



**Subharti Institute of Technology & Engineering**  
**SWAMI VIVEKANAND SUBHARTI UNIVERSITY**

(Approved by AICTE)

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Ref: SITE/CE/DA/VA/2017/1 (b)

Dated: 28/08/2017

OFFICE OF THE HOD [Department of Civil Engineering]

**Notice**

All the B.Tech (CE) –II year students are hereby informed that a value added courses named Solid Waste management is going to schedule since 3<sup>rd</sup> October – 13<sup>th</sup> October, 2017. Therefore, you are informed to complete the registration process till 30/sept/2017 to the course coordinator. The course coordinator is appointed as Mr. Amrendra Kumar Singh, Assistant Professor, civil engineering department.

(Er. R.K.Sharma)

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At the end:

1. To suggest options for waste reduction at source so as to reduce quantities of waste generated.
2. To choose from an array of options to turn waste into economic goods.
3. To suggest treatment/disposal methods for waste from which the value has been taken out and to make basic calculations related to the conceptual design thereof.
4. To assess the impact of waste and waste management on other environmental compartments.
5. To roughly assess financial consequences of proposed management aspects in SWM.
6. Conceptually develop a solid waste management scheme for an urban area.

### COURSE OBJECTIVE

1. To assess the activities involved for the proposed and determine the type, nature and estimated volumes of waste to be generated.
2. To identify any potential environmental impacts from the generation of waste at the site.
3. To recommend appropriate waste handling and disposal measures / routings in accordance with the current legislative and administrative requirements
4. To categorize waste material where practicable for disposal considerations i.e. public filling areas / landfill.

### Course Content

- Waste Collection and Transport: Collection of mixed waste or of source separated waste, collection logistics, transfer stations; machine park planning; Sub-contractors
- Treatment/disposal Technologies: dumping, sanitary landfills, mechanical-biological treatment, incineration, anaerobic digestion, composting; recycling of plastics, batteries, e-waste, Green House Gas emission and emission modeling, CDM, energy recovery etc.

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ENGINEERING, SWAMI VIVEKANAND  
SUBHARTI UNIVERSITY

NH-58, Delhi-Haridwar Bypass Road  
Subhartipuram, Meerut, Uttar Pradesh, 250005



VALUE ADDED COURSE  
ON

Soild Waste Management  
Organized By

Department of Civil Engineering  
3rd October 2017-13th October 2017

### REGISTRATION FORM

1. Name of Participant: ABDUL QUADIR

2. Department: CIVIL ENGG.

3. Year & Sem: 2nd & III

4. Phone Number: 8218814592

I undertake to abide by the rules and regulations of the competition imposed by the organizing Department and will participate with utmost discipline for the same.

Date: 12/10/2017 Signature of Applicant



TITLE NAME: SOLID WASTE MANAGEMENT

CONTACT HOUR: L: 12 T: 4 P: 4

### Course Objective

The main objective of the solid waste management is to promote the Environment Management and Conservation. The purpose of the course is

1. To assess the activities involved for the proposed and determine the type, nature and estimated volumes of waste to be generated;
2. To identify any potential environmental impacts from the generation of waste at the site;
3. To recommend appropriate waste handling and disposal measures / routings in accordance with the current legislative and administrative requirements; and
4. To categorize waste material where practicable for disposal considerations i.e. public filling areas / landfill.

MODULE	PARTICULAR	CONTACT HOUR
1	Introduction to SWM: Waste quantity and quality, generation of waste per capita and region; composition of waste; small scale industry waste; organic agricultural waste;	5
2	Waste Collection and Transport: Collection of mixed waste or of source separated waste, collection logistics, transfer stations; machine park planning; Sub-contractors;	5
3	Treatment/disposal Technologies: dumping, sanitary landfills, mechanical-biological treatment, incineration, anaerobic digestion, composting; recycling of plastics, batteries, e-waste, Green House Gas emission and emission modeling, CDM, energy recovery;	5
4	Financial, Social and Institutional aspects: costs of collection, separation, management; equipment costs; social costs, stake holders, scavengers, public health issues, policy and legislation.	5

## Course Outcome

Upon completion of the Course, the participant should be able to:

1. Suggest options for waste reduction at source so as to reduce quantities of waste generated;
2. Choose from an array of options to turn waste into economic goods;
3. Suggest treatment/disposal methods for waste from which the value has been taken out and to make basic calculations related to the conceptual design thereof;
4. Assess the impact of waste and waste management on other environmental compartments;
5. Roughly assess financial consequences of proposed management aspects in SWM;
6. Conceptually develop a solid waste management scheme for an urban area.

## REFERENCE BOOK

1. Manual on Solid Waste Management, C. P. H. E. E. O. by Ministry of Urban Development, Government of India, New Delhi
2. Environmental Engineering by Peavy, Rowe and Tchobanoglous
3. Wastewater Engineering by Metcalf and Eddy Inc.
4. Water Supply Engineering (Environmental Engineering Vol. – I)
5. Sewage Disposal and Air Pollution Engineering (Environmental Engineering Vol. – II) by S. K. Garg
6. Solid Waste Management by SANOOP GOPI KRISHNA and K SASIKUMAR
7. Waste Management: A Reference Handbook By Jacqueline Vaughn
8. To Evaluate the Current Solid Waste Issues in Hong Kong's Housing Process by YiuKuen Wilson Kong

  
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# VALUE ADDED COURSE REPORT

1. **Title Of value added:** Solid waste management
2. **Date and Place of value added course held:** The value added course is held between 03/11/2017 to 13/11/2017 at Subharti institute of technology and engineering.
3. **Name of college/Department:** The value added course is provided by civil engineering department of Subharti institute of technology and engineering.
4. **No. of Students attended :**20
5. **Summary of value added course:** The objective of this value added course is to enhance the knowledge of the students about how to manage solid waste. By doing this value added course students can identify the nature and volume of solid waste generated. He/She can identify the impact of solid waste on environmental conditions. The expected outcome of this value added course is:
  - a) Suggest option for waste reduction at source so as to reduce quantities of waste generated.
  - b) Asses the impact of waste and waste management on other environment components.
  - c) Conceptually develop a solid waste management scheme for an urban area.



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Course Value Added Branch CE Semester III<sup>rd</sup>

S. No.	Roll No.	Student Name   Lec. No.	Date																
			3-10-2017	4-10-2017	5-10-2017	6-10-2017	7-10-2017	9-10-2017	10-10-2017	11-10-2017	12-10-2017	13-10-2017							
1.	160101000186	ABDUL QUADIR	A	P	P	P	P	P	P	P	A	P	P						
2.	160----187	ABHISHEK	P	P	P	A	P	P	P	A	P	P							
3.	160----202	AMIT YADAV	P	P	A	P	P	A	P	P	P	P							
4.	160----210	ANKIT SAINI	P	A	P	P	P	P	P	P	P	P							
5.	160----219	ASHISHNATH TERPATHI	A	P	P	P	P	P	A	P	P	P							
6.	160---233	ASHUTOSH KUMAR MISHRA	P	A	P	P	P	P	P	P	P	P							
7.	160---237	AVINO K YAPTO	P	P	A	P	A	P	P	P	P	P							
8.	160---234	DHIRENDRA	P	P	P	P	P	P	A	P	P	P							
9.	160---273	MEESUM ABBAS	P	P	A	P	P	P	P	P	P	P							
10.	160---293	NAMGAY WANGCHUK	P	P	P	P	A	P	P	A	P	P							
11.	160---309	PARWET ALAM	P	P	A	P	P	P	P	P	P	P							
12.	160---353	SAURAD KUMAR SINGH	A	P	P	P	P	P	P	P	P	P							
13.	160---369	SHUBHAM KUMAR MOHAP	P	P	A	A	P	P	P	P	P	P							
14.	160---381	SUSHANT KUMAR	P	P	P	P	P	P	P	P	P	P							
15.	160---387	VANLAI RUATFELA	P	P	A	P	P	P	P	P	P	P							
16.	160----1252	SAKIB AHMAD WANI	P	P	A	P	A	P	A	P	P	P							
17.	1701000001921	VISHESH MALIK	P	P	P	P	P	P	P	P	P	P							
18.	1701008802588	DAUD CHAUHAN	P	P	A	P	P	P	P	A	P	P							
19.	17010188011490	ATUL KUMAR VISHNOI	P	P	P	P	P	P	P	P	P	P							
20.	1701018801497	VIVEK KUMAR	P	P	P	A	P	P	A	P	P	P							
21.	1701018801503	MURSALEENGUL	P	P	P	P	P	P	P	P	P	P							
22.	1701018801509	SHABYUM SHABIR	P	P	P	A	P	P	P	P	P	P							
23.	9917010002239	SHIVAM SRIVASTAV	P	P	P	A	A	P	P	P	P	P							
24.	9918010002234	RAUNAK KUMAR	P	P	P	A	A	P	P	P	P	P							
25.	9918010002238	SUMIT	A	P	P	P	P	P	P	A	P	P							







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**CERTIFICATE**

This is to certify that Mr./Ms.—DAUD CHAUHAN of Civil Engineering Department has successfully completed the Value-added course on "Solid Waste Management" held at Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut dated 03<sup>rd</sup> to 13<sup>th</sup> October, 2017.

  
(Er. R.K.Sharma)  
HOD,CE,SITE

  
(Er. Amrendra kumar singh)  
Asst. Professor (CE)  
Course Coordinator



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This is to certify that Mr./Ms AVION K YAPTO of Civil Engineering Department has successfully completed the Value-added course on "Solid Waste Management" held at Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut dated 03<sup>rd</sup> to 13<sup>th</sup> October, 2017.

  
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(Er. Amrendra kumar singh)  
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This is to certify that Mr./Ms.—ANKIT SAINI of Civil Engineering Department has successfully completed the Value-added course on "Solid Waste Management" held at Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut dated 03<sup>rd</sup> to 13<sup>th</sup> October, 2017.

  
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(Er. Amrendra kumar singh)  
Asst. Professor (CE)  
Course Coordinator



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## CERTIFICATE

This is to certify that Mr./Ms.—ABDUL QUADIR of Civil Engineering Department has successfully completed the Value-added course on "Solid Waste Management" held at Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut dated 03<sup>rd</sup> to 13<sup>th</sup> October, 2017.

  
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