



G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade |

Accredited by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DATE: 17-09-2022

To

The Principal,
GPCET,
Kurnool.

Sir,

Sub: Approval of ADD-ON course for III CE & IV CE Students-Regd

The department of CE requests you to accept the proposal for conducting ADD-ON Course on "Planning and design of sanitation systems" for of III-I & IV-I year CE students scheduled for the duration of 42 hours. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

HOD-CE
PRINCIPAL

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Department Circular –ADD-ON Course

DATE: 08-10-2022

The III year & IV year-I semester CE Students are informed to enroll their names for ADD-ON Course on “**Planning and design of sanitation systems**” with their respective class-in-charges on or before 10-10-2022. The course commences from 12th October and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

Bus facility is made available soon after the class work.

HOD-CE

**SYLLABUS FOR ADD-ON COURSE ON PLANNING AND DESIGN OF
SANITATION SYSTEMS**

DAY	TOPICS
1	Introduction to sanitation planning
2	Sanitation systems and approaches
3	Sanitation technologies
4	Urban sanitation solutions
5	Urban sanitation and tools
6	Themes of urban sanitation
7	Role of gender in sanitation planning
8	Sanitation value chain
9	Urban environmental Sanitation
10	Human health
11	Environmental protection
12	Environmental sanitation planning
13	Sanitation planning
14	Simple treatment process
15	Complex centralised treatment
16	Advantages of simple process
17	Disadvantages of simple process
18	Advantages of complex process
19	Disadvantages of complex process
20	Urban sanitation and tools
21	Excreta flow diagram
22	Sanitation safety
23	Overarching themes
24	Problem of sanitation planning
25	Problem of sanitation planning



G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ADDON COURSE SCHEDULE

Date: 26/09/2022

III & IV YEAR – I Semester		
Course	Faculty	Duration
Introduction to sanitation planning	Mrs. J Ushasree	3 hours
Sanitation systems and approaches	Mrs. J Ushasree	2 hours
Sanitation technologies	Mrs. J Ushasree	3 hours
Urban sanitation solutions	Mrs. C T Veena	2 hours
Urban sanitation and tools	Mrs. C T Veena	2 hours
Themes of urban sanitation	Mrs. J Ushasree	3 hours
Role of gender in sanitation planning	Mrs. C T Veena	3 hours
Sanitation value chain	Mrs. J Ushasree	2 hours
Urban environmental Sanitation	Mrs. C T Veena	2 hours
Human health	Mrs. J Ushasree	2 hours
Environmental protection	Mrs. C T Veena	2 hours
Environmental sanitation planning	Mrs. J Ushasree	3 hours
Sanitation planning	Mrs. C T Veena	2 hours
Simple treatment process	Mrs. J Ushasree	3 hours
Complex centralised treatment	Mrs. C T Veena	2 hours



G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL (Autonomous)

Department of Civil Engineering

The following is the list of the students who have registred Add on Course on “Planning and design of sanitation systems”

III-I CE

S.No	Roll No	Name of the Candidate
1	20AT1A0101	JADE NAGASAI
2	20AT1A0102	VADDE BATHULA AKASH RAJU
3	20AT1A0103	SHAIK AKASH SHAJIL
4	20AT1A0104	MD.M.AMAN
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33	20AT1A0135	U.S.RAJ KUMAR
34	20AT1A0136	S.MD.RIZWAAN
35	20AT1A0138	ETUKURI SAI SRIYA



36	20AT1A0139	TUMMALASETTY SAI YAMINI
37	20AT1A0140	K.SAI.MANITHA
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51	20AT1A0157	J.VENKATESH
52	20AT1A0158	KURUVA VENKATESWARLU
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61	21AT5A0107	KANNA RAVI KUMAR
62	21AT5A0108	NALLAJANNA GARI BHARATHI
63	21AT5A0110	SANDYA SWETHA
64	21AT5A0111	SYED GHOUSE PEER

IV-I CE

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1	19AT1A0101	KADU ABDUL JABBAR
2	19AT1A0102	SHAIK ABDUL MUBASHEER
3	19AT1A0103	SHAIK ABDUL RIYAZ
4	19AT1A0104	BOMMA AKHIL
5	19AT1A0105	BHUMANNAGARI AKHIL KUMAR REDDY
6	19AT1A0106	SIRRA AKSHAY



7	19AT1A0107	YERAMALA ANAND
8	19AT1A0108	TEKURU ASHWINI
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65	18AT5A0107	VELURI SAI PRUTHVI

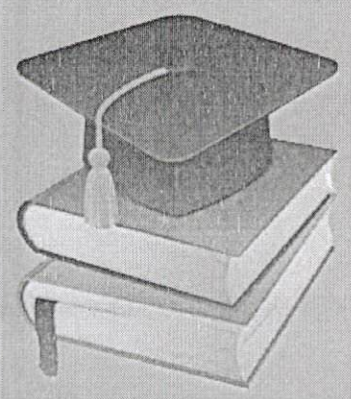




G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Department Of Civil Engineering

ADD ON PROGRAM



**Topic : Planning and deisgn of Sanitation
System**

Target audience : II and III Year Students

Total Courses hrs : 42 hrs

**Selection Procedure : Registration on First
come First serve basis**

Venue : Seminar Hall

FREE

**Register
Now**

**Date of commncement the course : 12 Oct, 2022. End of
Course : 27 Jan, 2023. Exam Date: 28 Jan,2023.**



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

1. In India which type of sewer systems are preferred?

- a) Partial
- b) Combined**
- c) Direct
- d) Separate

2. Partial sewers carry a part of stormwater to sanitary sewers.

- a) True**
- b) False

View Answer

3. Two sets of sewers are laid in _____ system.

- a) Partial
- b) Separate**
- c) Combined
- d) Partially combined

4. Which of the following is an advantage of separate sewers?

- a) Rivers are polluted
- b) Size of the sewers are small**
- c) It proves economical
- d) Nuisance potential is reduced

5. When only one set of sewers are used to carry both sanitary sewage and storm water, it is called as _____ system.

- a) Partial
- b) Direct
- c) Combined**

d) Separate

6. If sizes of the sewers are _____ choking problems are less.

a) Large

b) Small

c) Big

d) Minute

View Answer

7. Which of the following is a disadvantage with respect to the size of the sewers?

a) Cleaning

b) Choking problems

c) Handling and transportation

d) Economical

8. In which kind of cities are combined systems used?

a) Less population

b) High population

c) High residences

d) High storm

9. In partial systems, there is no over load on the treatment plants.

a) True

b) False

10. The treatment is costly in which of the following systems?

a) Combined

b) Separate

c) Direct

d) Partial

11. What is night soil?

a) Soil containing urea

b) Human excreta

c) Animal excreta

d) Human excreta, animal excreta and urea

12. Wastewater from different sources like bathrooms, kitchens and wash basins is called _____

a) Sewage

b) Garbage

c) Sullage

d) Discharge

13. Which of the following conditions is not suitable for the disposal of excreta or sewage?

a) The waste does not pollute the ground surface

b) It is not exposed to the atmosphere

c) **It should be accessible for children**

d) It does not give odour nuisance

14. The system to collect night soil, garbage etc. in separate vessels or deposited in pools and pits is called _____

a) **Conservancy system**

b) Waste allocation system

c) Waste deposition system

d) Waste pit

15. In urban cities like Bangalore, which of the water carriage system is used?

a) **Separate system**

b) Combined system

c) Partially combined system

d) Partially separate system

16. Which of the following is an advantage of the conservancy system over water carriage system?

a) Labour force

b) **Water consumption**

c) Compact house design

d) Spread of epidemic

17. The means of promoting hygiene through the prevention of human contact with the hazards of wastes especially feces is called _____

a) Hygiene control

b) Disease prevention

c) **Sanitation**

d) Hygiene

18. The relatively clean wastewater from baths, sinks, washing machines and other kitchen appliances is called _____

- a) Grey water
- b) Black water
- c) Yellow water
- d) Wastewater

19. The benefits of the society of managing human excreta are considerable, for public health as well as for the environment.

- a) True
- b) False

20. The overall purpose of sanitation is to maintain the green environment alone.

- a) True

b) False

View Answer

Answer: b

21. The process that involves connecting pipelines and sewer appurtenances to transport waste to sewage treatment centres is called?

- a) Connecting pipelines
- b) Pipelines construction
- c) Sewer construction
- d) Sewage construction

22. Pipeline networks are designed by engineers and installed by sewer contractors in accordance with federal and state regulations.

- a) True
- b) False

23. Sewer systems can also be referred as _____

- a) Sewage
- b) Sewerage
- c) Storm
- d) Wastewater

24. Combined sewer systems are no longer installed due to the water pollution problems they present.

- a) True



b) False

25. Which of the following factors mentioned below marks essential for planning sewer systems for a community?

- a) Usage pattern
- b) Terrain
- c) Location
- d) Wastewater flow**

A handwritten signature in black ink, consisting of stylized cursive letters, located in the bottom right corner of the page.



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Department of Civil Engineering

The following is the list of the students who have appeared for assessment Add on Course on
“Planning and design of sanitation systems”

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2019 batch students

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29	19AT1A0129	MUVVA CHENNA SAINATH CH	22



30	19AT1A0130	DEVASANI NAGALATHA	21
31	19AT1A0131	MULA NEERAJ	15
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62	20AT5A0106	LINGAMDINNE SUDHEER KUMAR REDDY	21
63	20AT5A0107	MURALIDHAR RAO	24
64	20AT5A0108	PALA GOPALA KRISHNAIAH	22
65	18AT5A0107	VELURI SAI PRUTHVI	ABSENT

