

INTRODUCTION

Energy is a crucial input in the process of economic, social and industrial development. Energy can be extracted from various sources. The most commonly used commercial energy sources are coal, oil and electricity. Energy is also derived from other sources like agricultural waste, firewood, water etc. As the population is increasing and living standards are rising, there will be increase in energy demands in near future. Since the commercial and conventional energy sources with limited reserves are depleting fast, the scope of meeting the energy needs falls on non polluting alternate, renewable energy sources. It has emerged as a viable option to achieve the goal of sustainable development. Some of the major sources of energy to meet our future energy requirements are wind, solar, small hydro, bio-mass, geothermal etc. Integrated energy system has to be developed for optimally meeting energy needs. Thus, there is urgent need to adopt the technologies based on alternate energy sources.

OBJECTIVES

The main objectives of this training programme on “Alternate Energy Sources – Challenges and Opportunities”, are:

- To apprise the participants about the issues on energy demand and consumption and significance of alternate renewable energy sources
- To educate about various technology options related to alternate energy sources
- To impart knowledge regarding design principles and working of different technologies related to energy sources like solar, wind, bio-mass, small hydro plants, biomass gasifier, Biofuel etc.
- To provide knowledge about energy audit and energy conservation.
- To discuss the strategies for transfer and adoption of new energy technologies.
- To provide information regarding various agencies and organisations working in the area of alternate energy based technologies.

METHODOLOGY

The contents of this training programme would be covered through interactive lectures, deliberations, case studies, field visits and educational video films shows.

TARGET GROUP

Faculty members working in Engineering colleges and Polytechnics can participate in this programme. These faculty members have to get themselves sponsored from the Principal/Head of Institution. and send their duly filled application on the enclosed prescribed proforma to:

DR. POONAM SYAL, Associate Professor
Rural Development Department, NITTTR,
Sec-26, Chandigarh 160 019.

(Email: syalpoonam@gmail.com) or
Er. H.S. Dhaliwal, Assistant Professor &
Er. Ram Singh, Assistant Professor,
DEPARTMENT OF ELECTRICAL ENGG.,
BHSBIET, Lehragaga-148031,
District Sangrur, Punjab.

(email: dhaliwal361@gmail.com,
singhsran08@gmail.com)

LAST DATE

Last date of receiving applications for participation in this programme is 30th May, 2014

COURSE FEE AND TA/DA

No fee is chargeable from whose names are sponsored by the competent authority (Principal / Director).

TA/DA to Government Colleges, and government aided college teachers would be paid by NITTTR, Chandigarh as per institute rules. Please note that TA is restricted to III Tier AC to the sponsored participants.

Faculty working in University Institutes/ Department and Private Engineering Colleges are also eligible for participating in this programme. Faculty members from University Institutes /Department and Private Colleges shall have to bear their expenses and boarding/lodging costs during this training programme.

SHORT TERM COURSE

on

Alternate Energy Sources- Challenges & Oppurtunities

at

BABA HIRA SINGH BHATTAL INSTITUTE OF ENGINEERING & TECHNOLOGY

Lehragaga-148031, District Sangrur, Punjab.
(Established by Govt. of Punjab)

2nd June-6th June, 2014

Name: _____

Age: _____ Sex: Male ☐ Female ☐

Qualification: _____

Designation: _____

Experience (Teaching/Industrial/Others): _____

Institution: _____

Address: _____

Phone No. with STD Code: _____

E-Mail : _____

Whether Accommodation Needed: Yes ☐ No ☐

Signature of the Applicant

**Recommendation of the Principal/Head of the
Sponsoring Institute (Signature with seal)**



National Institute of Technical Teachers' Training and Research (NITTTR), Sec- 26, Chandigarh 160019.
An ISO: 9001-2000 Certified Institute
[Ministry of Human Resource Development, Govt. of India]

ABOUT BHSBIET LEHRAGAGA

To promote Technical Education in this backward area, adjoining Haryana, Govt. of Punjab initially established it as a Government Polytechnic College, Lehragaga in 1996. Later on, in 2005, this Institute was given an autonomous status and launched as a unique Punjab Govt. Established Institute to run Diploma and Degree level programs in Engineering and renamed as Baba Hira Singh Bhattal Institute of Engg & Technology, Lehragaga.

The institute incorporates a unique understanding of the binary opposites like Theory & Practice, Professionalism and Human Values, Modernity & Tradition. At present, the Institute offers **P.G. Courses** (Part-Time) under P.T.U. Regional Center in the disciplines of M.E., Env. Sci. & ECE, **B.Tech.** in ME, ECE, CSE, EE and **Diploma** in the disciplines of ME, ECE, CE, EE & IT respectively. The institute provides an excellent academic environment under the able guidance of well-qualified and highly dedicated faculty



Baba Hira Singh Bhattal Institute of Engg. & Technology

ABOUT NITTTR, CHANDIGARH

Since its inception in 1967, NITTTR, Chandigarh (formerly known as TTTI) has made rapid strides in the areas of engineering and technology and emerging areas like computer, educational technology, entrepreneurship development, rural development, industry-institute interaction and educational management. Presently, the institute conducts more than 400 short-term training programmes annually for polytechnics and engineering colleges teachers, professionals and managers of industries. The institute also conducts a large number of AICTE sponsored Summer and Winter Schools every year. The institute offers six postgraduate programmes in engineering and engineering education through regular and modular modes. In addition to education and training programmes, the institute renders extension services to Polytechnics, undertakes research and development projects and develops print and non-print instructional material.

ADDRESS FOR CORRESPONDENCE

DR. POONAM SYAL, Associate Professor
Rural Development Department, NITTTR,
Sec-26, Chandigarh 160 019.

(Email: syalpoonam@gmail.com) or

Er. H.S. Dhaliwal, Assistant Professor &

Er. Ram Singh, Assistant Professor,

DEPARTMENT OF ELECTRICAL ENGG.,

BHSBIET, Lehragaga-148031,

District Sangrur, Punjab.

(email: dhaliwal361@gmail.com,

singhsran08@gmail.com)

Note: Advance copy of application can be emailed to above addresses for immediate action

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ORGANISED BY



**National Institute of
Technical Teachers' Training
and Research (NITTTR)**

An ISO:9001-2000 Certified Institute

[Ministry of Human Resource Development, Govt. of India]
Sector 26, Chandigarh 160 019.

In Collaboration with



DEPARTMENT OF ELECTRICAL ENGG.

Baba Hira Singh Bhattal Institute of Engineering
& Technology, Lehragaga-148031, District
Sangrur, Punjab.
(Established by Govt. of Punjab)

Venue – CS Lab, Baba Hira Singh Bhattal Institute
of Engineering & Technology, Lehragaga-148031,
District Sangrur, Punjab.

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Lehragaga-148031, District Sangrur, Punjab.

(Established by Govt. of Punjab)

2nd June - 6th June, 2014

APPLICATION /REGISTRATION FORM

Name: _____

Age: _____ Sex: Male ☐ Female ☐

Qualification: _____

Designation: _____

Experience
Teaching : _____

Industrial : _____

Total : _____

Institution: _____

Address: _____

Phone No. with STD Code: _____

E-Mail : _____

Whether Accommodation Needed: Yes ☐ No ☐

Signature of the Applicant

**Recommendation of the
Principal/Head of the Sponsoring Institute
(Signature with seal)**