



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: 12-07-2019

To

The Principal,
GPCET,
Kurnool.


Sir,

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

The department of CE requests you to accept the proposal for conducting ADD-ON Course on "GREEN BUILDING MATERIALS AND TECHNIQUES" for the odd semester of II & III 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: 13-07-2019

The II year & III year-I semester CE Students are informed to enroll their names for ADD-ON Course on “**GREEN BUILDING MATERIALS AND TECHNIQUES**” with their respective class-in-charges on or before 14-07-2019. The course commences from 15th July 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 GREEN BUILDING MATERIALS &
TECHNIQUES**

DAY	TOPICS
1	Concept of Green building and sustainable development
2	Strategies of Green building and sustainable development
3	Introduction to High performance building
4	Green project requirements and strategies
5	Overview of various green rating systems worldwide
6	Introduction Low emitting materials
7	Construction waste management
8	Factors affecting indoor environment quality
9	Indoor Environment quality best practice
10	Waste water strategy and water reuse/recycling
11	Water fixtures and water use reduction strategies
12	Energy efficient designs
13	Active solar and photovoltaic
14	Building energy analysis method
15	Impacts of lighting efficiency
16	Technological options for energy management
17	IGBC green new building Rating system
18	Sustainable architecture and design
19	Site selection and planning
20	Water conservation and energy efficiency
21	Overview and process – project checklist
22	Building materials and resources
23	Indoor Environment quality
24	Innovation and development
25	Thermal comfort

PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOG
DEPARTMENT OF CIVIL ENGINEERING
ADDON COURSE SCHEDULE

Date: 23/09/2019

II & III YEAR – I Semester		
Course	Faculty	Duration
Concept of Green building and sustainable development	Mr C G Mohan Babu	2 hours
strategies of Green building and sustainable development	Mr C G Mohan Babu	2 hours
Introduction to High performance building	Mr C G Mohan Babu	2 hours
Green project requirements and strategies	Mr C G Mohan Babu	2 hours
Overview of various green rating systems worldwide	Mr C G Mohan Babu	2 hours
Introduction Low emitting materials	Mr C G Mohan Babu	2 hours
Construction waste management	Mr C G Mohan Babu	3 hours
Factors affecting indoor environment quality	Mr C G Mohan Babu	2 hours
Indoor Environment quality best practice	Mr C G Mohan Babu	2 hours
Waste water strategy and water reuse/recycling	Mr C G Mohan Babu	2 hours
Water fixtures and water use reduction strategies	Mr C G Mohan Babu	3 hours
Energy efficient designs	Mr C G Mohan Babu	2 hours
Active solar and photovoltaic	Mr C G Mohan Babu	1 hours
Building energy analysis method	Mr C G Mohan Babu	1 hours
Impacts of lighting efficiency	Mr C G Mohan Babu	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 for Add on Course on “GREEN BUILDING MATERIALS AND TECHNIQUES”

III 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
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15	18AT1A0115	TAMMINENI JAYARAM
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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	18AT1A0124	SYED MOHAMMED AKIF QUADRI
25	18AT1A0125	SHAIK MOHAMMED SAAD RAFI
26	18AT1A0126	GUNDA MOUNIKA
27	18AT1A0127	PATHAN OBEDULLAH KHAN
28	18AT1A0128	POTHURAJU PRISCILLA
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31	18AT1A0131	MIDDE RAVI TEJA
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51	18AT1A0151	BETTALA THRAYAMBA KESWAR
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60	19AT5A0102	NARAHARI MAHESH BABU
61	19AT5A0103	VADDE ROHITH
62	19AT5A0104	TALLURI SIVAKRISHNA

II year students

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2	17AT1A0103	SADURLA ASHOK
3	17AT1A0105	KUNTAVATH CHANDRAKALA BAI
4	17AT1A0106	PARISHAPOGU FRANCHIS PAUL
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45	17AT1A0154	SHAIK ZARIN TAJ
46	17AT1A0155	SHAIK ZEBA ISMATH
47	17AT1A0156	VADITHE MADHURI
48	17AT1A0157	SHAIK NIDANAAZ
49	18AT5A0101	MADDELA ABHISHEK
50	18AT5A0102	SUGALI AMARESH
51	18AT5A0103	SHAIK MOHAMMED ASIF KAREEM
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59	18AT5A0114	A PUCHAKAYALA YASWANTH REDDY





G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Department Of Civil Engineering

ADD ON PROGRAM



**Topic : Green Building Materials and
Techniques**

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 : 15 July, 2019. End of
Course : 09 Oct, 2019. Exam Date: 10 Oct, 2019.**



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1. Carbon footprint can be measured by: ()
 - a) Carbon dating
 - b) Instruments
 - c) Carbon accounting**
 - d) Formula
2. How many types of ecological pyramids are there? ()
 - a) 3**
 - b) 2
 - c) 4
 - d) 5
3. A legally binding agreement between 2 or more nation states relating to environment is:
 - a) BEA
 - b) BA
 - c) MA
 - d) MEA ()**
4. _____ is a programme run by UN related to sustainable development. ()
 - a) GHG indicator
 - b) Agenda 21**
 - c) IPCC
 - d) UNEP
5. For a gold LEED certification, how many points are required? ()
 - a) 40-49
 - b) 60-79**
 - c) 50-59

d) 80-110

6. Which of the below green building in India has received a platinum LEED certification?

a) Dabur India, Chandigarh

b) Logix Cyber Park, UP

c) Unitech Commercial Tower, Chandigarh

d) Suzlon One Earth, Pune

7. _____ is the conventional source for hydel power. ()

a) Tidal wave

b) Currents

c) Water

d) Ripples

8. The first academic publication about ecological footprints was in: ()

a) 1992

b) 1990

c) 1993

d) 1994

9. Which of the below is a global scale environmental issue? ()

a) Eutrophication

b) Regional ozone

c) Climate change

d) Pollution

10. Carbon can be stored in organic matter in the form of: ()

a) Biomass

b) Biofuel

c) Bioenergy

d) Bio carbon

View Answer

11. The 'Miracle Material' that can turn CO₂ into liquid fuel is: ()

a) Propene

b) Copper

c) Graphene

d) Potassium

12. Which of the following is not the purpose of a green building? ()

(a) To reduce use of water

(b) To minimize damage of the environment

(c) Re-use of waste materials

(d) None of the above

13. Where is India's first green building located? ()

(a) ITC Green Centre, Gurgaon

(b) Suzlon Earth, Pune

(c) Wipro Technologies, Gurgaon

(d) CII – Sohrabji Green Business Centre, Hyderabad

14. The carbon cycle has how many parts? ()

a) 2

b) 3

c) 1

d) 4

15. The carbon cycle is based on what? ()

a) CO

b) CO₂

c) C₆H₁₂O₆

d) CO₃

16. In aquatic ecosystems, carbon is stored in: ()

a) Marine Plants

b) Marine animals

c) Rocks and sediments

d) Sea water

17. How many different forms of precipitation are there? ()

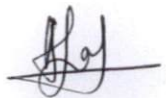
a) 4

b) 5

c) 6

d) 7

18. A nutrient cycle is also called as _____ ()
- a) Atmospheric cycle
 - b) Atmospheric recycling
 - c) Ecological recycling**
 - d) Ecological chain
19. Living organisms can use Nitrogen (N₂) as it occurs in the atmosphere. ()
- a) True
 - b) False**
20. The major source of Nitrogen deposition is: ()
- a) Fertilizers**
 - b) Deforestation
 - c) Factories
 - d) Household waste
21. Which of the following cycle does not have a gaseous state? ()
- a) Oxygen
 - b) Nitrogen
 - c) Carbon
 - d) Phosphorous**
22. In water cycle, the process can be explained in equation form as Evaporation + _____ = Precipitation ()
- a) Infiltration
 - b) Ground water
 - c) Transpiration
 - d) Run-off**
23. How many steps are involved in the sulphur cycle? ()
- a) 5
 - b) 6**
 - c) 10
 - d) 8
24. In the marine nitrogen cycle, _____ performs nitrogen fixation. ()
- a) Cyanobacteria**



b) Nitrobactor

c) Pseudomonas

d) Diazotrophs

25. In hydrogen cycle _____ is a sink used. ()

a) Ocean

b) Fossil fuels

c) Microbial soil uptake

d) Nitrogen fixation





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Department of Civil Engineering

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62	19AT5A0104	TALLURI SIVAKRISHNA	20

2017 batch students

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