

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI

[Autonomous College]

Brief Report
of
Skill Based Course on
"Solar Energy and Its Conversion"

Under the aegis of RUSA

Objective	Energy conservation is the crucial issue now days. Awareness regarding the same is very important. Therefore we decided to conduct the skill based course on the "Solar Energy and Its Conversion" was conducted during the 19 th May 2021 to 5 th June 2021 for M.Sc. I and M.Sc. II students.
Report	<p>To get introduce the future of the solar energy, we decided to follow the modules given below,</p> <p>Module 1 (Indian Energy Scenario): Role of energy in economic development and social transformation, Energy and gross domestic product (GDP), Gross national product (GNP) and its dynamics.</p> <p>Module 2 (Various types of energy sources) : Energy sources and overall energy demand, Availability of energy sources, Energy consumption in various sectors and its changing pattern, projected energy demands. Energy Sources: Coal, Oil, Natural gas, Nuclear power, Hydro-electricity, Solar and other renewable sources.</p> <p>Module 3 (Importance of Solar Energy) : Nature of solar radiation, Sun as a fusion reactor, Spectral distribution of extraterrestrial radiation, Estimation of extraterrestrial solar radiation, Radiation on horizontal and tilted surfaces, Beam, diffuse, global radiation and their measurement, Available solar radiation, Measurement of beam, diffuse, global radiation.</p> <p>Module 4 (Conversion of Solar Energy in different forms) : Various ways to convert solar energy into different forms, Pyranometer, Pyrhelimeter, Sunshine duration recorder Angstrom relation, Energy consumption and its impact on environmental climatic change.</p> <p>Module 5 (Future Energy Options) : Sustainable development, Energy crisis, Transition from carbon rich and nuclear energy to carbon free technologies. First three modules were conducted by Dr. Ulka Surawanshi and last two were conducted by Dr. Archana Chavan</p>
Outcome	This training was attended by 9 PG students. All the participants took part in discussion enthusiastically. Finally 50 marks exam was conducted on 7 th June 2021 and the certificates were given to all the participants.

Surawanshi
Incharge Teacher

[Signature]
Dr. V. B. Pujari
Head, Dept. of Physics

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Skill Based Course 2020-21 - Schedule.


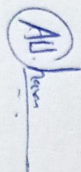
Title of the Course: SOLAR ENERGY AND ITS CONVERSION

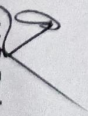
Class: M.Sc. I and II

Duration: 30 Lecture.

Subject: Physics.

Sr. No.	Topic	Name of Teacher	Date	Time
1	Module 1 to Module 3	Dr. Ulka B. Suravanshi	19- 29 May 2021	4:30 pm to 6:30 pm
2	Module 4 to Module 5	Dr. Archana U. Chavan	31 May- 5 June 2021	11:00 am- 01:00 pm



Dr. Ulka Suravanshi
Teacher Incharge


Dr. V.B. Pujari
Head of Department

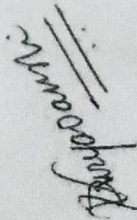
RAYAT SHIKSHAN SANSTHA'S
Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai
(Autonomous College)

Accredited by NAAC at 'A+' Grade with CGPA-3.53

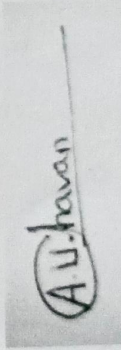
DEPARTMENT OF PHYSICS

CERTIFICATE

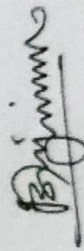
This is to certify that, **AKASH BAJIRAO KAPSE of M.Sc.**
I. has successfully completed skill based course "SOLAR
ENERGY AND ITS CONVERSION" of duration 30 hrs.



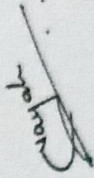
Dr. Ulka Suryavanshi
Course Co-ordinator



Dr. Archana Chavan
M.Sc. Co-ordinator



Dr. Vithal Pujari
Head of Department

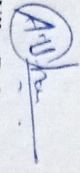


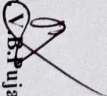
Dr. Shubhada Nayak
Principal

Title of the Course: SOLAR ENERGY AND ITS CONVERSION
 Class: M.Sc. I and II

Rayat Shikshan Sanstha's
 Karmaveer Bhaurao Patil College, Vashi
 [Autonomous College]
 Skill Based Course 2020-21 - Attendance
 Subject: Physics.
 Duration: 30 lectures.

Sr. No.	Roll No.	Name of Student	Gender	19-05-2021	20-05-2021 TUE	21-05-2021	22-05-2021 THU	24-05-2021 FRI	25-05-2021 SAT	26-05-2021 SAT	27-05-2021 SAT
1	209212	MUNAWWAR MOHD HANIF SHAH	Male	P	P	P	P	P	P	P	P
2	209213	SAMREEN MUSHTAQUE RAWOOT	Female	P	P	P	P	P	P	P	P
3	209214	AYUTI VIVEK KOLI	Female	P	P	P	P	P	P	P	P
4	209215	VAIBHAVI BAPURAO MAHAJAN	Female	P	P	P	P	P	P	P	P
5	209216	AKASH BAJIRAO KAPSE	Female	P	P	P	P	P	P	P	P
6	209241	AMRUTA PANDURANG KALBHOR	Male	P	P	P	P	P	P	P	P
7	209242	SHIVANI VIISHNU AGRE	Female	P	P	P	A	P	P	P	P
8	209243	TRUPTI KRISHNAT BHOITTE	Female	P	P	P	P	P	P	P	P
9	209244	UJWALA NIVRUTTI GAWADE	Female	P	P	P	P	P	P	P	P

f

 Dr. Ulka B. Suryavanshi
 Teacher Incharge


 Dr. V. B. Pujari
 Head of Department