# THE INDIAN INSTITUTE OF METALS
# KHARAGPUR CHAPTER
# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

## Report on Workshop arranged by IIM Kharagpur Chapter

A two-day workshop on the topic **"Density Functional Theory and its Applications in Materials and Devices"** was organized by the IIM Kharagpur Chapter on **14th and 15th of September 2017** in the Department of Metallurgical & Materials Engineering at Indian Institute of Technology Kharagpur. This was the 1st technical event organized by the newly appointed Executive Committee from 1st September 2017 of the Chapter for the year 2017-18. The Chapter plans to arrange for a series of technical events comprised of technical seminars to be delivered by eminent scientists and scholars, workshops and outreach activities.

The Convener and Co-convener of the workshop were two distinguished professors of the Department of Metallurgical & Materials Engineering, Professor Sudipto Ghosh and Professor Koushik Biswas. Professor GP Das, a senior eminent professor from Department of Materials Science at Indian Association for the Cultivation of Science, Jadavpur, WB was invited as the guest lecturer in the workshop. Professor Das, who worked as a scientist in different levels in Bhaba Atomic Research Center, Mumbai form 1978 to 2004, is an erudite researcher in the area of computational condensed matter physics and materials science, in particular, density functional based first-principles investigation of the electronic and magnetic properties of alloys, interfaces, multilayers, clusters and various kinds of nanostructured materials. His current research interests cover spintronics materials, hydrogen storage materials, functionalized nanomaterials and quantum structures. Professor S.K. Srivastava, another distinguished faculty in the Physics Department at IIT Kharagpur also delivered lecture in the workshop.

The Head of the Department of Metallurgical & Materials Engineering, Professor R. Mitra in his inaugural speech made the attendees of the workshop familiar about the Departmental research facility and activities. The Chairman of the Chapter, Professor G.G. Roy presented an overall view on the present scenario in the research area of density Functional Theory. Professor S.K. Roy, a Life Fellow and Honorary Member of IIM and a very senior professor of the Department shared the broader perspective of IIM behind the development of metallurgical sector of the Nation by bringing the students, academicians, researchers and industrialists together under the same forum. Professor Roy also handed over a memento to the guest lecturer, Professor GP Das as a token of appreciation form the Chapter. The inaugural ceremony was coordinated by the Secretary of the Chapter, Professor T. Laha. The inaugural ceremony was ended by vote of thanks delivered by Professor Laha. More than 50 participants form IIT Kharagpur and other research institutes attended this workshop to make it a gala success. There was no registration fee involved in this workshop.

**Some photographs from the workshop are presented below:**

Tapas Laha

Tapas Laha
Secretary, IIM Kharagpur Chapter

Date: 19th September 2017
Place: IIT Kharagpur

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