

S. I. C. E. Society's
Degree College of Arts, Science and Commerce Ambernath
Permanently Affiliated to University of Mumbai
NAAC Accredited B⁺
Department of Physics
Academic Year 2023-24

Date: 13th July 2023

To,
The Principal
SICES DEGREE COLLEGE
AMBERNATH

Subject: Commencement of Certificate course.

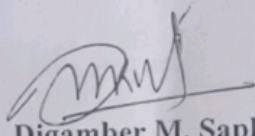
Respected Madam,

In this academic year the Department of Physics planned to conduct a Certificate Course on "SOLAR TECHNOLOGY AS A GREEN ENERGY SOLUTION". From this course students will be acquainted with the knowledge of renewable energy source. As a renewable source of power solar energy also has an important role in reducing greenhouse gas emissions and mitigating climate change.

This course will be beneficial to our college grading from NAAC point of view. kindly give us permission for conducting the above-mentioned certificate course. The detail structure of certificate course is enclosed here.

Thanking you,

Sincerely,


Dr. Digamber M. Sapkal

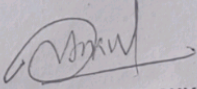
Head

HEAD DEPARTMENT OF PHYSICS
SICES DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
Jambhul Phata, Ambernath (M)

S.I.C.E. Society's
College of Arts, Science and Commerce, Ambarnath (W.)
Department of Physics
Certificate Course - Solar Technology as Green Energy
solutions(30 Hrs)

INDEX

Sr. No.	Chapter	No. of Lectures (30)
1	Sun: The Ultimate Source of Energy	2
2	Story of Solar Energy & Sun's Radiation Analysis	2
3	Solar Cell	2
4	Electricity Basics	2
5	Solar PV System	2
6	Solar PV Batteries	2
7	Tilt of Panels	2
8	Mounting Solar Panels	2
9	Installation of PV System	2
10	Examination	2
11	hands on Training	5
12	Industrial Visit	5


HEAD DEPARTMENT OF PHYSICS
SICES DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
Jambhul Phata, Ambarnath (W)



South Indian Children's Education Society's
Degree College of Arts, Science and Commerce
Jambhul Phata, Ambarnath - Badlapur Road, Ambarnath (west), 421505
Accredited by NAAC with B+ Grade
Permanently Affiliated to University of Mumbai.

Academic Year 2023-24

CERTIFICATE COURSE APPLICATION FORM



1. Full Name Narresh Kantibhai Mali
(In capital) (First Name) (Middle Name) (Surname)
2. Department Science . Class F-Y
3. Roll number FS23001 . Date of Birth 04/08/2004 . Age approx 19
4. Gender Male
5. Religion Hindu . Category open
6. Permanent Address Flat no. 302, Jupiter Heights behind
Gurudev Hotel Katrap, Badlapur east 421503.
7. WhatsApp/Contact No: 8767323330 . E-mail Id narreshmali70499@gmail.com
8. Name of the Certificate Course Solar technology as green solution.

I hereby certify that, the information given in this application is complete and correct. I agree to comply with the rules and regulations of the SICES Degree College.

Place:

Date:

Narresh Mali
Signature of the Applicant

For Office Use only

Application No. 01

Date Received 16/08/2023

Total Course Fee: 300/-

Fee paid receipt no. 372

Verification (Clerk) ✓

[Signature]
Course Co-Ordinator

[Signature]
Head of the Department

[Signature]
Principal



South Indian Children's Education Society's
Degree College of Arts, Science and Commerce
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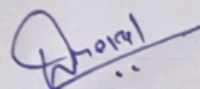
CERTIFICATE COURSE APPLICATION FORM



1. Full Name DARSHANA VINOD MOKUL
(In capital) (First Name) (Middle Name) (Surname)
2. Department Physics Class FYBsc.
3. Roll number 23009 Date of Birth 08/02/2000 Age 23 Yrs.
4. Gender Female
5. Religion Hindu Category S.T.
6. Permanent Address BOO1, Umriya Darshan
Opp. DeepAangan Society, Valivali Badlapur (w)
7. WhatsApp/Contact No: 9004749437 E-mail Id darshnamokul45@gmail.com
8. Name of the Certificate Course Solar Technology As Green Solution

I hereby certify that, the information given in this application is complete and correct. I agree to comply with the rules and regulations of the SICES Degree College.

Place: Badlapur
Date:


Signature of the Applicant

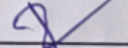
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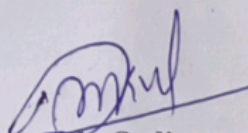
Application No. 02

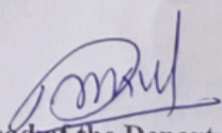
Date Received 16/08/23

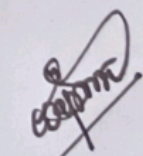
Total Course Fee: 300/-

Fee paid receipt no. 373

Verification (Clerk) 


Course Co-Ordinator


Head of the Department


Principal

AXIS BANK

AMBARNATH (WEST)

DATE: 11-09-2023 TIME: 09:00:00
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 Accredited by NAAC with B+ Grade
 Permanently Affiliated to University of Mumbai

Academic Year 2023-24
CERTIFICATE COURSE REGISTRATION DETAILS
 DEPARTMENT OF PHYSICS
 NAME: SOLAR TECHNOLOGY AS GREEN ENERGY SOLUTION

SR. NO.	NAME OF THE STUDENTS	CLASS	ROLL NO.	WHAT'S APP NO.	FEES RECEIPT NO.	Remark
1	ASHVINIBEN SAMADHAN PATIL	FYBSc	FS 23013	7666889436	401	Paid
2	SAMIKSHA SHANTARAM BAGUL	FYBSc	FS 23020	7218762213	402	Paid
3	JANVI ANIL CHAVAN	FYBSc	FS23011	9699193570	403	Paid
4	ELISHA PRAKASH AASADE	FYBSc	FS23004	8459070013	404	Paid
5	KASHISH AFROZ AZMI	FYBSc	FS23007	7798422040	405	Paid
6	DARSHANA VINOD MOKAL	FYBSc	FS23009	9004749437	406	Paid
7	VEDANTI SHAILENDRA GAIKWAD	FYBSc	FS23029	9309493191	407	Paid
8	NARESH KANTIBHAI MALI	FYBSc	FS23001	8767323330	408	Paid
9	AKSHDA BHAGVAN WALIMBE	FYBSc	FS23033	8378877491	409	Paid
10	DASHARATH HARIBA CHLEKAR	FYBSc	FS23010	9322102825	410	Paid
11	SUJIT RAVINDRA JADHAV	FYBSc	FS23025	8767922970	411	Paid
12	DIKSHA SANTOSH KHANDAGALE	FYBSc	FS23008	8830720880	412	Paid
13	SAMDANIAEL E. NADAR	FYBSc IT	FIT23013	8667423936	413	Paid
14	RAJNANDINI DINKAR JAGTAP	FYBSc	FS23036	9511238558	414	Paid
15	KAYATHRI MURUGUN KONAR	FYBSc I T	FIT23010	8237785606	415	Paid

16	VINAYAK ASHOK PRAJAPATI	FYBSc IT	FIT 23014	9321207077	416	Paid
17	PRANJALI MANOJ AHIRE	FYBSc	FS23031	7498862139	417	Paid
18	ADITYA UPENDRA POTDAR	FYBSc-IT	FIT23028	7219571658	418	Paid
19	OMKAR VASANT HEMADE	SYBSc	SS23020	9156865133	419	Paid
20	SANKET NIVRUTTI JADHAV	SYBSc	SS23019	7397853088	420	Paid
21	KOMAL MANOJ KAMBLE	SYBSc	SS23014	9588418337	421	Paid
22	PRIYANKA ASHOK SHAH	SYBSc	SS23016	8087172925	422	Paid
23	SAMIR BHUPENDRA SINGH	TYBSc	TS23018	9503211654	423	Paid
24	POOJA SUDHIR KUBAL	TYBCOM	TC23054	8149347139	424	Paid
25	TANMAY AKSHYA AHIRE	TYBSc	TS23016	7769876379	425	Paid
26	ANKITKUMAR SHREECHAND YADAV	TYBSc	TS23017	9763273983	426	Paid
27	SIDDHI AZAD SHRIVASTAV	SYBSc	SS23016	8010264059	427	Unpaid (Cancelled)
28	QAZI ARBEZA	SYBSc	SS23013	9890573556	428	Paid
29	MAHALAXMI SHANKARAN CHETTIAR	FYBSc I T	FIT23043	7666889436	429	Paid
30	YOGESH BALU RATHODE	SYBSc	SS23020	7499589536	430	Paid
31	POOJA BHIMRAO BAGUL	FYBSc	FS 23035	8329032155	431	Paid

Total Registered students = 30

Total fees Collection = 30 X 300 = 9000 /-

Course Co-Ordinator :- Dr. D. M. Sapkal

Head- Department of Physics

Course Clerk :- Mr. Yogesh S. Suryawanshi
(Attendance Physics Laboratory)

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Degree College of Arts, Science and Commerce Ambernath
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 Academic Year 2023-24

ATTENDANCE SHEET

CERTIFICATE COURSE NAME: Solar Technology as Green Energy Solution (30 Hrs)

Sr. No.	Name of the Participants	Date & Time				
		CLASS	Roll No	12/08/2023	19/08/2023	26/08/2023
				1.45pm	1.45 pm	1.45 pm
1.	ASHVINIBEN SAMADHAN PATIL	FYBSc	FS 23013	<i>Patil</i>	<i>Patil</i>	<i>Patil</i>
2.	SAMIKSHA SHANTARAM BAGUL	FYBSc	FS 23020	<i>Bagul</i>	<i>Bagul</i>	<i>Bagul</i>
3.	JANVI ANIL CHAVAN	FYBSc	FS23011	<i>Chavan</i>	<i>Chavan</i>	<i>Chavan</i>
4.	ELISHA PRAKASH AASADE	FYBSc	FS23004		<i>Aasade</i>	
5.	KASHISH AFROZ AZMI	FYBSc	FS23007	<i>Azmi</i>	<i>Azmi</i>	<i>Azmi</i>
6.	DARSHANA VINOD MOKAL	FYBSc	FS23009	<i>Mokal</i>	<i>Mokal</i>	<i>Mokal</i>
7.	VEDANTI SHAILENDRA GAIKWAD	FYBSc	FS23029	<i>Gaikwad</i>	<i>Gaikwad</i>	<i>Gaikwad</i>
8.	NARESH KANTIBHAI MALI	FYBSc	FS23001	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>
9.	AKSHDA BHAGVAN WALIMBE	FYBSc	FS23033			
10.	DASHARATH HARIBA CHLEKAR	FYBSc	FS23010	<i>Chlekar</i>	<i>Chlekar</i>	<i>Chlekar</i>
11.	SUJIT RAVINDRA JADHAV	FYBSc	FS23025			
12.	DIKSHA SANTOSH KHANDAGALE	FYBSc	FS23008	<i>Khandagale</i>	<i>Khandagale</i>	<i>Khandagale</i>
13.	SAMDANIAEL E. NADAR	FYBSc IT	FIT23013			
14.	RAJNANDINI DINKAR JAGTAP	FYBSc	FS23036	<i>Rajnandini</i>	<i>Rajnandini</i>	<i>Rajnandini</i>
15.	KAYATHRI MURUGUN KONAR	FYBSc I T	FIT23010	<i>Murugun</i>	<i>Murugun</i>	<i>Murugun</i>
16.	VINAYAK ASHOK PRAJAPATI	FYBSc IT	FIT 23014	<i>Prajapati</i>	<i>Prajapati</i>	<i>Prajapati</i>
17.	PRANJALI MANOJ AHIRE	FYBSc	FS23031	<i>Ahira</i>	<i>Ahira</i>	<i>Ahira</i>
18.	ADITYA UPENDRA POTDAR	FYBSc-IT	FIT23028		<i>Aditya</i>	
19.	OMKAR VASANT HEMADE	SYBSc	SS23020	<i>Hemade</i>	<i>Hemade</i>	<i>Hemade</i>

20.	SANKET NIVRUTTI JADHAV	SYBSc	SS23019	<u>Sanket</u>	<u>Sanket</u>	<u>Sanket</u>
21.	KOMAL MANOJ KAMBLE	SYBSc	SS23014	<u>Komal</u>	<u>Komal</u>	
22.	PRIYANKA ASHOK SHAH	SYBSc	SS23016	<u>Priyanka</u>	<u>Priyanka</u>	<u>Priyanka</u>
23.	SAMIR BHUPENDRA SINGH	TYBSc	TS23018	<u>Samir</u>		
24.	POOJA SUDHIR KUBAL	TYBCOM	TC23054		<u>Pooja</u>	<u>Pooja</u>
25.	TANMAY AKSHYA AHIRE	TYBSc	TS23016	<u>Tanmay</u>	<u>Tanmay</u>	<u>Tanmay</u>
26.	ANKITKUMAR SHREECHAND YADAV	TYBSc	TS23017	<u>Ankit</u>	<u>Ankit</u>	<u>Ankit</u>
27.	SIDDHI AZAD SHRIVASTAV	SYBSc	SS23016	<u>Siddhi</u>		
28.	QAZI ARBEZA	SYBSc	SS23013	<u>Arbeza</u>	<u>Arbeza</u>	
29.	MAHALAXMI SHANKARAN CHETTIAR	FYBSc I T	FIT23043			
30.	YOGESH BALU RATHODE <u>RATHOD</u>	SYBSc	SS230202	<u>Yogesh</u>		<u>Yogesh</u>
31.						

Course Co-ordinator- Dr. D.M. SAPKAL

Dr. D.M. Sapkal

Date : 09/01/2024

To,

The Principal,

S.I.C.E.S. Degree College of Arts, Science & Commerce,

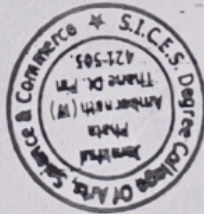
Ambarnath(W)

Sub.- Permission to Visit Contendre Solar panel Company sonale, Bhiwandi.

Respected Madam

The students enrolled in the certificate course in Physics (Solar Energy as Green Solution) would want to visit the Contendre Solar panel Manufacturing Company sonale, Bhiwandi on 13th January (Saturday) 2024 by Bus. Students will have the opportunity to learn about solar energy during this study tour.

Thanking you,



Yours Sincerely

Dr. D. M. Sapkal

HEAD DEPARTMENT OF PHYSICS
SICES DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
Jambhul Phata, Ambarnath (W)

OK
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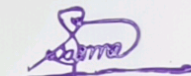
South Indian Children's Education Society's
DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
AMBERNATH (W.)

Permanently Affiliated to University of Mumbai
Accredited by NAAC with B⁺ Grade

CERTIFICATE

This is to certify that (Mr./Ms.) Sujit Ravindra Jadhav of
F.Y.B.Sc. successfully completed the 2 credits (30 Hrs) Certificate Course in
Solar Technology as Green Energy Solution conducted by the Department of
Physics on 13th Jan 24 & obtained grade A⁺ in the academic year 20232024


Course Coordinator


Principal



South Indian Children's Education Society's
DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
AMBERNATH (W.)

Permanently Affiliated to University of Mumbai
Accredited by NAAC with B' Grade

CERTIFICATE

This is to certify that (Mr./Ms.) Aditya Vipendra Potdar of
F.Y.B.Sc IT successfully completed the 2 credits (30 Hrs) Certificate Course in
Solar Technology as Green Energy Solution conducted by the Department of
Physics on 13th Jan 24 & obtained grade A⁺ in the academic year 2023-2024


Course Coordinator


Principal

**S.I.C.E.S Degree College of arts science and commerce,
Ambarnath(W)**

Department of chemistry and physics

Industrial Visit Report Date: 15/01/2024

The study tour which was scheduled on 13/1/2024 with 55 students along with three Teachers Dr. Harshal M. Bachhav , Dr. Diganbar M. Sapkal , Asst. Prof. Varsha Sharma and one Non Teaching Staff Mr. Yogesh Suryawanshi accompanied the study visit. Everyone gathered in the college at 8:00 a.m. after attendance everyone got in the bus. The bus started its journey at 8:30 a.m. and reached our first destination Auctel private limited chemical company, Dombivali at 10:30 a.m. the company employees welcomed us with great enthusiasm.

After the breakfast we will guided with the rules and guidelines regarding safety precaution from hazards for entering the chemical company. Then we visited the chilling plant guided by Mr. Ishwar a company person there we got to know about Brine solution and how its is applied in air conditioners. Then we visited to ethoxylation plant where ethylene oxide is used as raw material they also showed us that how liquid nitrogen is stored in the tank. Then we visited the control room of the company from where all the valves of various plants are controlled. Next we visited to quality control lab where they should as how quality analysis is done of various chemicals using different instruments. About 2 o'clock we left to visit for second company.

The second place to visit was Contendre solar company, Sonale, Bhiwandi.

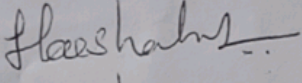
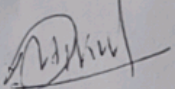
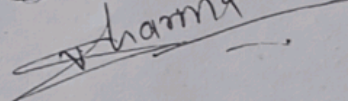
We reached at 3.00 pm at Contendre solar company after the hospitality by the company members we were divided into 3 groups. The company person Mr. Kunal sir explained the process of manufacturing of solar panels. We were taken to the manufacturing department of the solar panels where first we were shown how the solar cells are prepared then how they are stacked upon a glass sheet. On the glass sheet first they put a sheet of EVA that is ethyl vinyl acetate than they put solar cells then there is another layer of EVA and then the back sheet this layer is checked in an x-ray machine if any of the cell is damaged it is replaced manually then whole sheet is laminated for 15 minutes. Then it is framed by aluminium and a junction box is

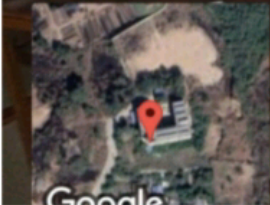
attached. At the end they put in x-ray to detect any fault after it will set for 4-8 hours for drying the glue and then they are packed and kept in store house .

At last we went on terrace to observe there solar project. Where both monocrystal and polycrystalline solar panels were used. After having this great experience of learning new things our study tour ends.

This study tour provided a fantastic opportunity for students to learn how to put their theoretical knowledge into practice and how to build a successful career in their chosen industries.

We came back to college at 7:00p.m. with sweet memories of tour and student departed to their home.

1. Dr. Harshal M. Bachhav 
2. Dr. Digambar M. Sapkal 
3. Asst. Prof. Varsha Sharma 



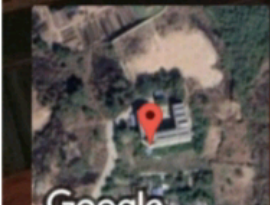
Ambernath, Maharashtra, India

SICES College Rd, Deepak Nagar, Ambernath, Badlapur, Maharashtra 421505, India

Lat 19.190835°

Long 73.218189°

20/01/24 12:48 PM GMT +05:30



Ambernath, Maharashtra, India

SICES College Rd, Deepak Nagar, Ambernath, Badlapur, Maharashtra 421505, India

Lat 19.190835°

Long 73.218189°

20/01/24 12:48 PM GMT +05:30

