# ANAND SUMMER SCHOOL

# Course Name: Solar Energy-A Beginning of New Era

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|  | Mentor:Prof. Anil Dhawan; Head – Applied SciencesPh.D (Phy), M.Sc. (Phy) COSIST, B.Sc.20+ Yrs. Experience in Academia & Research40+ National & International Publications (inclusive of conferences) & 1 Book1 Major project of Rs. 25.00 Lac from DAE, Govt. India 1 Project from IUAC-DAE, Govt Of India with 3 shift of Beam Time |

# Course Objective:

Solar Energy the Ultimate Renewable energy in the current perspective. The conceptual part related to the working of the solar cells. The role of different solar cells and solar panels will be studied. Applications of solar Energy and the current role of Nano-Technology in improving the efficiency of solar cells.

# Outcomes of the Course:

Become learned about Solar energy its generation, its uses and its future in coming years. Students will get the basic knowledge about the functioning of Solar cells and use of solar panels Different generation of solar cells and role of Nano-Technology in improving the efficiency of solar cells to a great extent leading to the- beginning of the new era !!!!!

# Weekly Activities:

Week 1

Basics about Solar energy, Solar cells- Materials -Content for the Solar energy, Solar cells formation through Clips and videos

Week 2

Conceptual part related to working of the solar cells, Types of Solar cells in regards of the Physics involved in it-Materials-Through videos; Role of nanotechnology in improving the efficiency of solar cells and its scope-Materials-Through content, clips, relevant videos and live demonstration of its working in the Lab.