

Dr. SANJIT KUMAR DAS



Designation: ASSOCIATE PROFESSOR

About Me:

Dr. Sanjit Kumar Das has joined W.B.E.S. in 1999 as Lecturer in Physics. Since then he has been taking undergraduate classes, both of hon. and General, in different branches of Physics. Apart from the academic work, he has carried out different responsibilities assigned to him by the college authorities, like, working as members of different sub-committees, acting as HOD Physics at Krishnanagar Govt. College & Govt. College of Engineering and Textile Technology, Berhampore etc. He has also performed duties of Examiner, paper setter, head examiner of different Hons. and General papers of University examinations.

Qualifications:

M.Sc. (Calcutta University), M.S. (BITS Pilani), Ph.D. (National Physical Laboratory, New Delhi)

Title of Ph.D. Thesis: Study of the effect of energetic ion irradiation on $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconductor

Current Teaching:

Currently Dr. Sanjit K. Das has been teaching Electricity & Magnetism in Part II, Electromagnetic Theory & Nuclear Physics in Part III. He also takes practical classes in Semester I of newly started B.Sc. (Hons.) course in CBCS system, Part II Hons. and General courses.

Research Interests:

During his Ph.D. years, Dr. Sanjit K. Das has learnt different techniques of thin film deposition in uhv environment. He has prepared bulk superconductors (YBCO system) in laboratory, also learnt different characterization techniques like, X-ray diffraction, Auger electron spectroscopy, XPS etc. He gained experience on heavy ion accelerator (pelletron) while studying irradiation effect on superconductors at Nuclear Science Centre, New Delhi. After his Ph.D., Dr. Das worked as Junior Project Officer in a DAE sponsored project "Semiconductor Lasers (SEL)" at Materials Science Centre, IIT, Kharagpur and gathered some experience of working with III-V and II-VI semiconducting systems.

Selected Publications:

- i) An analysis of electron beam evaporation of SrTiO_3 on Si substrates, Sanjit K. Das, P.K.Ashwini Kumar and S. K. Sarkar, J.Phys.:Condens. Matter, 6, L445(1994)
- ii) Effect of sample temperature on the irradiation effects of energetic particles in the YBCO system, S. K. Das, P. K. Ashwini Kumar, S.K. Sarkar. D. Kanjilal and L. Senapati, Vacuum, 46, 227(1995)

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