

हंसराज कॉलेज



**HANS RAJ
COLLEGE**

UNIVERSITY OF DELHI
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दिल्ली विश्वविद्यालय
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**NAAC ACCREDITED 'A++' GRADE
COLLEGE**

2024-2025

Name of The Event: One-day training programme on “Solar Energy for Sustainable Development”

Organised By: Lumen: The Physics and Electronics Society

Venue Of The Event: Mahatma Gandhi Institute for Combating Climate Change (MGICCC (Govt. of NCT of Delhi), Bakoli, Delhi

Date Of The Event: 14th October 2024

Name Of The Convenor: Dr. Davuluri Srikala

LUMEN | The Physics & Electronics Society
Hansraj College, University Of Delhi

**ONE DAY
TRAINING PROGRAMME**

**SOLAR ENERGY FOR
SUSTAINABLE DEVELOPMENT**

October 14, 2024
Organised
by
Mahatma Gandhi Institute for Combating Climate Change, Bakoli, New Delhi

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Mahatma Gandhi Institute for Combating Climate Change (MGICCC (Govt. of NCT of Delhi), Bakoli, Delhi has organized a One-day training programme on “Solar Energy for Sustainable Development, on 14th October 2024. 3rd year and 2nd year students of B.Sc (H) Physics and Electronics along with some of the departmental teaching and non-teaching faculty members were taken in College bus to attend this training program. The training program includes a lecture on sustainability of solar energy by an eminent faculty and a tour to the working model designed by the institute.

The lecture covered:

Reasons for Solar energy for being considered as sustainable energy are:

- It is derived from processes that do not jeopardize the energy needs of future generations.
- It is more environmentally sustainable than fossil fuel energy sources.
- Solar panels mitigate greenhouse gas emissions, air pollution, and habitat destruction.
- While the production of solar panels does release emissions, a solar panel system's energy payback period is still very low

From solar panels adorned with nanowires to windows that magically transform light into electricity, the spectrum of innovations is as diverse as promising. The thin, flexible solar panels, solar farms on water, and solar paint are now real inventions. These innovations bring us closer to a future where almost anything can produce clean energy.

India has made remarkable progress in solar energy, achieving over 50 GW of solar PV capacity by 2022. The country is targeting around 500 GW of renewable energy deployment by 2030, with 280 GW expected from solar PV.

A briefing was done on “India’s Vision 2030”:

- 500 GW of renewable energy capacity by 2030
- Meeting 50% of its energy requirement from renewable sources by 2030
- Reducing the total projected carbon emissions by 1 Bn Tonnes by 2030
- Reducing the carbon intensity of its economy by under 45%
- Becoming a net zero carbon country by 2070

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HANSRAJ COLLEGE				
Department of Physics and Electronics				
List of Faculty members and students visiting Mahatma Gandhi Institute for Combating Climate Change (MGICCC), Bakoli, Delhi on Oct 14, 2024				
Staff Members				
1	Dr. Nishant (Teaching)			
2	Dr. D Srikala (Teaching)			
3	Prof. Sushil Kumar (Teaching)			
4	Prof. Amit Seghal (Teaching)			
5	Dr. Maya Verma (Teaching)			
6	Dr. Ravikant (Teaching)			
7	Mr. Chandra Shekhar (Non-Teaching)			
Students				
NAME	ROLL NUMBER	Course & Sem	Signature	
1	Anoop Kumar	8955	Physics Hon (V Sem)	Anoop
2	Shatakshi Srivastava	8902		
3	Sachin Taak	8963	physics hon	Sachin
4	Sakshi	8983		
5	Hitesh Chaudhary	8954		
6	Harsh Verma	8928	Physics hon	Harsh Verma
7	Vansh Batra	8962		
8	Amrith	8972	Physics Hon (V Sem)	Amrith Patel
9	Mohita Maini	8910		
10	Lakshay Mahajan	8989		
11	Hemant	8945		
12	Abhishek	8969		
13	Arnav Singh	8574	Electronics	
14	Arnav Kumar	8586	Electronics	Arnav Kumar
15	Maurya Vivek dinesh	8578	Electronics	Vivek
16	Anshu	8568	Electronics	Anshu
17	Anjaneya Shukla	8585		
18	Amritansh singh	8584	Electronics	Amritansh
19	Sachin Yadav	8591	Electronics	Sachin
20	Aman	8551	Electronics	Aman
21	Avan Singh Shekhawat	8589	Electronics	Avan
22	Ankit Maurya	8567	Electronics	Ankit Maurya
23	Shivam bisht	8601	Electronics	Shivam
24	Piyush Thapa	8552	Electronics	Piyush
25	Sameer	8599		
26	Atul	8571	Electronics	Atul
27	Manit	14013	Physics (H2) Sem III	Manit Kumar
28	Ankit Krish	13551	Electronics	Ankit Krish
29	Priyanshu	13592	"	Priyanshu
30	Aryan Rana	13594	Electronics	Aryan Rana
31	Srijal Kumar	13599		
32	Shivam Singh	13589	"	Shivam Singh
33	Sumit Mandal	13586	"	Sumit Mandal
34	Chakshu	8949	Physics (Hons)	Chakshu