

SYLLABUS/  
CURRICULUM



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu  
Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

## DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2020-2021

### VACCE2021ETC - Effective Technique for Construction Cost Prediction

#### OBJECTIVE OF THE COURSE

- To gain comprehensive knowledge and skills in the efficient management of plastic waste, encompassing strategies for reduction, recycling, and responsible disposal, with a focus on environmental sustainability and societal impact.
- To explore innovative approaches and technologies in plastic waste management, including circular economy principles, policy development, and community engagement, to address the global challenge of plastic pollution effectively.

#### Chapter 1

5

The overview of the global plastic waste crisis - the environment and human health. the lifecycle of plastics, plastic waste production to disposal - the fundamental concepts and terminology of plastic waste management.

#### Chapter 2

6

Plastic pollution - the pollution effects on ecosystems, marine life, and public health. and case studies, the pollution severity of the issue and the need for effective management strategies in pollution.

#### Chapter 3

6

proactive approaches - plastic waste at its source. -The various strategies of product redesign, single-use plastic bags, and the promotion of alternative materials. the concept of sustainable consumption and lifestyle choices to minimize plastic consumption.

#### Chapter 4

6

Providing an in-depth exploration of plastic recycling- the different types of plastics, recycling processes, and challenges in the recycling industry. The emerging technologies - Recycling efficiency - the importance of consumer education - The proper waste segregation to facilitate the recycling process.

#### Chapter 5


6

Introducing the concept of the circular economy- the importance of designing waste system. innovative approaches in plastic waste management - closed-loop recycling and extended producer responsibility- the resource efficiency and reduce environmental impact.

#### Chapter 6

6

The role of policy and regulation in shaping plastic waste management practices- international agreements, national policies, and local regulations aimed at reducing plastic pollution and promoting sustainable waste management practices - the challenges and opportunities implementing the enforcing effective policies.

  
Course-Coordinator

  
HOD

**TOTAL HOURS:35**

  
PRINCIPAL





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## DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2020-2021

### VACCE2021ETC - Effective Technique for Construction Cost Prediction

#### Course Schedule

Date	Time	TOPICS
01/12/2020	9.00 am to 12.15 pm	The overview of the global plastic waste crisis - the environment and human health. the lifecycle of plastics, plastic waste production to disposal - the fundamental concepts and terminology of plastic waste management.
	1.00 pm to 4.15 pm	
02/12/2020	9.00 am to 12.15 pm	Plastic pollution - the pollution effects on ecosystems, marine life, and public health. and case studies, the pollution severity of the issue and the need for effective management strategies in pollution
	1.00 pm to 4.15 pm	
03/12/2020	9.00 am to 12.15 pm	proactive approaches - plastic waste at its source. -The various strategies of product redesign, single-use plastic bags, and the promotion of alternative materials. the concept of sustainable consumption and lifestyle choices to minimize plastic consumption.
	1.00 pm to 4.15 pm	
04/12/2020	9.00 am to 12.15 pm	Providing an in-depth exploration of plastic recycling- the different types of plastics, recycling processes, and challenges in the recycling industry. The emerging technologies - Recycling efficiency - the importance of consumer education - The proper waste segregation to facilitate the recycling process
	1.00 pm to 4.15 pm	
05/12/2020	9.00 am to 12.15 pm	Introducing the concept of the circular economy- the importance of designing waste system. innovative approaches in plastic waste management - closed-loop recycling and extended producer responsibility- the resource efficiency and reduce environmental impact.
	1.00 pm to 4.15 pm	
06/12/2020	9.00 am to 12.15 pm	The role of policy and regulation in shaping plastic waste management practices- international agreements, national policies, and local regulations aimed at reducing plastic pollution and promoting sustainable waste management practices - the challenges and opportunities implementing the enforcing effective policies.
	1.00 pm to 4.15 pm	

Tea Break : FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm  
Lunch : 12:15 pm to 01:00pm

**Total Hours :35**

*G. Ramesh*  
Course-Coordinator

*D. Akshay*  
HOD

PRINCIPAL





# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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## DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2020-2021

VACCE2021ETC - Effective Technique for Construction Cost Prediction

### One-page Report

Name of the course : **Effective Technique for Construction Cost Prediction**

Development Course Code : **VACCE2021ETC**

Course Coordinator : Ms. G. RAGHA DHARINI AP/Civil

Date/Duration : 01.12.2020 to 06.12.2020— 35 hours

I here affirm that the final-year students of strength 49 have been taught the value-added course title “**Effective Technique for Construction Cost Prediction**” as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled “**Effective Technique for Construction Cost Prediction**” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.

Course-Coordinator

HOD

PRINCIPAL



# ASSESSMENT PROCEDURE

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

ARASANOOR-630561

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2020-2021

**VACCE2021ETC - Effective Technique for Construction Cost Prediction**

Assessment Questions with Answer

1. Which of the following is NOT a component typically considered in construction cost estimation?
  - a) Labor
  - b) Profit margin
  - c) Marketing expenses**
  - d) Materials
  
2. What is the primary purpose of cost estimation in construction projects?
  - a) To increase project duration
  - b) To decrease project scope
  - c) To accurately predict project costs**
  - d) To ignore budget constraints
  
3. Which method of cost estimation relies on historical data and is often used when detailed information is not available for a project?
  - a) Analogous estimating**
  - b) Parametric estimating
  - c) Bottom-up estimating
  - d) Three-point estimating
  
4. Which software tool is commonly used for construction cost estimation and project management?
  - a) Microsoft Excel
  - b) Adobe Photoshop
  - c) Autodesk AutoCAD
  - d) CostX**
  
5. What is a key benefit of incorporating risk management into construction cost estimation?
  - a) Decreasing project complexity
  - b) Reducing project duration
  - c) Enhancing project profitability
  - d) Minimizing uncertainty and potential cost overruns**



6. Which of the following is NOT typically included as a cost component in construction projects?

- a) Subcontractors
- b) Overhead
- c) Taxes
- d) Labor unions**

7. Life cycle costing in construction cost estimation involves:

- a) Estimating costs for the entire duration of a project
- b) Considering the total cost of ownership over the project's life span**
- c) Ignoring long-term maintenance expenses
- d) Focusing only on initial construction costs

8. What does BIM stand for in the context of construction cost estimation?

- a) Building Information Management
- b) Basic Income Model
- c) Building Information Modeling**
- d) Budgeting and Investment Management

9. Which phase of a construction project is cost estimation typically carried out?

- a) Conceptual phase
- b) Design phase**
- c) Construction phase
- d) Post-construction phase

10. Value engineering in construction cost estimation focuses on:

- a) Maximizing project costs
- b) Minimizing project duration
- c) Optimizing project value while controlling costs**
- d) Ignoring project requirements

  
Course-Coordinator

  
HOD

  
PRINCIPAL

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

ARASANOOR-630561

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2020-2021

VACCE2021ETC - Effective Technique for Construction Cost Prediction

Assessment Test Paper

REGISTER NUMBER: 912017103007

NAME OF THE STUDENT: ATCHAYA - D

9/10

1. Which of the following is NOT a component typically considered in construction cost estimation?
  - a) Labor
  - b) Profit margin
  - c) Marketing expenses
  - d) Materials
2. What is the primary purpose of cost estimation in construction projects?
  - a) To increase project duration
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  - d) To ignore budget constraints
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  - d) Three-point estimating
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  - b) Adobe Photoshop
  - c) Autodesk AutoCAD
  - d) CostX



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- d) Post-construction phase

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- b) Minimizing project duration
- c)  Optimizing project value while controlling costs
- d) Ignoring project requirements

  
Course-Cordinator

  
HOD

  
PRINCIPAL

Academic Year 2020-2021

**Student Performance Sheet**

Period of course: 01.12.2020 to 06.12.2020  
VACCE2021ETC- EFFECTIVE TECHNIQUE FOR CONSTRUCTION COST PREDICTION

Duration of Course: 35 hours

Sl. No	Register Number	Student Name	Assessment Marks
1	912017103001	ANAND G	91
2	912017103002	ANANTH T	82
3	912017103003	ANDIYAPPAN C	93
4	912017103004	ANUSHYA M	95
5	912017103005	ARUL MURUGAN R	86
6	912017103006	ARUNRAJ N	92
7	912017103007	ATCHAYA D	90
8	912017103008	CHANDRU K	86
9	912017103009	DHANAPRIYA D	84
10	912017103010	DINESH KUMAR A	85
11	912017103011	JAYAKRISHNAPANDIYAN M	91
12	912017103012	JERLIN DEENA M	96
13	912017103013	KANIMURUGAN R	87
14	912017103014	KANNAN M	88
15	912017103015	KARTHICK A	95
16	912017103016	KARUPPUSAMY S	82
17	912017103017	KRISHNA KUMAR D	91
18	912017103018	LOGESWARAN M	82
19	912017103019	MALAICHAMY G	83
20	912017103020	NIKIL KANNAN A	85
21	912017103021	PANNEER PANDI M	94
22	912017103022	RANJITH K	95
23	912017103023	SABESH KARTHICK K	90
24	912017103024	SAKTHI BALAJI S	95
25	912017103025	SARAVANAN M	96
26	912017103026	SELVA B	84
27	912017103027	SETHUPATHI B	88
28	912017103028	SIVANESAN M	89
29	912017103029	SOWMIYA K	88



30	912017103030	THANGAMANI SP	86
31	912017103031	THINESH KUMAR M	95
32	912017103032	THIRUPATHI B	92
33	912017103033	THIRUPPATHI T	88
34	912017103034	ULAGANATHAN K	91
35	912017103040	VARATHA MUNEES C	95
36	912017103041	VIJAYARAJAN V	79
37	912017103042	VIJAY BHARATHI S	78
38	912017103301	ADAIKKALAPRAKASH A	81
39	912017103302	DANIEL DENSINGH S	88
40	912017103303	ELAYAPALLAVAN D	89
41	912017103304	JERALD DAVID G	91
42	912017103305	KASIVISWANATHAN SP	95
43	912017103307	PREM RAJAN DP	96
44	912017103308	RAMAKRISHNAN R	82
45	912017103309	SARAVANA PRAKASH C	88
46	912017103310	SHARMA J	93
47	912017103701	ILAKKIYA.M	86
48	912017103702	BALAKRISHNAN.P	83
49	912017103703	MANIMARAN.K	89

*C. Rajakumar*

Course Coordinator

*D. Lakshmi*  
HOD

*K. S. Srinivasan*  
Principal

Enrollment  
Student Name  
List



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561  
DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2020-2021

**Student Registration Sheet**

Period of course: 02.12.2020 to 06.12.2020

Duration of Course: 35 hours

VACCE2021ETC- EFFECTIVE TECHNIQUE FOR CONSTRUCTION COST PREDICTION

Sl. No	Register Number	Student Name	Signature of the Student
1	912017103001	ANAND G	Anand G.
2	912017103002	ANANTH T	Ananth T.
3	912017103003	ANDIYAPPAN C	Andiyappan C
4	912017103004	ANUSHYA M	Anushya M
5	912017103005	ARUL MURUGAN R	R. Arul Murugan
6	912017103006	ARUNRAJ N	Arunraj N
7	912017103007	ATCHAYA D	Atchaya D
8	912017103008	CHANDRU K	Chandru K.
9	912017103009	DHANAPRIYA D	Dhanapriya D
10	912017103010	DINESH KUMAR A	Dinesh Kumar A
11	912017103011	JAYAKRISHNAPANDIYAN M	M. Jayakrishna Pandian
12	912017103012	JERLIN DEENA M	Jerlin M
13	912017103013	KANIMURUGAN R	Kanimurugan R
14	912017103014	KANNAN M	Kannan M
15	912017103015	KARTHICK A	Karthick A
16	912017103016	KARUPPUSAMY S	Karuppusamy S
17	912017103017	KRISHNA KUMAR D	D. Krishna Kumar
18	912017103018	LOGESWARAN M	Logeswaran M
19	912017103019	MALAICHAMY G	Malaichamy G
20	912017103020	NIKIL KANNAN A	Nikil Kannan A
21	912017103021	PANNEER PANDI M	Panneer Pandi M
22	912017103022	RANJITH K	Ranjith K
23	912017103023	SABESH KARTHICK K	Sabesh Karthick K
24	912017103024	SAKTHI BALAJI S	Sakthi Balaji S
25	912017103025	SARAVANAN M	Saravanan M
26	912017103026	SELVA B	B. Selva
27	912017103027	SETHUPATHI B	Sethupathi B
28	912017103028	SIVANESAN M	Sivanesan M



29	912017103029	SOWMIYA K	K. Sowmiya
30	912017103030	THANGAMANI SP	Thangamani - SP
31	912017103031	THINESH KUMAR M	Thinesh Kumar
32	912017103032	THIRUPATHI B	Thirupathi - T.
33	912017103033	THIRUPPATHI T	Thirupathi
34	912017103034	ULAGANATHAN K	K. Ulaganathan
35	912017103040	VARATHA MUNEES C	VARATHA munees
36	912017103041	VIJAYARAJAN V	V. Vijaya Rajan
37	912017103042	VIJAY BHARATHI S	v. vidya Bharathi
38	912017103301	ADAIKKALAPRAKASH A	Adikkalash
39	912017103302	DANIEL DENSINGH S	S. Daniel Densingh
40	912017103303	ELAYAPALLAVAN D	ELAYAPALLAVAN
41	912017103304	JERALD DAVID G	Jerald David G.
42	912017103305	KASIVISWANATHAN SP	Kasi - Swathan
43	912017103307	PREM RAJAN DP	DP. Prem Rajan
44	912017103308	RAMAKRISHNAN R	Ramakrishna
45	912017103309	SARAVANA PRAKASH C	SARAVANA PRAKASH.
46	912017103310	SHARMA J	Sharma J
47	912017103701	ILAKKIYA.M	Ilakkiya
48	912017103702	BALAKRISHNAN.P	BALAKRISHNAN
49	912017103703	MANIMARAN.K	K. Mani Maran.

*A. Rasedhasen*  
Course Coordinator

*D. Aksh*  
HOD

*199*  
Principal



# STUDENTS ATTENDANCE

**PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561**  
**DEPARTMENT OF CIVIL ENGINEERING**

**Academic Year 2020-2021**

**Student attendance Sheet**

Period of course: 01.12.2020 to 06.12.2020

Duration of Course: 35 hours

**VACCE2021ETC- EFFECTIVE TECHNIQUE FOR CONSTRUCTION COST PREDICTION**

Attendance Sheet			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Sl. No	Register Number	Student Name	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm	09.00 am - 04.15 pm
1	912017103001	ANAND G	Att	Att	Att	Att	Att	Att
2	912017103002	ANANTH T	Att	Att	Att	Att	Att	Att
3	912017103003	ANDIYAPPAN C	Att	Att	Att	Att	Att	Att
4	912017103004	ANUSHYA M	Att	Att	Att	Att	Att	Att
5	912017103005	ARUL MURUGAN R	Att	Att	Att	Att	Att	Att
6	912017103006	ARUNRAJ N	Att	Att	Att	Att	Att	Att
7	912017103007	ATCHAYA D	Att	Att	Att	Att	Att	Att
8	912017103008	CHANDRU K	Att	Att	Att	Att	Att	Att
9	912017103009	DHANAPRIYA D	Att	Att	Att	Att	Att	Att
10	912017103010	DINESH KUMAR A	Att	Att	Att	Att	Att	Att
11	912017103011	JAYAKRISHNAPANDIYAN M	Att	Att	Att	Att	Att	Att
12	912017103012	JERLIN DEENA M	Att	Att	Att	Att	Att	Att
13	912017103013	KANIMURUGAN R	Att	Att	Att	Att	Att	Att
14	912017103014	KANNAN M	Att	Att	Att	Att	Att	Att
15	912017103015	KARTHICK A	Att	Att	Att	Att	Att	Att
16	912017103016	KARUPPUSAMY S	Att	Att	Att	Att	Att	Att
17	912017103017	KRISHNA KUMAR D	Att	Att	Att	Att	Att	Att
18	912017103018	LOGESWARAN M	Att	Att	Att	Att	Att	Att
19	912017103019	MALAICHAMY G	Att	Att	Att	Att	Att	Att
20	912017103020	NIKIL KANNAN A	Att	Att	Att	Att	Att	Att
21	912017103021	PANNEER PANDI M	Att	Att	Att	Att	Att	Att
22	912017103022	RANJITH K	Att	Att	Att	Att	Att	Att
23	912017103023	SABESH KARTHICK K	Att	Att	Att	Att	Att	Att
24	912017103024	SAKTHI BALAJI S	Att	Att	Att	Att	Att	Att



25	912017103025	SARAVANAN M	Sar	Sar	Sar	Sar	Sar	Sar
26	912017103026	SELVA B	Selva	Selva	Selva	Selva	Selva	Selva
27	912017103027	SETHUPATHI B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
28	912017103028	SIVANESAN M	Siva	Siva	Siva	Siva	Siva	Siva
29	912017103029	SOWMIYA K	Sow	Sow	Sow	Sow	Sow	Sow
30	912017103030	THANGAMANI SP	Thang	Thang	Thang	Thang	Thang	Thang
31	912017103031	THINESH KUMAR M	Thine	Thine	Thine	Thine	Thine	Thine
32	912017103032	THIRUPATHI B	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru
33	912017103033	THIRUPATHI T	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru
34	912017103034	ULAGANATHAN K	Ulagan	Ulagan	Ulagan	Ulagan	Ulagan	Ulagan
35	912017103040	VARATHA MUNEES C	Vara	Vara	Vara	Vara	Vara	Vara
36	912017103041	VIJAYARAJAN V	Vijaya	Vijaya	Vijaya	Vijaya	Vijaya	Vijaya
37	912017103042	VIJAY BHARATHI S	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay
38	912017103301	ADAIKKALAPRAKASH A	Adai	Adai	Adai	Adai	Adai	Adai
39	912017103302	DANIEL DENSINGH S	Dani	Dani	Dani	Dani	Dani	Dani
40	912017103303	ELAYAPALLAVAN D	Elaya	Elaya	Elaya	Elaya	Elaya	Elaya
41	912017103304	JERALD DAVID G	Jeral	Jeral	Jeral	Jeral	Jeral	Jeral
42	912017103305	KASIVISWANATHAN SP	Kasivi	Kasivi	Kasivi	Kasivi	Kasivi	Kasivi
43	912017103307	PREM RAJAN DP	Prem	Prem	Prem	Prem	Prem	Prem
44	912017103308	RAMAKRISHNAN R	Rama	Rama	Rama	Rama	Rama	Rama
45	912017103309	SARAVANA PRAKASH C	Sarava	Sarava	Sarava	Sarava	Sarava	Sarava
46	912017103310	SHARMA J	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma
47	912017103701	ILAKKIYA.M	Ilakki	Ilakki	Ilakki	Ilakki	Ilakki	Ilakki
48	912017103702	BALAKRISHNAN.P	Balakra	Balakra	Balakra	Balakra	Balakra	Balakra
49	912017103703	MANIMARAN.K	Manima	Manima	Manima	Manima	Manima	Manima

Tea Break : FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch : 12:15 pm to 01:00pm

*A. Rajeshkumar*  
Course Coordinator

*D. D. D. D.*  
HOD

*[Signature]*  
Principal



MODEL  
CERTIFICATES



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu – 630 561

Value added course on

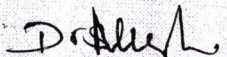
**Effective Technique for Construction Cost Prediction**


Organized by

**DEPARTMENT OF CIVIL ENGINEERING**

## CERTIFICATE

This is to Certify that SHARMA J from final year students has participated in the value-added course on **Effective Technique for Construction Cost Prediction** by the Department of Civil Engineering from 01.12.2020 to 06.12.2020 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

  
Dr. MEENAKSHI SUDARVIZHI  
HOD

  
Dr. R. RAJA  
PRINICIPAL



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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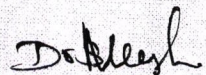
**Effective Technique for Construction Cost Prediction**


Organized by

**DEPARTMENT OF CIVIL ENGINEERING**

## CERTIFICATE

This is to Certify that SDWIMIYA-K from final year students has participated in the value-added course on **Effective Technique for Construction Cost Prediction** by the Department of Civil Engineering from 01.12.2020 to 06.12.2020 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

  
Dr. MEENAKSHI SUDARVIZHI  
HOD

  
Dr. R. RAJA  
PRINCIPAL



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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Value added course on

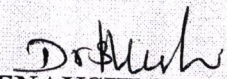
**Effective Technique for Construction Cost Prediction**


Organized by

**DEPARTMENT OF CIVIL ENGINEERING**

## CERTIFICATE

This is to Certify that ..... ARUNRAJAN ..... from final year students has participated in the value-added course on **Effective Technique for Construction Cost Prediction** by the Department of Civil Engineering from 01.12.2020 to 06.12.2020 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

  
Dr. MEENAKSHI SUDARVIZHI  
HOD

  
Dr. R. RAJA  
PRINCIPAL