

Name of Faculty Dr. SANTHOSH KUMAR A
 Designation Assistant Professor
 Nature of Job/Appointment Contract
 Date of Joining 01-07-2019
 E-mail asanthoshkumar_physics@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Physics)	Awarded
PG	M, Sc (Physics)	First
UG	B. Sc.	First

Work Experience

Teaching	6 years
Research	11 years
Industry	2 years
Others	-

Area of Specialization Materials Science, Opto-Electronic Nanostructures

Professional Memberships -

Responsibilities held at Institution Level Research Coordinator, R&E, CBIT from 06-12-2019 to till date

Responsibilities held at Department Level Mentor, Student Induction Program -2019

Research Guidance --

Awards Received

- SERB-NPDF fellowship
- DRDO-DIAT Senior Research fellowship
- DRDO-DIAT Postdoctoral Research Associate fellowship
- MHRD- NITK Research fellowship

Courses Handled at Under Graduate / Post Graduate Level.

No. of Papers Published

Physics, Optics and Semi-conductor Physics	National Journals –	--	International Journals –	15
	National Conference –	--	International Conference –	12

Projects Carried out Noble plasmonic AuPd anchored ZnO/SnO₂ nanoarray heterostructures for an efficient Light Emitting Devices and Sunlight Photocatalytic decomposition of energetic materials funded by DST (SERB/PDF/004095), Grant: 19.2 lakh

Patents --

Technology Transfer --

Invited Speaker Resource Person, Workshop on "Experimental Physics for High School Teachers" 19 th January 2013 at NITK, Surathkal (Invited Talk)

No. of Books/Chapter Published with details --

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/ Workshops. Other Trainings (Attended and/or Organized).

- One Week Faculty development program on Recent Advances in Biomedical Applications and Communication Networks, GMRIT, Rajam, During 13 -18 July 2020
- International webinar on Emerging Trends in Materials Science-2020, Department of Physics, maharaja Bhoj Govt PG college, M.P, during 5-7 July 2020
- Five days Faculty Development Program on Renewable Energy Systems, IGEN PIT, During 8th June 2020 to 12th June 2020.
- Learning Physics Through Simple Experiments, IIT Kanpur From 02-04-2020 to 10-06-2020
- One week online Faculty Development Program on Materials: Recent Trends & Engineering Applications, GRIET, Hyderabad, During 2nd June 2020 to 07th June 2020.
- One-Week Online Faculty Development Programme (FDP) on "Outcome Based Education & NBA Accreditation", CBIT, Hyderabad During 28/5/2020 to 1/6/2020
- Understanding Research Methods, University of London (Coursea) -4weeks
- One-week Online Faculty Development Program on "The Use of

Virtual Physics Labs - Creating Next Generation Teachers", May 20-24, 2020.

9. How Things Work: An Introduction to Physics, University of Virginia (Coursea)- 8 weeks
10. One day seminar on "Recent Trends in Materials and Its Applications in Engineering" organized by Dept. of Physics, CBIT, Hyderabad at CBIT on 20.11.2019.
11. One day Seminar on "Physics and its applications in Engineering" organized by Dept. of Physics, CBIT, Gandipet, Hyderabad at CBIT on 13.03.2019.
12. National workshop on Small and Wide Angle X-Ray Scattering (SWAXS), DIAT, Pune During 12-13 Dec 2018.

International/National Journals from the Year 2017

1. Premkumar Murugaiyan, Amitava Mitra, Ashis K Panda, A Santhosh Kumar, Rajat K Roy, Suneel Kumar Srivastava, Electromagnetic interference shielding effectiveness of soft magnetic amorphous ribbons, *Physica B: Condensed Matter* (2019), 568: 13-17
2. Sandesh, Santhosh Kumar A, Amruta Jambhale, P. S. Kulkarni, A. C. Abhyankar "Enhanced photocatalytic activity of magnetic BaFe₁₂O₁₉ nano-platelets than TiO₂ with emphasis on reaction kinetics, mechanism and reusability" *ACS: Industrial & Engineering Chemistry Research*, DOI: 10.1021/acs.iecr.8b02859 (2018).
3. Manoj Oval, Santhosh Kumar A, Manjeet kumar, A. C. Abhyankar "Photoluminescence quenching and enhanced spin relaxation in Fe doped ZnO Nanoparticles" *Materials chemistry and physics* (2017) 195: 58-66.

International/National Conference Proceedings from the Year 2017

4. Santhosh Kumar A, Y Srinivasa Reddy, Raja Gopal K, Ashutosh C Abhyankar, Growth of Hydrophobic Al doped ZnO nanoarrays and their Raman Scattering, Photoluminescence and Photo detection properties, "International Conference on Purification and Recycling of Electronic Materials (ICPREM-2020)" organized by C-MET Hyderabad during 8-10 March 2020.
5. Santhosh Kumar A, Rama Krishna Reddy B.S., Naresh Chinta, A. C. Abhyankar "Enhanced Photoluminescence and Photosensing properties of Al doped ZnO nanoarrays" 18-20, December 2017, IIIT (RGUJKT)-Basar. (Oral)
6. Santhosh Kumar A, Manoj Ovhal, B.V. Bhaskara Rao, S.N. Kale and A.C. Abhyankar "Sputter deposited Intermetallic Ni₃Al nanocrystalline thin films: An efficient microwave shielding application", ICMAGMA-2017, 1-3 Feb 2017, DMRL, Hyderabad. (Poster)