

### About the GNDEC, Ludhiana.....

Guru Nanak Dev Engineering College (GNDEC) was established by the Nankana Sahib Educational Trust (NSET) in the year 1956. NSET was founded in the memory of the most sacred temple of Nankana Sahib, birth place of Guru Nanak Dev Ji. The main mission for establishing Guru Nanak Dev Engineering College was 'Removal of Economic Backwardness through Technology'. To fulfill this commitment, a unique admission criterion was adopted by NSET by reserving 70% seats for the students of rural areas. At present seven undergraduate and thirteen post graduate courses are being offered in Engineering apart from MBA and MCA. The college has been declared QIP centre for Ph.D. admissions by AICTE in Civil Engineering, Mechanical Engineering and Electrical Engineering.

### About the Department.....

Civil Engineering Department has been *accredited* since 2004 by NBA and also by NAAC. It is running three full time PG programmes (Structural Engineering.; Geotechnical Engineering.; Environmental Science and Engineering) and one part-time PG programme (Soil Mechanics and Foundation Engineering) along with UG programme in Civil Engineering in two shifts. The department has the state of art facilities for R&D activities. The Department is actively engaged in providing consultancy services to different government and private sector in and around Punjab with an annual turnover of approximately Rs one crore. The department has been declared as **QIP Centre** for Ph.D by AICTE, New Delhi from the session 2011-2012 and is supported under the **FIST** scheme and **TEQIP-II** scheme *GOI*.

### About the Course.....

One of the major environmental problems faced by India is management of solid waste in cities and towns. In almost all the cities/towns in the developing world, the municipal authorities are responsible for the collection, transport and disposal of municipal wastes. India lacks appropriate strategies, methods for mobilization of financial resources and the necessary infrastructure for organized waste management. This leads to low collection coverage, especially in poor or marginal areas of the cities, and also to uncontrolled disposal. In India, approximately 48 million tonnes of solid waste is generated annually and about 5-25% of the urban local bodies budget is utilized for solid waste management. Up to 50% of the waste generated daily remained uncollected in the cities; the remaining waste is collected irregularly, dumped in an uncontrolled manner, or burnt on vacant plots or on the outskirts of cities. In this course, an attempt has been made to provide a comprehensive review of municipal solid waste (MSW) management for Indian cities to evaluate the current status and identify the challenges and opportunities of MSW management.

### Course contents.....

- Municipal Solid Waste Management
- Sources, composting and properties of solid waste
- Solid waste generation and collection rates
- Collection and transport of solid waste
- Disposal of solid waste
- Composting and anaerobic digestion of organic solid waste
- Bioremediation
- Environmental Economics and waste management
- Regulations for waste management
- Landfills operation and closure

*TEQIP-II sponsored  
Short Term Training Program*

*On*

## *Solid Waste Management in Indian Cities - Issues and Concerns*

**August 23-27, 2016**



**Organized by**

**Civil Engineering Department,  
Guru Nanak Dev Engineering College,  
Ludhiana (Punjab)- 141006**

**In association with**

**IGS: Ludhiana Chapter**

## How to Reach GNDEC, Ludhiana

The institute is located on Ludhiana-Malerkotla road (also called Gill road) and is around 6 km from the Bus Stand and 7 km from the railway station. Ludhiana is well connected to other parts of the country by both rail and road. Important trains, like Shatabdi Express, Rajdhani Express, Uttar-Sampark Kranti Express, Howrah Mail, Malwa Express, Golden Temple Mail, Pachim Express and Sachkhand Express halt at the Ludhiana railway station. Regular buses (both, AC and Non-AC) are available from New Delhi and Chandigarh. Nearest airport is at Chandigarh, which is around 100 km from the institute.

## Resource Persons

The course will be taught by faculties/scientists from IITs, NITs, local and near-by academic institutions. Experts from the field will also share their experiences during this course.

## Eligibility

A faculty of an Engineering College/University; professionals from Industries; Scientists / Research Scholars from institutions can attend the course. The course is interdisciplinary one. The number of participants will be restricted to 40 as per the TEQIP norms.

## Accommodation

A limited number of rooms with shared accommodation are available in the guest house at Guru Nanak Dev Engineering College campus. Accommodation will be arranged on request on 'first-come first-serve basis'. All participants are requested to tick the relevant column in the registration form regarding this.

## Registration

There is no registration fee for the participants and No TA/DA will be paid to the participants. Since the seats are limited, the registration will be done on first-come first-serve basis. The registration process will be completed only when the registration form is received from the participant through a proper channel by **17<sup>th</sup> August, 2016**. However, candidates may send an advance copy through email, post or by hand.

## Organizing Committee

### Patron

Dr. M.S. Saini,  
Director, Guru Nanak Dev Engineering College, Ludhiana

### Advisors

Dr K.S. Gill, Professor and Head,  
Dr H.S. Rai, Professor and Dean (Testing & Consultancy),  
Dr Harvinder Singh, Professor,  
Department of Civil Engineering,  
Guru Nanak Dev Engineering College, Ludhiana

### Coordinator

Prof. Puneet Pal Singh Cheema, Assistant Professor,  
Department of Civil Engineering,  
Guru Nanak Dev Engineering College, Ludhiana

### Co-coordinator

Prof. Preetinder Kaur, Assistant Professor,  
Prof. Rupinder Singh Litt, Assistant Professor,  
Department of Civil Engineering,  
Guru Nanak Dev Engineering College, Ludhiana

### Correspondence

Please mail the signed copy of the registration form at the email id: **ppsc@gndec.ac.in** and **ppsc390@gmail.com**  
Contact no.– 9781816320 (coordinator), 0161-5064735  
The hard copy can be addressed to the *Coordinator (STTP-16), Civil Engineering Department, Guru Nanak Dev Engineering College, Gill Road, Ludhiana-141006.*

Guru Nanak Dev Engineering College, Ludhiana

TEQIP-II sponsored Short Term Training Program  
On

**Solid Waste Management in Indian Cities-  
Issues and Concerns**

(August 23-27, 2016)

## REGISTRATION FORM

Name:.....

Designation:.....

Department:.....

Organization:.....

Address:.....

Tel./Mobile:.....

E-mail:.....

Academic Qualification with Specialization:  
.....

Accommodation : Required/Not required

Signature and Date: .....

## Sponsorship Certificate

The applicant is hereby sponsored and will be allowed to attend this course, if selected.

Date:.....

**Signature and Seal  
of sponsoring authority**