R. Ambedkar Studies & Research, Gulbarga University, Gulbarga and RAK Medical and Health Sciences University, Ras Al Khaima, United Arab Emirates (UAE) (January 30-31, 2015).
- Building School Library: A Unique Experience through Facebook. Paper presented at the National Conference on **Social Media and Libraries**Organized by the Department of Library, SBRR Mahajana First Grade College in association with Mysore Librarians and Information Scientists Association (MyLISA), Mysore (December, 4-5, 2014).

- Research Productivity of Prof. S. C. Sharma as Seen Through the Web of Science (WoS). With Harinarayana N. S. and Sunil M.V. Paper presented at the National Conference on **Scientometrics**organized by the Tumkur University, Tumkur (September 7, 2012)
- Internationality of Journals: A case study of Two Indian LIS journals. With Harinarayana N. S. and Sunil M.V. Paper presented at the National Conference on **Knowledge Dissemination Through Journal Publications** organized by the Christ University, Bangalore (September 28-30, 2011)
- Identifying the location of web objects: A study of library websites. With Harinarayana N.S. Paper presented at the 8th International CALIBER 2011 on **Towards building a knowledge society: Library as catalyst for knowledge discovery and management** organized by the INFLIBNET Centre, Ahmadabad in collaboration with Goa University, Goa (March 2-4, 2011).
- Looking at the Indian academic library websites: A content analysis approach. With Harinarayana, N.S. Paper presented at the International conference on Webometrics, Informetrics and Scientometrics (WIS) and 11th COLLNET Meeting organized by the Department of Library and Information Science, University of Mysore, Karnataka (19-22, October 2010).
- From street campaigning to online campaigning: Indian national political party websites. With Harinarayana, N.S., &Kumbar, M. Paper presented at theNational conference on **Information Technology and its applications** organized by the Centre for Information Science and Technology (CIST) in collaboration with Department of Computer Science, University of Mysore, Mysore, Karnataka (Nov 21-22, 2009).

Resource Person

- Invited to deliver a special talk on "Intellectual Property Rights (IPR)" at the Teresian College, Mysore for the teaching and Student Community on 15th December 2023.
- Invited as a Resource Person for the 27th Refresher Course in Library and Information Science (Online) to deliver a lecture on "New Publishing Models: Understanding Preprints" at the UGC-HRDC, University of Mysore, Mysore on 11th September 2023.
- Delivered Invited lecture on "**Open Data**" for the Students participated in the PhD Course work at the Department of Library and Information Science, Shivaji University, Kolhapur, Maharashtra on 08th August 2023.

- Delivered Invited talk on "Research Proposal and Report Writing" as a part of Faculty Development Programme (FDP) organized by the St.Philomena's College (Autonomous), Mysore on 27th June 2022.
- Invited as a Resource Person for the six day workshop on Research and Publication Ethics for PhD Course Work Students, Teaching staff, Guest Lectures, and Research Scholars and Delivered the lecture on "Publication Ethics: Definition, Introduction and Importance" Organized by the Department of Education, Mangalore University, Mangalore on 20th February 2022.
- Delivered a Invited Lecture on "**Open Data: An Overview**" for the PhD Students of Department on Library and Information Science as a part of the Course Work, Shivaji University, Kolhapur, Maharashtra on 03rd January 2021
- Invited as a Resource Person for the 24th Refresher Course in Library and Information Science (Online) to deliver a lecture on "Covid-19 and Changing Paradigm in Scholarly Communication" at the UGC-HRDC, University of Mysore, Mysore on 13th October 2020.
- Delivered a Special Lecture on "Scholarly Communication" as a part of Research Methodology Series Organized by the Library and Information Centre, Teresian College, Mysore on 20th June 2020.
- Invited for giving a talk on "Electronic Information Resources for Teachers and Students" at the Sri D.D. Urs Government First Grade College, Hunasur on 02nd April 2016.
- Invited for giving a talk on "**Reading Habits**" on the special occasion of Librarians Day at the Government First Grade College, Hangoodu, Hunsur on 30th August 2015.
- Presented Invited Paper entitled "Building School Library: A Unique Experience Through Facebook" at the National Conference on Social Media and Libraries at SBRR Mahajan First Grade College on 5th December 2014
- Served as one of the resource people for **MyLISA OPENS** (Orientation Programme for Enthusiasts of NET/SLET) Organized by MyLISA in December 2013 at SBRR Mahajana First Grade College, Mysore.
- Served as one of the resource person for educating tribal children about the importance of libraries at the **Tent Library** temporarily established for Mahouts and Kavadis of Dasara Elephant at the Mysore Palace premises by MyLISA in Collaboration with Department of Public Libraries, Karnataka during Mysore Dasara-2014.

Reviewer

- Reviewed manuscript for **Acta Tropica (Elsevier)** Impact Factor 2.1 and CiteScore 5.4
- Reviewed manuscript for **Information Development** (**Sage Publications**) Impact Factor 2.0.

Participation in conference, seminars/workshops and training program

- Two Day National Conference on "Academic Publishing, Libraries, & Artificial Intelligence (MILAN-APLAI 2024)" Organized by the Mysore University Information & Library Science Alumni Network (MILAN) & Dept. of Studies in Library and Information Science in Collaboration With Mysore University Library, Mysuru. (21 & 22nd June, 2024).
- Two Day National Conference on "**Smart Libraries**" Organized by the Jain (Deemed to be) University in collaboration with the KSCLA (Karnataka State College Librarians Association), Bangalore. (10th & 11th March 2023).
- UGC Sponsored Refresher Course in Library and Information Science for teachers/librarians organized by the Human Resource Development Centre (HRDC), University of Calicut, Calicut. (November 22, 2022 to 05th December 2022).
- UGC Sponsored One Week Short Term Course on "Information Communication Technology" (Online Mode) organized by the Human Resource Development Centre (HRDC), University of Mysore, Mysore. (September 17th, 2021 to 23rd September 2021).
- One Week Short Term Training Program on "Research 2.0: From Discovery to Dissemination" (Online Mode) Organized by the Centre for Information Resource Management (CIRM), University of Kalyani, West Bengal. (March 02 to March 08, 2021)
- Two Days State Level Conference on "Science Communication, Popularization and Extension in Kannada: The Road Ahead" Organized by CSIR-CFTRI and Swami Vivekananda Youth Movement With the support of Vigyan Prasar. (20th 21st September, 2019).
- Two Day National Workshop on "Technical Writing and Publications, Grant Proposals, Funding Agencies and Soft Skills in Scientific Research" Organized by Centre for Study of Social Exclusion and Inclusive Policy, University of Mysore, Mysore in Support with Karnataka State Council for Science & Technology. (January 10-11, 2019).
- "61st Life Skills Training Workshop for NSS Officers" Organized by Department of Epidemiology, Centre for Public Health (CPH), National Institute of Mental Health and Neuro Sciences (An Institute of National Importance) in Support with Government of Karnataka (December 17-22 2018)

- One Day National Conference on "Reformation in Higher Education: Challenges, Concerns, and New Directions" Organized by the Lal BahadurShashtri Government First Grade College, Bangalore. (October 23, 2018)
- Two Day National Seminar on "Make in India and Digital India: Empowerment and Transformation for Inclusive Growth" Organized by Centre for Study on Social Exclusion and Inclusive Policy, University of Mysore, Mysore. (August 29-30, 2018)
- UGC Sponsored Refresher Course in Library and Information Science for teachers/librarians organized by the Human Resource Development Centre (HRDC), University of Mysore, Mysore. (August 01, 2018 to 21th August 2018).
- One Day National Policy Conference on "Social Media for Digital and Social Inclusion: Cultural, Technological and Economic Implications" Organized by Centre for Study of Social Exclusion and Inclusive Policy, University of Mysore, Mysore. (February 19, 2018).
- "Two Day Workshop on "Library Automation of College Librarians Using Koha" organized by the Department of Studies in Library & Information Science, University of Mysore, Mysuru (January 11-12, 2018)
- National Conference on "Digital Libraries, Library Automation and Open CouseWare: Issues and Best Practices" organized by the Department of Studies in Library & Information Science, University of Mysore, Mysuru (November 10-11,2017). Served as the Rapporteur of the Conference.
- International Conference on "Knowledge Organization, Library and Information Management" jointly organized by the SaradaRanganathan Endowment for Library Science, Bangalore, Indian Institute of Technology Madras (IIT-M), Chennai, Informetics India Ltd, Bangalore and Ranganathan Centre for Information Studies. (October 23-25, 2017)
- One day workshop on "Uploading AISHE Data to All India Survey on Higher Education Portal" for Nodal Officers of Higher Education Institution, Organized by the University of Mysore, Mysore in association Department of Higher Education, Government of Karnataka (15th February 2017).
- National Conference on "Bridging the Digital Divide: Open Source and Open Access" Organized by the Department of Studies in Library and Information Science, University of Mysore, Mysuru (March 11-12,2016)
- National Conference on "Scientific, Computational & Information Research Trends in Engineering (NCSCI-2016)" Organized by the GSSS Institute of Engineering and Technology for Women, Mysore (January 30, 2016).

- UGC Sponsored Refresher Course in Library and Information Science for **teachers/librarians** organized by the Human Resource Development Centre, University of Calicut, University of Calicut, Kerala. (September 29, 2015 to 19th October 2015).
- Golden Jubilee Summit and International Conference on "Information Unbounded: The Past Present and the Future of Information Sciences" organized by the Department of Studies in Library and Information Science, University of Mysore, Mysuru in association with Mysore Information and Library Science Alumni Network (MILAN) (June 18-20, 2015).
- One day workshop on "Technology in Higher Education" Organized by the University of Mysore, Mysore in association with KaranatakaJnanaAayoga, Govt. of Karnataka. (February 07²2015)
- International Conference on "Emerging Technologies and Future of Libraries: Issues and Challenges" Organized by the Karnataka State SC/ST Library Professionals Association (R), in association with Dr. B.R. Ambedkar Studies & Research, Gulbarga University, Gulbarga and RAK Medical and Health Sciences University, Ras Al Khaima, United Arab Emirates (UAE) (January 30-31, 2015).
- National Conference on "Social Media and Libraries" Organized by the Department of Library, SBRR Mahajana First Grade College in association with Mysore Librarians and Information Scientists Association (MyLISA), Mysore (December, 4-5, 2014).
- National Conference on "Libraries and Librarianship in Transition: Challenges and Opportunities" Organized by the Besant Evening College, Mangalore in association with Karnataka State College Librarians' Association, Bangalore and Dakshina Kannada &Kodagu Library Association, Mangalore. (August 22-23, 2014).
- One day workshop on "Questionnaire Design and Analysis" Organized by the Mysore Librarians and Information Scientists Association (MyLISA), Mysore, in association with Mysore University Library, University of Mysore, Mysore (June 29th, 2014).
- One day workshop on "Tackle a Literature Review" Organized by the Mysore Librarians and Information Scientists Association (MyLISA), Mysore, in association with Mysore University Library, University of Mysore, Mysore (November 30th, 2013).
- National Conference on "Emerging Trends in E-Resource Management and Services in College Libraries" Organized by the Teresian College in Collaboration with SDM-Institute for Management Development, Mysore. (September 27-28, 2013)
- One day Workshop on "Wikipedia" Organized by the Centre for Internet & Society, Bangalore, at the University of Mysore, Mysore (August 6th, 2013)
- One day Seminar on "**Publish or Perish**" Organized by the Mysore Librarians and Information Scientists Association (MyLISA), Mysore. (July 20th, 2013).

- National Conference on "**Inspiring Library Services**" Organized by the KSPUCLA, Bangalore in Collaboration with SSIT, Tumkur. (July 12-13, 2013)
- National Conference on "E-Resources and E-Learning: Challenges and Opportunities for Libraries" Organized by the University of Calicut, Kerala (February 01-02, 2013).
- State level One Day workshop on "Information Literacy" Organized by the Karnataka State College Librarians' Association, Bangalore in Collaboration with Government Arts College, Bangalore. (October 12th 2012).
- National Conference on "Libraries and Development: Present and Future" Organized by the Karnataka State Library Association (KALA), Karnataka. (June 7-9 2012).
- Six day workshop on "Electronic Resource Management in Libraries" organized by the UGC-Academic Staff College, University of Mysore, Mysore (February 6th-11th 2012).
- UGC Sponsored Refresher Course in Library and Information Science for **teachers/librarians** organized by the Academic Staff College, University of Mysore, Mysore, Karnataka. (January 28th 2012 to 17th February 2012).
- National Workshop on "**Modern Trends in Research Methodology**" Organized by the SBRR Mahajana First Grade College, Mysore, Karnataka. (December 20th 2011)
- National Conference on "Managing College Libraries: Issues and Trends" Organized by the JSS College of Arts, Commerce and Science in collaboration with Mysore Librarians & Information Scientists Association (MyLISA, Mysore (December 16-17 2011)
- National Seminar on "Extension and Outreach Library Services to Build-Up Academic Excellence" organized by the Department of P.G. Studies and Research in Library and Information Science, Kuvempu University, Shimoga (December 3 2011)
- National Conference on **Knowledge Dissemination Through Journal Publications** organized by the Christ University, Bangalore (September 28-30 2011).
- National Conference on Collection management in changing context: Problems and prospects organized by the Kuvempu University College Librarians Association (R), Shimoga in collaboration with Karnataka State College Librarians Association (R), Bangalore (August 19-20, 2011).
- Seminar on **Life and works of Dr. S. R. Ranganathan**organized by the Karnataka State Library Association in collaboration with Indian Academic Library Association, Bangalore (August 12 2011).
- National Conference on **Information literacy and higher education in digital environment**organized by the Karnataka State Open University, Mysore (March 30 2011).

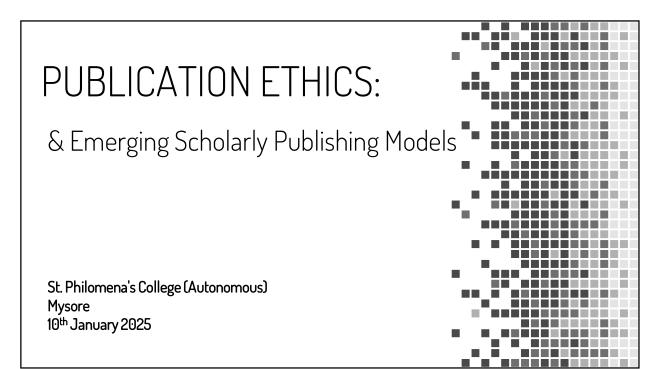
- International Conference on CALIBER 2011 on **Towards building a knowledge society:** Library as catalyst for knowledge discovery and management organized by the INFLIBNET Centre, Ahmadabad in collaboration with Goa University, Goa (March 2-4, 2011).
- International conference on Webometrics, Informetrics and Scientometrics (WIS) and 11th COLLNET Meeting organized by the Department of Library and Information Science, University of Mysore, Karnataka (19-22, October 2010).
- Seminar on **Managing Digital Resources in Academic Libraries** organized by the Mysore Librarians and Information Scientists Association (MyLISA), Mysore, Karnataka (10, September 2010).
- National conference on **Web-Based Library Services** organized by the JSS College for Women (autonomous), Mysore in collaboration with the SDM-Institute for Management Development, Mysore, Karnataka (5th-6th March 2010).
- Five days training program on **ICTs and Information Universe** organized the Gulbarga University in collaboration with Department of Collegiate Education, Government of Karnataka, Bangalore and State College Librarians Association, Bangalore (Nov 30th Dec 04, 2009).
- National conference on **Information Technology and its applications** organized by the Centre for Information Science and Technology (CIST) in collaboration with Department of Computer Science, University of Mysore, Mysore, Karnataka (Nov 21-22, 2009).
- 83rd UGC sponsored **orientation program for college teachers/librarians** organized by the Academic Staff College, University of Mysore, Mysore, Karnataka. (July 8^{th to} August 4th 2009).
- National conference on Library 2.0: The confluence of web 2.0 and library paradigm, organized by the, Department of Library and Information Science, University of Mysore, Mysore, Karnataka. (August 21-22, 2008).
- Two day workshop on **Open Source Library Management Software- NewGenLib**. Organized by the SDM Institute of Management Development –Mysore in collaboration with Kesavan Institute of information and Knowledge Management (KIIKM), Hyderabad, (February 2008).
- Winter training program on **Data Analysis in Social Science**. Organized by the Tata Institute of Social Science, Mumbai. (November 12-24 2007).
- Workshop on **Importance of Ancient Manuscript and their Conservation**. Organized by the Oriental Research Institute, Mysore. Karnataka. (January, 2005).

- Workshop on **Automation of Libraries**. SDM Institute of Management Development, Mysore. Karnataka. (December, 2004).
- National Seminar on **Digital Resources and Services in Libraries**, organized by the Asian Society for Social Services, Information Science and Technology (ASSIST), Department of Library and Information Science, Kuvempu University, Shimoga, Karnataka. (April, 2004).
- Workshop on **Emerging Trends in ICTs**. Organized by the Center for Information Science and Technology (CIST), Mysore. Karnataka. (June, 2003).

Project - Team Member

• Research Team Member (2005, December). **How Technology professionals Work**, Sponsored by the IEEE. The team was led by Dr. Suzanne Allard, College of Communication and Information, University of Tennessee, USA and Dr.Shalini R Urs, Department of Library and Information Science, University of Mysore, Mysore.

(Dr. Vasantha Raju N.) Signature





HELLO!

I am Vasantha Raju N.
Principal (In-Charge) & College Librarian
Government First Grade College-Talakadu
Associate Editor
Directory of Open Access Journals (DOAJ)



OPEN. GLOBAL. TRUSTED.

Presentation Layout

- What is Publication Ethics?
- Why UGC Introduced UGC-CARE?
- Unethical Publication Practices
 - Authorship
 - Plagiarism
 - Conflict of Interest
 - Research Fraud
- Predatory Journals & Fake Journal Metrics
- Importance of Ethical Research & Publication Practice
- Open Science (Preprints) New Publishing Models

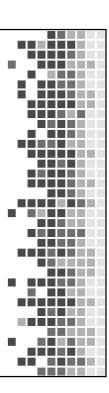
3

What is Publication Ethics?

"the principles and standards associated with the process of publishing the results of scientific research or scholarly work in general.

These include such requirements as giving the appropriate credit and authorship status to those who have earned it; ensuring that appropriate citations are given to ideas, methodology, or findings from another study; not submitting the same article to more than one journal simultaneously; and not submitting results for republication without indicating that they have already been published elsewhere"

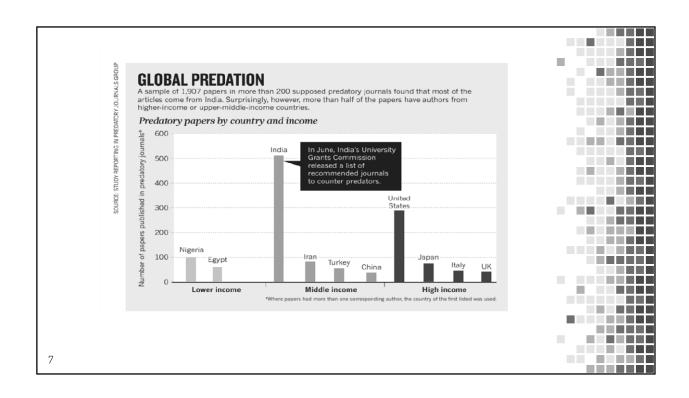
- APA Dictionary of Psychology

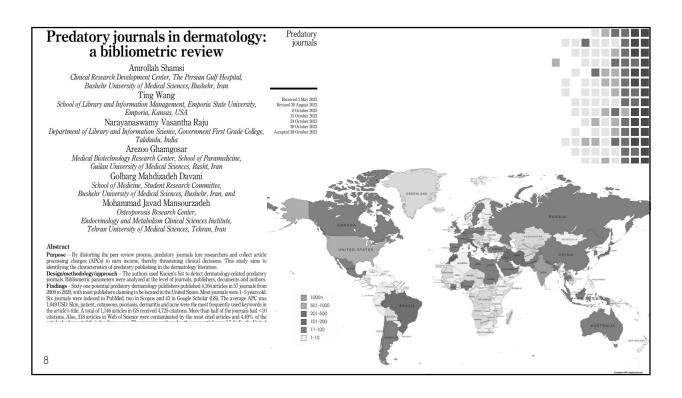


"Most people say that it is the intellect which makes a great scientist. They are wrong: it is character."

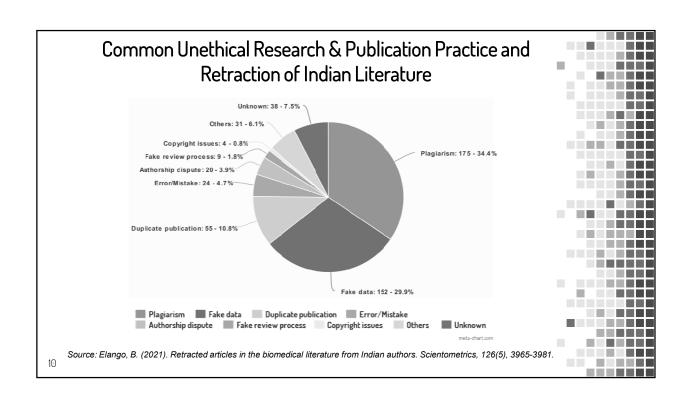
- Albert Einstein





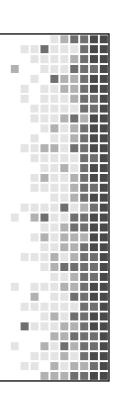






1. Authorship

An author is someone who has made a significant contribution to the work reported: in terms of research conception or design, or acquisition of data, or the analysis and interpretation of data.

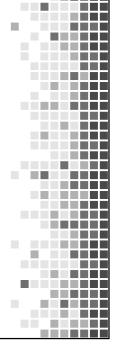


11

When Authorship Should be Given

According to the ICMJE following criteria should be met to be credited as an author

- Substantial contribution to the study conception and design, data acquisition, analysis, and interpretation.
- Drafting or revising the article for intellectual content
- Approval of the final version.
- Agreement to be accountable for all aspects of the work related to the accuracy or integrity of any part of the work.



Authorship Pattern

First Author

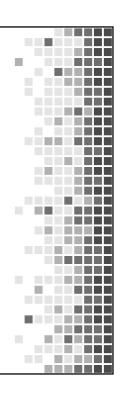
 One who conceptualizes the study and contributes immensely in every aspects of the research process (study design, data acquisitions, analysis, interpretations and writing the manuscript)

Co-Authors

 Those who significantly contributes to the research work and in preparing the manuscript

Corresponding Author

One who takes responsibility for the manuscript during the submission, peer review and production process. All communication from submission to publication will be with the corresponding author.



13

CRediT (Contribution Roles Taxonomy)

- Conceptualization
- Data Curation
- Formal Analysis
- Funding Acquisition
- Investigation
- Methodology
- Project Administration

- Resource
- Software
- Supervision
- Validation
- Visualization
- Writing Original Draft Preparation
- Writing Review & Editing

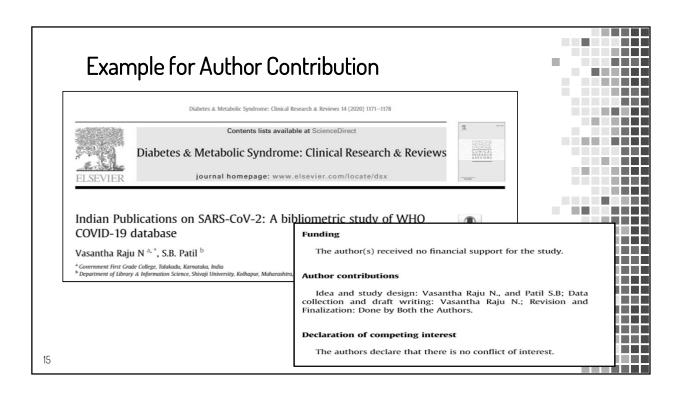
An example of an Authors' Contribution statement using CRediT with degree of contribution:

Pierro Asara: review and editing (equal). Kerys Jones: Conceptualization (lead); writing – original draft (lead); formal analysis (lead); writing – review and editing (equal). Elisha Roberto: Software (lead); writing – review and editing (equal). Hebel Wang: Methodology (lead); writing – review and editing (equal). Jinnie Wu: Conceptualization (supporting); Writing – original draft (supporting); Writing – review and editing (equal).

Source: https://casrai.org/credit/

https://authorservices.wiley.com/author-resources/Journal-Authors/open-access/credit.html





Unethical Authorship Practices

Guest Authorship

authorship based solely on an expectation that inclusion of a particular name will improve the chances that the study will be published or increase the perceived status of the publication

Gift Authorship

An author is added to a paper when they have not actually made a contribution to the work, perhaps to reward a collaborator, return a favour, or for some other gain. Including PhD supervisor or HoD, etc.

Ghost Authorship

This usually refers to professional writers (often paid by commercial sponsors) whose role is not acknowledged.



2. Plagiarism

One of the most common types of research misconduct

"The practice of taking someone else's work or ideas and passing them off as one's own"

- The Oxford English Dictionary
- Derived from a Latin word "Plagiarius"
 - Meaning 'kidnapper'

17

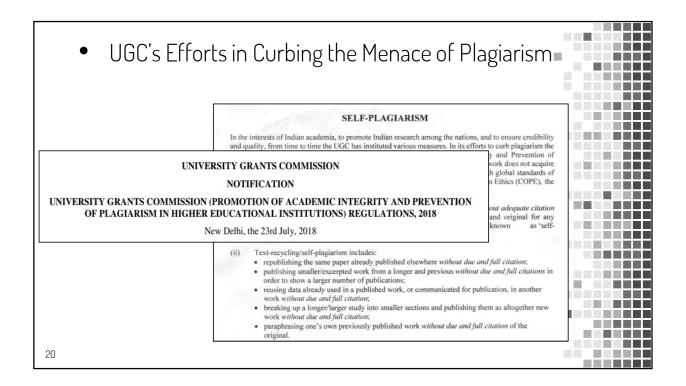
According to the Merriam-Webster online dictionary, to "plagiarize" means:

- to steal and pass off (the ideas or words of another) as one's own
- to use (another's production) without crediting the source
- to commit literary theft
- to present as new and original an idea or product derived from an existing source

Plagiarism is nothing but an act of fraud. It involves both stealing someone else's work and lying about it afterward.



Common Types of Plagiarism Complete plagiarism: Submit another Paraphrasing plagiarism: Make minor changes and use others' writing authors work in your name ____ Mosaic plagiarism: Interlay someone else's Source-based plagiarism: Reference an incorrect or non-existent source phrases or text within your work. Accidental plagiarism: Unintentional Direct plagiarism: Copy text from another document word-to-word paraphrasing or copying due to neglect Inaccurate authorship: Authorship instead of Self or auto plagiarism: Reuse a major acknowledgment to contributors and vice versa part of your own work without attribution #SmartShorts Visit enago.com/academy today to know more about publishing! Source: https://libguides.lindsey.edu/plagiarism/types 19



UGC's Penalties in case of plagiarism in academic and research publications

- Level 0 : Similarities up to 10% Minor similarities no penalty
- Level 1: Similarities above 10% to 40%
 - Shall be asked to withdraw the manuscript
- Level 2 : Similarities above 40% to 60%
 - Shall be asked to withdraw manuscript.
 - Shall be denied a right to one annual increment.
 - Shall not be allowed to be a supervisor to any new Master's, M.Phil., Ph.D.
 Student/scholar for a period of two years.
- Level 3: Similarities above 60 %
 - Shall be asked to withdraw manuscript.
 - Shall be denied a right to two successive annual increments.
 - Shall not be allowed to be a supervisor to any new Master's, M.Phil., Ph.D.
 Student/scholar for a period of three years.

21

Simultaneous Submissions

 Submitting same manuscript in same or different language(s) to one or more than one journal at the same time.

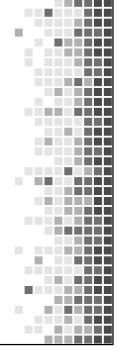
Duplication/Redundant Publications

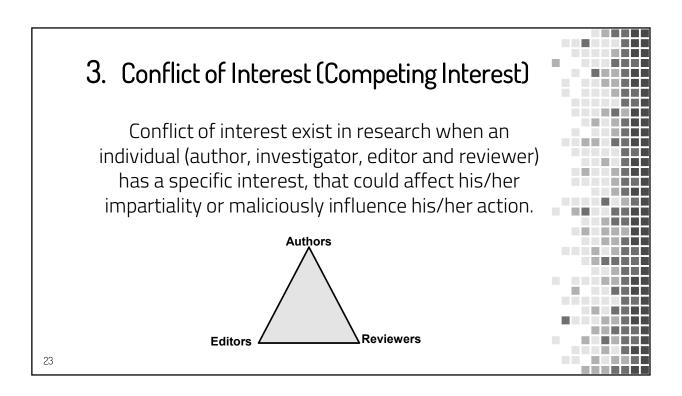
 Duplicate publication is a form of redundant publication where the same article is published more than once, without acknowledging the first publication.

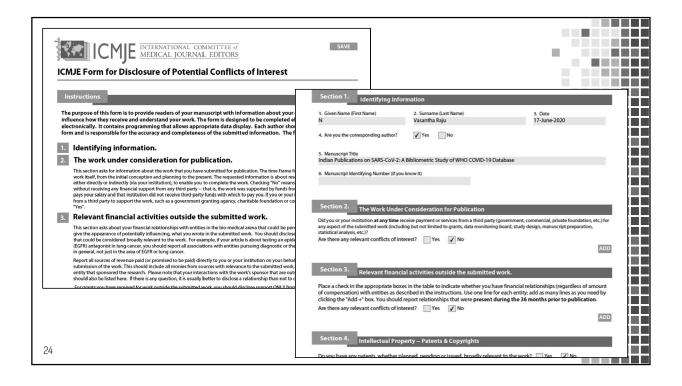
Salami (Slicing) Publications

 Slicing single study into multiple fragments and develop multiple papers out of it and submit it.

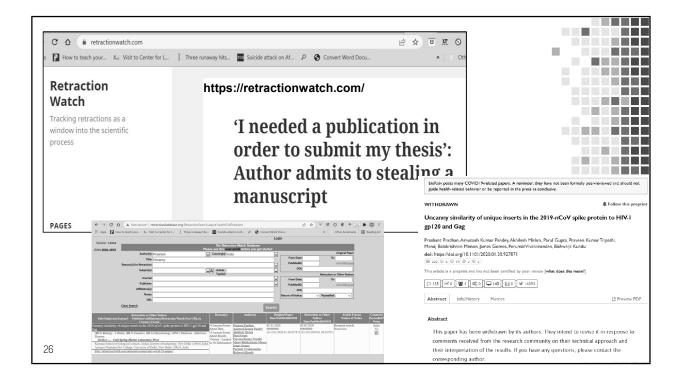
These practices are prevalent in Indian academia for lack of awareness on publication ethics and pressure to publish







4. Research Frauds Fabrication Making up research data and results, and recording or reporting them Falsification manipulating research materials, images, data, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record. Source: Elsevier Ethics in Research & Publication



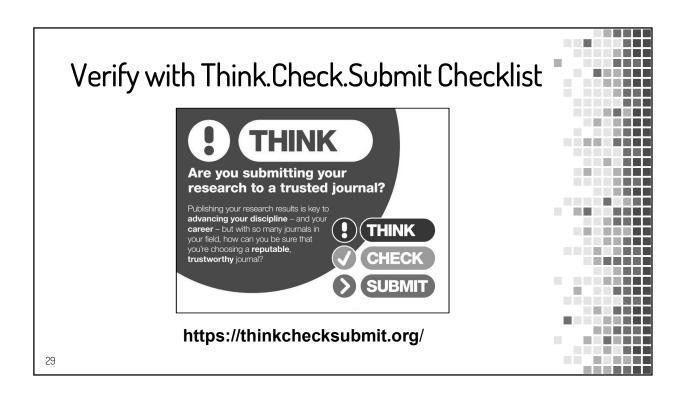
Predatory Journals

- Stop publishing in predatory journals
- Use appropriate indexing databases to select good journals
 - Web of Science (WoS)
 - Scopus
 - PubMed
 - DOAJ (Directory of Open Access Journals)
 - Cabell's Journal Analytics
 - UGC-CARE List

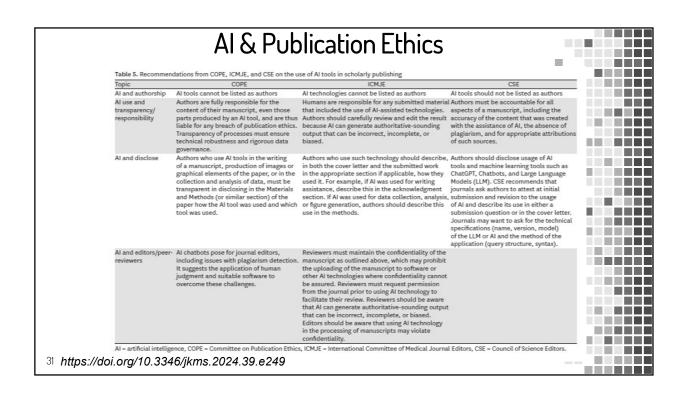
27

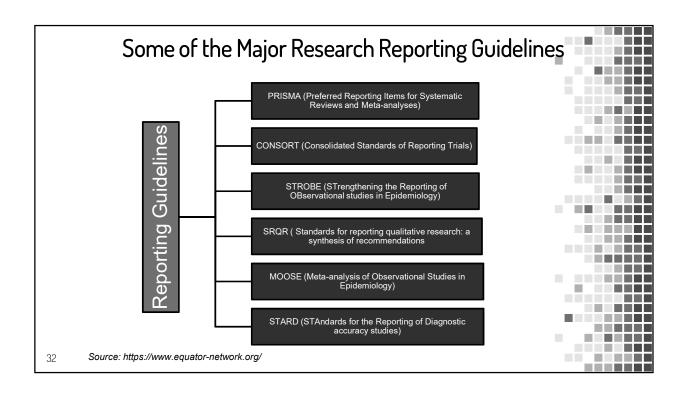
• Be Aware of Fake Journal Metrics

- Advanced Science Index
- Cosmos Impact Factor
- Directory of Journal Quality Factor
- Global Impact Factor
- IndexCopernicus
- International Scientific Indexing (ISI)
- Scientific Indexing Services (SIS)
- Universal Impact Factor, and other fake metrics









Importance of Publication Ethics

- Enhance Institutions and Researchers Reputations
- Open Doors to Collaborations and Funding Body's Interest
- Attract Young Researchers to Institutions/Labs
- Stop Waste of Resources (Time, Efforts and Money)
- Promotes Ethical Practices and Encourage Others to Follow Suit
- Stop Dubious/Predatory Journals & Publishers

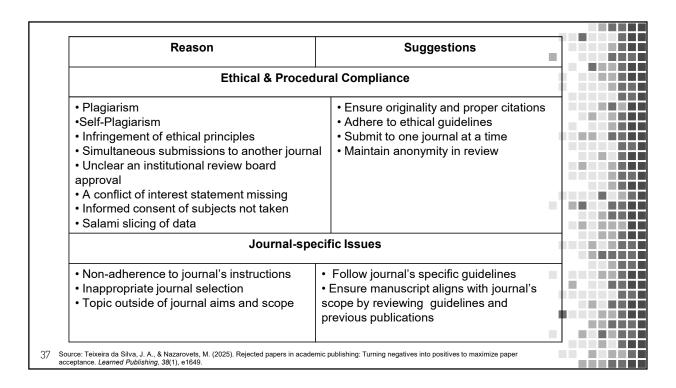
33

Societal and Institutional Recognitions (Awards and Accolades) Provide Facts and Figures to Counter Fake News/Narratives

	ected In (Good) Academic Journals ions for Improvements
Reasons	Suggestions for Improvement
Research Q	uestion & Scope
Weak Research Question Lack of Novelty and a Significant Theoretical Contributions to the Field	Be familiar with extant research & Key Unanswered Questions Clearly Articulate Research Questions
Literat	ture Review
 Failing to Situate the paper in past literature Incomplete literature search Lack of References Outdated Literature Review 	Conduct thorough literature review Situate paper within existing literature Clearly show the contributions to the field

Reason	Suggestions
Manuscript Str	ucture and Clarity
Poor & confusing introductions Poor language & style Poorly written manuscript Excessive length Incorrect formatting Non-academic style of writing Quality of figures not suitable for publication	Provide clear and concise introductions Use engage and modern style Follow journals formatting guidelines Ensure manuscript is concise
Metho	odology
 Poor Study Design Inadequate & Improper Methodology Lack of Evaluation in Innovation Papers Design Errors 	Provide detailed method section Use robust data analysis Include comparative studies and replications

Reason	Suggestions
Results &	Data Analysis
P Inadequate presentations of results Poor statistical analysis Pailure to present results clearly and systematically Misinterpreted and erroneous data	Restate each hypothesis and present results clearly Use tables to summarize results Avoid overly complex analysis
Discussion	& Conclusions
 Unwarranted conclusions Conclusions not supported by data Insufficient discussion Fail to articulate contributions to theory, empirical evidence and practice 	Clearly articulate theoretical, empirical and practical contributions Discuss limitations and directions for future research



India's Policy Interventions on Research Ethics Focus Areas for Policy, Guidelines, and Coverage of the Policy, Guidelines, Organisation Regulations and Regulations **University Grants** UGC (Promotion of Academic Integrity Plagiarism Commission (UGC) and Prevention of Plagiarism in Higher Awareness on Academic Education Institutions) Regulations, 2018 Integrity Higher Education Institutions All India Council for Promotion of academic integrity and Plagiarism Technical Education Awareness on Academic excellence and prevention of plagiarism (AICTE) Integrity AICTE approved Institutions Policy on Conflict of Interest Conflict of Interest Department of Science and Persons applying for and receiving Sanctions for Misconduct Technology (DST) funding from DST Reviewers of proposals Members of Expert Committees and Programme Advisory Committees Source: Association of Publishers in India 38

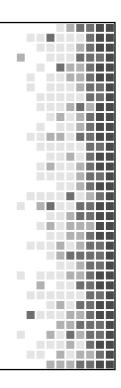
India's Policy Interventions on Research Ethics

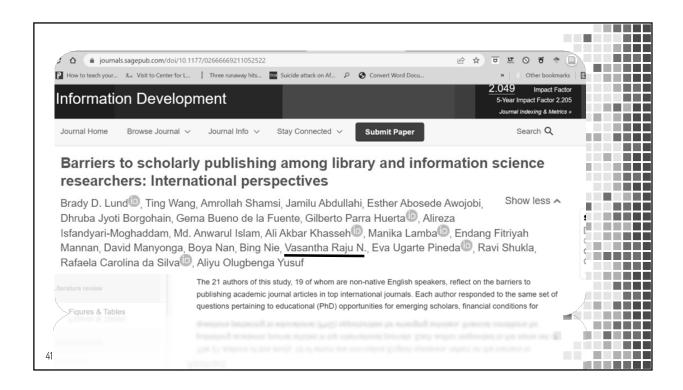
Department of Biotechnology (DBT)	Statement on the handling of allegations of research misconduct. DBT supported Organisations	Addressing Cases of Research Misconduct Sanctions for Misconduct
Indian Council for Medical Research (ICMR)	National Ethical Guidelines or Biomedical and Health Research Involving Human Participants All biomedical, social and behavioural science research for health conducted in India involving human participants	Research Ethics for Biomedical Research on Human Subjects
Indian Council for Medical Research and Department of Biotechnology (ICMR-DBT)	National Guidelines for Stem Cell Research All stakeholders associated with basic and clinical research involving any kind of human stem cells and their derivatives	Ethical guidelines for research involving human stem cells and their derivatives

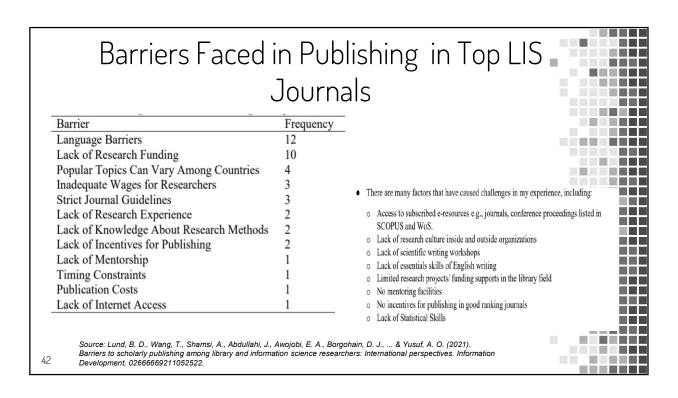
Source: Association of Publishers in India

39

Barriers in Scholarly Publishing & How to Overcome this by adopting Ethical Publication Practices Using Open Science Platforms







Impact of COVID-19 on Scholarly Communications COVID-19 Accelerated Trends Independent Trends Independent Trends Novel Research Metrics (Altmetrics) Artificial Intelligence in Publishing Source: Miller, R. C., & Tsai, C. J. (2020). Scholarly Publishing in the Wake of COVID-19.

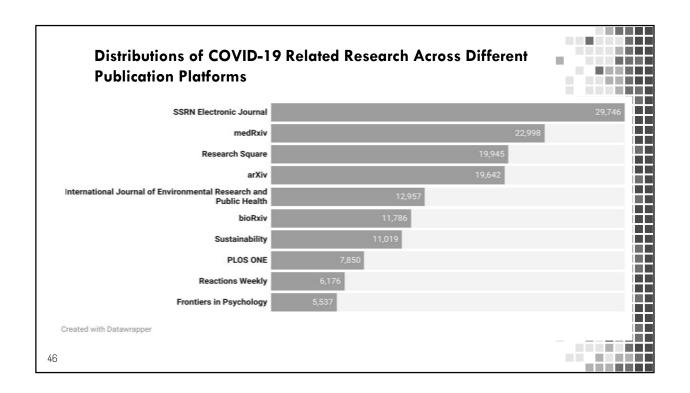
Developments in Scholarly Publishing Landscape

- Acceptance of Preprints by Researchers & Academia
- Post-Publication Peer Review & Open Peer Review & Publish-Review-Curate (PRC) Model
- Modular Assessment of Research (Publication) Process (Octopus/Registered Reports, etc)
- Overlay Journals/Data Journals (Data in Brief)
- Data has become very Important (Replicability & Reproducibility)

https://www.nature.com/articles/d41586-024-03905-17utm source=Live+Audience&utm.campaign=f6686bdab3-nature-briefing-daily-20241203&utm.medium=email&utm.term=0.b27a691814-f6686bdab3-50820948

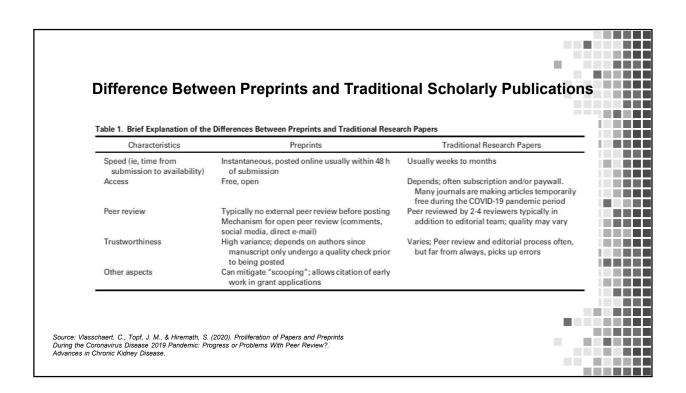
Preprints

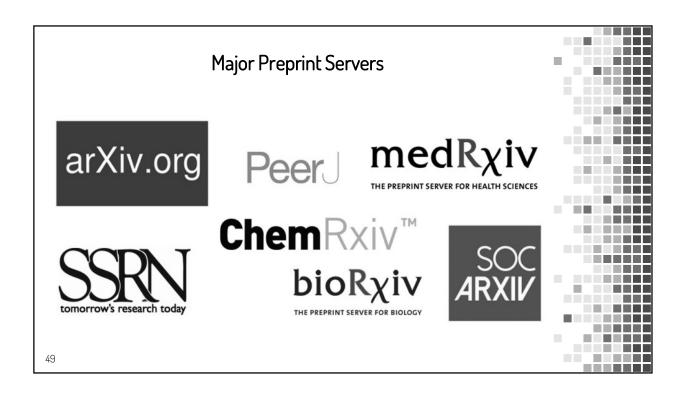
"A preprint is a version of a scientific manuscript posted on a public server prior to formal peer review. As soon as it's posted, your preprint becomes a permanent part of the scientific record, citable with its own unique DOI"



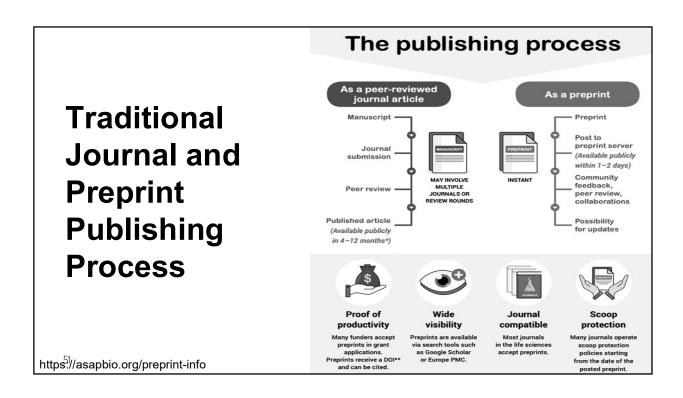
Preprints Benefits

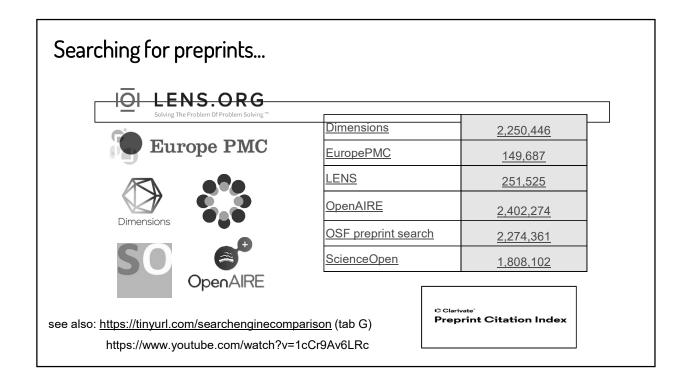
 Rapid Dissemination of Research Results
 Establishing Priority
 Increased Attention (and Citations)
 Career Advancement
 Community
 Unlimited and Timely Updates



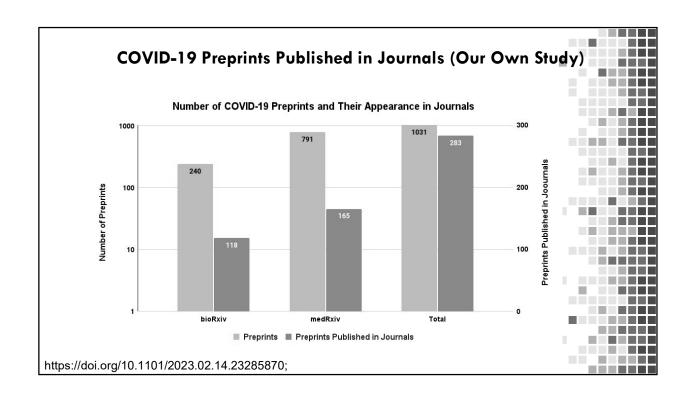


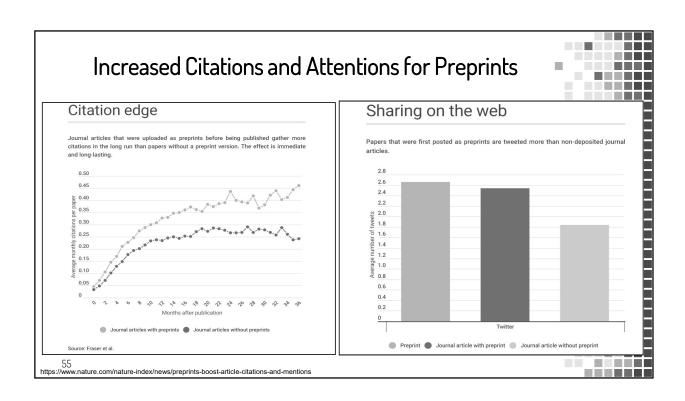






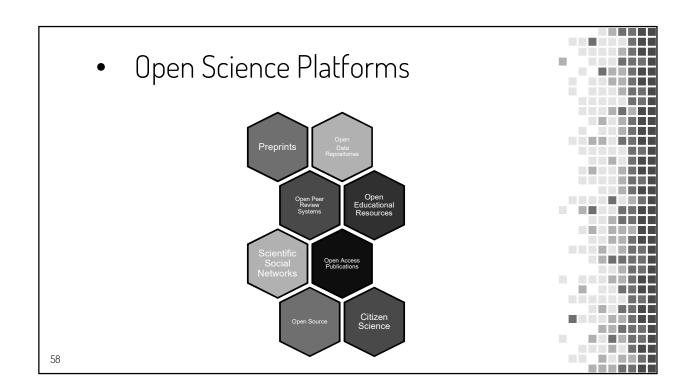
	PID type	DOI-prefix	Crossref member ID	Crossref API	Datacite API	the archive's own reporting	Dimensions	Google Scholar	LENS	<u>OpenAire</u>	OSF	ScienceOpen
AfricAnxiv	Crossref DOI	10.31730	15934 (COS)	122		118	0	72	125	0	118	(in COS
lgriXiv	Crossref DOI	10.31220	15934 (COS)	571		423	0	288	433	413	423	(in COS
APSA Preprints				-		176	0				0	(undefinabl
Arabixiv	Crossref DOI	10.31221	15934 (COS)	344		427	0	159	434	419	427	(in COS
ırXiv	arXiv ID		NA	NA.		1699872	1689963	847000	860676	1680063	1332986	173812
Authorea	Crossref DOI	10.22541	9829	592		3549	0	(undefinable)	2921	0	0	
Seilstein Institut	Crossref DOI	10.3762	2086	220		222	0		215	0	0	
SioHackrXiv	Crossref DOI	10.37044	15934 (COS)	2		2	0	Q	2	0	2	(in COS
iioRxiv	Crossref DOI	10.1101 (mult	246 (CSHL)	(in CSHL)		81997	81256	85900	77273	79274	31502	5262
SodoArXiv	Crossref DOI	10.34055	15934 (COS)	55		55	0	38	54	0	55	(in COS
Cambridge Open Engage	Crossref DOI	10.33774	56 (CUP)	267		238	0		234	0	0	(undefinable
Center for Open Science (COS) archives	Crossref DOI	multiple	15934	57484	31	perate archives)	0	(undefinable)	(55721)	?	(in seperate ar	233
ChemRxiv (ACS)	Crossref DOI	10.26434	316 (ACS)	10459		4642	10103	2320	9816	0	0	(undefinable
Cogprints (discontinued?)	none			NA.		4230	0	(undefinable)	(undefinable)	0	285	
Copernicus	Crossref DOI	10.5194	3145	99542		(NA)	0	(undefinable)	9898	208	0	(undefinable
CSHL archives	Crossref DOI	10.1101 (mult	246 (CSHL)	86747	36	perate archives)	0	(undefinable)	(3178)	?	(in seperate an	(in seperate ar
arthArXiv	Crossref DOI	10.31223	15934 (COS)	1731		1441	0	668	1575	1365	1441	(in COS
coEvoRxiv	Crossref DOI	10.32942	15934 (COS)	221		209	0	134	216	0	209	(in COS
conStor	Econstor handle			NA.		119955	0		(undefinable)	76569	0	(undefinable
CSarXiv	Crossref DOI	10.1149	77	123		<u>120</u>	. 0	83	118	11	<u>120</u>	(in COS
	Crossref DOI	10.35542	15934 (COS)	514		454	0	234	506	0	454	(in COS





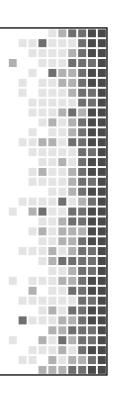


- Publish/Deposit your research in open platforms such as preprints
- Create awareness on the potential advantage of posting preprints among teaching community
- Share Preprint related resources/ Tool Kits (e.g., ASAPbio (Accelerating Science and Publication in biology)
- Share your research data through open data repository platforms (e.g., figshare, Zenodo, dataverse, GitHub, etc.)
- Have your own ORCID and Other researcher ID (Google Scholar Profile, Scopus Author ID, WoS Research ID)
- Encourage Open Science Policies at local/state /country level

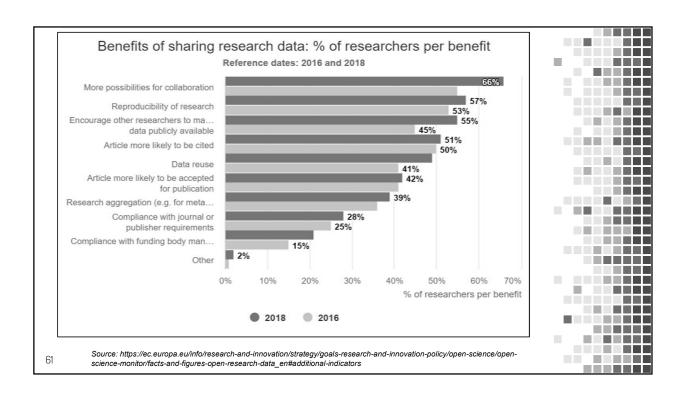


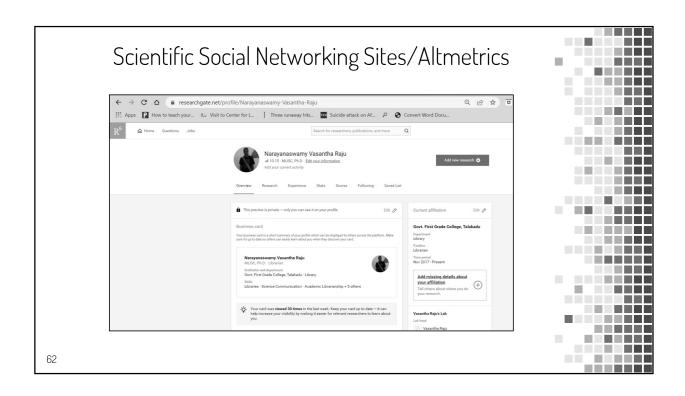
Open Data Repositories

Open research data refers to the data underpinning scientific research results that has no restrictions on its access, enabling anyone to access it.







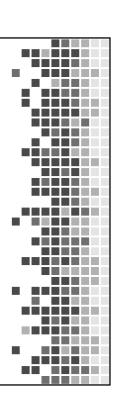


THANKS! Any questions?

You can mail me at: vasanthrz@gmail.com

Presentation template by SlidesCarnival

63





St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"



Prof. Dr. Lancy D' Souza,
Professor & Head,
Department of Psychology,
Maharaja's College, Mysore







Day 6 "Data Collection and Analysis"



BRIEF CV DR. LANCY D'SOUZA, PROFESSOR OF PSYCHOLOGY



Dr Lancy D'Souza was graduated in B.Sc from Mangalore University, later continued his post graduation in University of Mysore in Psychology. He obtained his Ph.D degree from the University from Mysore. He has obtained diploma in Bio-diversity from the Inuyama University, Kyoto. Later he joined as a lecturer at Maharaja's College, University of Mysore, Mysuru. At present he is working as a Professor of Psychology, Maharaja's College, Mysuru. Dr. Lancy D'Souza is serving as board of studies and board of examinations in several universities and autonomous colleges of few states.

Dr Lancy D'Souza has extensively worked on shyness as thrust area of research. Also, he is working on addiction to social media and sleep quality on students of both professional and non-professional courses. Dr. Lancy D'Souza has already published 250 articles in national and International journals. He is in the editorial board of 7 journals. He has edited 4 books on emerging trends in behavioral sciences. He has successfully guided 34 students for doctoral degree (Psychology, Criminology and Forensic Sciences) including foreign students, one candidate for post-doctoral degree and 25 students in M Phil degree. At present he is guiding 12 students for doctoral degree.

He is the recipient of prestigious IPA President's Gold medal award in the year 2017 for excellence in Psychology. He has been awarded best paper awards both in National and International conferences along with his co-authors. Along with his team he has developed PUBG Addiction Test (PAT) first time in the world. He has also developed tools on shyness assessment test (SAT), couple shyness questionnaire (CSQ), Shyness Subtypes questionnaire (SSQ), Life skills questionnaire (LSQ) and health & criminality proneness questionnaire (HCPQ).

Dr. D'Souza has visited more than 35 countries including France, Switzerland, United Kingdom, Germany, Japan, Australia, Iran, Netherlands, Africa, Russia and Malaysia. He has participated in several national and International conferences and presented papers /chaired sessions too. He was the principal investigator of UGC funded project on Shyness. He is the statistical/research consultant for several institutes in Karnataka and other states.

DATA ANALYSIS AND STATISTICAL TOOLS

By
Dr. Lancy D'Souza
Maharaja's College
University of Mysore

Data

- Categorical
- Numerical

SCALES OF MEASURMENT

- Nominal
- Ordinal
- Interval
- Ratio

Types

- Descriptive vs predictive vs Inferential
- Parametric vs non parametric
- Univariate vs multivariate
- Basic vs applied

Types of descriptive statistics...

- 1. Graphical representations
- 2. Measures of central tendency
- 3. Measures of variability
- 4. Measures of relationship
- 5. Others-Sten, T scores, Z scores

Types of graphical displays

- Bar diagram/column diagram/Hisrogram
- Frequency polygon/Line diagram
- Cumulative percentage graph (Ogive)
- Pie chart
- Scatter diagram
- Pictograms
- Area Graphs
- Other types

2. Measures of central tendency...

- Mean
- Median
- Mode
- Geometric mean
- Harmonic mean

METHODS OF MEASURING VARIABILITY

- Range
- Quartile Deviation
- Mean Deviation (Average deviation)
- Standard Deviation
- Variance
- Standard Error (SE)
- Co-variance

Role of statistics in Sample size

- Justify your sample size using any specific formula based on type of study
- Observational/cross sectional
- Interventional
- Survey research

Hypothesis Formulation

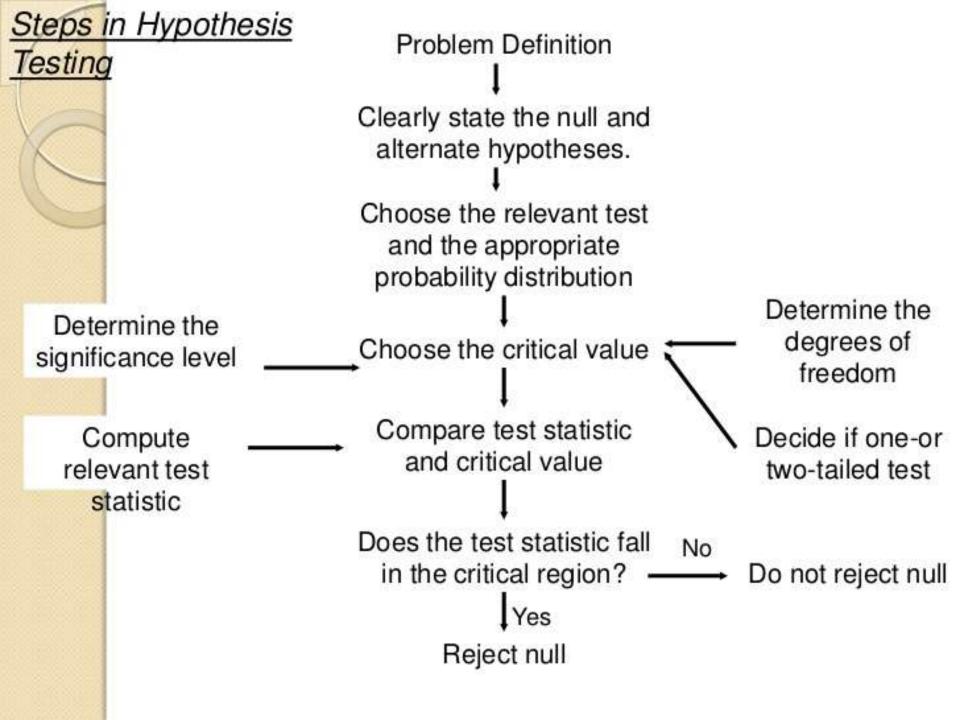
- Null hypothesis
- Alternative hypothesis
- Directional hypothesis

	Type	Difference based	Relationship based			
E	Null	Male and female students do not differ significantly in their extent of usage of library services	•			
x a m p I	Alternative	students differ	Number of hours of mobile usage and use of library services are significantly related to each other			
e s	Directional	Female students use significantly more library services than male students	Higher the mobile usage, significantly, lesser the use of library services Or Number of hours of mobile usage and use of library services are negatively and significantly related to each other			

ANALYSIS OF DATA

 Before you subject the quantitative data for analysis subject to normality check

- 1. Shapiro-Wilk test (N<50)
- 2. Kolmogorov-Smirnov test (N>50)



Parametric

Difference

Testing

Non parametric

Relationship

Difference

Relationship

Consider

- -what kind of data you have -categorical or numerical?
- -What is required difference or relationship
- -What type of statistics you would opt –

 parametric or non parametric
- -Statistics- manual or software? Or outsource?
- -Normality check?

Parametric DIFFERENCE BASED TESTS TWO GROUPS

t TEST

INDEPENDENT
SAMPLES
Or
Z Test

PAIRED SAMPLES

ONE SAMPLE 't' TEST

More than 2 groups

ANOVA

- -ONE WAY
- UNIVARIATE ANOVA
- MULTI VARIATE ANOVA
- REPEATED MEASURE ANOVA

ANCOVA

POST HOC TESTS

- --LSD
- -DUNCAN'S MULTIPLE RANGE TEST
- -SCHEFFE'S HSD
- -TUKEY'S POST HOC TEST
- -BONFERRONI
- -DUNNET'S

Parametric RELATIONSHIP BASED TESTS

- CORRELATION Pearson's product moment
- PARTIAL CORRELATION

REGRESSION

REGRESSION

SIMPLE

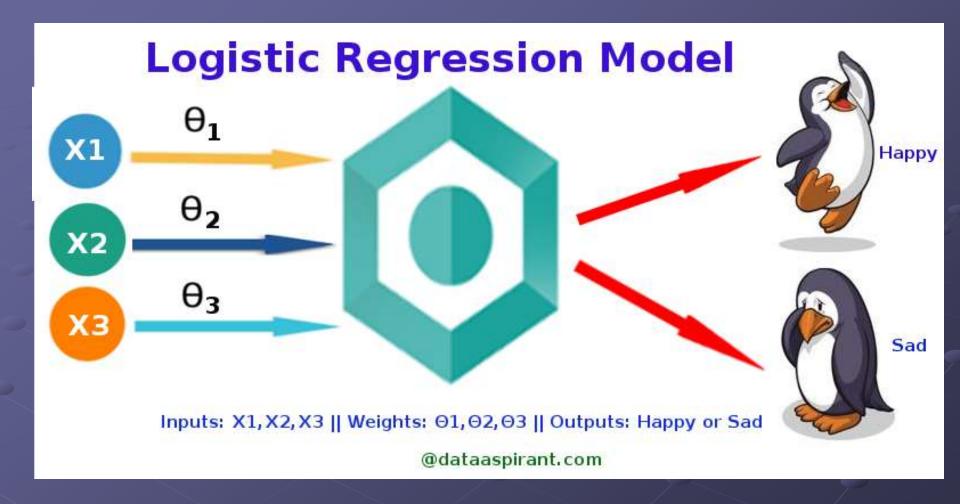
MULTIPLE

NON-PARAMETRIC DIFFERENCE BASED TESTS

- -Chi-square test
- -Mann-Whitney U test
- -Wilcoxon Signed rank Test
- -Kruskal Wallis One-way ANOVA

RELATIONSHIP BASED TESTS (NON-PARAMETRIC)

- -Spearman's Rank difference correlation
- -Contingency co-efficient test
- -Cramer's V
- -Regressions
- -Binomial and Multinomial Logistic regressions



Important considerations

Before testing any data check for normality

- If the data is not following normality apply non-parametric tests even if data is parametric
- If data is less apply non-parametric tests even if data is parametric
- If data is less than 5, don't apply any statistics, go only for descriptive statistics

Significance levels

levels

.05 (95%) Sig. .01 (99%) Highly sig .001 (99.9%) Very highly sig.

Verification of the hypothesis

	Results			
Hypothesis	Significant	Non- significant		
Null	Reject	Accept		
Alternative/ Directional	Accept	Reject		



Choosing Statistical Procedures

	One Independent Variable			Two Independent Variables		
Measurement	Two Levels		More than 2 Levels		Factorial Designs	
Scale of the Dependent Variable	Two Independent Groups	Two Dependent Groups	Multiple Independent Groups	Multiple Dependent Groups	Independent Groups	Dependent Groups
Interval or Ratio	Independent t-test	Dependent t-test	One-Way ANOVA	Repeated Measures ANOVA	Two -Factor ANOVA	Two-Factor ANOVA Repeated Measures
Ordinal	Mann- Whitney U	Wilcoxon	Kruskal- Wallis	Friedman		
Nominal	Chi-Square		Chi-Square		Chi-Square	

Error

Type I error is what happens when the tested hypothesis is falsely rejected. (It is when you say you found something, but that something is really an error.) A type I error is a false positive.

Type II error is what happens when a false tested hypothesis is not rejected (Hays, 1986). (It is when you don't find something that is, in fact, there.) A type II error is a false negative.

Error

- Type-I error: False Alarm for a bogus effect
 - reject the null hypothesis when it is really true
- Type-II error: Miss a real effect
 - fail to reject our null hypothesis when it is really false
- Type-III error: :-)
 - lazy, incompetent, or willful ignorance of the truth

Examples of type I errors

- a test that shows a patient to have a disease when in fact the patient does not have the disease,
- a fire alarm going on indicating a fire when in fact there is no fire, or
- an experiment indicating that a medical treatment should cure a disease when in fact it does not.

Examples of type II errors

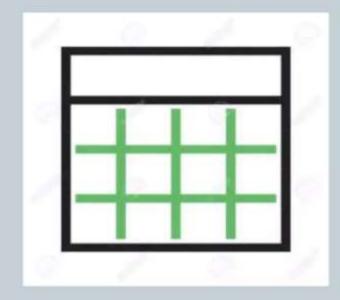
- a blood test failing to detect the disease it was designed to detect, in a patient who really has the disease;
- a fire breaking out and the fire alarm does not ring; or
- a clinical trial of a medical treatment failing to show that the treatment works when really it does

Results

- Use graphs and tables if appropriate, but also summarize main findings in the text.
- Do NOT discuss the results or speculate as to why something happened; that goes in the Discussion.
- Not necessarily have to include all the data gotten during the semester.
- Use appropriate methods of showing data.
- No need to manipulate the data.

Results (Tables/Graphs)

- If the data is presenting in a table or graph, include a title describing what's in the table
- For graphs, it should also labeled the x and y axes.
- No need to use a table or graph just to be "fancy".





Softwares for data analysis

- SPSS
- JASP
- Systat
- R and R studio
- Minitab
- NCSS
- Epistat
- Statview

THANK YOU

lancyd@ymail.com





St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"



Valediction

Respected Faculty members, Your feedback matters



11th January 2025



MYSORE CARITAS CENTIA

St. Philomena's College

(Autonomous), Mysore-15

Faculty Development Programme - 2025

SIX - Day Faculty Development Programme for the faculty members of UG & PG programmes Organized by the IQAC

A REPORT ON

THE SIX-DAY FACULTY DEVELOPMENT PROGRAMME (FDP) ON

"Empowering Educators : Advanced Research Methodologies and Strategies for High – Impact Publications"

DATE: ON 06th January 2025 – 11th January -2025 TIME - 02.00 PM to 04.30 PM

VENUE: COLLEGE AUDITORIUM

A REPORT ON THE SIX-DAY FACULTY DEVELOPMENT PROGRAMME (FDP) ON "Empowering Educators: Advanced Research Methodologies and Strategies for High – Impact Publications"



This report is submitted to present the details of the six - day FDP programme organized by the IQAC – Internal Quality Assurance Cell on 06th January to 11th January 2025, held in our college Auditorium.

The one week long FDP programme provided participants a comprehensive understanding of Research Methodology: Tools & Techniques and specially designed initiative aimed at equipping higher education teachers with the knowledge and skills required to excel in research and academic publishing. This programme was designed to be generic in nature for satisfying the needs of faculty pursuing their PhDs from academic institutions to provide them insights into cutting- edge research methodologies, data collection, design of experiments and statistical tools for analyzing data, strategies for crafting compelling manuscripts for top-tier journals also about the oral and written communication of research and dissemination the research outcome.

ABOUT PARTICIPANTS All the Research Scholars and academicians from different departments of the Undergraduate and Postgraduate programmes of St.Philomena's College (Autonomous), Mysore attended the FDP programme.

OBJECTIVES OF THE PROGRAMME

- 1. Improve Research skills.
- **2.** To acquaint the participants about various software packages and tools available for simulation and data analysis.
- **3.** To improve publication outcomes and empower educators.
- **4.** To encourage networking and collaboration among educators to promote interdisciplinary research.



The Faculty Development Programme (FDP) commenced with an inaugural session organized by the Internal Quality Assurance Cell (IQAC), was conducted at the college auditorium. Dr. Deepa V, Co-coordinator, IQAC, Assistant Professor, Department of BBA, had played the role of Master of ceremony. The official inauguration was symbolized by watering of saplings – To Nurture the Growth of Faculty members by the Guest of Honor and the Speaker, Prof. Dr. Krishnaveni, Professor, Department of Studies in Physics, University Of Mysore, Rev. Dr. Lourdu Prasad Joseph, Rector, and Rev.Fr. Jnana Pragasam, Administrator, Rev. Fr. David Sagayaraj S, Assistant to Rector, Dr. Ravi J D Saldanha. Principal, Mr. M. Nagaraj Urs, Vice Principal (Administration), Mr. Ronald Prakash Cutinha, Vice Principal (Administration), Mr. A. Thomas Gunaseelan, Coordinator, IQAC.

Mr. A. Thomas Gunaseelan, Coordinator, IQAC, delivered the welcome speech, setting the tone for the event.

Inaugural Address

The Rector - Rev. Dr. Lourdu Prasad Joseph delivered the inaugural address, welcoming participants to the FDP Programme. Emphasizing the importance of higher education, the Rector highlighted the need for innovative methodologies. The address also acknowledged the efforts of the Internal Quality Assurance Cell (IQAC) in organizing the event.

IntroductionofiSpeaker

Dr. Sunil D' Souza, ICT Coordinator, Assistant Professor, Department of BCom, introduced the speaker, paving the way for the FDP's academic sessions.

DAY 1 - 06.01.2025

SESSION: 1

RESOURCE PERSON: PROF. DR. KRISHNAVENI, PROFESSOR, DEPARTMENT OF STUDIES IN PHYSICS, AND UNIVERSITY OF MYSORE.

TOPIC: "RESEARCH FOUNDATIONS AND LITERATURE REVIEW" SALIENT FEATURES: INTRODUCTION TO RESEARCH PARADIGMS *IDENTIFYING GAPS AND FRAMING RESEARCH QUESTIONS *TOOLS FOR LITERATURE REVIEW (ZOTERO, MENDELEY, ETC).



On day 1, Prof. Dr. Krishnaveni, delivered session on introduction to research basics of research, objectives of research, scientific approach of research, significance of research, scope of research, various steps in conducting a research, various phases of research funding, research methodology etc. Prof. Dr. Krishnaveni discussed about how one can use efficiently scientific language of writing. Also gave information about Classification and Research foundation. Prof. Dr. Krishnaveni emphasized on theoretical framework, problem statement and objectives of research and Tools like Zotero and Mendeley are introduced to help manage references and streamline the literature review process. These tools simplify organizing large volumes of academic papers and citations, which are crucial for impactful research.

DAY 2 - 07.01.2025

SESSION: 2

RESOURCE PERSON: DR. MOHAMMED MINHAJ, DEAN- ACADEMICS, SDMIMD, MYSORE.

TOPIC: "HARNESSING AI FOR ADVANCING RESEARCH PRACTICES"

SALIENT FEATURES: ACCELERATING LITERATURE REVIEW AND MANAGEMENT

RESEARCH DATA

*AI IN ADDRESSING PLAGIARISM AND AI ENHANCEDANALYSIS AND VISUALIZATION
*REFERENCES AND CITATIONS- MANAGEMENT.



On day 2, DR. MOHAMMED MINHAJ, delivered session on the use of Artificial Intelligence (AI) in research is emphasized as a modern necessity. AI can: Automate literature reviews. DR. MOHAMMED MINHAJ discussed about how one can use efficiently Detect and prevent plagiarism, Assist in data analysis and visualization. Participants learn how to integrate AI tools effectively into their research processes, which not only saves time but also improves the quality and accuracy of their work.

DAY 3 - 08.01.2025

SESSION: 3

RESOURCE PERSON: DR. HARSHA, CHAIRMAN, DEPARTMENT OF ENVIRONMENTAL

SCIENCE, DIRECTOR (R&D) AND SPECIAL OFFICER -PHD CELL, KSOU, MYSORE.

TOPIC: "FUTURE RESEARCH DIRECTIONS AND COLLABORATION"

SALIENT FEATURES: EXPLORING INTEARDISCIPLINARY AND COLLABORATIVE

RESERCH OPPORTUNITIES

*EMERGING TRENDS IN ACADEMIC RESEARCH

*BEST PRACTICES FOR SUSTAINING RESEARCH PRODUCTIVITY.



On day 3, **DR. HARSHA**, delivered session on This session prepares participants for future challenges and opportunities in academia: Emphasis is placed on interdisciplinary research, which fosters innovation by combining knowledge from different fields.

DR. HARSHA discussed about how one can use efficiently scientific Insights into emerging trends such as sustainability, technology-driven studies, and datadriven decision-making are shared. Strategies for building collaborations across institutions and disciplines are explored to enhance the reach and impact of research.

DAY 4 - 09.01.2025

SESSION: 4

RESOURCE PERSON: PROF. DR. G.S. PREMAKUMARA, PROFESSOR, DOS IN ECONOMICS,

SIR MV PG CENTRE, UOM, TUBINAKERE, MANDYA.

TOPIC: "RESEARCH METHODOLOGY AND DESIGN"

SALIENT FEATURES: UNDERSTANDING THE ANATOMY OF A RESEARCH PAPER

*WRITING EFFECTIVE ABSTRACTS, INTRODUCTIONS AND DISCUSSION

*MANAGING REFERENCE AND AVOIDING PLAGIARISM.



On day 4, PROF. DR. G.S.

PREMAKUMARA, delivered session on Structuring and Writing a Research Paper Writing a well-structured research paper is essential for publication in reputed journals. This session helps participants: Understand the anatomy of a paper (e.g., abstract, introduction, methodology, results, and discussion). PROF. DR. G.S.

PREMAKUMARA emphasized on Develop skills for writing clear and compelling abstracts, cohesive discussions, and concise conclusions. Address common issues such as plagiarism and manage references using citation software

DAY 5 - 10.01.2025

SESSION:5

RESOURCE PERSON: DR. VASANTHA RAJU N, PRINCIPAL (INCHARGE) & LIBRARIAN, GFGC, TALAKADU, MYSORE.

TOPIC: "PUBLICATION ETHICS AND NEW SCHOLARLY PUBLISING MODELS"

SALIENT FEATURES: HOW TO CHOOSE THE RIGHT JOURNAL (SCOPUS, WEB OF SCIENCE, UGC CARE)

*NAVIGATING THE PEER REVIEW PROCESS

*STRATEGIES FOR ENHANCING ACCEPTANCE RATES.



On day 5, DR.VASANTHA RAJU N, delivered session on Publication Ethics and Scholarly Publishing Models. This session focuses on ethical research and selecting the right platforms for publication. Topics include: Guidelines for identifying credible journals indexed in Scopus, Web of Science, or UGC CARE.

DR. VASANTHA RAJU N emphasized on Understanding predatory journals and avoiding unethical publishing practices. Strategies for navigating the peer-review process and increasing acceptance rates.

DAY 6 - 11.01.2025

SESSION: 6

RESOURCE PERSON: PROF. DR. LANCY D'SOUZA, PROFESSOR AND HEAD, DOS IN

PSYCHOLOGY, MAHARAJA'S COLLEGE, MYSORE

TOPIC: "DATA COLLECTION AND ANALYSIS"

SALIENT FEATURES: SELECTING AND USING STAISTICAL TOOLS (SPSS, R, ETC)

*QUALITATIVE DATA ANALYSIS TECHNIQUES (THEMATIC ANALYSIS, NYIVO)

*DATA VISUALIZATION FOR RESEARCH PRESENTATION.



On day 6, **PROF. DR. LANCY D'SOUZA**, delivered session on Data Collection and Analysis. This session provides hands-on training in collecting, analyzing, and presenting data effectively. Statistical tools like SPSS and R are introduced to analyze quantitative data.

PROF. DR. LANCY D'SOUZA

emphasized on Qualitative analysis methods, such as thematic analysis using NVivo, is taught. Participants also learn data visualization techniques to enhance the impact of research presentations.

Expected Outcomes:

- 1. IMPROVED RESEARCH SKILLS AND COMPETENCIES.
- 2. ENHANCED UNDERSTANDING OF RESEARCH METHODOLOGIES AND INNOVATIONS.
- 3. EFFECTIVE INTEGRATION OF TECHNOLOGY IN RESEARCH.
- 4. CONTRIBUTION TO THE DEVELOPMENT OF HIGH-IMPACT RESEARCH.

VALEDICTORY SESSION



The FDP was concluded with valedictory function on 11th January, 2025. In the Valedictory session, Prof. Dr. Lancy D'Souza, Professor and Head, DOS in Psychology, Maharaja's College, Mysore, Rev. Dr. Lourdu Prasad Joseph, Rector, and Rev.Fr. Jnana Pragasam, Administrator, Rev. Fr. David Sagayaraj S, Assistant to Rector, Dr. Ravi J D Saldanha. Principal, Mr. M. Nagaraj Urs, Vice Principal (Administration), Mr. Ronald Prakash Cutinha, Vice Principal (Administration), Mr. A. Thomas Gunaseelan, Coordinator, IQAC, Dr. Deepa V, Cocoordinator, IQAC, Assistant Professor, Department of BBA, were present. Mr. William Joseph, Assistant Professor, Head, Department of English, had played the role of Master of ceremony. The welcome speech was given by Rev. Sr. Angeline Vimal, Assistant Professor, Department of English and The valedictory speech was given by Rev. Dr. Lourdu Prasad Joseph, Rector, congratulated the Coordinators and Organizing Committee for successfully conducting FDP, he also appreciated the FDP theme. The vote of thanks was given Dr. Deepa V, Co-coordinator, IQAC, Assistant Professor, Department of BBA; she highlighted the immense contribution of the Organizing Committee members and experts. Feedback by the participants and All the participants were distributed with the participant certificates on successful completion of SIX-DAY FACULTY DEVELOPMENT PROGRAMME (FDP) ON "Empowering Educators: Advanced Research Methodologies and Strategies for High – Impact Publications".







Drafted by Dr. Yamuna. B. Raj, Assistant. Professor Department of Journalism and Mass Communication, St. Philomena's College, (Autonomous,) Mysore.

Photography by, Mr. Swamynathan. A, Office Section, St. Philomena's College, (Autonomous), Mysore.



St. Philomena's College (Autonomous) Bannimantap, Mysore

6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

06th - 11th January 2025







Feedback



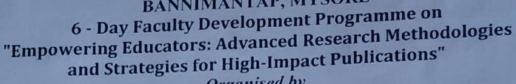




17

18

ST. PHILOMENA'S COLLEGE (AUTONOMOUS) BANNIMANTAP, MYSORE





Organised by

Internal Quality Assurance Cell (IQAC)

06th to 11th January 2025				
DAY 1:06th January 2025 (01:30 pm to 04:30 pm) Session 1: "Research Foundations and Literature Review" DEPARTMENT UG/PG SIGNATURE				
	Session 1: "Research Foun	dations and literate	HG/PG	SIGNATURE
SL.NO		DEPARTMENT	UG/IG	
1		C	06	Cong
	William Joseph. 1	ENGLISH.		100
2	Dr Sunil DSouza	Commerce	06	120-
3	Son. Vimal Angeline	English	UG	Anglin
4	Dr. Sadia Tabassum	MBA	PG	- Sall-
5	Dr. Davyashree N.	MBA	PG.	Denjohn
6	Dr. Davyashree N. Ms. Bindushree	MCA	P5	塑
7	Ms. J. Sandra Agres.	BCA	UG	7
8	Me Rashui Vincia	Sociology	UG	Ro .
9		Kannada	UG	May
10	Mary Mireditha Dr. Yanuna B. Raj	Tournation	Uq	Dry
11	Gloringa Pringa darshim	BCA	ug	Seprits-
12	Manasa £	ВСА	UG	
13	Lydia Anjali A	BCA	UG	1
14	Radhilda H.J	MBA	pa	Radillo
	Roopa Selveva. I	English	VG	Toop

UGI

06

UG

SLNO NAME DEPARTMENT UG/PG 20 Kawitha R Commerce Uh 21 Or Florta Alexander Commerce Uh	Sugnitive to SIGNATURE to
SLNO NAME DEPARTMENT UG/PG 20 Kanitha R Commerce Uh 21 Or Florta Alexander Commerce Uh	SIGNATURE &
20 Kanitha R Commerce Uh 21 Or Florta Alexander Commerce Uh	the
21 Or Floria Alexander Commerce UG	the
Dr Florta Alexandor Commerce	
	. /
AMREEN KOUSAR Commerce 09	0
Systa Farhana Varreen Minobiology 04	Barren
Wienobiolog/ ES UG	Hamal (21h)
YASHASWINI. V. Biochemistay PG	She V
NIVEDITHAS Brochemistry PG	2 Canditaes
DHANUJA-B Blockemistry PG	Dhamjail
20 Rama Joyce-1 English PG	26-
Mary Sofia 2 Zoology UG	108-
Dorothy P Botany VG	A-
Jeevitha baldanha Botany UG	de
Neena-PK Zoolow Jaco	ARY.
Many here J Food Se Ep N UG	A
Magis Antonius Envisonmentales UG	Ne
Sueda Masarath Computer Science UG	8m
ARCHANA A BCA UG	
37 Harnakshi BSC UG	Loin,
30 Garacett M.	
	P.h.Q.
40 Prophymo BSW UN	1 Jeus Pro
JUHIE SING-11 Commerce UG	1
Dr. Bownya P Bociology UG	1
Sowmunchree-M Francis 110	0
Fathim of an a	lugar
Transmusa Begum Urdu UG	Jate [



	10	NAME	DEPARTMENT		
		Peria Noeyagamala	Phy Scheelelon	UG/PG	SIGNATURE
1	45	Dr. Reena Francis		09	4
F	46		Commerce	UG	(Inte
		Alidyo. y.	Comminology &		10 T 1 le
	47		togensic Science	UG	
	48	Conana II.	Criminology and Folencie Science	UG	Meghana R
	10	Paoja H.R	Food Science Entitles	Va	(2001)
	49	Clands	0		
ľ	50	Chardanas	Physics	UG	Chans
1	51	Vibha. M.M	Msc. mathemaka	PG	Stell-
1	51	Neethy . C. I	11 10 10		Neethu
Ī	52		Matternatice	U61-	
1	53	Piniyanka Olivera	BBA	UGI (Toyanta
		Shouthi Menezer	Matternatics	UG	A CONTRACTOR OF THE PARTY OF TH
	54	A .	504		Asheia
	55	Asshiya Khanum	BBA	ug -	Transfer
	56	BABU.\$	malayalan	UG	Skins
		Dr. Issac George.	MBA.	Pa.	1855
	57	Dr. Siema Siddigi	M. Se (Food Science)	P61	Oldin'
	58	Kaneez Halema	MSC (Foodseie)	PG	#
	59	Dr. PRASHANTH. D. A	History	UG	W 8 1
	60	Eliezer Mishwas	Physics	UG	Sec.
	61	VARSHINI. S	PG Commerce	PG	Vanstone-8
1	62	Namitha Jois K.S	PG Economics	Pa	Naca
	63	Amerin Jaj	PG Commence	PG	- Lunia
	64	Nidhi. Gurmadi	PG English	PG	- Bale
	65	Indhushri L.M	PG Psychology	PG	DL.50
	66	Кидихеуанорра	Political science	ug	dig
	67	CHANDAN SAMUEL	BBA	Ul	Can
	68	Mathew C	13-5 W	06	mu,
(69	Prakash Amloppa	History	ub	1

SL.NO	NAME	DEPARTMENT	To be	Latertan P*
70		DEPARTMENT	UG/PG	SIGNATURE
71	Hencista Fernandes	M. Sc CS	Pg.	Heo
72	Amendera Naire	M.sc CS	Pg	AGO
73	Monica-B	Chemistry	UG	Hoof
74	Blerry George	Biochemistry	UG	Bhur
75	Samyulta Madhay Josh.	Biochemistry	UG	Brok.
76	Deeksha. N	BCA	UG	7/1
77	Bownya Mathew	BVoc	09	haltero
78	Dr. Angelina	BVOC HT	UG	
79	Shrith H-R.	Computer	063	tug!
	-Anusha. v.s	Computer 1		
80	Raviraja I.v	Computer (BLA)	,0,6	- Pin Wa
81	301. ALPHONSUS D'SOUZA	B. VOC-MEE	Uq.	Ro-is
82		Chemisty	06	1 Jours
83	Ajay Anthony-G Navya P.	BCA	ug	wiany
84	Part	BCA.	09.	langet
85	Priyanka MK	BCA A	UG	12 a ba
86	Dr. Joannine A.P	Hirdi	ven	1
87	Nazije Habeeb M.	Biotechnology	NG	6/1/2
88	Johnson Arul Raj L	English	UGr	Carl.
89	Johnson And Raj. L. Evelyn christy M	English French	UG	bulto
90				
91				
92				1
93				
94				



ST. PHILOMENA'S COLLEGE (AUTONOMOUS) BANNIMANTAP, MYSORE

6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"



Organised by

Internal Quality Assurance Cell (IQAC)

06th to 11th January 2025 Day 2: 07th January 2025 (02:00 pm to 04:30 pm) Session 2: "Harnessing AI for Advancing Research Practices" SL.NO SIGNATURE DEPARTMENT Arshiga thanum BBA UG Sor. Ang cline Gnglish UG Peria Nayagamnals phy - Education 09 Pen Radiilla. H-5 MBA Prinjanka Olivera BBA 00 Neether . C. J Mother motics UGi -Hynn Sylva D Soil a Chimistry (1Cx Tough Ashaming Joya Ranthan CHES 1)07 Nithya Johnson Psychology UG 10 Food Science Pooja H.R 106 11 Chandana. S Physics UG 12 Criminology & Forunsic Science Midera. y. UG Criminology and Forensic Science Meghana . To UG 14 Harinakshi 13 SC UG 15 trchana A BCA 1)6 16 Dyeda Masarath BCA UG 17 dydia Anyali BLA VG. 18 Manasa E BCA ()5 19 Jorothy . P Bokany UGZ

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATURE
20	Mary Sofia · I	Zoology	UG	108
21	Mary Irene J	Food Sc & N	VG	and the second
22	Mijaskis Antonius	Environmental Beience/Biotech	V61	2/K
23	Rin Bronce	BBA-TH	UG	90
24	Byeder Farhana Parwen	Micro biology	va	barren
25	Sowmyashree M	Economics	U.G	lugary
26	De Sainya 7	Bociology	ug	1
27	Sangeeka no	Zoology	09,	Lohna.
28	(Deepthym)	BSW	UG	()enfo
30	Dr. Yannung BRaj	Tournalism	09	Dry
31	JUHIE SINGH	Commune	va	or Gally
32	UZMA BATHOOL	Microbiolog/ (ES	UG	Tradally
33	I d'andre Agner	BCA	UG	Je Da
34	Plazige flabeeb M.	Biotechnologi)	25
35	Marie Vincia	Sociology	UG	Pallytha
36	Mary Niveditha Blesse Guerra	kannada	UG	Mass 32/01/25
37	Samyurita Madhar Jost.	Biochemistry	UG	Brun San-No.
38	Dr. Reena Francis	Commerce	UG	Orte
30	Navya P.	BCA.	VG	Quy!
10 /	Priyanka MK	BCA	UG	Pajale
11	Decksha. N	BCA	UG	Deelyhad
42 1	ydiya Vandana	Biochemie For	PG C	July Varia
43	Peere mf vu	Mea	P6	Bity
44	Bindushree £	MCA	PG	A 11125
100				1 off

1	70	NAME	DEPARTMENT	UG/PG	
1	45	Gloriga prieja darslien			SIGNATURE
	46	क्रिक्टिंग्टर्ज. 2.50.	8-3.15	ид	Egning
	47	CHANDAN SAMUEL	BBA	Ulr.	estasti-
	48	Dr. Issac George	MBA	1267	L/856
	49	Dr. Pormhu A.P	tendi	veg	TW
	50	Do Plote Abrando	Comorce	UG	10/
	51	AMREEN KOUSSAR	Commerce	09	MRS
	52	Kani Ha. R	Commerce	Uh	Kathel
5.	3	Suprithe R.	Commerce	UG	Puritha
54	4	PRAKASH ARUZAPPAMI	HISTORY	uv	2 3
55	7	Anand C	Political Science	ug	Ob 8
50	4//			ı	Nators
57		Namitha Jois K.S	Ewnomics	Pa	Narshine .3
58		VARSHINI. S Amoun Jaj	M.com	PG PG	- Junio
59					11
60		Hencieta Fernandes	M.Sc CS	PG	Ituo.
61	10	Ameutha Wair.	MSC CS	PG	And.
62		Anusha. V-S	BIA	06	An Mis
		Harrock-A	M-Sc Computer Swiner	79_	Hano Cod
63		Ravinaja. D.V	B. VOC-MEE	uq	Roll
64		Roopa Selveia. J	English	VG	Koop
65	1	Touiles Prince M	English	UG	A.
66	10	Tenifer Priya M	BVOC HT	UGI	Anglo
67		hangeline Lef	comp. sci	UUS	\$
68		heuthi H.R.			h
	1	overnya Malters	B VOC HT	VG	Duja
59		Niche Gummadi	English_	PG	1

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATO
70	Dr Seema siddiqi	Food science to	84	flddig
71 72			PG	42
73	Kaneez Haleeman Ajay Anthony - G	Food Science BCA BCA	७६	Dian.
74	mathew.	B. Sw	04	ma
75	Johnson Arul Raj L	English.	VG	T
76	Arvind Kispolta	English	ua	Rif
77	Kudureyanoppa	Political Science	09	blig
78	Eliezerthishwas	Physics	UG	Rue.
79	Dr. Proveen Idohal	a tecomen i	409	at cub
80	Alphorous D'sonz	Chumisy	Ub	Alo,
81	Tecritta fallanha	Botany	Ug	The second
82				
83		1	100	
84				
85				
86		THE STATE OF THE S		
FIRST				
87		T.	1	
88				
89			7	E M
90				
91	The same of the sa	The state of the s		
92		1-1-1-1		
93		402	-	on war
94				
94				
100 10 1721				



ST. PHILOMENA'S COLLEGE (AUTONOMOUS) BANNIMANTAP, MYSORE



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

Organised by

Ofth to 11th January 2025

06th to 11th January 2025 Day 3: 08th January 2025 (02:00 pm to 04:30 pm)					
Session 3: "Future Research Directions and Collaboration					
SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATURE	
1	Sr. Virnal Angeline	English 1	UG	Mr.	
2	Milagis Antonius	Environmental Ecience / Bte	UG	Maria	
3	Asshira Khanum	BB4	09	Town S	
4	Ameren Taj	M.com	PG	Tuo Co	
5	Fothemennisa 13 egum	Urdu	UG	76	
6	Dr. Reena Francis	Commerce	09	0.4	
7	Peria Nayagammas	Day Schucation	UCI	Nuthu	
8	Neithu · C· I	Mathematics	UG UG	Byone.	
9	Рязуанка Овглеча	BBA		0	
10	Radfielda. H.J	MBA	Pa	Radilla	
11	Sangretha MD	BSC	lla	Lein	
12	Harinakshi	BCA	Ma	0-	
13	Frehana A	BCA	lla	Sm	
14	Syeda Masarath	Mathematics	UG	Showthi	
15	Shruthi Menezer		uon	A Comment	
16	Neena. P.K	Loology			
17	Teevitha baldanha	Botomy	Va		
18	Manara É	BCA .	UG	N.	
19	Lydia Anjah	BCA	UG		

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATUR
	Sampueta Modhav Joshi	Biochemistry	06	and on.
21	JUHIE SINGH	Commune	06	f
22	1	Botany	UG	8
23	Dorothy P Mary Sofia I		04 -	res
24	Mary Grene J	Zooldgy Food Sc & N	ug	St.
25 D	m. Ydruena B Raj	Touevalions	ug	Dry
20 R	leena Soyce. I	English	PG	R
28 V _I	ARSHINI. 3	Commerce	PG	Vanshini S
- W	adhi Gummadi	English	PG	Green Comments of the Comments
30	mi Blom	BBA-TH	Ug	A
31	grus Sylvia D Souz	a Chemielay	Uq	Ju-
32	cepthy Mo	BSW	09	Dut do
44 41	Barriero Nigy. Haberbi	1 1 1 1 1		() () () () () () () () () ()
74 6		Microbiology ES	UG	Tama Calif
35	REEN YOUSAR	Commerce	UG (1
953	Florta Alcrondor	Commorce	VG	ten y
	itha.R	Commerce	On	Yavillet
8	ntha R	Commerce	UG	Suprifice
9 / /	na mol V U	MCA	96 (9
	uga priya durshim	UCA	elg	Sylver !
	ya Vandana	Brochemistry	PG	Lyly Valy
Bino	dustrie t	MCA	Pg	The same
	Dingashree N.	MBA	PS C	Danpahul
	andra Agnes	BCA	UG	X
Dhan	ya.B	Biochemistry	PG	00

Ž.NO	NAME	DEPARTMENT	UG/PG	SIGNATURE
45	Namitha Jois K. 3	Economics	Pa	NGOA
46	0	MBA	PG.	Sall
47	De Sadia Tabasseum De Barnya ?	Bociology	04	2
48	Savnyashreem	Economics	U-G	lugary
49	Blessy Guorge		OG	Blue
50	Di Prorteen Soldenhar	Biochemistry	_	
51	Dr. Poraveen Soldenha	Economites	09 -	Some
52	William Joseph 1	English	067	(steely
53	5823re \$ 2.50.	もったい	ತ್ರದವ =	200 m
54	PRASHANTH-D.A.	History	UG	All & I
55	Eliezer Vishwas	Physics	UG	Rue.
56	CHANDAN SAMUEL	BBA	UBr	Can
57	Frand C	Pol Science	ug	Ol
58	PRAKASH ARULAPPA	HISTORY	46	2A,
59	Raxinga E.V	B. VOC - MEE	09	Zails
60	De. Angelina	B.VOC-HT	VG	Angli
61	Sohennya Mathene	BVOC HT	09	Prya
62	Navya P.	BCA	VG.	lagent
63	Prinjanka MK	BCA	UG	Parlande
64	Rashmi Vincia	50cio loge	UG	la
65		Kannada	09	Mary
66	Mary Niveditha Thruthi H.R.	85C	UV	\$
67	Arnyha.v.s	BCA	06	An his
68	Seriger Physa M	English	UGL	AF
69	Roopa Selveia. I	English	UG	Pa
	110 ya Den end 15			

	SLNO	NAME	DEPARTMENT	UG/PG	SIGNATURY
	70	,	1	Ues	Clark
	71	Chandara 3	Physics		selft
	72	Midya G	Couminology & Forence Criminology & Forence Science	UG	
1	73	Meghana R			Meghana R
1	74	Pogja HR	Food Science	09	Say
1	75	Joseph Ashwini Jeyakarithan Withya Johnson	n CRFS	007	A minist
-	76	Withya Johnson	Psychology	04	
	77 1	Kancez Haleema De Seema Siddigi.	Food Science &	PG-FSN	the last
	78	R. Siema Siddigi.	Food Science &	Ph.	fldag
		Kudusiyallappa	political science	ug	By
80	15	Johnson Aml Rayil		VGr	- C.J.
81		Mathu	B. S. C.	06	me o
82	+	brind Kispota	English	UG	W.d.
83	H	lax Rhitha.M	13 (A	1100	Harritas.m
84	J), Poorning AP	Computer Science	Uen	4
	1	encieta Fisnandis	Companyseure	PG	Hus
85	Av	neutra Nair.	computer science	Por.	Die
86	B	abu.P.	Malalyalam	667	Who are
87	B	Sunil Osouzo	Commerce	Color	San -
88			MBA.	PGI.	Con
89		Indhushni Lom	psychology	P9	meter so
90					
91					
2					T. 11011
3					
					•

)4



ST. PHILOMENA'S COLLEGE (AUTONOMOUS)

BANNIMANTAP, MYSORE

6 - Day Faculty Development Programme on
"Empowering Educators: Advanced Research Methodologies
and Strategies for High-Impact Publications"



all-

Organised by

Internal Quality Assurance Cell (IQAC)
06th to 11th January 2025

Day 4: 09th January 2025 (02:00 pm to 04:30 pm)				
	Session 4: "Research	Methodology and De	sign" UG/PG	SIGNATURE
SL.NO	NAME	DEPARTMENT	UG/FG	SIGNATURE
1	Arvind Kiepotla	English	49	Def.
2	BABU-P	malaydans	U-a.	golo
3	Sna Kimal Angeline	English	სრ	6 modes
4	Pr. Porqueen Salohh	LEconomis	09	g w
3	ಸರಾಜೊಂಡಿ-ಎ.೮.	875	西瓜山。	Distolar
6	Alpharons D'songa	Chemis	Un A	Der
8	Jesia Nayagammal's DRCHANA A	Phy Education	0a	1 A-1
9		Bea	VG -	3=
10	Harinakshi Szjeda Masarath	Comp. Se	va	Seini.
11		BCA	ua	Som
12	Dr. Reena Francis	Commerce	UG	Qf.
13	Manara &	BCA	Ubj	Man las
14	Gloriya Priyadarshimi Sargcetha HD	BCA	UG	Lapuets
15	Dorothy P	100 logy	09	210
16	Mary Sofia I	Botany /	UGZ	100-
17	Miloskis Antonius	Environmental	UG US	
18	Jeevitha Galdanla	Science Botany	10.6	- Mary
19	Shruthi Merlezer	Mathematics	Va	

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATURE
20	Me Rashui Vincia	Sociology	U Gr	Po
21	Mary Niveditha	Kanrada	UG	Mary
22	De Saenya P	Bociology	UG	les
23	Sowmyashree-M	Economics	U.G	ligary
24	Naziya Habeeb M.	Biotechnology	06	09 112
25	DEMA BATHOOL	Microbiology (ES	UG	It marally
26	J. Sandva Agnes	BCA /	ua	# 1
27	Neepsley ms	BSW	Uh	aug
28	Dr. Florta Alexanda	Commora	J-62	7
	Lydia Anjali A	BCA	061	26.18
	Supritha R	Commerce	UG	Sypritha
31	Lauitha R	Commerce	UG	Jour Barrier
	AMREEN KOUSAR	Commerce	VG	1
33	VARSHINI. 3	Commerce	PG	Varshini. 9
34	Reena Joyce J	English	PG	200
35	EVELYN CHRISTY . M	FRENCH.	U61	full by
36	Kidhi Gummadi	English	PG	gd-
37	Namitha Jois K.S	Economics	Pa	Mode
10	Amoun Jaj	M. Com (Gommerce)	PG	Farin
	A. Yamung, B. Raj	Tournalism	Uq	Dy
	De Poornina Arp	- Jandi	uer	#
1	Reenamolvu	MCA	76	
)	r Issae George	MBA	PGI	1/20
3	Syeda Farhana Parveers	Microbiology	UG.	bluen
1	JUHIE SINGH	Commerce	Uh	*

1.NO	NAME	DEPARTMENT		-
45		DEPARTMENT	UG/PG	SIGNATURE
46	Blessy Guorge	Bioceremistry	UG	Blu
	Thin Burn	BBA-TH	UG	9
.47	Dr. Proshauth. D. A.	History	UG	THE PARTY
48	Sownya Mathew	BVOC HT	UG	Jostewa
49	William Josephs	English	09	
50	Hencieta Fernandes	Computersaina	Pa	- Heo
51	Ameritta Nain	computer science		D
52	Anoxha. V.S	BLA	UG-	Anallos
53	B1. ಕೆ ವರಾಳು. ಎಕೆ.	老文店	awe	(Distron)
54	2008 of Boug 0785. 2	0 0	UG	(m).
55	Eliezer Vishwas	Physics	UG	Sies.
56	Anand C	Pol Cerènce	ug	Sh
57	PRAKASH ARULAPPA	History	46	1
58	Ajay Anthony - G.	BCA	य ५	Diat .
59	Marya P.	BCA.	UG.	Margart
60	Shruthi H.R.	BSC	UVO	\$
	Terifer Phiya M	English	UGI	A
62	Toopa Selveva I	English	UG	Pap
13	Neethy · C. J	Mathematice	06	Neither
	on Savita Rawat	Hindi	UG	Sunt
5 Ha	makithia. M	BCA	06	Ilwahith on
	rock. A	PG, Comfutel science	PG	Hanocolf
1	kg hmeogh.D.M	Ptz Library	Per.	Joint D.M
Pari	yanka Mk	BCA	UG	Pilate
		Psychology	- UG	

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATURE
70	Joseph Ashwini Jaykanthan	C& FS	UG	Ashwrity
71	Vidya. y	C# F3	UG	ille
72	Meghana . Th	C& FS	UG	Meghana R
73	Pooja . H.R	F6 & N	UG	Josep
74	chandana.3	Physics	UG	elas
75	Psijanka Olivera	BBA	067	Dypinta
76	De A Emile Suckha	MBA	PG	Derto
78	Radhika . H. J	MBA	Pa	Radling.
79	De Seema Siddigi.	FSN,	P6	guldig
80	Dr Sunil Disouza	Commerce	P9	800
81	Kerdereyallappa	political science	ug	di
02	ne thus	8.5W	vc	my
	CHANDAN SAMUEL	BBA	VGi	com
- 1	Agnu A Souza	Chimish	UG	Au
85	Jary Grene J	FSN	UG	A
7	skips Khanun	B BA	uq	Joshuja
	V			
100				
1			195 (200)	Parel C
		413- A. S. E.	L. B. F.	
			E FEET	
			Car	
1			1,15	A. V.



ST. PHILOMENA'S COLLEGE (AUTONOMOUS) BANNIMANTAP, MYSORE



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

Organised by

Internal Quality Assurance Cell (IQAC)

06th to 11th January 2025

	Day 5: 10th January 2025 (02:00 pm to 04:30 pm) Session 5: "Publication Ethics & New Scholarly Publishing Models" Session 5: "Publication Ethics & New Scholarly Publishing Models" Session 5: "Publication Ethics & New Scholarly Publishing Models"					
SL.NO	Session 5: "Publication Ethics & NAME	DEPARTMENT	UG/PG	SIGNATURE		
1				×		
	Sm. Angeline	English	UG	2hr		
2	BABU P	malayalans	V:G			
3	Arshipa Khaneun	BBA	uq	Asshiga		
4	Kanedz-Haleema	Food Scienes Nul	don ph	#		
5	Kanedz-Haleema Dr. Seema Liddigi.	Food Science 4 Nutri		Aldie		
6	Peria Nayagemmal.s	Phy Schuler	09	1		
7	Kanitha L	Commerce	06	furlet		
8	AMREEN KOUSAR	Commerce	UG	1		
9	Dr. Florta Alexandor	Commorce	UG	two/		
10	Manasa E	BCA	UG			
11	Harinakshi.	Colonp. Sc	va	deini		
12	Archana A	BCA	UG	A		
13	Syeda Masarath	BCA	UG	Som		
14 /	Milatris Antonius	Environmental Beience / Brotech	UG	1 de		
15	Mary Irene J	Food Sc & N	UG			
16	Mary Sofia I	Zoology	UG	AUS		
17		1 0	062	1		
18	Dorothy. P Sangeetha MD	Betany	Voz	Pho		
19	Lydia Anjah F	BCA	061	H		

SL.NO	NAME			
20		DEPARTMENT	UG/PG	SIGNAT
21	Sownyashreem	Economics	UG	luca
22	De Bawmya .7	Sociology	104	luga
	Jewitha Galdanha			
23	5 hruthi Meneyes	0	Uq	4
24	Radhika. H. J	Mathematics	UG	di
25	Dr. Frille Swekka. A.	MBA MBA	Ph	Radik
26	J. Sandre Agres	BCA	PG	Algutha
27	Dr. Poornine A.p	,	UG	g
28	Neena-P.K	-thind;	ver	A
29		Zoology	CLG	do
30	Dupthy no J	BSW	Un	0
31	Sampukea Madhar Josh	Biochemicky	06	Och.
32	Reena Jayce J	English	Ph	Bo
33	Nedhi Gummadi	English	PG	ade
34	Namitha Jois K. S	Economics	Pa	Notice
22	VARSHINI. 3	Commence	PG	Varishini
	r. Reena Francis	Oh Commerce	09	QF
37	Trini Brance	BBA-TH	UG	ap
	Suprithe R	Commerce	06	Sugnit
0 1	J-gige Habeeb M.	Biotechnology	V 9	المنوال
1	19 min Souger	chunisty)	Ua	Sur
- 1	Arnain Taj	M.com	PG	Junes
1 -6	floriya prija daeskin	BCA		
	r. Prancen Solobla		ug	Lym
3	Radhui Mi	4	09	- Cun
1 -	Kashui Vincia	Sociology	UG	ta -
	Blerry Guerge	BioQuenietry	UGI	Bus

	.0	NAME	DEPARTMENT	UG/PG	CICNATIVE
A	45	CHANDAN SAMUEL	DRA		SIGNATURE
11	46		BBA	UG	CIM_
	47	REENA MILVY	MCA	PG (R
	48	De Issac George	MBA.	PGI	Cose
	49	Byede Farhana Parveers	Microbidogy	Va	barren
	50	JUHIE SINGH	Commerce	UG	f
	51	UZMA BATHOOL	MICROBIOLOGY / ES	VG -	Hzma (21/po)
		DA. PRASHANTH. D. A.	History	UG 7	100
	52	Eliezer Wishmas	Physics	UG	Sie.
	53	William Joseph J	English	06	1
5	54	An ind Kispotta	11	31	21
5	55	ರಾ. ಕಿವರಾಳು ಎಕ್.	स्यूष	au. 2.	and him
	6	102alhore	B.S. W	UG ₁	by 4
5		25 5 5 Golf 01 25.00	0 0	UG	C 7 .
58	5	Frand C	Pol Svience	UG	6
59		PRAKASH ARMAPPA	Aistory	46	y d
60		Revisija. Į. V	B. VOC MEE	Uq	Pen
61			BCH	UG	D'ay
62		Ajay Anthony - G Lakehmeeph. D. M	Lib-rary	Per	land Dra
63		Bownya Mathew	BUDG HT	104	Palhero
64		X. Angelina	BVOC HT	ua	Auglo
65		ucieta Fernandes	MI-Sc CS	PG	Hew
66		meuttra Nair	MSC -CS	PG	D.
67			English	UG	A
68		enjer Pringe M			
59		oopa Selveros	knylesh	UG	Coop
	_	Anosha. 48	BLA	06	Air-

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATURE
70	Thruthi H.R.	850	UVS	李
71	Dr. Yamura B Ray	Tournalism	UG	Dud
72	Priyanka MK	BCA	VG	Pijale
73	Priyanka Olivera	BBA	Va	Ryperts
74	Navya P	BCA	09	llage P
75	Dr. Sarita Parsent	Flindi	Va	Sent
76	Nuthu. C.J	Mathematics	Uh	Nuthu
77	chardangs	Physics	ven	clas
78	Pooja H.R	Food Science	UG	Par
79	Uidya y	CÉFS	uq	Nolly
80	Meghana. R	CAFS	UG	Meghanaik
81	Kuduvieyallappa.	Political Science	ug	de
83	1		1	
84				
85				
86				
87				
88				
89				
90				
91				
92			111	The same of the sa
93				
94				

F.



ST. PHILOMENA'S COLLEGE (AUTONOMOUS) BANNIMANTAP, MYSORE

6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"



Organised by

Internal Quality Assurance Cell (IQAC)

	06th to 11th January 2025					
	Day 6: 11th January 2025 (10:00am - 01:30 pm) Session 6: "Data Collection and Analysis" SIGNATURE					
SL.NO		DEPARTMENT	UG/PG	SIGNATURE		
1			17 17	a		
	William Joseph 1	English	UG	0.00		
2	Asships Khanum	BBA	ug	John Ja		
3	Son- Mornal Angeline	English	UC	Aog.		
4	Pera Nayagamaral.s	phy- solutation	UG	J-4		
5	ARCHANA . A	BCA	VG			
6	Hazinakshi	Comp. Science	Uq	Jaini		
7	Syeda Masarath	BCA	ua	Som		
8	Dr. Reena Francis	Commerce	Va	Of		
9	Kanitha. R	Commerce	Uh	Kadleh		
10	Supritha R	Commerce	06,	Supritha		
11	AMMEEN KOUSAR	Commerce	UG	AS		
12	Dr. Florta Alexandor	Commorce	UG	tens/		
13	Hedhi Gummade	English	PG	Golo		
14	MARY TRENE J	Food Se & N	UG	A.		
15	Milagris Antonis	Environmental General Broken	06	1/2		
16	Mary Sotia . I	Zoology	06	100		
17	Lorothy. P	Botany	V61	A		
18	Sangeetha M D	ZOOLOGY	Uq	ELQ.		
19	Manasa £	BCA	UG	A.		

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNAT
20	Gloriya Priya daeshin	BCA	ug	Symps
21	Shruthi Menezer	Mathematice	Ú _G	all-
22	Jeevitha Galdanha	Botany	UG	4
23		Bociology	06	2
24	De Savonya 7 J. Landre Agren	BCA	UG	Je 1120
25	Naziya Habeeb M.	Biotechnology	UG	(-3 5 mon) 2
26	UZMA BATHOOL	Microbitology 153	ug +	Izmal aly
27	Rini Beonin	BBA-TH	VG 4	
28	Duptly mo	BSW	04	
29	JUHIE SINGH	Commerce		
30	Reena mol Vy	MCA	79	9
31	Dr. Poornina A.P	- Hindi	09	A
32	VARSHINI. 3	Commerce	PG	Varshini.9
33	Namitha Jois K.S	Economics	Pa	NOGA
34	Reena Joyce J	English	Ph	&
35	Reena Joyce, J Amerin Jaj	M. com - Gomnexe	PG	Frozie
36	CHANDAN SAMUEL	BBA	Ulr	(In)
37	Anand R	Pol Iviena	ug	1
38	PRAKASH ARMAPPA	History	116	d. A
39	Priyanka Olivera	BBA	UGI	0/1
40	Dr Emille Suekha	MBA	Pq	D. John
41	Radhika . H. J	MBA	Pa	Radine
42	Dr. Issae George.	MBA.	P67	133
43	ಡಾ. ಕಿವರಾಟ. ಎಸೆ.	स्त्रह	au.28.	Consum
44	Mathewa	K.S. W	067	me

3 |5

rche	NAME	DEPARTMENT	UG/PG	SIGNATURE
1	200 30 Body 00 25. De	English	UGZ	T
4	Ravisay . T. V	B. VOC-MEE	Uq	Regis
1	Lakohmoogh. D. M Dr. Angelina	Libroug	Per	Shulom
101/25	Bowanya Malkew	BVOC HT BVOC HT	UG	Haltio
4	Ohreethi H.R.	8.5c	1063	\$_
	Anugha.v.s.	BLA	UG.	An sha
3	Roope Selvena. J	English	UG	A
54	Amind Kispotto	English	46	B 1
56	Keedureyalloppa	Political science	ug	blig
57	Briganka MK	BCA	uG	ajon .
58	Navya P	BCA BCA	UG	12 D
59	Deetsha. N	BCA	VG/	Market
61	Nithye Johnson	Psychology	vac	A STATE OF THE STA
62	Joseph Ashwini Jeyaharthun		Von	Admira
63	As 4 Sorida Rount	Mindi	UG	Such
64	Chandaras	Mathematics Physics	UG	Nuthur Clars.
65	Pooja H.R	Food Science	VG	Gloop
66	Megrana R	CRFS	UG	Meghana R
58	Vidya . 4.	Criminolog & Forensic Science	UG	ul 14
		Food science 4	PG PG	eld of

SL.NO	NAME	DEPARTMENT	UG/PG	SIGNATURE
70	BABU P	malayelens Commerce	Ug	Selve
71	BABU P Di Sunil DSouza Lydia Anjah: A	Commerce	UGI	02
72	Lydia Anjali A	BUB	UG	10-
73				
74		And the land		
75			C. Contraction	25
76	7			
77			STATE SAN	
78				
79			AL ANDE	
80		A	ent it source	
81			100000000000000000000000000000000000000	er P
82	W 10 10 10 10 10 10 10 10 10 10 10 10 10	19 21	1 - 100	
83	F.V. A	els .	el se	Wall Comment
84				
85	A STATE OF THE PARTY OF THE PAR			
86			X 183	
87				BRIDE
88				43 60
89			1	
90	* 172			
91			7.72	
92				
93				1
94			A 18 19 19 19 19 19 19 19 19 19 19 19 19 19	
			4 1 5 5 6	138



FEEDBACK ANALYSIS

6 - Day – Faculty Development Programme (FDP) on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

This report presents a detailed analysis of the feedback collected during the 6-Day Faculty Development Programme (FDP) on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications." The primary objective of this analysis is to evaluate the effectiveness of various dimensions of the FDP, including its organization, relevance, presentation quality, and overall impact.

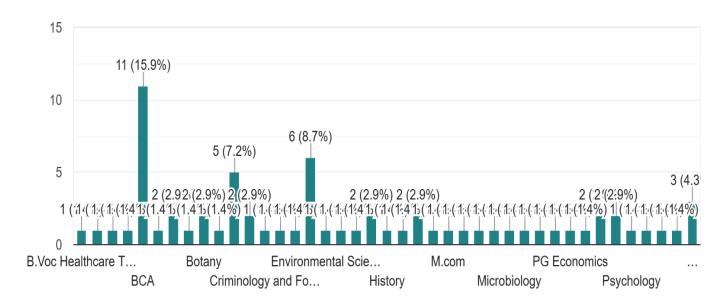
The feedback data was gathered from participants across multiple departments and roles, reflecting diverse perspectives. Ratings were collected on a standardized scale ranging from 1 (Poor) to 5 (Excellent) for the following key aspects:

- 1. **Organization of the FDP Program:** Evaluates the systematic planning and execution of the sessions.
- 2. **Relevance of the Topics to Participants' Positions:** Measures how well the topics aligned with the participants' academic and professional needs.
- 3. **Framework and Ambience:** Assesses the learning environment and structural coherence of the program.
- 4. **Expertise of the Resource Persons:** Evaluates the knowledge, delivery, and engagement of the invited experts.
- 5. **Quality of the Presentations:** Reflects participants' perceptions of the clarity, structure, and delivery of the sessions.
- 6. **Standard of the Content:** Examines the depth, relevance, and comprehensiveness of the material covered.

This analysis aims to identify strengths, areas for improvement, and actionable recommendations to enhance future FDPs. The results highlight participant satisfaction levels, suggestions for customization, and opportunities for making the program more impactful and inclusive.

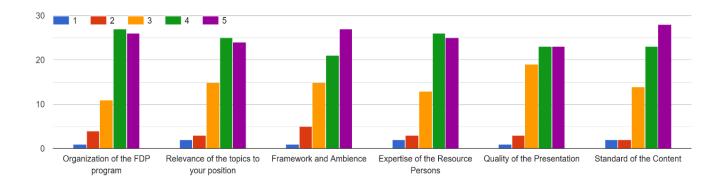
Department

69 responses



Analysis of the FDP programme:

Kindly respond to the following questions by selecting your choice in the response scale: 1. Poor 2. Satisfactory 3. Good 4. Very Good 5. Excellent



Category	1 (Poor)	2 (Satisfactory)	3 (Good)	4 (Very	5
		_		Good)	(Excellent)
Organization of the	3.3%	8.3%	13.3%	41.7%	33.3%
FDP program					
Relevance of the topics	1.7%	6.7%	11.7%	36.7%	43.3%
to your position					
Framework and	1.7%	5.0%	10.0%	40.0%	43.3%
Ambience					
Expertise of the	1.7%	3.3%	8.3%	36.7%	50.0%
Resource Persons					
Quality of the	1.7%	5.0%	10.0%	33.3%	50.0%
Presentation					
Standard of the Content	1.7%	5.0%	8.3%	33.3%	51.7%

Insights Based on Responses:

"Excellent" (5) is the most frequent rating in all categories, ranging from 33.3% to 51.7%, indicating a strong positive reception.

"Very Good" (4) also consistently receives high percentages, between 33.3% and 41.7%, demonstrating overall satisfaction.

Low ratings (1 and 2) collectively range between 1.7% and 8.3%, suggesting very few participants were dissatisfied.

Key Observations:

1. Organization of the FDP Program:

- o Majority of respondents rated this aspect as "Very Good" (4) and "Excellent" (5).
- o Only a small proportion rated it as "Poor" (1) or "Satisfactory" (2), indicating general satisfaction with the program's organization.

2. Relevance of the Topics to Your Position:

- o Ratings of "Very Good" and "Excellent" dominate, suggesting that the topics were highly relevant to participants.
- o A minimal number of "Poor" and "Satisfactory" ratings were recorded.

3. Framework and Ambience:

- o High ratings of "Very Good" (4) and "Excellent" (5) were observed, reflecting strong approval of the framework and ambience.
- o Lower ratings ("Poor" and "Satisfactory") were minimal, confirming positive participant experiences.

4. Expertise of the Resource Persons:

- The highest ratings of "Very Good" and "Excellent" indicate that the resource persons were well regarded for their expertise.
- o Few "Poor" or "Satisfactory" ratings demonstrate a minimal level of dissatisfaction.

5. Quality of the Presentation:

- Ratings again show a majority in the "Very Good" and "Excellent" categories, emphasizing participant satisfaction with presentation quality.
- o Lower ratings are infrequent, pointing to an overall positive reception.

6. Standard of the Content:

- o The highest number of "Excellent" ratings were recorded for this category, highlighting participant approval of the content's quality.
- Ratings of "Poor" and "Satisfactory" are negligible.

General Analysis:

- The feedback is overwhelmingly positive, with most ratings falling into the "Very Good" and "Excellent" categories across all parameters.
- The least positive feedback is seen in the categories of "Organization of the FDP Program" and "Framework and Ambience," though even here, the dissatisfaction is minimal.
- The program's strengths lie in the expertise of resource persons, quality of the presentation, and the standard of content, which received the highest "Excellent" ratings.

Recommendations:

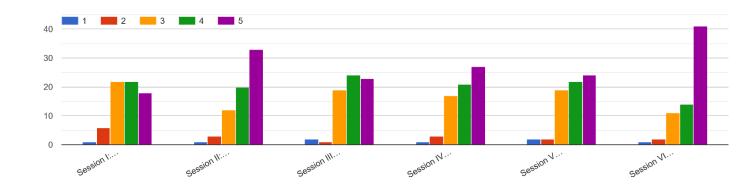
- 1. **Focus on Continuous Improvement**: Maintain high standards in resource person selection, presentation quality, and content standard to retain participant satisfaction.
- 2. **Address Areas for Improvement**: Investigate the specific concerns behind the "Poor" and "Satisfactory" ratings for organization and framework/ambience to ensure all aspects meet expectations.
- 3. **Participant Engagement**: Gather qualitative feedback to understand specific areas where enhancements can be made.

Overall, the feedback suggests a highly successful FDP program with room for minor adjustments.

Designation 69 responses Assistant Professor (UG) Assistant Professor (PG) Associate Professor (UG) Associate Professor (PG) 79.7%

Analysis of the sessions conducted on various days:

Kindly respond to the following questions by selecting your choice in the response scale: 1. Poor 2. Satisfactory 3. Good 4. Very Good 5. Excellent



Session I: Prof. Dr. Krishnaveni (06th January 2025)

- Topic: "Research Foundations and Literature Review"
- Average Rating:
 - The majority rated this session positively, with responses mostly in the range of "Good" to "Excellent."

• Feedback Highlights:

 Participants found this session fundamental and essential for their understanding of research basics. Suggestions include ensuring the pace and content meet the needs of freshers and experienced faculty alike.

• Insights:

 Maintaining a clear, structured approach in such sessions is critical for setting the foundation of the FDP.

Session II: Dr. Mohammed Minhaj (07th January 2025)

• **Topic:** "Harnessing AI for Advancing Research Practices"

• Average Rating:

 Responses indicate this was among the most engaging sessions, with many ratings it "Very Good" or "Excellent."

• Feedback Highlights:

o Participants appreciated the relevance of AI in research but suggested including more practical demonstrations.

• Insights:

 Hands-on AI tools or interactive segments could make future sessions more impactful.

Session III: Dr. T. S. Harsha (08th January 2025)

• **Topic:** "Future Research Directions and Collaboration"

• Average Rating:

 Ratings varied, with some participants finding it insightful and others suggesting more diverse content.

• Feedback Highlights:

 Collaboration and future research directions were acknowledged as crucial but needed more real-world examples.

• Insights:

 Incorporating case studies or success stories in collaborative research can provide clarity and inspiration.

Session IV: Prof. Dr. G.S. Premakumara (09th January 2025)

• **Topic:** "Research Methodology and Design"

• Average Rating:

o Generally positive, with most participants finding it valuable.

• Feedback Highlights:

o A few participants mentioned that some aspects of the methodology were already familiar, indicating varied expertise levels in the audience.

• Insights:

Tailoring content depth to participant backgrounds can enhance engagement.

Session V: Dr. Vasantha Raju N. (10th January 2025)

• **Topic:** "Publication Ethics & New Scholarly Publishing Models"

• Average Rating:

o Consistently high ratings, with "Very Good" and "Excellent" dominating.

• Feedback Highlights:

 Participants emphasized the importance of ethics in publication and found the session enlightening.

• Insights:

 Adding role-play scenarios or workshops on identifying ethical dilemmas could strengthen the learning experience.

Session VI: Prof. Dr. Lancy D' Souza (11th January 2025)

• **Topic:** (Topic not explicitly mentioned, possibly focused on psychology or interdisciplinary approaches)

• Average Rating:

o One of the highest-rated sessions, with many participants marking it as "Excellent."

• Feedback Highlights:

o The session was praised for its engaging delivery and relevance.

• Insights:

o Similar sessions with an interdisciplinary focus could provide broader appeal.

Suggestions from the participants:

Good
None
Very informative sessions
It was very helpful and innovative, well organised and well planned
As a fresher I felt categorize participants based on their experience
Well organized
Enriching sessions.
All the seasons were useful.
Well organized
Very good organizing the FDP program
Kindly incorporate time in the academic calendar for research work without other disturbances for better outcomes
The topics were useful.
May be organised topics on the theme will be helpful because few of the topics was same. We do freshers require basic to excellent knowledge on paper writings.
Some of the Sessions were relevant to the time and few sessions were very interesting and useful.
As a fresher I learned something regarding this, and it was very helpful for us thank you
All the 6 days FDP is more useful
Please consider language fraternity
Separate for subject
The FDP was highly insightful and well-structured, offering valuable knowledge and practical applications for professional growth. We look forward for such more meaningful program
Well Organised
NIL
Good, next time kindly focus on basics of writing in research especially for freshers

It's fruitful and informative It was a well-organized session. It was a very informative session conducted. But, looking forward to a more impactful session in the future based in the requirements of the faculty other than research methodology. More FDP Need information from basics for freshers In future involve workshop and practical session Think for language research Looking forward to more sessions like this. Can also provide basic information about the research All the best Good Program Good speakers It would also be good if we could have some sessions on personal development. I also suggest that we can make use of internal resources for some sessions. If we can utilize a multidisciplinary approach and have interdepartmental collaborations in some way. Thank you Often conduct this kind of workshop. Thank you Thank you for the opportunity Good sessions More inspiring speakers Please consider freshers and give basic information for the freshers Try to arrange FDP department wise. It was helpful. Very well organised and executed. No comments Let the topics be diverse and interesting. Good

Please include more insight on Languages Great initiative Very informative sessions and expected have more such programs Subject wise/stream wise sessions would be more beneficial to the faculty members Let the topics be not repetitive The only suggestion that I would like to make is to conduct these sessions at a time convenient to both UG and PG in order to have a balanced attendance of both faculties. And, to avoid over burden of work specially at the end of semester. Thank you. The sessions was very informative and have learnt many important things about research and helped us to understand how to do research about the particular topics It will be a great opportunity for myself as a fresher in the field of Research if i am provided with related sessions in future about the basics of Research. Each and every session was informative and knowledgeable. I express my heartfelt congratulations to IQAC for organizing such Enlightening sessions to the faculty members. Thank you Frequently conduct these kind of valuable and informative sections Specific group support in research assistance Very Useful, well planned and executed Nil No comments

Overall Suggestions Across Sessions

1. **Interactive Learning:**

Nil

 Participants consistently suggested including workshops or practical demonstrations for better engagement.

2. Tailoring Content:

o Freshers requested beginner-level content, while experienced attendees desired advanced, innovative topics.

3. Diverse Topics:

 Avoiding repetition and ensuring a broad spectrum of topics across disciplines was a common recommendation.

4. Timing Considerations:

 Aligning FDP schedules with academic workloads would increase participation and focus.



MYSORE DIOCESAN EDUCATIONAL SOCIETY (R) St. Philomena's College (Autonomous)



Affiliated to the University of Mysore Bannimantap, Mysore - 570015

Certificate of Participation

This is to certify that Mx*	,,
Professor, Department of	, St. Philomena's College (Autonomous),
Mysore has successfully particip	ated in the 6 - Day Faculty Development Programme on
"Empowering Educators: Advanc	ed Research Methodologies and Strategies for High-Impact
Publications" organised at St. Philo	mena's College (Autonomous), Mysore by the IQAC between o6th
and 11th January 2025, for the Facul	ty members of the Undergraduate and Postgraduate programs .

The management of St. Philomena's College (Autonomous), Mysore highly recognizes, appreciates, and congratulates hxx* for the active participation and involvement in the activities of the IQAC during this FDP.

A. Thomas Gunaseelan Coordinator - IQAC

Dr. Ravi JD Saldanha Principal Rev. Dr. Lourdu Prasad Joseph Rector



St. Philomena's College (Autonomous) Bannimantap, Mysore



6 - Day Faculty Development Programme on "Empowering Educators: Advanced Research Methodologies and Strategies for High-Impact Publications"

Thank You, Teachers





-- FDP Committee Members (#6 day FDP Jan 2025)



6-day FDP 6-11 January 2025



"Empowering Educators: **Advanced Research Methodologies** and Strategies for High-Impact Publications"

Rev. Dr. Lourdu Prasad Joseph		Dr. Bharatha K.
Rev. Fr. Jnana Pragasam		Dr. Shivakumar A.
Rev. Fr. David Sagayaraj S.		Dr. Zabiulla
Dr. Ravi JD Saldanha		Rev. Sr. Angeline Vimal
Mr. M. Nagaraj Urs		Mr. Ginson George
Mr. Ronald Prakash Cutinha		Ms. Jeevitha Saldanha
Dr. Reena Francis		Ms. Milagris Antonius
Dr. Noor Mubasheer C.A.		Ms. Mary Irene J.
Dr. Alphonsus D' Souza		Ms. Priyanka Olivera
Dr. Sunil D' Souza		Ms. Nidhi Gummadi
Ms. Agnes Sylvia D'Souza		Dr. Yamuna B. Raj
Mr. Sadebose A.T.		Ms. Venitha Lobo
Dr. Praveen Saldanha		Ms. Maria Vandana M.A.
Dr. Deepa V.		Mr. John Joseph
Dr. Prashanth D.A.		Mr. Swamynathan A.
Ms. Neena P.K.		Mr. Rajesh Mascarenhas
Dr. Sandesh D' Souza		Mr. Naveen S.
Dr. Asha M.S.	X	Ms. Mirium Precilla J.
Mr. William Joseph J.		Mr. Harry Martin
Ms. Shruthi Menezes		Mr. William Joseph
Ms. Arshiya Khanum		Mr. Devaraj
Mr. Babu P.		Mr. Arogya Mariappa
Dr. Felan Amal		Mr. Santhosh & Mr. Kumar



- IQAC Coordinator

Mr. A. Thomas Gunaseelan