

MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY

C-4, Janakpuri, Delhi – 110058

Report of event: Expert Talk

ORGANISED BY THE DEPARTMENT OF INFORMATION TECHNOLOGY

Dated: Feb 28, 2018 (Wednesday)

PHOTOVOLTAIC RESEARCH: An Indian Perspective

The department of Information Technology organized an expert talk on the **prospects of research in the field of Photovoltaics in India** and this thoughtful and enlightening talk was delivered by Prof. Vikram Kumar of the department of IT for the teaching staff of MSIT.



The talk mainly encompassed the **following topics**:

- ❑ World Energy Demand: The developed and developing nations' needs, considering the various global and official statistics were thrown light on.
- ❑ Solar Energy and Devices: The structures, uses, functioning and applications of solar energy and in particular solar cells were discussed.

- ❑ Crystalline Silicon Cells: The various modules, ratios of efficiency and feasibility factors were discussed.
- ❑ PV Systems: International PV scenarios, price trends, global and per capita capacities were talked about.
- ❑ Solar Farms: Installation and establishment of solar farms using solar panels in rural and urban households and other setups was explained.
- ❑ National Solar Mission: The researches of the Ministry of New and Renewable Resources (MNRE) and Department of Science and Technology – Solar Energy Research Initiative (DST – SERI) were thoroughly discussed.
- ❑ Renewable Energy: The professor discussed the global and national avenues to be explored available and the extended scope of development of these renewable energy resources.
- ❑ International Scenario and Global Trends
- ❑ New Technological Upgradations: Newest advancements in the field of photovoltaics were explored. The various advents available were also thrown light on.
- ❑ Global Value Statistics: The various global figures established and compiled on a global level were incorporated in the talk by the esteemed professor.
- ❑ R&D Avenues: The scope of the research in the field of photovoltaics was explored.

The faculty had a series of questions and answers and the Q&A session was very fruitful and interactive. The Speaker was facilitated by the Director of MSIT, Dr. K.P. Chaudhary.