



Subharti Institute of Technology and Engineering  
Swami Vivekanand Subharti University, Meerut  
(Approved by AICTE)

Subhartipuram, NH-58 Delhi-Haridwar Bypass Road, Meerut-250005 (U.P.)  
Ph.: 0121-2439157, Ext. 2222, 2221, Fax: 0121-2439108  
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## VALUE ADDED COURSES

SESSION : 2016-17

COURSE NAME: SOLID WASTE MANAGEMENT

COURSE CODE: ET-VA-05

### I. BROCHURE

<p><b>REGISTRATION ELIGIBILITY</b></p> <p>For 2<sup>nd</sup> Year students of CE</p> <p>No registration fees.</p> <p><b>HOW TO REGISTER</b></p> <p>Interested participants should send their duly completed registration form through their respective Head of the Departments to Er. Parvinder, Asst. Prof., CE for registering their names as a participant in the "Solid Waste Management" organized by Department of Civil Engineering, SITE, SVSU, Meerut. The participants need to submit individual entry forms.</p> <p><b>IMPORTANT DATES</b></p> <p>Last date for receipt of application: 15th Sep. 2016 Last date for acceptance notification: 30th Sep 2016</p> <p><b>VENUE</b></p> <p>Room no 109, Ground floor Subharti Institute of Technology and Engineering, SVSU, Meerut</p>	<p><b>PATRONS</b></p> <p>Dr. Jayant Shekhar, Principal, SITE</p> <p><b>CONVENER</b></p> <p>Er. R.K.Sharma, HOD, CE</p> <p><b>COORDINATOR</b></p> <p>Er. Parvinder, Asst Prof(CE),SITE</p>	<p>VALUE ADDED COURSE ON <b>Solid Waste Management</b></p> <p>3rd Oct. 2016-13th October 2016</p> <p>Organized by: Department of Civil Engineering, Subharti Institute of Technology and Engineering</p>  <p>SWAMI VIVEKANAND SUBHARTI UNIVERSITY MEERUT</p>
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*Mishra*



*[Signature]*  
Registrar  
Swami Vivekanand  
Subharti University  
MEERUT



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2. REGISTRATION FORM:

<p><b>At the end:</b></p> <ol style="list-style-type: none"><li>To suggest options for waste reduction at source so as to reduce quantities of waste generated.</li><li>To choose from an array of options to turn waste into economic goods.</li><li>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.</li><li>To assess the impact of waste and waste management on other environmental compartments.</li><li>To roughly assess financial consequences of proposed management aspects in SWM.</li><li>Conceptually develop a solid waste management scheme for an urban area.</li></ol>	<p><b>COURSE OBJECTIVE</b></p> <ol style="list-style-type: none"><li>To assess the activities involved for the proposed and determine the type, nature and estimated volumes of waste to be generated.</li><li>To identify any potential environmental impacts from the generation of waste at the site.</li><li>To recommend appropriate waste handling and disposal measures / routings in accordance with the current legislative and administrative requirements</li><li>To categorize waste material where practicable for disposal considerations i.e. public filling areas / landfill.</li></ol> <p><b>Course Content</b></p> <ul style="list-style-type: none"><li>Waste Collection and Transport: Collection of mixed waste or of source separated waste, collection logistics, transfer stations; machine park planning; Sub-contractors</li><li>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.</li></ul>	<p>SUBHARTI INSTITUTE OF TECHNOLOGY AND ENGINEERING, SWAMI VIVEKANAND SUBHARTI UNIVERSITY NH-58, Delhi-Haridwar Bypass Road, Subhartipuram, Meerut, Uttar Pradesh, 250005</p> <p>VALUE ADDED COURSE ON <b>Solid Waste Management</b> Organized By Department of Civil Engineering 3rd October 2016-13th October 2016</p> <p><b>REGISTRATION FORM</b></p> <p>1. Name of Participant: _____</p> <p>2. Department: _____</p> <p>3. Year &amp; Sem: _____</p> <p>4. Phone Number: _____</p> <p>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.</p> <p>Date: _____ Signature of Applicant _____</p>
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*Mishra*



*[Signature]*  
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**SWAMI VIVEKANAND SUBHARTI UNIVERSITY**

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OFFICE OF THE HOD [Department of Civil Engineering]

Ref No. :- SITE/CE/DA/VA/2017/I(a)

Dated: 25/08/2017

To,

The Principal

S.I.T.E, SVSU,

Meerut, U.P

**Sub:** Permission required conducting the value added courses in the department of CE for B.Tech. students.

Respected Sir,

With due respect, you are hereby informed that our department is planning to start a value added courses in our department whose details are as follows:

- a. Ground Improvement Techniques- for 4<sup>th</sup> Year
- b. Landscape Design and Site Development- for 3<sup>rd</sup> year
- c. Solid Waste Management- for 2<sup>nd</sup> year

Therefore, you are requested to provide approval for the same.

Requesting for your favourable response.

Your's faithfully,

Er. R.K.Sharma

HOD, CE

  
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Subharti University  
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**SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT**  
*DEPARTMENT OF CIVIL ENGINEERING*  
**VALUE ADDED COURSE**

**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.

<b>MODULE</b>	<b>PARTICULAR</b>	<b>CONTACT HOUR</b>
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

(P)

### 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

# 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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**VALUE ADDED COURSES**

**SESSION : 2016-17**

**COURSE NAME: SOLID WASTE MANAGEMENT**

**COURSE CODE: ET-VA-05**

**LIST OF STUDENTS**

S. NO.	ENROLLMENT NO.	STUDENT NAME
1	1401010002694	AAS MOHAMMAD
2	1401010001399	AASHUTTOSH KUMAR NITTAM
3	1401010001415	ABHIMANYU
4	1401010001391	ADITYA SHUKLA
5	1401010001498	AGA BODD DOLO
6	1401010001351	AKASH BALIYAN
7	1401010002657	AKASH KUMAR
8	1401010001514	AKASH KUMAR MORAL
9	1401010001456	AKASH TYAGI
10	1401010002653	AMIT KUMAR
11	1401010001515	ANKIT KUMAR BHATI
12	1401010001508	ANURAG PATEL
13	1401010001412	ASHISH KASHYAP
14	1401010001461	ASHISH KUMAR DUBEY
15	1401010002118	BHANU PRATAP
16	1401010001500	CHANDAN LAL MARANDI
17	1401010001403	DAGO PEACHU
18	1401010002655	DEEPAK KUMAR
19	1401010001400	DEKTSHIYA NEPAL
20	1401010001408	GAURAV PUNDIR


  
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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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## CERTIFICATE

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.

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

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



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## CERTIFICATE

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.

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

  
(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.

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

  
Registrar  
Swami Vivekanand  
Subharti University  
MEERUT

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