

TaranathShikshanaSamsthe

Laxmi Venkatesh Desai college, Raichur Affiliated to Raichur University, Raichur& Re-accredited by NAAC with B Grade



Index for Add-On Course

Title:	Solar Energy		
	Academic Year:	2018 - 19	

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LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.

(Affiliated to Raichur University, Raichuri. Re-Accredited by NAAC with "B" Grade)

Sri. Chandrakanth, *M.Sc.,.* PRINCIPAL

Office of the Principal Ph:(08532)-240286, 240707 Fax:+918532 240707

e-mail: lvdrcr@gmail.com
Website: www.lvdcollege.org

Date: 10/12/2018

TO WHOMEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add_On course on, "Solar Energy" with the duration of 30 hours introduced in 2018-19. The said programme is apart from the existing course curriculum.

Head of the Department

Principal

PRINCIPAL E.V.D. College, RAICHUR-03. To The Principal, LVD College, Raichur.

From Head Department of Physics

Respected Sir,

Sub: Permission to start an Add _On course.

With respect to the above sited subject I, the undersigned request you to grant permission to start an Add-on course titled "SOLAR ENERGY" to B.Sc I/II/III year students. The details of syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,

Yours Faithfully,

need of the Physics Departmen

RAICHUR-584 101

DZWARE RAICHUR.03.



Taranath Shikshana Samsthe LAXMI VENKATESH DESAI COLLEGE RAICHUR – 584103 (Affiliated to Gulbarga University, Gulbarga)



Dr. S.M. Khened M.Sc., Ph.D. Principal

e-mail: lvdrcr@gmail.com.

Date: 27-12-2018

ORDER Sub: Meeting of Board of Studies members

A meeting of the following BOS constituted is hereby convened on 17/12/2018 at 11:00 AM in the Department of Physics, LVD College, Raichur

BOARD OF APPOINTMENT OF BOS MEMBERS FOR ADD-ON COURSE SOLAR ENERGY

	DR. M V N Ambika Prasad Professor	
1)	Department of Physics	Chairman Thubung
	Gulbarga University, Kalaburagi	
2)	DR. Purshottham Joshi Assistant Professor Department of Physics GFGC, Kalaburagi	Member &
3)	Sri. Chandrakanth Head of the Department Department of Physics LVD College, Raichur	Member of the Physics Departm
	- 5 conege, Katchur	L.V.D. College, RAICHUR-584 101

The Chairman and the members are requested to make it convenient to attend THE BOS Meeting

PRINCIPAL
PRINCIPAL
L.V.D. College, RAICHUR-03.

To The Principal, LVD College, Raichur.

Respected Sir,

Sub: Acceptance to be the chairman of BOS.

with reference to the above-cited subject I DR. M V N Ambika Prasad, Professor, Department of Physics, Gulbarga University, Kalaburagi, received your letter of request to be a Chairman of BOS, for the Add-on Course to be conducted by your college.

Hence, I give my consent and accept your request as a BOS Chairman.

Thanking You,

Yours Sincerely

Mww 1

To The Principal, LVD College, Raichur.

Respected Sir,

Sub: Acceptance to be a Member of BOS.

with reference to the above-cited subject I, DR. Purshottham Joshi Assistant Professor, Department of Physics, GFGC, Kalaburagi, received your letter of request to be a Member of BOS, for the Add-on Course to be conducted by your college

Hence, I give my consent and accept your request as a BOS Member.

Thanking You,

Yours Sincerely



COURSE INCLUDE

All about solar energy difference between power and energy, the role of energy in development, Conventional energy sources Hydro Electric, Thermal, Nuclear, Non-Conventional Energy sources Bio-mass, geothermal, solar, wind energy, ocean energy, wave energy, advantages and disadvantages, challenges.

Non-commercial energy sources, wood, animal wastes, agricultural waste, cost of raw materials, transport problems, issues. Hour's Solar system: Energy from the sun, solar window, atmospheric effects, diffused radiations, Air mass, effect of Air Mass, seasonal effects, environmental effects on standard test conditions.



To join contact:

Miss.Vimala K R (Department of physics)

Mr. Vijay Kumar (Department of physics)



OBJECTIVES

Understand the principles that underlie the ability of various natural phenomena to deliver solar energy

outline the technologies that are used to harness the power of solar energy

discuss the positive and negative aspects of solar energy in relation to natural and human aspects of the environment





Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI

COLLEGE
Re-Accredited by NAGC with 'B' grade

OFFERS ADD COURSES

> Solar Energy

L. W. College, PAICHUR-03.

Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi& Re-Accredited by NAAC with B Grade

Department of Physics

Notice

All the B.Sc I/II/III year students students are here by informed that department of physics is introducing Add-on course titled "SOLAR ENERGY" interested students should register their name to the course coordinator for the certificate course in physics department on or before 24.12.2018 at 1:40 PM to 2:30 PM

HoD

sead of the Physics Departmen

L.V.D. Coilege RAICHUR-584 101

C.A. I sem

Ship

25 K. A. J. A. J.

SYLLABUS

SOLAR ENERGY

COURSE OUTCOMES

- explain the principles that underlie the ability of various natural phenomena to deliver solar energy
- outline the technologies that are used to harness the power of solar energy
- discuss the positive and negative aspects of solar energy in relation to natural and human aspects of the environment

Unit- I
Introduction, Definition of Power and energy, difference between power and energy, the role of energy in development, Conventional energy sources Hydro Electric, Thermal, Nuclear, Non-Conventional Energy sources Bio-mass, geo-thermal, solar, wind energy, ocean energy, wave energy, advantages and disadvantages, challenges. Limitation of renewable energy sources their usefulness seasonal nature, requirement, and need for the use of new energy sources.

Unit- II
Commercial energy sources, fosial-fuels coal, oil, natural gas, hydro electric power, nuclear, Non-commercial energy sources, wood, animal wastes, agricultural waste, cost of raw materials, transport problems, issues. Hour's Solar system: Energy from the sun, solar window, atmospheric effects, diffused radiations, Air mass, effect of Air Mass, seasonal effects, environmental effects on standard test conditions.

Reference

- •Fundamentals of Renewable Energy Systems Paperback D.Mukherjee, New Age International Publisher; First edition (2011).
- Renewable energy systems; Devid M, Buchla, Thomas E kissell, Thomas, L Floyd; Pearson India Education Services Pvt. Ltd. 2017
- Solar Power Hand Book, Dr. H. Naganagouda(2014)

TARANATH SHIKSHANA SAMSTHE'S

LAXMI VENKATESH DESAI COLLEGE, RAICHUR.

ADD ON COURSE TIME TABLE FOR B.Sc II, IV & VI SEMESTER, DEPARTMENT OF PHYSICS, 2018-19.

TIME	09-30 TO 10-20 AM (THEORY)	10-20 TO 12-00 PM (IV SEM LAB)	12-00 TO 12-50PM (THEORY)	12-00 TO 1-40PM (II SEM LAB)	01-40 TO 02-30 PM	02-30 TO 04-10 PM (VI SEM LAB)	04-10 TO 5- 00 PM (THEORY
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Head of Department.

Principal PRINCIPAL L.V.D. College, RAICHUR-03.

Laxmivenkatesh Desai College, aichur

Affiliated to Gulbarga University, Kalaburagi& Re-Accredited by NAAC with B Grade

Attendence Sheet

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Signature of HOD L. V. D. College, RAICHUR-584 101,

Signature of Faculty

L.V.D. College, RAICHUR-03.

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Signature of HODarras L. V. D. College, RAICHUR-584 101.

Signature property Control Signature property College, RAICHUR-03.

Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi& Re-Accredited by NAAC with B Grade

Department of Physics

Report of Add_On course

Department of Physics conducted add-on Course for the interested students from 02.01.2019 to 27.03.2019. Around 32 students were enrolled for the course. After completing this course the students were enable to understand about the renewable energy and commercial energy sources. Students have taken the benefits from the course.

Duration:30 hrs

Started on: 02.01.2019

Completed on: 27.03.2019

Name of the Faculty: Smt.Vimala

Total No of Students admitted: 31

Total No of classes admitted: 30

Total No of Students benefited: 31

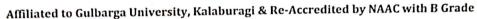
L. V. D. College,

RAICHUR-584 101.



Taranath Shikshana Samsthe

Laxmi Venkatesh Desai College, Raichur.





Course Completion Certificate

This Certificate is awarded to Miss/Mr. HUSENAPPA

for successfully completing the course in" SOLAR ENERGY" conducted by Department of Physics year

2018-19.

Faculty Incharge

Head of the Department

L. V. D. College.

RAICHUR-584 10:

Principal PRINCIPAL

L.V.D. College, RAICHUR-03.



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LAXMI VENKATESH DESAI COLLEGE RAICHUR

(Re-Accredited by NAAC with 'B' Grade)



This is to Certify that Miss. / Mr	Arun Kumar	
of B.Sc	has completed the	Certificate Course in
Solar Energy		
Conducted by the Department of	Physics	A-from
02.01.2019 to 27.03.2019		
	T.D.COLLE	PRINCIP
Head of the Department		L.V.D. CONTENT. RAICHUR









Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE RAICHUR

(Re-Accredited by NAAC with 'B' Grade)



This is to Certify that Miss. / Mr. Ning	jayya
of B.S.c	has completed the Certificate Course in
Solar Energy	
Conducted by the Department of	nysics from
02.01.2019 to 27.03.2019	
V.D.Cor	PRINCIPAL L.V.D. COILEGE, RAICHUR-03.
Head of the Department	Principal

Taranath Shikshana Samsthe's LAXMI VENKATESH DESAI COLLEGE, RAICHUR. DEPARTMENT OF PHYSICS.

Course Title - Solar Energy

Instructio	ons to candidates: 1. Answer all the questions.	
(1)	India is utilizing Solar energy through (A). Photovoltaic route (B). Photometric route (C). Photo power (D). Photosynthesis (E). None of these	
(2)	The base of power generating systems is (A). Biomass gasification (B). Coal gasification (C). Solar energy (D). Wind energy (E). None of these	
(3)	The purpose of Wind generator is	
(4)	The materials are de-localized in which (A). Electrons (B). Protons (C). Neutrons (D). Positrons (E). None of these	is present.
(5)	Photovoltaic types of solar cells are usuall manner. (A). Series (B). Parallel (C). Randomly (D). Neither series nor parallel	y connected electrically in

(E). None of these

(6)	Select the Non-conventional energy sources from the following (A). Renewable (B). Non-renewable (C). Produced from electricity (D). Produced from heat (E). None of these
(7)	Power is generated fromin Timarpur. (A). Urban waste (B). Solar energy (C). Hydropower (D). Wind energy (E). None of these
(8)	Electricity generating is the main application of solar cells which is generated from (A). Water (B). Sunlight (C). Wind (D). Biomass (E). None of these
(9)	India started the use of non-conventional energy sources in (A). 1940 (B). 1950 (C). 1960 (D). 1970 (E). None of these
(10)	The electricity can be produced by solar power, which is a goodsource. (A). Commercial (B). Economical (C). Commercial and economical (D). Neither commercial nor economical (E). None of these
11)	We can recharge the portable devices by (A). Solar photovoltaic cells (B). Solar panels (C). Solar batteries (D). Solar dishes (E). None of these

(12)	The special composition of the solar cells allows the electrons to flow in
	(A). Opposite direction
	(B). Multiple directions
	(C). Single direction
	(D). Random direction
	(E). None of these
(13)	We can use solar cells in calculators.
	(A). True
	(B). False
	(C). None of these
(14)	In sunlight hits the panel of solar cells.
	(A). Dust
	(B). Photons
	(C). Electrons
	(D). Protons
	(E). None of these
(15)	

Laxmi Venkatesh Desai College, Raichur (Affiliated to Gulbarga University, Kalaburagi& Re-Accredited by NAAC with B Grade)

Value added certificate Course: SOLAR ENERGY **MARKS SHEET**

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