



SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING



1.2 Academic Flexibility(30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	SUSTAINABLE DRAINAGE SYSTEMS				
Resource Person:	Er.R.Mohanraj, Managing Director, Sree Innovative Constructors, Mettur Road - 638 011				
Date of conduct from:	18.06.2018	To:	22.06.2018.	Duration:	30Hours
Organized Department:	CIVIL ENGINEERING				
Participant Year:	2/3/4	Semester:	ODD	No. of Students Registered:	68
Venue:	Lecture hall of II & III year CIVIL				

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DEPARTMENT OF CIVIL ENGINEERING

Ref: SCE / CIVIL / Students / VAC / 2018 – 2019 / ODD

11.06.2018

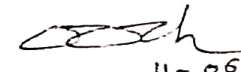
CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Civil Engineering and IQAC of our Institution in association with **Sree Innovative Constructors**, is organizing a **Value Added Course (VAC)** for the students of II, III and IV year of CIVIL on the title “**Sustainable Drainage Systems**” from **18.06.2018** to **22.06.2018**. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

- Students, who are securing **more than 70% on total score in the VAC test** and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended.

Resource Person Details	Er.R.Mohanraj, Managing Director, Sree Innovative Constructors, Mettur Road - 638 011	Er.R.Mohanraj, Managing Director, Sree Innovative Constructors, Mettur Road - 638 011
Venue	Lecture hall of II & III year CIVIL	


 HoD/CIVIL


 11-06-18
 PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class In charges - II, III & IV-Year CIVIL
- 5 II, III & IV Year CIVIL Students
6. CIVIL Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL

SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF CIVIL ENGINEERING

Ref: SCE / CIVIL / Students / VAC / 2018 – 2019 / ODD

11.06.2018

SYLLABUS - VALUE ADDED COURSE

“Sustainable Drainage Systems”

From 18.06.2018 to 22.06.2018 (5 days)

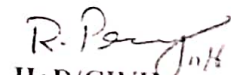
Duration : 30 Hours

Academic Year : 2018 -2019 / ODD

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Sustainable Drainage Systems (SuDS)	3	18.06.2018
2	Principles of SuDS Design	3	18.06.2018
3	Types of Sustainable Drainage Systems	3	19.06.2018
4	Hydrology and Water Management	3	19.06.2018
5	Environmental Benefits of SuDS	3	20.06.2018
6	Urban Heat Island Mitigation	3	20.06.2018
7	Regulatory Framework and Standards	3	21.06.2018
8	Case Studies of Successful SuDS Implementation	3	21.06.2018
9	Maintenance and Long-Term Viability	3	22.06.2018
10	Emerging Technologies in SuDS	3	22.06.2018
Total Hours		30	-

After successful completion of 30 Hours VAC, the assessment test for the VAC titled “Sustainable Drainage Systems” will be conducted on 22.06.2018.


 VAC Coordinator


 HoD/CIVIL


Dr. M. VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL
 SASURIE COLLEGE OF ENGINEERING,
 Vijayanangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF CIVIL ENGINEERING

STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

“Sustainable Drainage Systems”

From 18.06.2018 to 22.06.2018 (5 days)

Duration : 30 Hours

Academic Year : 2018 -2019 / ODD

S.No.	Reg No.	Name of the Student	Year / Branch
1.	732417103001	BASKARAN K	II/CIVIL
2.	732417103002	GAYATHRI N	II/CIVIL
3.	732417103003	GOWTHAM P	II/CIVIL
4.	732417103004	LAVANYA M	II/CIVIL
5.	732417103005	NAVEENA S	II/CIVIL
6.	732417103006	NIVETHA S	II/CIVIL
7.	732417103007	SANGAR G	II/CIVIL
8.	732417103008	SURYA N	II/CIVIL
9.	732417103009	THARUNKUMAR J	II/CIVIL
10.	732417103010	VAISHNAVI P	II/CIVIL
11.	732417103011	VALLARASU M	II/CIVIL
12.	732417103012	VJAY S	II/CIVIL
13.	732416103003	ARUN KUMAR B	III/CIVIL
14.	732416103004	BHARATHI S K	III/CIVIL
15.	732416103005	BISMIYA BASHEER	III/CIVIL
16.	732416103006	CHANDHRU L	III/CIVIL
17.	732416103007	CHANDRU K M	III/CIVIL
18.	732416103008	ELLAPPARAJ P	III/CIVIL
19.	732416103009	HARISH P	III/CIVIL
20.	732416103010	KURALARASAN S	III/CIVIL
21.	732416103011	MAGESHWARAN M	III/CIVIL
22.	732416103012	MAHENDIRAN P	III/CIVIL
23.	732416103013	MANIMARAN V	III/CIVIL
24.	732416103015	PRAVEENA T	III/CIVIL
25.	732416103016	RANJITHKUMAR G	III/CIVIL
26.	732416103017	RINSHA K P	III/CIVIL
27.	732416103018	SAKTHISUBRAMANI K	III/CIVIL
28.	732416103019	SENTHI NATHAN G	III/CIVIL
29.	732416103020	SIVARAMACHANDRAN N	III/CIVIL
30.	732416103021	SOUNDARYA S	III/CIVIL


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STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

S.No.	Reg No.	Name of the Student	Year / Branch
31.	732416103022	SUBASH P	III/CIVIL
32.	732416103023	VIGNESH V NAIR	III/CIVIL
33.	732416103024	VIJAYAPANDI V	III/CIVIL
34.	732416103025	VIKRAMAN C	III/CIVIL
35.	732416103301	SATHISH KUMAR S	III/CIVIL
36.	732416103501	PRIYANKA J	III/CIVIL
37.	732416103503	PRAVEEN KUMAR A	III/CIVIL
38.	732416103701	MAYAKARUPPU K	III/CIVIL
39.	732415103001	AJITH K A	IV/CIVIL
40.	732415103002	AJITH KANNAN V	IV/CIVIL
41.	732415103003	AMARESAN E	IV/CIVIL
42.	732415103005	DEVENDIRAN P	IV/CIVIL
43.	732415103006	GOKULAVANI A	IV/CIVIL
44.	732415103007	GOPI RAJ G	IV/CIVIL
45.	732415103008	GOWRIVELMUGUNTHAN AE	IV/CIVIL
46.	732415103009	GOWTHARAMAN P	IV/CIVIL
47.	732415103010	INDHUREKA N	IV/CIVIL
48.	732415103011	KALAIVANAN M	IV/CIVIL
49.	732415103012	KAMALNATH S	IV/CIVIL
50.	732415103013	KRISHNAROOBINI J	IV/CIVIL
51.	732415103014	MANORANJITHAM G	IV/CIVIL
52.	732415103015	MELARASAN V	IV/CIVIL
53.	732415103017	MUTHURAM K	IV/CIVIL
54.	732415103018	NARASHIMMAN R	IV/CIVIL
55.	732415103019	POOVENDHIRAN V	IV/CIVIL
56.	732415103021	RAMYASRI A	IV/CIVIL
57.	732415103022	SAMBATH RAJA M	IV/CIVIL
58.	732415103023	SANTHOSH KUMAR S	IV/CIVIL
59.	732415103024	SANTHOSH P	IV/CIVIL
60.	732415103025	SARAVANAN G	IV/CIVIL
61.	732415103026	SATHASIVAM M	IV/CIVIL
62.	732415103027	SELVAGANAPATHY S	IV/CIVIL
63.	732415103028	SHANMUKASUNDARAM R	IV/CIVIL
64.	732415103029	SURIYAPANDI K	IV/CIVIL
65.	732415103030	SURYA KUMAR S	IV/CIVIL
66.	732415103031	SWAPNA M	IV/CIVIL

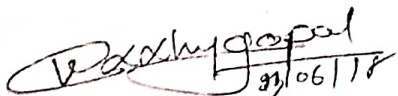

Dr. M. VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



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STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

S.No.	Reg No.	Name of the Student	Year / Branch
67.	732415103032	VEERAMANI E	IV/CIVIL
68.	732415103302	VIGNESH U	IV/CIVIL


30/06/18
VAC Coordinator


30/6
HoD/CIVIL


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STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE

“Sustainable Drainage Systems”

From 18.06.2018 to 22.06.2018 (5 days)

Duration : 30 Hours


Academic Year : 2018 -2019/ ODD

S.No	Reg No.	Name of the Student	Year/ Branch	18.06.2018		19.06.2018		20.06.2018		21.06.2018		22.06.2018		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	732417103001	BASKARAN K	II/CIVIL	/	/	/	/	/	/	/	/	/	/	30	K. Baskaran
2.	732417103002	GAYATHIRI N	II/CIVIL	/	/	/	a	/	/	/	/	/	/	27	N. Gayathri
3.	732417103003	GOWTHAM P	II/CIVIL	/	/	a	a	/	/	/	/	/	/	24	P. Goud
4.	732417103004	LAVANYA M	II/CIVIL	/	/	/	/	/	/	/	/	/	/	30	M. Lavanya
5.	732417103005	NAVEENA S	II/CIVIL	/	/	/	/	a	/	/	a	/	/	24	S. Naveena
6.	732417103006	NIVETHA S	II/CIVIL	/	/	/	/	/	/	/	/	/	/	30	S. Nivetha
7.	732417103007	SANGAR G	II/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Sangar
8.	732417103008	SURYA N	II/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Surya
9.	732417103009	THARUNKUMAR J	II/CIVIL	/	/	a	/	/	/	/	/	/	/	27	J. Tharun
10.	732417103010	VAISHNAVI P	II/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Vaishnavi
11.	732417103011	VALLARASU M	II/CIVIL	/	a	/	/	a	/	/	/	/	/	24	Vallarasu
12.	732417103012	VIJAY S	II/CIVIL	/	/	/	/	/	/	/	/	/	/	30	S. Vijay
13.	732416103003	ARUN KUMAR B	III/CIVIL	/	/	a	/	/	a	/	/	/	/	24	Arun Kumar

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
14.	732416103004	BHARATHI S K	III/CIVIL	/	/	/	a	/	/	/	/	/	/	27	<i>[Signature]</i>
15.	732416103005	BISMIYA BASHEER	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
16.	732416103006	CHANDHRU L	III/CIVIL	/	/	a	/	a	/	/	/	/	/	24	<i>[Signature]</i>
17.	732416103007	CHANDRU K M	III/CIVIL	/	/	/	/	a	/	/	/	/	/	27	<i>[Signature]</i>
18.	732416103008	ELLAPPARAJ P	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
19.	732416103009	HARISH P	III/CIVIL	a	/	/	/	/	/	/	/	/	/	27	<i>[Signature]</i>
20.	732416103010	KURALARASAN S	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
21.	732416103011	MAGESHWARAN M	III/CIVIL	/	a	/	/	/	/	/	/	/	/	27	<i>[Signature]</i>
22.	732416103012	MAHENDIRAN P	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
23.	732416103013	MANIMARAN V	III/CIVIL	/	/	/	a	/	/	/	a	/	/	24	<i>[Signature]</i>
24.	732416103015	PRAVEENA T	III/CIVIL	/	/	a	/	/	/	/	/	/	/	27	<i>[Signature]</i>
25.	732416103016	RANJITHKUMAR G	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
26.	732416103017	RINSHA K P	III/CIVIL	/	/	/	a	/	/	/	/	/	/	27	<i>[Signature]</i>
27.	732416103018	SAKTHISUBRAMANI K	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
28.	732416103019	SENTHILNATHAN G	III/CIVIL	/	/	/	/	a	/	/	/	/	/	27	<i>[Signature]</i>
29.	732416103020	SIVARAMACHANDRAN N	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
30.	732416103021	SOUNDARYA S	III/CIVIL	/	/	a	/	/	/	/	a	/	/	24	<i>[Signature]</i>
31.	732416103022	SUBASH P	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
32.	732416103023	VIGNESH V NAIR	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>


Dr.M.VIJAYAKUMAR M.E., Ph.D.,
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S.No	Reg No.	Name of the Student	Year/ Branch	18.06.2018		19.06.2018		20.06.2018		21.06.2018		22.06.2018		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
33.	732416103024	VIJAYAPANDI V	III/CIVIL	/	a	/	/	/	/	/	/	/	/	27	Vijayan
34.	732416103025	VIKRAMAN C	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	V. Vikraman
35.	732416103301	SATHISH KUMAR S	III/CIVIL	/	/	a	/	/	a	/	/	/	/	24	Sathish
36.	732416103501	PRIYANKA J	III/CIVIL	a	/	/	/	/	/	/	/	/	/	27	Priyanka
37.	732416103503	PRAVEEN KUMAR A	III/CIVIL	/	/	/	/	/	/	/	/	/	/	30	A. Praveen
38.	732416103701	MAYAKARUPPU K	III/CIVIL	/	/	/	a	/	/	/	/	/	/	27	M. Mayakaruppu
39.	732415103001	AJITH K A	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Ajith
40.	732415103002	AJITH KANNAN V	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Ajith
41.	732415103003	AMARESAN E	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Amaresan
42.	732415103005	DEVENDIRAN P	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	P. Devendiran
43.	732415103006	GOKULAVANI A	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Gokulavani
44.	732415103007	GOPI RAJ G	IV/CIVIL	/	/	a	/	/	/	/	/	/	/	27	Gopi Raj
45.	732415103008	GOWRIVELMUGUNTHAN AE	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Gowrivelmugunthan
46.	732415103009	GOWTHARAMAN P	IV/CIVIL	/	a	/	/	/	a	/	/	/	/	24	P. Gowtharaman
47.	732415103010	INDHUREKA N	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Indhureka
48.	732415103011	KALAIVANAN M	IV/CIVIL	/	a	/	/	/	a	/	/	/	/	24	Kalai Vanan
49.	732415103012	KAMALNATH S	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Kamalnath
50.	732415103013	KRISHNAROOBINI J	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Krishnarobini
51.	732415103014	MANORANJITHAM G	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Manoranjitham

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
52.	732415103015	MELARASAN V	IV/CIVIL	/	/	a	/	/	/	/	/	/	/	27	V. Prakash
53.	732415103017	MUTHURAM K	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	M. Muthuram
54.	732415103018	NARASHIMMAN R	IV/CIVIL	/	/	/	a	/	/	a	/	/	/	24	R. Narashimman
55.	732415103019	POOVENDHIRAN V	IV/CIVIL	/	/	/	/	a	/	/	/	/	/	27	P. Poovendhiran
56.	732415103021	RAMYASRI A	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Ramyasri A
57.	732415103022	SAMBATH RAJA M	IV/CIVIL	/	a	/	/	/	/	/	/	/	/	27	Sambath Raja M
58.	732415103023	SANTHOSH KUMAR S	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Santhosh Kumar S
59.	732415103024	SANTHOSH P	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Santhosh P
60.	732415103025	SARAVANAN G	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Saravanan G
61.	732415103026	SATHASIVAM M	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Sathasivam M
62.	732415103027	SELVAGANAPATHY S	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Selvaganapathy S
63.	732415103028	SHANMUKASUNDARAM R	IV/CIVIL	/	/	a	/	/	/	/	/	/	/	27	Shanmukasundaram R
64.	732415103029	SURIYAPANDI K	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Suriyapandi K
65.	732415103030	SURYA KUMAR S	IV/CIVIL	/	/	a	/	a	/	/	/	/	/	24	Surya Kumar S
66.	732415103031	SWAPNA M	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Swapna M
67.	732415103032	VEERAMANI E	IV/CIVIL	/	/	/	a	/	/	a	/	/	/	24	Veeramani E
68.	732415103302	VIGNESH U	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	30	Vignesh U

P. Pragasam
VAC Coordinator

P. Pragasam
HoD/CIVIL

M. S. Senthil
Dr.M.VIJAYAKUMAR ME., Ph.D.
PRINCIPAL

SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

Report on Value Added Course

Title:	Sustainable Drainage Systems			
Resource Person:	Er.R.Mohanraj, Managing Director, Sree Innovative Constructors, Mettur Road - 638 011		Er.R.Mohanraj, Managing Director, Sree Innovative Constructors, Mettur Road - 638 011	
Date of conduct from :	18.06.2018	To:	22.06.2018	Duration: 30 Hours
Organized by :	CIVIL ENGINEERING and IQAC in association with Sree Innovative Constructors			
Academic Year:	2018 – 2019		Semester:	ODD
Participant Year:	II, III, IV Year CIVIL		No. of Students Participated :	68
Venue:	Lecture hall of II & III year CIVIL			

Outcome of Value Added Course (VAC)

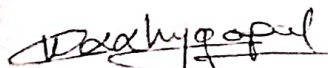
At the end of the Course, Students can be able to

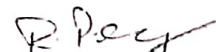
- Define and articulate the principles and purpose of SuDS.
- Demonstrate the ability to integrate SuDS with urban planning and development projects.
- Evaluate and communicate the environmental benefits of SuDS, such as biodiversity enhancement, water quality improvement, and flood risk reduction.
- Interpret and apply national and international guidelines, as well as local regulations, to ensure compliance in SuDS design and implementation.
- Develop plans for ongoing maintenance of SuDS and propose strategies for community involvement in sustaining these systems.

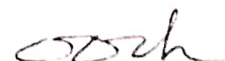
Assessment Process

- Students, who are securing more than 70% on total score in the VAC test and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended
- Total Score = (0.5 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks)

No. of students successfully completed the VAC course is **68 Students** based on the above assessment process.


VAC Co-ordinator


HoD/ CIVIL

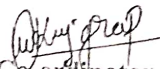

Principal



DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms.....**VAISHNAVI P. II/CIVIL**..... has successfully completed the Value Added Course titled "Sustainable Drainage System" Organized by the *Department of Civil Engineering* in association with IQAC of Sasurie College of Engineering and Sree Innovative Constructors from 18-06-2018 to 22-06-2018 (5 Days).


Co-ordinator


Head of the Department



Principal
Dr.M.VIJAYAKUMAR M.E., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tiruppur, (Tn)



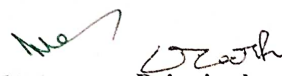
DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms..... LAVANYA M, II/CIVIL..... has successfully completed the Value Added Course titled “Sustainable Drainage System” Organized by the *Department of Civil Engineering* in association with IQAC of Sasurie College of Engineering and Sree Innovative Constructors from 18-06-2018 to 22-06-2018 (5 Days).


Co-ordinator


Head of the Department

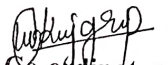

Dr.M.VIJAYAKUMAR Principal
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING
Vijayamangalam - 636 036, Tirupur (Dt).



DEPARTMENT OF CIVIL ENGINEERING

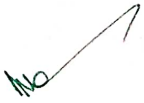
Certificate of Participation

This is to certify that Mr./Ms..... ELLAPPARAJ P. III/CIVIL has successfully completed the Value Added Course titled “Sustainable Drainage System” Organized by the *Department of Civil Engineering* in association with IQAC of Sasurie College of Engineering and Sree Innovative Constructors from 18-06-2018 to 22-06-2018 (5 Days).


Co-ordinator


Head of the Department


Principal


Dr.M.VIJAYAKUMAR M.E., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 055, Tiruppur (Dt)




DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms..... **KURALARASAN, S. III/CIVIL**..... has successfully completed the Value Added Course titled “Sustainable Drainage System” Organized by the *Department of Civil Engineering* in association with IQAC of Sasurie College of Engineering and Sree Innovative Constructors from 18-06-2018 to 22-06-2018 (5 Days).


Co-ordinator


Head of the Department

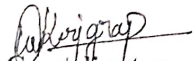

Principal
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 643 650, Tiruppur (TN)



DEPARTMENT OF CIVIL ENGINEERING


Certificate of Participation

This is to certify that Mr./Ms..... **VIGNESH U, IV/CIVIL**..... has successfully completed the Value Added Course titled “Sustainable Drainage System” Organized by the *Department of Civil Engineering* in association with IQAC of Sasurie College of Engineering and Sree Innovative Constructors from 18-06-2018 to 22-06-2018 (5 Days).


Co-ordinator


Head of the Department

 
Dr.M.VIJAYAKUMAR ME., Ph.D.
Principal

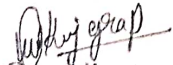

SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms..... **KRISHNAROOBINI J. IV/CIVIL** has successfully completed the Value Added Course titled “Sustainable Drainage System” Organized by the *Department of Civil Engineering* in association with IQAC of Sasurie College of Engineering and Sree Innovative Constructors from 18-06-2018 to 22-06-2018 (5 Days).


Co-ordinator


Head of the Department

 
Dr.M.VIJAYAKUMAR ME. Principal

PRINCIPAL
SASURIE COLLEGE OF ENGINEERING
Vijayamangalam - 638 056, Tiruppur (Dt).

DEPARTMENT OF CIVIL ENGINEERING

TEST QUESTION PAPER - VALUE ADDED COURSE

“Sustainable Drainage Systems”

From 18.06.2018 to 22.06.2018 (5 days)

Duration : 30 Hours

Academic Year : 2018 -2019 / ODD

Date of Test : 22.06.2018

MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student:

Year/Sem:

AU Register Number:

Answer all the questions:

1. What is the primary purpose of Sustainable Drainage Systems (SuDS)?
 - a. Increase water runoff
 - b. Decrease biodiversity
 - c. Manage stormwater sustainably
 - d. Promote urban heat islands

2. Which of the following is a nature-based solution commonly used in SuDS?
 - a. Impermeable pavement
 - b. Concrete channels
 - c. Green roof
 - d. Traditional storm drains

3. What does "SuDS" stand for?
 - a. Sustainable Development Strategies
 - b. Sustainable Drainage Systems
 - c. Stormwater Drainage Solutions
 - d. Systematic Urban Development

4. What is source control in SuDS design?
 - a. Controlling water sources
 - b. Managing runoff at its origin
 - c. Controlling construction materials
 - d. Regulating storm drains




Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 633 056, Tirupur (Dt).

5. Which SuDS component is designed to enhance biodiversity?
 - a. Permeable pavement
 - b. Swale
 - c. Green roof
 - d. Infiltration basin

6. In SuDS, what does "infiltration" refer to?
 - a. The rate of runoff
 - b. The movement of water into the ground
 - c. Urban heat island effects
 - d. Water quality improvement

7. What is the role of SuDS in mitigating the Urban Heat Island effect?
 - a. Increasing impervious surfaces
 - b. Enhancing heat retention
 - c. Incorporating green infrastructure
 - d. Utilizing traditional stormwater drains

8. What does a rain garden primarily focus on?
 - a. Reducing rainfall
 - b. Enhancing groundwater recharge
 - c. Filtering stormwater through plants
 - d. Increasing impervious surfaces

9. Which regulatory aspect is crucial for SuDS implementation?
 - a. National and international guidelines
 - b. Urban planning aesthetics
 - c. Construction cost-effectiveness
 - d. Residential preferences

10. What is the key environmental benefit of SuDS related to water?
 - a. Increase in water pollution
 - b. Enhancement of water quality
 - c. Reduction of water availability
 - d. Rise in flood risks

11. What is the primary function of permeable pavements in SuDS?
 - a. Channeling water to storm drains
 - b. Preventing infiltration
 - c. Allowing water to pass through the surface
 - d. Increasing impervious surfaces

12. How does SuDS contribute to flood risk reduction?
 - a. By increasing impermeable surfaces
 - b. By managing stormwater quantity
 - c. By promoting high runoff rates
 - d. By reducing green infrastructure

13. Which component is designed to collect and channel stormwater along a gentle slope?
 - a. Green roof
 - b. Swale
 - c. Rain garden
 - d. Infiltration basin

14. In the context of SuDS, what does "smart and sensor-based" technology refer to?
 - a. Traditional drainage systems
 - b. Advanced monitoring and control systems
 - c. Impermeable surfaces
 - d. Low-tech construction materials

15. What is the significance of ongoing maintenance in SuDS?
 - a. It is unnecessary for SuDS systems
 - b. It ensures the longevity and effectiveness of the systems
 - c. It increases flood risk
 - d. It hinders biodiversity enhancement

16. Which SuDS type is designed to capture and slow the flow of stormwater runoff?
 - a. Permeable pavement
 - b. Infiltration basin
 - c. Green roof
 - d. Rain garden

17. What is the primary goal of SuDS integration with urban planning and development?
 - a. Minimizing green spaces
 - b. Maximizing impermeable surfaces
 - c. Ensuring sustainable stormwater management
 - d. Ignoring environmental considerations

18. What are SuDS primarily designed to manage?
 - a. Air pollution
 - b. Noise pollution
 - c. Stormwater
 - d. Thermal pollution

DEPARTMENT OF CIVIL ENGINEERING

TEST QUESTION ANSWER KEY - VALUE ADDED COURSE

“Sustainable Drainage Systems”

From 18.06.2018 to 22.06.2018 (5 days)

Duration : 30 Hours


Academic Year : 2018 -2019 / ODD

Date of Test : 22.06.2018

1	c	6	b	11	c	16	b	21	b
2	c	7	c	12	b	17	c	22	d
3	b	8	c	13	b	18	c	23	c
4	b	9	a	14	b	19	c	24	a
5	c	10	b	15	b	20	a	25	b


VAC Coordinator


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL

 SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF CIVIL ENGINEERING

TEST QUESTION PAPER - VALUE ADDED COURSE

“Sustainable Drainage Systems”

From 18.06.2018 to 22.06.2018 (5 days)

Duration : 30 Hours

Academic Year : 2018 -2019 / ODD

Date of Test : 22.06.2018

MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student: S. Navarā

Year/Sem: II / III

AU Register Number: 732417103005

22

25

Answer all the questions:

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- d. Promote urban heat islands

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 - c. Allowing water to pass through the surface
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- a. By increasing impermeable surfaces
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 - c. By promoting high runoff rates
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 - c. It increases flood risk
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- a. Minimizing green spaces
 - b. Maximizing impermeable surfaces
 - c. Ensuring sustainable stormwater management
 - d. Ignoring environmental considerations
18. What are SuDS primarily designed to manage?
- a. Air pollution
 - b. Noise pollution
 - c. Stormwater
 - d. Thermal pollution



19. Which of the following is a factor to consider in SuDS design related to rainfall?
- a. Reducing green infrastructure
 - b. Ignoring climate considerations
 - c. Understanding rainfall patterns
 - d. Increasing runoff rates
20. What is the purpose of a green roof in SuDS?
- a. Enhancing biodiversity
 - b. Increasing impermeable surfaces
 - c. Preventing infiltration
 - d. Promoting urban heat islands
21. What role do swales play in SuDS?
- a. Increase impervious surfaces
 - b. Channel stormwater along a gentle slope
 - c. Enhance urban heat islands
 - d. Reduce biodiversity
22. Which of the following is a SuDS benefit related to groundwater recharge?
- a. Decreasing infiltration
 - b. Enhancing impermeable surfaces
 - c. Increasing urban heat islands
 - d. Allowing water to percolate into the ground
23. How does SuDS contribute to biodiversity enhancement?
- a. By minimizing green spaces
 - b. By promoting impermeable surfaces
 - c. Through the use of nature-based solutions
 - d. By increasing runoff rates
24. What does "Viability" refer to in the context of SuDS maintenance?
- a. Long-term effectiveness
 - b. Short-term disruptions
 - c. Decreased biodiversity
 - d. Increased flood risks
25. What is the significance of community involvement in SuDS maintenance?
- a. It is unnecessary for successful maintenance
 - b. It ensures ongoing support and stewardship
 - c. It hinders long-term viability
 - d. It promotes impermeable surfaces

DEPARTMENT OF CIVIL ENGINEERING

ASSESSMENT SHEET - VALUE ADDED COURSE


“Sustainable Drainage Systems”

From 18.06.2018 to 22.06.2018 (5 days)

Duration : 30 Hours

Academic Year : 2018 -2019/ ODD

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
1.	732417103001	BASKARAN K	II/CIVIL	30	100	19	76	88
2.	732417103002	GAYATHRI N	II/CIVIL	27	90	19	76	83
3.	732417103003	GOWTHAM P	II/CIVIL	24	80	21	84	82
4.	732417103004	LAVANYA M	II/CIVIL	30	100	18	72	86
5.	732417103005	NAVEENA S	II/CIVIL	24	80	20	80	80
6.	732417103006	NIVETHA S	II/CIVIL	30	100	19	76	88
7.	732417103007	SANGAR G	II/CIVIL	30	100	19	76	88
8.	732417103008	SURYA N	II/CIVIL	30	100	18	72	86
9.	732417103009	THARUNKUMAR J	II/CIVIL	27	90	19	76	83
10.	732417103010	VAISHNAVI P	II/CIVIL	30	100	19	76	88
11.	732417103011	VALLARASU M	II/CIVIL	24	80	20	80	80
12.	732417103012	VIJAY S	II/CIVIL	30	100	19	76	88
13.	732416103003	ARUN KUMAR B	III/CIVIL	24	80	21	84	82


Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL
 SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).

ASSESSMENT SHEET - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
14.	732416103004	BHARATHI S K	III/CIVIL	27	90	19	76	83
15.	732416103005	BISMIYA BASHEER	III/CIVIL	30	100	20	80	90
16.	732416103006	CHANDHRU L	III/CIVIL	24	80	21	84	82
17.	732416103007	CHANDRU K M	III/CIVIL	27	90	18	72	81
18.	732416103008	ELLAPPARAJ P	III/CIVIL	30	100	21	84	92
19.	732416103009	HARISH P	III/CIVIL	27	90	19	76	83
20.	732416103010	KURALARASAN S	III/CIVIL	30	100	19	76	88
21.	732416103011	MAGESHWARAN M	III/CIVIL	27	90	19	76	83
22.	732416103012	MAHENDIRAN P	III/CIVIL	30	100	20	80	90
23.	732416103013	MANIMARAN V	III/CIVIL	24	80	21	84	82
24.	732416103015	PRAVEENA T	III/CIVIL	27	90	18	72	81
25.	732416103016	RANJITHKUMAR G	III/CIVIL	30	100	21	84	92
26.	732416103017	RINSHA K P	III/CIVIL	27	90	19	76	83
27.	732416103018	SAKTHISUBRAMANI K	III/CIVIL	30	100	19	76	88
28.	732416103019	SENTHILNATHAN G	III/CIVIL	27	90	19	76	83
29.	732416103020	SIVARAMACHANDRAN N	III/CIVIL	30	100	20	80	90
30.	732416103021	SOUNDARYA S	III/CIVIL	24	80	21	84	82
31.	732416103022	SUBASH P	III/CIVIL	30	100	21	84	92
32.	732416103023	VIGNESH V NAIR	III/CIVIL	30	100	21	84	92


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

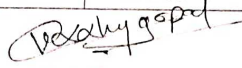
ASSESSMENT SHEET - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
33.	732416103024	VIJAYAPANDI V	III/CIVIL	27	90	19	76	83
34.	732416103025	VIKRAMAN C	III/CIVIL	30	100	20	80	90
35.	732416103301	SATHISH KUMAR S	III/CIVIL	24	80	21	84	82
36.	732416103501	PRIYANKA J	III/CIVIL	27	90	18	72	81
37.	732416103503	PRAVEEN KUMAR A	III/CIVIL	30	100	21	84	92
38.	732416103701	MAYAKARUPPU K	III/CIVIL	27	90	19	76	83
39.	732415103001	AJITH K A	IV/CIVIL	30	100	19	76	88
40.	732415103002	AJITH KANNAN V	IV/CIVIL	30	100	21	84	92
41.	732415103003	AMARESAN E	IV/CIVIL	30	100	19	76	88
42.	732415103005	DEVENDIRAN P	IV/CIVIL	30	100	19	76	88
43.	732415103006	GOKULAVANI A	IV/CIVIL	30	100	18	72	86
44.	732415103007	GOPI RAJ G	IV/CIVIL	27	90	19	76	83
45.	732415103008	GOWRIVELMUGUNTHAN AE	IV/CIVIL	30	100	19	76	88
46.	732415103009	GOWTHARAMAN P	IV/CIVIL	24	80	20	80	80
47.	732415103010	INDHUREKA N	IV/CIVIL	30	100	19	76	88
48.	732415103011	KALAIVANAN M	IV/CIVIL	24	80	21	84	82
49.	732415103012	KAMALNATH S	IV/CIVIL	30	100	19	76	83
50.	732415103013	KRISHNAROOBINI J	IV/CIVIL	30	100	19	76	83
51.	732415103014	MANORANJITHAM G	IV/CIVIL	30	100	18	72	86


Dr. M. VIJAYAKUMAR ME., Ph.D.,
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 SASURIE COLLEGE OF ENGINEERING,
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ASSESSMENT SHEET - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
52.	732415103015	MELARASAN V	IV/CIVIL	27	90	19	76	83
53.	732415103017	MUTHURAM K	IV/CIVIL	30	100	20	80	90
54.	732415103018	NARASHIMMAN R	IV/CIVIL	24	80	21	84	82
55.	732415103019	POOVENDHIRAN V	IV/CIVIL	27	90	18	72	81
56.	732415103021	RAMYASRI A	IV/CIVIL	30	100	21	84	92
57.	732415103022	SAMBATH RAJA M	IV/CIVIL	27	90	19	76	83
58.	732415103023	SANTHOSH KUMAR S	IV/CIVIL	30	100	19	76	88
59.	732415103024	SANTHOSH P	IV/CIVIL	30	100	21	84	92
60.	732415103025	SARAVANAN G	IV/CIVIL	30	100	19	76	88
61.	732415103026	SATHASIVAM M	IV/CIVIL	30	100	19	76	88
62.	732415103027	SELVAGANAPATHY S	IV/CIVIL	30	100	18	72	86
63.	732415103028	SHANMUKASUNDARAM R	IV/CIVIL	27	90	19	76	83
64.	732415103029	SURIYAPANDI K	IV/CIVIL	30	100	19	76	88
65.	732415103030	SURYA KUMAR S	IV/CIVIL	24	80	20	80	80
66.	732415103031	SWAPNA M	IV/CIVIL	30	100	19	76	88
67.	732415103032	VEERAMANI E	IV/CIVIL	24	80	21	84	82
68.	732415103302	VIGNESH U	IV/CIVIL	30	100	19	76	88


 VAC Coordinator


 HOD/CIVIL


Dr.M.VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL

SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).