

FACULTY PROFILE

Dr. SOUMYA S BULLA

Assistant Professor

Department of Studies in Physics

Qualification : M.Sc. Physics, Ph.D. KSET

Areas of Specialization : General Physics

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Vision

To use my research and teaching experience in enabling the students to effectively use the skills acquired to help, identify and vehemently pursue any objectives in a practical manner. Take up the social responsibility towards the educational uplift of the students and professional growth as institutional commitment.

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	PhD.	Polymer Physics	Dr. R.F. Bhajantri Karnatak University, Dharwad	2022
2	M.Phil.	--	--	--
3	NET/SLET	Physical Sciences	Karnataka State Eligibility Test Center (KSET), University of Mysore	30-Nov-2014
4	PG	Physics	School of Physical Sciences. Central University of Karnataka	2014
5	UG	Physics, Chemistry and Mathematics	S.G. Degree College, Koppal. Gulbarga University	May-2012

Professional Details (Academic/Research Experience)

Sl. No.	Designation	Institution/University	UG/PG	From	To
1.	Assistant Professor	Department of Studies in Physics, Davangere University, Davangere.	PG	05-2019	Present
2.	Research Scholar	Department of Physics Karnatak University, Dharwad	Ph.D.	05-2017	05-2019
3.	Guest Faculty	Department of Physics, PG Center, Shree GaviSiddeshwara College, Koppal.	PG	08-2015	05-2017
4.	Guest Faculty	Government first grade college Koppal	UG	07-2016	04-2017

Areas of Research Interest:

1.	Optical and Electrical properties of Polymer based Nano Composites.
2.	Preparation of Dye Doped Polymer Nano Composites.

Academic Responsibilities :

1.	Invited talk on XRD, GMIT, Davangere
2.	Warden, Gangotri Ladies Hostel, DU, Davangere.
3.	IQAC, Assistant Coordinator, DU, Davangere.
4.	IQAC, Assistant Coordinator, DoS in Physics, DU, Davangere.
5.	ICC, Assistant Coordinator, DoS in Physics, DU, Davangere.
6.	Member of Board of studies in Physics at Davangere University.
7.	Member of Board of Examination in Physics at Davangere University.

Research Publications:

a) International Journals

1.	Soumya S Bulla, Rajashekhar F Bhajantri, Chetan Chavan, K. Sakthipandi "Biosynthesized Silver Nanoparticles Encapsulated in a Poly(vinyl alcohol) Matrix: Dielectric and Structural Properties" ChemistrySelect 2022 (Accepted)
2.	<i>Chavan, Chetan, R. F. Bhajantri, Soumya Bulla, H. B. Ravikumar, M. Raghavendra, K. Sakthipandi, K. Yogesh Kumar, and B. P. Prasanna.</i> "Ion dynamics and positron annihilation studies on polymer ceramic composite electrolyte system (PVA/NaClO ₄ /Y ₂ O ₃): Application in electrochemical devices." Ceramics International 48, no. 12 (2022): 17864-17884.
3.	<i>Chavan, Chetan, Rajashekhar F. Bhajantri, Vipin Cyriac, Soumya Bulla, H. B. Ravikumar, M. Raghavendra, and K. Sakthipandi.</i> "Exploration of free volume behavior and ionic conductivity of PVA: x (x= 0, Y ₂ O ₃ , ZrO ₂ , YSZ) ion-oxide conducting polymer ceramic composites." Journal of Non-Crystalline Solids 590 (2022): 121696.
4.	Soumya S Bulla, Rajashekhar F Bhajantri, Chetan Chavan "Insight into the impact of neutron irradiation on optical parameters of polymethylmethacrylate (PMMA) loaded with Methyl red (MR)" (Accepted in Journal of Science - Karnatak University Dharwad)
5.	Bulla, S.S., Bhajantri, R.F., Chavan, C. et al. "Synthesis and characterization of polythiophene/zinc oxide nanocomposites for chemiresistor organic vapor-sensing application". J Polym Res 28, 251

	(2021). https://doi.org/10.1007/s10965-021-02618-7
6.	Bulla, S.S., Bhajantri, R.F. & Chavan, C. “Optical and Structural Properties of Biosynthesized Silver Nanoparticle Encapsulated PVA (Ag–PVA) Films”. J Inorg Organomet Polym 31 , 2368–2380 (2021). https://doi.org/10.1007/s10904-021-01909-2
7.	<i>Chavan, Chetan ; Bhajantri, Rajashekhar F; Bulla, Soumya S; K, SAKTHIPANDI,</i> “Indigenously Designed and Fabricated Mechanical Milling set-up to Synthesis Nanoparticles: A Cost-effective Method” Indian Journal of Pure and Applied Physics 59 (September 2021):603-611
8.	<i>Chavan, Chetan, Rajashekhar Fakeerappa Bhajantri, Soumya Siddalingappa Bulla, and Kathiresan Sakthipandi.</i> "Designed and fabricated a low-cost E-Spun experimental tool for polymer processing." Indian Journal of Engineering and Materials Sciences (IJEMS) 28, no. 4 (2021): 343-349.
9.	Soumya S. Bulla, Rajashekara F. Bhajantri, Chetan Chavan, Shivaprasad Chalawadi, Mallikarjun Anandahalli, and Satyappa Kalliguddi , "Optical properties of neutron irradiated PMMA doped methyl red", AIP Conference Proceedings 2244, 090004 (2020) https://doi.org/10.1063/5.0009329
10.	<i>Chavan Chetan, Rajshekar F. Bhajantri, Bulla Soumya, Chalawadi Shivaprasad, Anandahalli Maliakarjun, and Kalliguddi Satyappa</i> , “Effect of calcination temperature on synthesized ZnO nanoparticles”, AIP Conference Proceedings 2244, 070015 (2020) https://doi.org/10.1063/5.0009107
11.	Soumya S.B, Arshad Ayub.H, Ambresh P.A and Pushpanjali. G. M, “Some Aspects on Electromagnetic Scalar and Vector Potentials in 2D Space: A Review Paper”, IJEE Volume 5 • Number 1 • January-June 2013 pp. 69-72
c) International Conference	
1.	Poster presentation on “ Study of AC and DC conductivity of prepared UV irradiated PVE-PEG-Bi2O3-ZnSe nanocomposite ” at ICASMA, organized by RIT Bangalore.
2.	Participated in Virtual international conference on Advanced materials organized by IVCAM, BKASC, Chikkodi.
3.	Presented paper at “International Conference on Physics of Materials and Nanotechnology ICPN-2019”, organized by Mangalore University.09-2019
4.	Presented paper at 2nd International Conference on Innovations in electronics & Communication and Engineering (ICIECE -2013) Arshad Ayub.H, Soumya S.B and Ambresh P.A, “Some Study on Multipole Expansion in Electromagnetism”, , pp. 993-997, Aug. 09-10, 2013, Guru Nanak Institution (GNI), Ibrahimpatnam, Hyderabad, Andhra Pradesh
d) National Conference	
1.	“Study of Optical Properties of Methyl Red Doped PMMA: Before and After Neutron Irradiation” One-day National level conference on Advances in Nano-Electronics and Material Science

	Organized by P. C. Jabin Science College, Hubballi (12-Mar-2019).(Oral Presentation)
2.	Presented paper by Soumya S.B, ArshadAyub.H, Ambresh P.A and Pushpanjali. G. M, "Some Aspects on Electromagnetic Scalar and Vector Potentials in 2D Space: A Review Paper", Two days National Conference on Recent Trends in Management & Technology, Bhemmanna Khandre Institute of Technology, Bhalki, April 5-6, 2013. (ISBN: 978-81-921740-2-0).

Conference/ Workshops/Trainings attended/organized:

International/National Conferences:

೧. ಸ್ವದೇಶಿ ವಿಜ್ಞಾನ ಆಂದೋಲನ-ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು ಮತ್ತು ದಾವಣಗೆರೆ ವಿಶ್ವವಿದ್ಯಾಲಯ, ದಾವಣಗೆರೆ ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ ಆಯೋಜಿಸಿರುವ ೧೫ ನೇ ಕನ್ನಡ ವಿಜ್ಞಾನ ಸಮ್ಮೇಳನ ಜರುಗಿದ ದಿನಾಂಕ ೧೫-೧೬ ನೇ ಸೆಪ್ಟೆಂಬರ್ ೨೦೧೯.
2. Attended National Seminar on "**Frontier methods & Techniques for Probing Molecules & Materials**" held at Karnatak University, Dharwad.03-2018
3. Attended KSTA National Conference on "**Impact of Science & Technology on Society & Economy**" held at VSKU, Bellary.03-2017
4. Attended two days National level seminar on "**Emerging Trends in Material Science**", held at SG College Koppal. 03-2012.

Workshops/Seminars/Symposium Attended:

1. Organising committee member – National webinar on '**Biological effects of ionizing radiation, and Biological bases of radiation protection**', held online on 12th and 17th June, 2020.
2. Organising committee member – 'National webinar on **Raman Effect and its applications**' held online on 25-06-2020.
3. Organising committee member – Short term course on **Basic Electronics** held online from 6th to 12th July, 2020.
4. Organising committee member – One Day workshop on **PEO's, PO's and CO's in Outcome based education** held on 15-12-2020.
5. Organising committee member – Celebration of **National Science Day – 2021** and Inauguration of Physics Forum held on 23-03-2021
6. Attended five days workshop on "**Material Processing and Characterization-2019**" organized by National Physics Laboratory, NewDelhi.08-2019
7. Attended one day workshop on "**Society, Research & Development**" held at Karnatak University,

Dharwad.02-2018.

Training Programme:

1. Participated in Short term training on “**Learning Physics Through Simple Experiments**” conducted by CCE, IIT Kanpur
2. Participated in Short term course on “**Material Processing and Characterization**” CSIR-National Physical Laboratory, New Delhi.
3. Online Course on “Physics of Semiconductors” (15 Aug 2017 to 20 Nov 2017) organized by Indian Institute of Technology Kanpur, Centre for Development of Technical Education IIT,Kanpur.
4. Computer Teacher Training Course.

Personal Details

Gender	FEMALE	
Date of Birth	15-02-1992	
Contact details	Address for Communication	Permanent address
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