INTRODUCTION TO MATERIAL SCIENCE AND ENGINEERING

Prof Ratnesh Das
Department of Chemistry
Dr Harisingh Gour Central University Sagar
E mail:ratneshdas1@gmail.com

Key words: Material Science, Engineering and Its Types.

Introduction to Materials Science and Engineering atomic structure and bonding crystal structures and crystal and geometry solidification, crystalline imperfections, and diffusion in solids electrical properties of material mechanical properties of metals polymeric materials phase diagrams engineering alloys ceramic materials magnetic materials corrosive composite materials optical properties and superconducting materials.

RESUME



PROF RATNESH DAS

Ratnesh Das is a Professor in the Department of Chemistry, Dr.Harisingh Gour Central University, Sagar, India. He commands a rich experience in teaching, and research of about 16 years during which he has supervised many sponsored research projects. His active research areas include Heterocyclic synthesis, medicinal chemistry , electro-organic chemistry, synthesis of nano-catalysts and green chemistry. He has authored about 60 research papers in peer-reviewed national and international journals and refereed conferences organized by professional societies around the world. He is an active member of several professional bodies and societies, both in India and abroad. He is a vibrant speaker and delivered many lectures in conferences, workshops, and seminars organized both in India and abroad.

Education

Ph.D.: 1997-2001 in Chemistry, Dr.Harisingh Gour Central University, Sagar, India.

M.Sc.: (First Division 64.7 %) 1995-1996 in Organic chemistry, Dr.Harisingh Gour Central University, Sagar, India.

B.Sc. ; (First Division 68 %) 1992-1994 in Chemistry, Zoology and Botany, Dr.Harisingh Gour Central University, Sagar, India.

12 th : (First Division70%) 1991 in Chemistry, Physics and Biology, .St Josephs Convent H.S.School Sagar.

Academic & other positions

Professor (07/2019- till date) in the Dept. of Chemistry, Dr.Harisingh Gour Central University, Sagar, India.

Associate Professor (07/2016 to 07/2019) in the Dept. of Chemistry, Dr.Harisingh Gour Central University, Sagar, India.

Assistant Professor (07/2004 to 07/2016) in the Dept. of Chemistry, Dr.Harisingh Gour Central University, Sagar, India.

Sponsored research

Sponsored research projects completed for:

1. University Grants Commission.
2. SERB-DST.
3. MPCST