



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
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A.P. Shah Institute of Technology

Department of Civil Engineering

Online Expert Lecture on, “Basics of Anaerobic Digestion Processes of Wastewater Treatment”

D a t e : 25th February, 2022

Time:9.00 am-11.00 am

Civil Engineering Department of A.P. Shah Institute of Technology organized expert lecture on “Basics of Anaerobic Digestion Processes of Wastewater Treatment” for 2nd, 3rd & final year Civil Engineering students. The expert talk was delivered by Dr. Brajeshkumar Dubey, Professor, IIT Kharagpur.

All the basics of the respective topic were covered as 2nd year students were in the audience and they had not yet learnt about Environment Engineering or any Wastewater Treatment processes. We started off with the Indian and global scenario of wastewater management and understood the various challenges we are facing on a whole and what can be done to improve the present situation.

Wastewater Treatment can be done in several ways. We learnt about Aerobic Wastewater Treatment processes too, understood its mechanism and drawbacks and thus focused more on the Anaerobic Wastewater Treatment processes due to its several advantages over Aerobic Wastewater Treatment processes. These advantages included less energy requirement, less operation and maintenance and lastly energy production.

We learnt the characteristics of Anaerobic Treatment process, mechanism of Anaerobic degradation of organic matter which includes hydrolysis, acidogenesis, acetogenesis and methanogenesis; the factors affecting Anaerobic degradation and the applications of the same. Popular Anaerobic Treatment methods like UASB (Up flow Anaerobic Sludge Blanket), Anaerobic Filters, Anaerobic contact process etc. were discussed and understood.

All in all, it was a very informative and enlightening session. Every doubt was answered very convincingly and in detail. We thank Dr. Brajeshkumar Dubey for the same.