

Indian Institute of Technology Delhi

Technical Education Quality Improvement Programme/ Continuing Education Programme (TEQIP - III/CEP)

Short Term Course (STC): ONLINE Mode

ON

Fundamentals of Anaerobic Digestion and Compressed Biogas Technology



26-28 November 2020 (03 Days)



भारतीय प्रौद्योगिकी संस्थान दिल्ली
Indian Institute of Technology Delhi

Centre for Rural Development and Technology

IIT Delhi, Hauz Khas, New Delhi - 110016, INDIA

This online Short Term Course will cover various topics related to anaerobic digestion (biogas production) of various kinds of biomass and compressed biogas technology (CBG/Bio-CNG) to provide most sustainable clean and green fuel for various energy applications and organic fertilizer to support organic agriculture production system in the country.

About IIT Delhi

The institute was established in 1961. Indian Institute of Technology Delhi is one of the premier educational institutions in the country. The institute is situated in the National Capital. IIT Delhi has been instrumental in providing solutions to technological and societal problems through innovative academic and research activities. In year 2018 IIT Delhi has been awarded the status of “Institutions of Eminence” by the Government of India.

About the Centre for Rural Development and Technology

The Centre for Rural Development and Technology is one of the renowned centre of IIT Delhi. It came into existence in 1979 with the sole aim of becoming outreach Centre for S&T for rural problem-solving and improving quality of life by generating more sources of livelihood. It has made significant contributions and developed rural friendly technologies in areas like alternate energy technology (biogas, smokeless chulha, etc.), sustainable agriculture, food processing, preservation and storage, bamboo based sustainable housing, mushroom cultivation, waste management, sanitation, etc. This centre is the national coordinator of two major programmes of the Govt. of India, Unnat Bharat Abhiyan (aims to utilize knowledge institutions of the country to help villages) & Scientific Validation and Research on Panchgavya (SVAROP) which will help in reinstating the cattle based rural economy supported by critical scientific validation. The centre has twelve faculties and more than hundred research scholars working for rural technology development and to strengthen rural communities through technological interventions.

The Learning Objective of this Short Term Course (STC)

The course is focused on the following objectives,

1. To provide fundamental knowledge/information on the anaerobic digestion of various kinds of organic materials, including design of biogas plants.
2. To provide basics of biogas fuel quality parameters.
3. To provide fundamental knowledge on production of compressed biogas (CBG) and requirements for various end applications of biogas.
4. To provide basic information on digestate (bio-fertilizer) of biogas plant and its importance in promotion of sustainable organic agriculture.

About the Course Coordinator(s)

[1] Dr. Ram Chandra

Dr. Chandra is Assistant Professor in the Centre for Rural Development and Technology at IIT Delhi. He is having experience of 10 years in the area of sustainable bio-energy production utilizing biomass resources. He did Ph.D. in Energy from biomass resources from Indian Institute of Technology Delhi and Post-Doctoral research from Nagoya University, Japan.



[2] Prof. P. M. V Subbarao

Prof. Subbarao is a Professor in the Department of Mechanical Engineering at IIT Delhi. He is having strong expertise in thermal engineering, and renewable energy. Prof. Subbarao did his Ph.D. from Indian Institute of Technology Kanpur. He has been involved in development of rural energy technologies for making of village self-energy reliant utilizing locally available resources.



[3] Prof. Virendra K. Vijay

Prof. Virendra K. Vijay is Professor in the Centre for Rural Development and Technology at IIT Delhi. His concepts on linking higher educational institutes for village development and biogas purification and bottling technology were well adopted by Government of India and launched as programs by concerned ministry in the government. Prof. Vijay and his team developed the concept and vision of Unnat Bharat Abhiyan. He got patent on biogas small scale biogas upgradation technology which has been licensed to seven industries and many gaushalas. He has been operating India's first biogas car for last eight years which has crossed more than 80000 km run on biogas. Based on the data by Indian Institute of technology Delhi on performance of engine, emission de-rating and degradation on use of upgraded biogas in the car, Bureau of Indian Standard has formulated biomethane (bio-CNG) standard in India.



Targeted Audience and Strength

The course is designed for faculty members of various TEQIP-III institutes (without any fee). Participants from industry are also welcomed to register this course by paying fee. We intend to keep the course strength to under 30 participants to maintain a high quality of instruction. An earlier registration implies a greater chance of being accepted for this short-term course.

Contact

For any query (registration or course content), please send an e-mail to the course coordinator at ram.chandra6dec@gmail.com or rchandra@rdat.iitd.ac.in

Deadline Dates

1. 15th November 2020: Receipt of registration form[^] with proof of necessary payments as a single PDF file
2. 20th November 2020: Intimation to confirmed participants.

Course Fee

Participants from/ Fee (INR)	Participation Fee
Faculty members from TEQIP-III listed institutes	Participation fee (Not Applicable). However a refundable security of ₹2000 needs to be deposited by the faculty members of TEQIP-III institutes.
Industry and Non- TEQIP-III listed institutes	₹25,000/- + 18% GST

Approved list of TEQIP III institutions is available at
<http://cepgip.iitd.ac.in/teqip.php>

The participants from industry and Non-TEQIP listed institute are required to pay necessary fee. The bank detail for payment of fee is given in ANNEXURE - I.

IMPORTANT NOTE:

Form A for faculties from TEQIP-III institutes & Form B for industry/ Non TEQIP-III participants.

REGISTRATION FORM “A”
(Faculty from TEQIP-III listed institute)

Fundamentals of Anaerobic Digestion and Compressed Biogas Technology

IIT Delhi (26-28 November 2020)

Please fill the following using BLOCK LETTERS

Name	
Designation	
Department/School	
Institute/University	
Gender	
Date of birth (DD/MM/YYYY)	
Official Address	
E-mail ID	
Mobile Number	
Transaction details for the security fee of ₹2,000 into IITD CEP Account (Annexure I) which will be refunded after	(a copy of transaction page has to be appended as a PDF to this registration form)
I am a faculty at my institute. The above information is true.	
Signature of participant with date	
Prof./Dr./Ms./Mr. _____ is a faculty at this institute and is permitted to attend the course on “Fundamentals of Anaerobic Digestion and Compressed Biogas Technology” at IIT Delhi during 26-28 November 2020. Our institute is listed under TEQIP-III.	
Signature of competent authority with date and seal	

Please send the signed/scanned or sealed copy of this form to the course coordinator at rchandra@rdat.iitd.ac.in or ram.chandra6dec@gmail.com before the deadline.

REGISTRATION FORM “B”
(Participants from Industry and Non- TEQIP-III listed institute)

Fundamentals of Anaerobic Digestion and Compressed Biogas Technology

IIT Delhi (26-28 November 2020)

Please fill the following using BLOCK LETTERS

Name	
Designation	
Department/School	
Institute/University	
Gender	
Date of birth (DD/MM/YYYY)	
Official Address	
E-mail ID	
Mobile Number	
Transaction details for the participation fee of ₹29,500 (inclusive of 18% GST) into IITD CEP Account (Annexure I)	(a copy of transaction page has to be appended as a PDF to this registration form)
The above information is true.	
Signature of participant with date	
Mr./Ms. _____ is a is an employee at this organization and is permitted to attend the course on “Fundamentals of Anaerobic Digestion and Compressed Biogas Technology” at IIT Delhi during 26-28 November 2020.	
Signature of competent authority with date and seal	

Please send the signed/scanned or sealed copy of this form to the course coordinator at rchandra@rdat.iitd.ac.in or ram.chandra6dec@gmail.com before the deadline.



गुणवत्ता सुधार एवं अनुवर्ती शिक्षा कार्यक्रम
भारतीय प्रौद्योगिकी संस्थान दिल्ली
हौज खास, नई दिल्ली - 110 016, भारत
OFFICE OF QUALITY IMPROVEMENT &
CONTINUING EDUCATION PROGRAMME
INDIAN INSTITUTE OF TECHNOLOGY DELHI
Hauz Khas, New Delhi - 110 016, India

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E-mail : hodqipcep@admin.iitd.ac.in
qipitd@admin.iitd.ac.in
Web : http://cepqip.iitd.ac.in

संदर्भ/Ref. No..... दिनांक/Date.....
ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/ REAL TIME GROSS SETTLEMENT (RTGS)

FACILITY FOR RECEIVING PAYMENT

A. DETAIL OF ACCOUNT HOLDER

NAME OF ACCOUNT HOLDER	IITD CEP ACCOUNT
COMPLETE CONTACT ADDRESS	1st floor, Wing-B, Vishwakarma Bhawan IIT Delhi, Hauz Khas, New Delhi - 110 016
TELEPHONE NUMBER/EMAIL	011-26591343, 011-26591915, 011-26597996 E-mail: hodqipcep@admin.iitd.ac.in

B. BANK ACCOUNT DETAILS

BANK NAME	STATE BANK OF INDIA
BRANCH NAME WITH COMPLETE ADDRESS	INDIAN INSTITUTE OF TECHNOLOGY, HAUZ KHAS, NEW DELHI-110016
IFS CODE OF THE BRANCH	SBIN0001077
MICR CODE	110002156
TYPE OF BANK ACCOUNT	SAVING ACCOUNT
BANK ACCOUNT NO.	36819334799
SWIFT CODE	SBININBB547
CURRENCY IN WHICH THE ACCOUNT IS HELD	INDIAN RUPEES

IITD PAN No. AAATI0393L
GST No. 07AAATI0393L1ZI

I hereby declare that the particulars given above are correct and complete.

Date: 19-03-2019

signature of the Competent Authority of the Institute
Hauz Khas, New Delhi-110016, India

DEBRANJAN MUKHERJEE

Assistant Registrar (CEP Account)

Certified that the particulars furnished above are correct and signature of Authorized Signatories are verified as per our records

Date:

signature of the Competent Authority Official of the Bank
(with Bank's Stamp)

