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 2018-2019

VACCE1819DC - Design on Concrete Mix Theory and Practical Applications

OBJECTIVE OF THE COURSE

- The concrete mix design course is designed to provide participants with a comprehensive understanding of the principles and practices involved in designing concrete mixes. It begins by elucidating the fundamental components of concrete.
- Quality control procedures are emphasized, with participants gaining hands-on experience in testing fresh and hardened concrete to assess its performance. Environmental sustainability and safety considerations are woven throughout the course

Chapter 1 **5**

Introduction to concrete, laying the foundation- the basic components of concrete mixtures, including aggregates, cement, water, and admixtures

Chapter 2 **6**

The understanding concrete properties such as compressive strength, durability, and workability. material selection and proportioning, criteria for selecting aggregates, cements, and supplementary materials, and learn methods for proportioning

Chapter 3 **6**

The various mix design methods, the American Concrete Institute (ACI) method and the absolute volume method, acquainting participants the principles behind each approach and their practical applications.

Chapter 4 **6**

Advanced topics - performance-based mix design and the role of admixtures, emphasizing the importance of achieving specific performance criteria and enhancing concrete properties.

Chapter 5 **6**

Quality control and testing fresh and hardened concrete. Environmental considerations and sustainability and sustainable practices, environmental impact mitigation, and green concrete technologies

Chapter 6 **6**

The concrete practical applications and case studies, concrete knowledge to real-world scenarios and projects, reinforcing their understanding and problem-solving skills, structured approach, comprehensive understanding of concrete mix design principles and the practical skills necessary for successful implementation in construction projects.

TOTAL HOURS:35

Course-Coordinator **HOD** **PRINCIPAL**

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PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

VACCE1819DC - Design on Concrete Mix Theory and Practical Applications

Course Schedule

Date	Time	TOPICS
12/06/2018	9.00 am to 12.15 pm 1.00 pm to 4.15 pm	Introduction to concrete, laying the foundation- the basic components of concrete mixtures, including aggregates, cement, water, and admixtures
13/06/2018	9.00 am to 12.15 pm 1.00 pm to 4.15 pm	The understanding concrete properties such as compressive strength, durability, and workability. material selection and proportioning, criteria for selecting aggregates, cements, and supplementary materials, and learn methods for proportioning
14/06/2018	9.00 am to 12.15 pm 1.00 pm to 4.15 pm	The various mix design methods, the American Concrete Institute (ACI) method and the absolute volume method, acquainting participants the principles behind each approach and their practical applications.
15/06/2018	9.00 am to 12.15 pm 1.00 pm to 4.15 pm	Advanced topics - performance-based mix design and the role of admixtures, emphasizing the importance of achieving specific performance criteria and enhancing concrete properties
16/06/2018	9.00 am to 12.15 pm 1.00 pm to 4.15 pm	Quality control and testing fresh and hardened concrete. Environmental considerations and sustainability and sustainable practices, environmental impact mitigation, and green concrete technologies
1706/2018	9.00 am to 12.15 pm 1.00 pm to 4.15 pm	The concrete practical applications and case studies, concrete knowledge to real-world scenarios and projects, reinforcing their understanding and problem-solving skills, structured approach, comprehensive understanding of concrete mix design principles and the practical skills necessary for successful implementation in construction

Tea Break : FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm **Total Hours :35**
Lunch : 12:15 pm to 01:00pm

Course-Coordinator **HOD** **PRINCIPAL**

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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

VACCE1819DC - Design on Concrete Mix Theory and Practical Applications

One page Report

Name of the course : **Design on Concrete Mix Theory and Practical Applications**

Development Course Code : **VACCE1819DC**

Course Coordinator : Mr. S. Mohamed Ali Jinnah ASP/Civil

Date/Duration : 12.06.2018 to 17.06.2018— 35 hours

I here affirm that the Final-year students of strength 95 have been taught the value-added course tittle "**Design on Concrete Mix Theory and Practical Applications**" as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled "**Design on Concrete Mix Theory and Practical Applications**" 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**

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ASSESSMENT PROCEDURE

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

Academic Year 2018-2019

VACCE1819DC - Design on Concrete Mix Theory and Practical Applications

Assessment Questions with Answer

1.What is the primary function of the "Aggregate Gradation" command in concrete mix design?
A) To define the material properties of the concrete mix
B) To assign loads to the structure
C) To specify the size distribution of aggregates in the mix
D) To visualize analysis results

2.Which parameter primarily influences the workability of concrete mix?
A) Cement content
B) Aggregate size
C) Water-cement ratio
D) Admixture type

3.What is the purpose of adding admixtures to concrete mix?
A) To increase the cement content
B) To improve the colour of concrete
C) To enhance specific properties or workability
D) To reduce the water content

4.Which test is commonly used to determine the compressive strength of concrete mix?
A) Tensile strength test
B) Slump test
C) Flexural strength test
D) Compression strength test

5.In concrete mix design, what does the term "water-cement ratio" refer to?
A) The ratio of water to cementitious materials by weight
B) The ratio of water to aggregates by volume
C) The ratio of water to cement by volume
D) The ratio of water to sand by weight

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6.What is the purpose of curing in concrete mix design?
A) To accelerate the setting process
B) To increase the compressive strength
C) To prevent moisture loss and ensure hydration
D) To improve the workability.

7.Which type of cement is commonly used for high-strength concrete mix designs?
A) Type I (Ordinary Portland Cement)
B) Type II (Modified Portland Cement)
C) Type III (High-Early-Strength Cement)
D) Type IV (Low Heat Portland Cement)

8.What does the term "air-void system" refer to in concrete mix design?
A) It improves workability
B) It reduces the density of concrete
C) It enhances freeze-thaw resistance
D) It accelerates the curing process

9.What role do aggregates play in concrete mix design?
A) To increase the workability
B) To enhance the strength
C) To reduce the cost
D) To improve the colour

10.Which parameter is NOT typically considered in concrete mix design?
A) Aggregate size
B) Water-cement ratio
C) Admixture type
D) Air temperature

Course Coordinator **HOD** **Principal**

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

ACADEMIC YEAR 2018-2019

VACCE1819DC - Design on Concrete Mix Theory and Practical Applications

Assessment Test Paper

9/10

REGISTER NUMBER: 912015103063

NAME OF THE STUDENT: Sudhakar.M

1.What is the primary function of the "Aggregate Gradation" command in concrete mix design?
A) To define the material properties of the concrete mix
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D) The ratio of water to sand by weight

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6.What is the purpose of curing in concrete mix design?
A) To accelerate the setting process
B) To increase the compressive strength
C) To prevent moisture loss and ensure hydration
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B) Water-cement ratio
C) Admixture type
D) Air temperature

Course Coordinator **HOD** **Principal**

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PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2018-2019

Student Performance Sheet

Period of course: 12.06.2018 to 14.06.2018 **Duration of Course: 35 hours**

VACCE1819DC - DESIGN ON CONCRETE MIX THEORY AND PRACTICAL APPLICATIONS

Sl. No	Register Number	Student Name	Assessment Marks
1	912015103001	ABDUL ANISH KAPOOR S	81
2	912015103002	ABISHEK S	86
3	912015103003	AGNIRAJA S	91
4	912015103004	AJITH A	92
5	912015103005	AJITH S	95
6	912015103006	AJITH KANNAN M	86
7	912015103007	AJITHKUMAR S	91
8	912015103008	ALAGU RAJA M	92
9	912015103009	ANBARASAN S	95
10	912015103010	ARADHANA S	82
11	912015103011	ARUN P	86
12	912015103012	ARUNPANDI P	91
13	912015103013	BALAMURUGAN K	95
14	912015103014	BALAMURUGAN P	86
15	912015103015	CHELLAM T	88
16	912015103016	GAYATHRI K	95
17	912015103017	GEETHA M	78
18	912015103018	GOKULA KRISHNAN S	91
19	912015103019	GOPINATH G	95
20	912015103020	GOWRISANKAR S	86
21	912015103021	GOWTHAM J	79
22	912015103022	JEYASURIYA K	81
23	912015103023	KARTHEESWARI M	85
24	912015103025	KARTHIK A	79
25	912015103026	KATHIRAVAN S	82
26	912015103027	KATHIRVEL G	81
27	912015103028	KAVIKUMAR P	89
28	912015103029	KIPSON B	85
29	912015103030	KRISHNA KUMARI S	76

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30	912015103031	KRISHNAKUMAR R	72
31	912015103032	MANIMUTHU M	83
32	912015103033	MOHAMED RIYAS A	91
33	912015103034	MURALI S	95
34	912015103035	MUTHU KUMAR B	73
35	912015103037	MUTHURAJ R	89
36	912015103038	NIVETHA PRIYADHARSHINI M	95
37	912015103039	PARTHIBAN K	81
38	912015103040	PORKODI P	86
39	912015103041	PRABAKARAN S	92
40	912015103042	PRAKASH P	95
41	912015103043	PRAKASH S	98
42	912015103044	PRASANTH S	78
43	912015103045	RAJA K	91
44	912015103046	RAJA K	75
45	912015103047	RAJASEKAR D	78
46	912015103048	RAJESHKANNAN R	91
47	912015103049	RANJITH V	93
48	912015103050	SABARI RAJ M	98
49	912015103051	SAI SHREE R	91
50	912015103052	SAKTHIVEL R	96
51	912015103054	SARABANU S	81
52	912015103055	SARAVANAN K	85
53	912015103056	SARAVANA PRABHU P	93
54	912015103057	SATHISH KUMAR R	91
55	912015103058	SELVA GANAPATHY S	82
56	912015103059	SHANMUGANATHAN K	83
57	912015103061	SRINIVASAN K	91
58	912015103062	SUBASH M	95
59	912015103063	SUDHAKAR M	90
60	912015103066	SURYA KUMAR M	78
61	912015103068	TAMIL ILAKIYA N	79
62	912015103069	THANGA SILAMBARASAN T	81

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63	912015103070	THILAGAVATHY R	91
64	912015103071	VEERAMANI G	95
65	912015103074	VIGNESH BABU G	96
66	912015103075	VIGNESHWARAN M	82
67	912015103076	VINOTH R	92
68	912015103077	VISHNU S	93
69	912015103078	VISHWAPPRIYA M S	95
70	912015103301	AATHIKALAI S	96
71	912015103302	AATHIMURUGAN M	89
72	912015103303	ABDUL SALAM A	92
73	912015103304	AJITH KUMAR M	95
74	912015103306	ANBARASAN S	93
75	912015103308	BHAVATHARANI M	81
76	912015103309	HARI VIGNESH R B	82
77	912015103310	KANISHKAR K	93
78	912015103313	MAREESWARAN R	94
79	912015103314	NACHAMMAL K	95
80	912015103315	PALANI V	96
81	912015103317	POOVALINGAM S	98
82	912015103318	PRASANTH K	90
83	912015103319	PRASATH A	81
84	912015103321	RAMANANDI K	82
85	912015103322	SAHULHAMEED B	83
86	912015103323	SASIKUMAR P	91
87	912015103324	SATHEESH KUMAR S	95
88	912015103325	SOKKALINGAM M	96
89	912015103326	THAVAMANI V	98
90	912015103327	THIRUPPATHY K	91
91	912015103328	VIDHYADHARAN S	94
92	912015103701	VIVEK RAJA R	95
93	912015103702	VALLAVAN M	90
94	912015103703	KARTHIKEYAN J	78
95	912015103704	RAMANATHAN C	94

Course Coordinator

HOD

Principal

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Enrollment Student Name List

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

Academic Year 2018-2019

Student Registration Sheet

Period of course: 12.06.2018 to 17.06.2018. **Duration of Course: 35 hours**

VACCE1819DC - DESIGN ON CONCRETE MIX THEORY AND PRACTICAL APPLICATIONS

Sl. No	Register Number	Student Name	Signature of the Student
1	912015103001	ABDUL ANISH KAPOOR S	S. Abdul Anish kapoore
2	912015103002	ABISHEK S	Abishek.S
3	912015103003	AGNIRAJA S	
4	912015103004	AJITH A	Ajith.A
5	912015103005	AJITH S	S. Ajith
6	912015103006	AJITH KANNAN M	Ajith kannan. M
7	912015103007	AJITHKUMAR S	S. Ajithkumar
8	912015103008	ALAGU RAJA M	Alagu
9	912015103009	ANBARASAN S	S. ANBARASAN
10	912015103010	ARADHANA S	S. Aradhana
11	912015103011	ARUN P	Arun. P
12	912015103012	ARUNPANDI P	P. ARUNPANDI
13	912015103013	BALAMURUGAN K	Balam
14	912015103014	BALAMURUGAN P	P. BALAMURUGAN
15	912015103015	CHELLAM T	T. CHELLAM
16	912015103016	GAYATHRI K	Gayathri. K
17	912015103017	GEETHA M	M. Geetha
18	912015103018	GOKULA KRISHNAN S	S. gokula krishna
19	912015103019	GOPINATH G	G. Gopinath
20	912015103020	GOWRISANKAR S	S. Gowrisangar
21	912015103021	GOWTHAM J	Gowtham J.
22	912015103022	JEYASURIYA K	K. Jeya
23	912015103023	KARTHEESWARI M	M. Kartheswari
24	912015103025	KARTHIK A	Karthik

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25	912015103026	KATHIRAVAN S	
26	912015103027	KATHIRVEL G	
27	912015103028	KAVIKUMAR P	
28	912015103029	KIPSON B	
29	912015103030	KRISHNA KUMARI S	
30	912015103031	KRISHNAKUMAR R	
31	912015103032	MANIMUTHU M	
32	912015103033	MOHAMED RIYAS A	
33	912015103034	MURALI S	
34	912015103035	MUTHU KUMAR B	
35	912015103037	MUTHURAJ R	
36	912015103038	NIVETHA PRIYADHARSHINI M	
37	912015103039	PARTHIBAN K	
38	912015103040	PORKODI P	
39	912015103041	PRABAKARAN S	
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43	912015103045	RAJA K	
44	912015103046	RAJA K	
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47	912015103049	RANJITH V	
48	912015103050	SABARI RAJ M	
49	912015103051	SAI SHREE R	
50	912015103052	SAKTHIVEL R	
51	912015103054	SARABANU S	
52	912015103055	SARAVANAN K	
53	912015103056	SARAVANA PRABHU P	
54	912015103057	SATHISH KUMAR R	
55	912015103058	SELVA GANAPATHY S	
56	912015103059	SHANMUGANATHAN K	

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57	912015103061	SRINIVASAN K	
58	912015103062	SUBASH M	
59	912015103063	SUDHAKAR M	
60	912015103066	SURYA KUMAR M	
61	912015103068	TAMIL ILAKIYA N	
62	912015103069	THANGA SILAMBARASAN T	
63	912015103070	THILAGAVATHY R	
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65	912015103074	VIGNESH BABU G	
66	912015103075	VIGNESHWARAN M	
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86	912015103323	SASIKUMAR P	
87	912015103324	SATHEESH KUMAR S	

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88	912015103325	SOKKALINGAM M	
89	912015103326	THAVAMANI V	
90	912015103327	THIRUPPATHY K	
91	912015103328	VIDHYADHARAN S	
92	912015103701	VIVEK RAJA R	
93	912015103702	VALLAVAN M	
94	912015103703	KARTHIKEYAN J	
95	912015103704	RAMANATHAN C	

Course Coordinator

HOD

Principal

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STUDENTS ATTENDANCE

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

Academic Year 2018-2019

Student attendance Sheet

Period of course: 12.06.2018 to 17.06.2018 **Duration of Course: 35 hours**

VACCE1819DC - DESIGN ON CONCRETE MIX THEORY AND PRACTICAL APPLICATIONS

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	912015103001	ABDUL ANISH KAPOOR S						
2	912015103002	ABISHEK S						
3	912015103003	AGNIRAJA S						
4	912015103004	AJITH A						
5	912015103005	AJITH S						
6	912015103006	AJITH KANNAN M						
7	912015103007	AJITHKUMAR S						
8	912015103008	ALAGU RAJA M						
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17	912015103017	GEETHA M						
18	912015103018	GOKULA KRISHNAN S						
19	912015103019	GOPINATH G						
20	912015103020	GOWRISANKAR S						
21	912015103021	GOWTHAM J						
22	912015103022	JEYASURIYA K						
23	912015103023	KARTHEESWARI M						
24	912015103025	KARTHIK A						

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25	912015103026	KATHIRAVAN S							
26	912015103027	KATHIRVEL G							
27	912015103028	KAVIKUMAR P							
28	912015103029	KIPSON B							
29	912015103030	KRISHNA KUMARI S							
30	912015103031	KRISHNAKUMAR R							
31	912015103032	MANIMUTHU M							
32	912015103033	MOHAMED RIYAS A							
33	912015103034	MURALI S							
34	912015103035	MUTHU KUMAR B							
35	912015103037	MUTHURAJ R							
36	912015103038	NIVETHA PRIYADHARSHINI M							
37	912015103039	PARTHIBAN K							
38	912015103040	PORKODI P							
39	912015103041	PRABAKARAN S							
40	912015103042	PRAKASH P							
41	912015103043	PRAKASH S							
42	912015103044	PRASANTH S							
43	912015103045	RAJA K							
44	912015103046	RAJA K							
45	912015103047	RAJASEKAR D							
46	912015103048	RAJESHKANNAN R							
47	912015103049	RANJITH V							
48	912015103050	SABARI RAJ M							
49	912015103051	SAI SHREE R							
50	912015103052	SAKTHIVEL R							
51	912015103054	SARABANU S							
52	912015103055	SARAVANAN K							
53	912015103056	SARAVANA PRABHU P							
54	912015103057	SATHISH KUMAR R							
55	912015103058	SELVA GANAPATHY S							
56	912015103059	SHANMUGANATHAN K							

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57	912015103061	SRINIVASAN K							
58	912015103062	SUBASH M							
59	912015103063	SUDHAKAR M							
60	912015103066	SURYA KUMAR M							
61	912015103068	TAMIL ILAKIYA N							
62	912015103069	THANGA SILAMBARASAN T							
63	912015103070	THILAGAVATHY R							
64	912015103071	VEERAMANI G							
65	912015103074	VIGNESH BABU G							
66	912015103075	VIGNESHWARAN M							
67	912015103076	VINOTH R							
68	912015103077	VISHNU S							
69	912015103078	VISHWAPPRIYA M S							
70	912015103301	AATHIKALAI S							
71	912015103302	AATHIMURUGAN M							
72	912015103303	ABDUL SALAM A							
73	912015103304	AJITH KUMAR M							
74	912015103306	ANBARASAN S							
75	912015103308	BHAVATHARANI M							
76	912015103309	HARI VIGNESH R B							
77	912015103310	KANISHKAR K							
78	912015103313	MAREESWARAN R							
79	912015103314	NACHAMMAL K							
80	912015103315	PALANI V							
81	912015103317	POOVALINGAM S							
82	912015103318	PRASANTH K							
83	912015103319	PRASATH A							
84	912015103321	RAMANANDI K							
85	912015103322	SAHULHAMEED B							
86	912015103323	SASIKUMAR P							
87	912015103324	SATHEESH KUMAR S							
88	912015103325	SOKKALINGAM M							
89	912015103326	THAVAMANI V							

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90	912015103327	THIRUPPATHY K						
91	912015103328	VIDHYADHARAN S						
92	912015103701	VIVEK RAJA R						
93	912015103702	VALLAVAN M						
94	912015103703	KARTHIKEYAN J						
95	912015103704	RAMANATHAN C						

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

Lunch : 12:15 pm to 01:00pm

Course Coordinator HOD Principal

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MODEL CERTIFICATES

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

Value added course on

Design on Concrete Mix Theory and Practical Applications

Organized by

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that .....SARAVANAN.K..... from Final year students has participated in the value-added course on **Design on Concrete Mix Theory and Practical Applications** by the Department of Civil Engineering from 12.06.2018 to 17.06.2018 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

Dr. MEENAKSHI SUDARVIZHI
HOD

Dr. R. RAJA
PRINICIPAL

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CERTIFICATE

This is to Certify that PORKODI. P from Final year students has participated in the value-added course on **Design on Concrete Mix Theory and Practical Applications** by the Department of Civil Engineering from 12.06.2018 to 17.06.2018 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

Dr. MEENAKSHI SUDARVIZHI
HOD

Dr. R. RAJA
PRINICIPAL

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CERTIFICATE

This is to Certify that RANJITH.V from Final year students has participated in the value-added course on **Design on Concrete Mix Theory and Practical Applications** by the Department of Civil Engineering from 12.06.2018 to 17.06.2018 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

Dr. MEENAKSHI SUDARVIZHI
HOD

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Dr. R. RAJA
PRINICIPAL