



Energy Meet- 2018

***National Seminar on Sustainable
Solutions for
Energy and Environment***

August 6-7, 2018

*Organized by Department of Pure and Applied Physics,
University of Kota, Kota, Rajasthan, India*

*Under the Newton-Bhabha Project Activity-A joint scheme of Royal
Academy of Engineering, UK and FICCI, India*

Project Partners

Cranfield University, UK Durham University, UK MSA Renewtech, India



About The University

The University of Kota is a State university established in the year 2003 and recognised by UGC under section 2(f) & 12(b) by the UGC act 1956. Presently, around two lakh students in campus and affiliated colleges come under its jurisdiction including six districts namely- Kota, Bundi, Jhalawar, Baran, Karauli and Sawai Madhopur. The University has six faculties, namely Faculty of Arts, Commerce & Management, Education, Law, Science and Social Sciences.

About The Department

The Department of Pure & Applied Physics, University of Kota, Kota has been in existence since 2007 with an objective to provide the quality education in the field of pure as well as applied Physics. The department offers following courses;

- B.Sc.Honors in Physics
- M. Tech. (Solar Energy)
- M.Sc. Physics
- M. Phil. (Physics)
- PhD

The course curricula of the above programmes were designed by the academicians, energy professional/ technocrats and physicists. The department has earned a good reputation of being an important centre for quality education. The faculty members have been actively engaged in research in the field of Solar Energy, Laser-Plasma interaction, Thermo Nuclear fusion, Material Science, Nanotechnology etc. The students, besides studying the regular courses, are provided adequate exposure of frontier research by way of trainings at various organizations like BARC, CAT, IGCAR, IUC, IPR etc.

About M.Tech. (Solar Energy)



Indian government is aiming at 100GW of capacity addition through solar power by 2022 and to create a transition towards maximizing use of solar energy in various applications. For this the requirement of skill development in field of solar energy technologies is must. Department of Pure and Applied Physics started the course M.Tech. (Solar Energy) in 2014, which aims at providing rigorous training and know-how of solar energy technologies to the students. Solar energy technologies are varied and cover the areas ranging from heating, cooling, cooking, electricity production, drying, distillation, agricultural and industrial applications etc. M.Tech. (Solar Energy) is a complete scientific course addressing the issues of solar energy technologies and power generation. It may be highly useful and relevant to the solar power sector companies, hybrid systems planning and execution, solar thermal devices, research and development and entrepreneurship. The duration of the course is two years which has been organized in four semesters. The first three semesters consist of theory, laboratory work, and seminar. Fourth semester focuses on research project.



The Royal Academy of Engineering has been engaged as a Delivery Partner under the Newton-Bhabha Fund – an initiative of the Indian and UK Governments to enhance science, innovation and research cooperation between the two countries. As part of the Newton-Bhabha Fund the Academy has partnered with Federation of Indian Chambers of Commerce and Industry (FICCI) to help enhance research and innovation capacity and improve engineering education within universities in India through building industry-academia linkages. University of Kota is one of the fifteen institutions selected from all India level to participate in this scheme. The project being pursued at University of Kota as Lead University is entitled “Enhancing teaching and research and development in Solar Energy Materials and Technologies through Capacity Building and Collaborative Research Projects”.

Lead University Representative

Dr. Namrata Sengar

Other Persons involved from Lead University

Prof. N. K. Jaiman

Dr. Saurabh Dalela

Dr. Ghanshyam Sharma

UK Partners (UK Universities representative)

1) **Dr. Chris Sansom**, Cranfield University, Cranfield, Bedfordshire, United Kingdom

2) **Dr Douglas Halliday**, Durham University, Durham, United Kingdom

Industry Partner

Mr. Deepak Gadhia, MSA Renewtech, Vadodara, Gujarat, India.

Cranfield University, UK

Cranfield University is world-leading in its contribution to global innovation. They generate and transform knowledge, translating it to the benefit of society. Their partners are from micro SMEs to the largest blue-chip multinationals, from governments across the world to NGOs and charities. Within the Precision Engineering Institute of Cranfield University is located the “Global CSP Laboratory” – the UK centre for Concentrating Solar Thermal Manufacturing and Concentrating Solar Power (CSP) research. The Laboratory carries out research in Concentrating Solar Power, Solar Thermal materials and applications, thermal energy storage, and thermal energy harvesting.

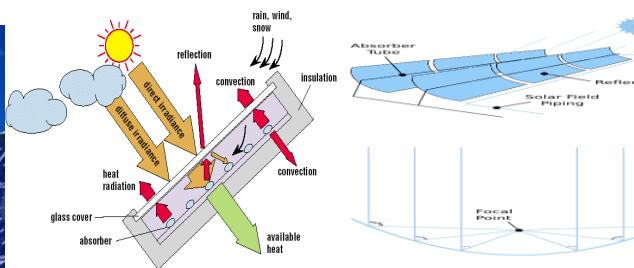
Durham Energy Institute, Durham University, UK

Durham University, founded in 1832, has an excellent worldwide reputation in all areas of arts, humanities, natural and social sciences. Durham University is ranked 61st in the QS World University Rankings 2015-2016. Durham is the 4th ranked Physics department in the UK. Durham University’s Energy Institute is a leading UK energy research institute and the hub of Durham’s cutting edge research into energy issues and technology. A number of academic staff in the departments of Physics, Chemistry and Engineering undertakes programmes of research into new materials for the next generation of low-cost sustainable thin film photovoltaic devices.

Industry Partner-MSA Renewtech, India

MSA Renewtech Foundation is a company formed under section 25 of Indian Company Act which means that it is a social enterprise and the profits of the company goes to support social cause. The promoters of the company are leading experts in Solar and Sustainability sector. Mr. Deepak Gadhia is known in India as the father of Solar thermal concentrating technology in India. His team has designed in India the world’s first large scale Solar Steam Cooking System. The company is part of a NGO that is known as Green Ashram and is working to create a model for smart village based on sustainable solutions. The company works in solar cookers, solar air-conditioning, solar water heaters, solar PV irrigation, solar stills etc.

About the Seminar



Worldwide the new priorities with the large scale development initiatives are shaping a way forward with technological advancements which demand sustainable solutions for energy and environmental issues. The new era of research and development dictates the contemporaneous need to initiate technologically feasible and economic viable methods of power production and energy usage. Both solar thermal and photovoltaic technologies are capable of providing solutions to various challenges faced related to energy and environment. The need of the hour is an in-depth exploration and assessment of various aspects related to energy technologies and environment issues. The seminar aims to provide a forum to discuss on key scientific and technology issues relevant to energy conversion and use covering industrial, societal and environmental perspective. The seminar will consist of an inaugural session, technical sessions with invited talks from industry/academic experts, poster paper presentation and visit to solar energy laboratories at University of Kota.

Patron

Prof. Ashok Sharma
Hon'ble Vice Chancellor,
University of Kota, Kota

Chairperson

Prof. N.K. Jaiman
Dean, Faculty of Science
University of Kota, Kota

Organizing Committee

Dr. Saurabh Dalela
Convener

Dr. G. Sharma
Member

Dr. N. L. Heda
Member

Dr. Namrata Sengar
Organizing Secretary

***There is no registration fee but outside participants need to arrange for their travel and accommodation.**

****Three best student posters on energy/environment research projects will be awarded on evaluation.**

Venue

Seminar Hall, Sarswati Bhawan, University of Kota, Kota.



Contact:

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