

BIO-DATA

Name	Rajesh K	
Gender	Male	
Date of Birth	01-09-1984	
Father's Name	Krishna Moolya	
Marital Status	Married	
Nationality	Indian	
Languages Known	English, Kannada, Hindi, Malayalam & Tulu	
Contact Details	Rajesh K Kochi house Yethadka (PO) Kasaragod -671551 Kerala Mobile: 9481765670	Rajesh K Associate Professor and Head Research Department of Physics St. Joseph Engineering College, Vamanjoor, Mangalore – 575 028 India Tel - +91 824 2263753
Educational Qualification	2020 December- PhD 2007 - Master of Science (M.Sc) in Physics from Mangalore University with an aggregate of 70.87% 2005 – Bachelor of Science (B.Sc) at Government College Kasaragod, Kerala with an aggregate of 87.2% 2002- +2 from H.H.S.I.B.Swamiji's HSS Edneer with an aggregate of 64.55 % 2000-S.S.L.C from Sri Annapurneshwari High School Agalpady with an aggregate of 77.16 %	
Memberships	Life member of International Society for Technical Education(MISTE)	
Work Experience	1) Lecturer in Physics, St. Joseph Engineering College, Mangalore from 6 th August 2007 to 31-12-2011 2) Assistant Professor in Physics, St. Joseph Engineering College, Mangalore from 01-01-2012 to 30-09-2022 3) Associate Professor in Physics from 1-10-2022 to till date 4) Research Head –Physics from 02-01-2023	

**Workshops and Seminars
attended**

- 1) Participated in one day seminar on Astrophysics organized by Department of Physics, Government College Kasaragod on 22-09-2004
- 2) Participated in the Physics Colloquium 2004 organized by Department of Physics, Pazhassi Raja N.S.S. College Mattanur, on 9th November 2004.
- 3) Participated in the short term course for Quality Improvement Programme (STTP-QIP) on “Nanotechnology for Clean Energy” from 2nd June to 14th June 2008 at IIT Madras.
- 4) Participated in the Summer School on “Advances in Engineering Physics” from 6th to 11th July 2009 at The National Institute of Technology (NITK) Surathkal.
- 5) Attended a workshop on Research Methodologies & Latex organized by VTU e-learning centre Mysore for the research scholars in Shree Devi Institute of Technology, Mangalore on 13th & 14th September, 2012
- 6) “Advanced Materials Research for Device Applications” from 25th to 26th July 2013 at N.M.A.M Institute of Technology Nitte.
- 7) Workshop on Latex Software organized by department of mathematics SJEC on 22nd May 2013
- 8) Participated in the National Conference on Current Trends in Scientific Research for Engineering Applications organized by departments of science SJEC on 17-18 July 2014
- 9) Workshop on Google Apps, Spoorthi-2015 held on 21st January 2015 at SJEC
- 10) Workshop on Mentoring and Counselling, Cornea-2015 held on 23rd January 2015
- 11) Workshop on Course Plans and CEO Attainment, Integra-2015 held on 19th January 2015
- 12) Workshop on Preparation for Accreditation, New SAR & Introduction to CBCS, Integra-2015 held on 20th and 21st July 2015.
- 13) Workshop on OBE and New SAR, Integra-2016 held on 22nd January 2016.
- 14) Workshop on Information Discovery-Tips, Tools and Technologies on 14th July 2018 at SJEC
- 15) Feel Teacher programme conducted by CLHRD from 2nd July to 4th July 2018 at SJEC
- 16) FDP on Course Design & Management organized by Internal Quality Assurance Cell (IQAC) at SJEC from 16th July 2018 to 18th July 2018.

Workshops and Seminars**attended**

17) Participated in the workshop "Scopus & Mendeley :Tools for Empowering Research" organized by Library Advisory Committee with department of computer applications on 21st September 2019 at St Joseph Engineering College, Mangaluru

18) Attended a national level seminar on "Renewable Energy Sources" on 29th February 2020 at Sri Bhuvanendra College Karkala

19) Participated in the National level webinar on "Medical Physics and beyond" organized by the department of Physics at St Aloysius College (Autonomous), Mangaluru on 24th June 2020

20) Participated in TEQIP - 3 sponsored Webinar on "Characterization Techniques for Nanomaterials" held on June 26, 2020 organized by Department of Physics, National Institute of Engineering Mysuru

21) Participated in the International Level webinar on "The Physics of Artificial Intelligence: What lies ahead?" organized by the Department of Physics, St Aloysius College (Autonomous), Mangalore, on 29 June, 2020

22) Participated in the webinar on Vedic Mathematics and its applications organized by Mathematics Department on 6th July 2020

23) Participated in a webinar on LOW DIMENSIONAL PHYSICS: A NEW PARADIGM held on 14th July 2020, organized by department of Physics, St Joseph Engineering College, Mangaluru

24) Participated in in One Week Online FDP on "Insights on Writing Research Proposals & Funding Opportunities" held from 20th to 24th July 2020, organized by Research and Facilities Group, St Joseph Engineering College, Mangaluru

25) Participated in a webinar on "Empower your English Grammar using Sententia Tool" : A database through VTU Consortium held on 31st July 2020, organized by department of Central Library in association with Library and Learning Group, St Joseph Engineering College, Mangaluru

**Workshops and Seminars
attended**

- 26) Attended online workshop on Universal Human Values organized by AICTE from 10th August 2020 to 14th August 2020
- 27) Participated in a webinar on “HCD Approach towards Solving Challenges of the Social Sector” organized by the community engagement group on 19th August 2020.
- 28) Participated in online workshop on Social Entrepreneurship, Swachhta & Rural Engagement for Higher Educational Institutions in Association with Mahatma Gandhi National Council of Rural Education on 25th September 2020
- 29) Participated in “Hands on Workshop Series on Online Teaching Tools and Virtual Labs” Organized by SANJOSH SJEC from 21st to 30th September 2020
- 30) Participated in the webinar on “Nep 2020- Curriculum Framework For Higher Education” by Professor B Thimme Gowda, Former Vice Chancellor of Bangalore University on 23rd October 2020
- 31) Attended STTP on “Solid waste A Hidden Treasure” by department of civil engineering BLDEA's CET vijayapur from 23rd to 28 November 2020.
- 32) Webinar on ‘Brain Inspired Technologies for Future Artificial Intelligence’ organized by Department of Physics, SJEC, Mangaluru in association with its students’ association Epsilon on 12th June 2021
- 33) Participated in Integra 2021, Six day Faculty Development Program ON Curriculum Development Inspired by NEP-2020 at SJEC Mangaluru during 8-10th April 2021 and 15-17th April 2021.
- 34) Successfully completed the part 1 of the online UHV Refresher 1 FDP organized by AICTE from 30th August 2021 to 3rd September 2021.
- 35) Participated in workshop on “Strategic Leadership for faculty members organized by IQAC and Quality Governance group at SJEC on 7th, 14th, 21st and 28th September 2021.
- 36) Attended an online FDP organized by VCET Puttur on “Role of Materials Science in the Continual Progress of Engineering and Technology “during 28-31 March, 2022
- 37) Attended a User Awareness Programme on IRINS on 26 April, 2022

**Workshops and Seminars
attended**

- 38) Attended a workshop on “Tools to design E-book content” 29 April, 2022.
- 39) Attended a FDP on IUCEE Mission NEP 2020 on 6 May 2022 at SJEC.
- 40) Attended a workshop on “Patent Searching and Prior Art Assessment” on 8 November 2022.
- 41) Attended a two day workshop on Physics Using Mat lab during 1, 2 June 2023 at SJEC.
- 42) Has successfully completed IS/ISO9001:2015 Quality Management Systems(QMS) Internal Auditor Training Course held at SJEC on 24th and 25th April 2023 by TUV India Private Limited.
- 43) 3-day Face-to-Face FDP on ‘Inculcating Universal Human Values in Technical Education’ organized by AICTE at SJEC, Mangaluru 18th October to 20th October 2023

LIST OF PUBLICATIONS

1. Structural, optical, mechanical and dielectric properties of titanium dioxide doped PVA/PVP nanocomposite
K. Rajesh, Vincent Crasta, N. B. Rithin Kumar, Gananatha Shetty, P. D. Rekha(2019)J Polym Res 26: 99 <https://doi.org/10.1007/s10965-019-1762-0>
2. Effect of MoO₃ nanofiller on structural, optical, mechanical, dielectric and thermal properties of PVA/PVP blend(2019)**K. Rajesh**, Vincent Crasta, N. B. Rithin Kumar, Gananatha Shetty, SangappaYMaterials Research InnovationsDOI: 10.1080/14328917.2019.1653558
3. Study of structural, optical and photoluminescence properties of ZnO doped PVA/PVP nanocomposite **K. Rajesh**, Vincent Crasta, N. B. Rithin Kumar, Gananatha Shetty AIP Conference Proceedings **2100**, 020045 (2019) <https://doi.org/10.1063/1.5098599>
4. Effect of ZnO nanofiller on dielectric and mechanical properties of PVA/PVP blend **K. Rajesh**, Vincent Crasta, N. B. Rithin Kumar, Gananatha Shetty AIP Conference Proceedings 2162, 020096 (2019); <https://doi.org/10.1063/1.5130306>
5. Effect of CuO nanofillers on PVA/PVP blend
K. Rajesh, Vincent Crasta, Gananatha Shetty
AIP Conference Proceedings **2269**, 030091 (2020);
<https://doi.org/10.1063/5.0019626>
6. Promising PVA/TiO₂, CuO filled nanocomposites for electrical and third order nonlinear optical applications G. Shetty B, V. Crasta, R. Kumar N B, **Rajesh K**, R. Bairy, and P. Shankaragouda Patil(2019) Opt. Mater. (Amst). vol. 95 <https://doi.org/10.1016/j.optmat.2019.109218>
7. Effect of Nano fillers on Electrical, Mechanical, Fluorescent and Third Order NLO properties of PVA(2019)Gananatha Shetty B, Vincent Crasta, Rithin Kumar N B, **Rajesh K**, Raghavendra Bairy Materials Research Express 6 (7), 075055<https://doi.org/10.1088/2053-1591/ab17f6>
8. Structural, mechanical and optical properties of PVA doped with TiO₂ and ZnO nanoparticles Gananatha Shetty, Vincent Crasta, Rithin Kumar, and **Rajesh Kochi** AIP Conference Proceedings 2100, 020064 (2019);
<https://doi.org/10.1063/1.5098618>

9. Advancement In Structural, Morphological and Dielectric Studies of PVA Filled TiO₂ and ZnO Nanocomposites AIP Conference Proceedings 2269, 030092 (2020);Gananatha Shetty, Vincent Crasta, and **Rajesh K**
<https://doi.org/10.1063/5.0019630>
10. Effect of TiO₂/ZnO nanofillers on structural, optical and nonlinear optical properties of PVA K Rajesh, V Crasta, R Bairy, PS Patil Optical Materials 145, 114481 DOI:10.1016/j.optmat.2023.114481
11. Enhanced optical third-harmonic generation in phase-engineered nanostructured Zn_{1-x}Cd_xS thin films for optoelectronic device applications Journal of Physics D: Applied Physics, Volume 57, Number 16, Raghavendra Bairy, H Vijeth, K Rajesh, Suresh D Kulkarni, Neelamma Gummagol and M S Murari DOI 10.1088/1361-6463/ad1edd

NATIONAL CONFERENCES

1. Presented a research paper on “Preparation and Characterization of 4-nitrochalcone doped PVA” at MIT Manipal 27-28 December 2013 in the National Conference on Condensed Matter Physics and Applications
2. Presented a research paper titled “Study of Structural, Optical and Photo luminescence Properties of ZnO Doped PVA/PVP Nanocomposite” in the “National Conference on Physics and Chemistry of Materials” held at Govt. Holkar Science College Indore on 27th December 2018
3. Presented a research paper titled “Structural, mechanical and optical properties of PVA doped with TiO₂ and ZnO nanoparticles” in the “National Conference on Physics and Chemistry of Materials” held at Govt. Holkar Science College Indore on 27th December 2018
4. Presented a research paper titled “Effect of V₂O₅ nanofillers on PVA/PVP Blend” in the 9th National Conference on CMPA-2021 at MIT Manipal during 16-17 September 2021 in online mode.
5. Presented a research paper on “Structural and Optical Properties of PVA/PVP Blend filled withV₂O₅ Nanofiller” at St Aloysius College (Autonomous) on 19 April 2023

INTERNATIONAL CONFERENCES

1. Presented a research paper on “Enhancement in Structural and Optical Properties of ZnO Doped PVA/PVP Polymer Nanocomposites” in the International Conference (ICONN-2017) held at SRM University Chennai from 9-11 August 2017
2. Presented a research paper titled “Effect of ZnO Nanofiller on Dielectric and Mechanical Properties of PVA/PVP Blend” in the “International Conference on Advanced Materials” (ICAM 2019) at Nirmalagiri College Kannur on 13th June 2019
3. Presented a research paper on “Effect of CuO nanofiller on PVA/PVP Blend” in the International Conference on Multifunctional Materials held from 19th December to 21st December 2019 at Geethanjali College of Engineering and Technology Hyderabad
4. Presented a research paper on “Advancement in Structural, Morphological and dielectric Studies of PVA filled TiO₂ and ZnO nanocomposites ” in the International Conference on Multifunctional Materials held from 19th December to 21st December 2019 at Geethanjali College of Engineering and Technology Hyderabad

ONLINE COURSES

1. Completed Swayam Online Certification Course on “Resources and Environment” in September 2020.
2. The Foundation Course on Research Methods by IUCEE Foundation October 2020-March 2021
3. Online International Faculty Development Program on Enhancing Clean, Green, & Smart Learning Spaces in & around Campus Conducted by: the IUCEE Academic & Industry Experts March - June, 2021
4. Self-learning Course on Green Productivity and Environment Management System by National Productivity Council in April 2021.

BOOK CHAPTERS PUBLISHED

1. Vincent Crasta and Rajesh Kochi Structural and Optical Study of Metal Oxide Filled Polymer Blend, Newest Updates in Physical Science Research Vol.10 DOI: <https://doi.org/10.9734/bpi/nupsr/v10/7683D>