



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: 08-03-2022

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 "The next generation of infrastructure" for the even semester of III & IV 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: 05-03-2022

The III year & IV year-I semester CE Students are informed to enroll their names for ADD-ON Course on “**The next generation of infrastructure**” with their respective class-in-charges on or before 10-03-2022. The course commences from 14th March 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 THE NEXT GENERATION OF
INFRASTRUCTURE**

DAY	TOPICS
1	Introduction
2	Socio-Technical complexity of infrastructures
3	Critical infrastructures
4	Fuzzy borders
5	Role of standards
6	Complex theory of assessing infrastructure
7	Interdependencies of infrastructure
8	Smart grids
9	ICT architecture
10	Key challenges of infrastructure
11	System approach
12	Smart grids
13	ICT-Architecture
14	ICT-Architecture-Cyber security
15	Governance of complex infrastructure
16	Regulation of complex infrastructure
17	Tools
18	Instruments
19	Frameworks for policy making
20	Resilient infrastructure
21	Secure infrastructure
22	Outdated infrastructure
23	Infrastructure investment
24	Socio-Technical perspective
25	Analysis of critical infrastructure



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

Date: 09/04/2022

III & IV YEAR – II Semester		
Course	Faculty	Duration
Introduction	Mr S Akhil Tej	2 hours
Socio-Technical complexity of infrastructures	Mr S Akhil Tej	2 hours
Critical infrastructures	Mr S Akhil Tej	2 hours
Fuzzy borders	Mr S Akhil Tej	2 hours
Role of standards	Mr S Akhil Tej	2 hours
Complex theory of assessing infrastructure	Mr S Akhil Tej	2 hours
Interdependencies of infrastructure	Mr S Akhil Tej	2 hours
Smart grids	Mr S Akhil Tej	2 hours
ICT architecture	Mr S Akhil Tej	3 hours
Key challenges of infrastructure	Mr S Akhil Tej	2 hours
System approach	Mr S Akhil Tej	2 hours
Smart grids	Mr S Akhil Tej	3 hours
ICT-Architecture	Mr S Akhil Tej	2 hours
ICT-Architecture-Cyber security	Mr S Akhil Tej	2 hours
Governance of complex infrastructure	Mr S Akhil Tej	2 hours



Regulation of complex infrastructure	Mr S Akhil Tej	2 hours
Tools	Mr S Akhil Tej	2 hours
Instruments	Mr S Akhil Tej	2 hours
Frameworks for policy making	Mr S Akhil Tej	3 hours
Resilient infrastructure	Mr S Akhil Tej	2 hours



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

Department of Civil Engineering

The following is the list of the students who have registered Add on Course on “The next generation of infrastructure”

IV Year students

S.No	Roll No	Name of the Candidate
1	18AT1A0101	AKASH ANTHONY
2	18AT1A0102	SHAIK APSAR BASHA
3	18AT1A0103	MOHAMMAD ATIFUR RAHMAN
4	18AT1A0104	MOOLA BHARATH KUMAR
5	18AT1A0105	PEDDINTI BHARATHI
6	18AT1A0106	SAI BHARGAVA SASHIDHAR NAIDU
7	18AT1A0107	SHAIK CHAND BASHA
8	18AT1A0108	AKUTHOTA CHARAN
9	18AT1A0109	M.CHIRANJEEVI
10	18AT1A0110	SEELAM DHARANI
11	18AT1A0111	SYEDA FAYIZA TEHREEM
12	18AT1A0112	D.CHINNA GOUSE PEERA
13	18AT1A0113	R.HARISH
14	18AT1A0114	KURUVA JAGADEESH
15	18AT1A0115	TAMMINENI JAYARAM
16	18AT1A0116	PEESA JESHWANTH
17	18AT1A0117	BEGARI KAVYAKUSUMA
18	18AT1A0118	BOINI KISHORE
19	18AT1A0119	S.MAHABOOB ALI LAL



20	18AT1A0120	K MAHENDRA
21	18AT1A0121	P.MAHENDRA REDDY
22	18AT1A0122	SANDHOLI MANOHAR BABU
23	18AT1A0123	G MD FURQAN
24	18AT1A0125	SHAIK MOHAMMED SAAD RAFI
25	18AT1A0126	GUNDA MOUNIKA
26	18AT1A0127	PATHAN OBEDULLAH KHAN
27	18AT1A0128	POTHURAJU PRISCILLA
28	18AT1A0129	MIDDE RAJESH
29	18AT1A0130	KURUVA PULIKONDA RANGASWAMY
30	18AT1A0131	MIDDE RAVI TEJA
31	18AT1A0132	SHAIK SADDAM
32	18AT1A0134	NAGINENI SAI CHARAN
33	18AT1A0135	K SAI DHARANI
34	18AT1A0136	GUNDRATHI SAI KIRAN KUMAR GOUD
35	18AT1A0137	GORANTLA SAI LAASYA
36	18AT1A0138	NYSHADHAM SAI VAISHNAVI
37	18AT1A0139	DONNIPATI SEKHAR
38	18AT1A0140	EDIGA SEKHAR GOUD
39	18AT1A0141	DEVANOORU SESHIKALA
40	18AT1A0142	BOJANAOPALLY SHESHANK REDDY
41	18AT1A0143	SHAIK SOHAIL ABBAS
42	18AT1A0144	SHAIK SOHAIL
43	18AT1A0145	PHARANGI SREEVIDYA



44	18AT1A0147	AAKUMALLA SRIKANTH
45	18AT1A0148	MURAMANI SWARNA LATHA
46	18AT1A0149	RACHAMADUGU TEJASWINI
47	18AT1A0150	S THARUN
48	18AT1A0151	BETTALA THRAYAMBA KESWAR
49	18AT1A0154	VALMIKI TALARI VANAJA
50	18AT1A0155	CHINTHAKAYALA VENKATA PRATHYUSHA
51	18AT1A0156	PYDA VENKATA SRIHIMA VISHNU SESHASAI
52	18AT1A0158	GONDI YESHWANTH
53	18AT1A0159	SHAIK ZAHEER BASHA
54	18AT5A0111	M VEERESH
55	19AT5A0101	KURUVA HARI KRISHNA
56	19AT5A0102	NARAHARI MAHESH BABU
57	19AT5A0103	VADDE ROHITH
58	19AT5A0104	TALLURI SIVAKRISHNA

III YEAR students

S.No	Roll No	Name of the Candidate
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
9	19AT1A0109	CHAKALI BHARATH
10	19AT1A0110	PARAMALA CHAITANYA BABU
11	19AT1A0111	S CHANDRIKA KUMARI
12	19AT1A0112	KURUVA DHANUNJAYA
13	19AT1A0113	BOKKASAM NIRUPAM
14	19AT1A0114	LINGARAJU YOGA HARAGOPAL RAO
15	19AT1A0115	MALLIPALLI GAJULA HARSHAVARDHAN
16	19AT1A0116	AALA HARSHITH REDDY
17	19AT1A0117	GORUKAL EDIGA HEMANTH KUMAR GOWD
18	19AT1A0118	VARANASI INDRANI
19	19AT1A0119	MIDDE JAHEER BASHA
20	19AT1A0120	EDIGA JYOTHI
21	19AT1A0121	TALARI GARLAPATI KARTHIK
22	19AT1A0122	NELLI LAVANYA
23	19AT1A0123	GANDAGARI LOKESHWARA REDDY
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30	19AT1A0130	DEVASANI NAGALATHA
31	19AT1A0131	MULA NEERAJ
32	19AT1A0132	BOKKASAM NIRUPAM



33	19AT1A0133	MAREDDY PRIYA PRAGATHI
34	19AT1A0134	GANUMALA RAGHAVA
35	19AT1A0135	MIRZA RAHMATHULLAH BAIG
36	19AT1A0136	VADDE RAJESH
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38	19AT1A0139	VADITHE SAI SUMANTH NAIK
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40	19AT1A0142	SHAIK SHUAIB AHMED
41	19AT1A0143	PALAPOLA SREEKANTH REDDY
42	19AT1A0144	NAKKA SREENU
43	19AT1A0145	KUMMARI SRI HARI
44	19AT1A0146	VAJJALA SRIDHAR
45	19AT1A0147	MUGOLLA SRIKANTH
46	19AT1A0148	YEKKALURI SRIMAN
47	19AT1A0149	DADEPOGU SUNIL
48	19AT1A0150	BANDARI SUNIL KUMAR
49	19AT1A0151	GADIGE SURENDRA
50	19AT1A0152	G TRISHUL NATH
51	19AT1A0153	DUDEKULA UDUR SAHEB
52	19AT1A0154	PULA UMESH CHANDRA
53	19AT1A0155	KATIKE VEERA NALANTH
54	19AT1A0156	PERUGU VENU
55	19AT1A0157	GOLLA VIJAY KUMAR
56	19AT1A0158	RENTACHINTALA YASHWANTH SHARMA
57	20AT5A0101	TALARI VASU PRAVEEN KUMAR



58	20AT5A0102	MANGALI NAGA MANEESHA
59	20AT5A0103	KATEPOGU RAJANI
60	20AT5A0104	BOYA MOHAN BABU
61	20AT5A0105	KURUVA MAHENDRA
62	20AT5A0106	LINGAMDINNE SUDHEER KUMAR REDDY
63	20AT5A0107	MURALIDHAR RAO
64	20AT5A0108	PALA GOPALA KRISHNAIAH
65	18AT5A0107	VELURI SAI PRUTHVI





G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Department Of Civil Engineering

ADD ON PROGRAM



Topic : Next Generation of Infrastructure
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 commencement the course : 14 Mar, 2022. End of
Course : 02 June, 2022. Exam Date: 22 May, 2022.**



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

1. How many types of cracks can occur in a building?
 - a) 3
 - b) 4
 - c) 2
 - d) 6
2. Creep in concrete structure increases with:
 - a) Increase in humidity
 - b) Increase in water
 - c) Decrease in temperature
 - d) Decrease in humidity**
3. To control corrosion, concrete with _____ is used.
 - a) Low permeability**
 - b) Low thermal coefficient
 - c) More cement content
 - d) More coarse aggregates
4. The main reason for cracks in masonry joints is:
 - a) Moisture
 - b) Sulphate**
 - c) Magnesium
 - d) Sodium
5. Shear cracks between the main wall and cross wall can be corrected using:
 - a) Grouting
 - b) Rebuilding
 - c) Guining

d) Toothing

6. Which IS code gives details about termite proofing?

a) IS 6835

b) IS 6313

c) IS 5886

d) IS 5668

View Answer

7. Leaks in the pitched roof may be caused due to:

a) Improper slopes

b) Unfinished roof and wall junction

c) Depression on top of roof

d) Heavy wind

8. The chemical heptachlor in anti-termite proofing has concentration by weight of:

a) 0.5%

b) 0.1%

c) 0.3%

d) 0.2%

9. By which of the following ways is lime obtained?

a) Naturally

b) Quarrying

c) Burning limestone

d) Crushing limestone

10. Which of the following pairs is matched properly?

a) Class A – Concrete work

b) Class B – Mortar

c) Class C – Masonry work

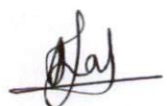
d) Class D – White washing

11. Lime has been conventionally classified into how many types?

a) 4

b) 2

c) 5



d) 3

12. Which of the following is a property of Fat Lime?

- a) Shakes very slowly
- b) Contains clay
- c) High degree of plasticity

d) Poor binding property

13. Lime obtained from calcination of Pure Limestone is called:

- a) Quick Lime
- b) Pure Lime
- c) Lean Lime
- d) Rich Lime

14. What is the speciality of Hydraulic Lime?

- a) Contains impurities
- b) Does not set under water
- c) Contains clay**
- d) Perfectly white in colour

15. Which of the following slakes after few minutes?

- a) Moderately Hydraulic Lime
- b) Eminently Hydraulic Lime
- c) Perfectly Hydraulic Lime
- d) Feebly Hydraulic Lime**

16. Which of the following types of Lime does not exist?

- a) Dolomitic Lime
- b) Roman Lime**
- c) Semi-Hydraulic Lime
- d) Selentic Lime

17. Which of the following ions causes the cement to set quickly?

- a) Sulphate**
- b) Carbonate
- c) Chloride
- d) Nitrate



18. Lime is widely used for:

- a) **Waste water treatment**
- b) Manufacturing tiles
- c) Jewellery making
- d) As an aggregate

19. The chemical heptachlor in anti-termite proofing has concentration by weight of:

- a) **0.5%**
- b) 0.1%
- c) 0.3%
- d) 0.2%

20. By which of the following ways is lime obtained?

- a) Naturally
- b) Quarrying
- c) **Burning limestone**
- d) Crushing limestone

21. Which of the following pairs is matched properly?

- a) Class A – Concrete work
- b) **Class B – Mortar**
- c) Class C – Masonry work
- d) Class D – White washing

22. Lime has been conventionally classified into how many types?

- a) 4
- b) 2
- c) 5
- d) **3**

23. Which of the following is a property of Fat Lime?

- a) Shakes very slowly
- b) Contains clay
- c) High degree of plasticity
- d) **Poor binding property**

24. Lime obtained from calcination of Pure Limestone is called:



a) Quick Lime

b) Pure Lime

c) Lean Lime

d) Rich Lime

25. What is the speciality of Hydraulic Lime?

a) Contains impurities

b) Does not set under water

c) Contains clay

d) Perfectly white in colour

Al



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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 “The next generation of infrastructure”

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9	18AT1A0109	M.CHIRANJEEVI	FAIL
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13	18AT1A0113	R.HARISH	22
14	18AT1A0114	KURUVA JAGADEESH	18
15	18AT1A0115	TAMMINENI JAYARAM	ABSENT
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17	18AT1A0117	BEGARI KAVYAKUSUMA	22
18	18AT1A0118	BOINI KISHORE	23

19	18AT1A0119	S.MAHABOOB ALI LAL	19
20	18AT1A0120	K MAHENDRA	FAIL
21	18AT1A0121	P.MAHENDRA REDDY	17
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23	18AT1A0123	G MD FURQAN	ABSENT
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26	18AT1A0127	PATHAN OBEDULLAH KHAN	25
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30	18AT1A0131	MIDDE RAVI TEJA	ABSENT
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54	18AT5A0111	M VEERESH	20
55	19AT5A0101	KURUVA HARI KRISHNA	22
56	19AT5A0102	NARAHARI MAHESH BABU	ABSENT
57	19AT5A0103	VADDE ROHITH	19
58	19AT5A0104	TALLURI SIVAKRISHNA	16

2019 batch students

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5	19AT1A0105	BHUMANNAGARI AKHIL KUMAR REDDY	17
6	19AT1A0106	SIRRA AKSHAY	19

7	19AT1A0107	YERAMALA ANAND	ABSENT
8	19AT1A0108	TEKURU ASHWINI	18
9	19AT1A0109	CHAKALI BHARATH	FAIL
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30	19AT1A0130	DEVASANI NAGALATHA	23
31	19AT1A0131	MULA NEERAJ	24

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32	19AT1A0132	BOKKASAM NIRUPAM	19
33	19AT1A0133	MAREDDY PRIYA PRAGATHI	18
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35	19AT1A0135	MIRZA RAHMATHULLAH BAIG	25
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38	19AT1A0139	VADITHE SAI SUMANTH NAIK	18
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40	19AT1A0142	SHAIK SHUAIB AHMED	19
41	19AT1A0143	PALAPOLA SREEKANTH REDDY	22
42	19AT1A0144	NAKKA SREENU	23
43	19AT1A0145	KUMMARI SRI HARI	19
44	19AT1A0146	VAJJALA SRIDHAR	FAIL
45	19AT1A0147	MUGOLLA SRIKANTH	23
46	19AT1A0148	YEKKALURI SRIMAN	ABSENT
47	19AT1A0149	DADEPOGU SUNIL	24
48	19AT1A0150	BANDARI SUNIL KUMAR	19
49	19AT1A0151	GADIGE SURENDRA	17
50	19AT1A0152	G TRISHUL NATH	19
51	19AT1A0153	DUDEKULA UDUR SAHEB	ABSENT
52	19AT1A0154	PULA UMESH CHANDRA	18
53	19AT1A0155	KATIKE VEERA NALANTH	18
54	19AT1A0156	PERUGU VENU	ABSENT
55	19AT1A0157	GOLLA VIJAY KUMAR	19
56	19AT1A0158	RENTACHINTALA YASHWANTH SHARMA	22



57	20AT5A0101	TALARI VASU PRAVEEN KUMAR	23
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64	20AT5A0108	PALA GOPALA KRISHNAIAH	17
65	18AT5A0107	VELURI SAI PRUTHVI	22

