



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

An Autonomous Institute

Approved by AICTE & Permanently affiliated to JNTU GV

Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: www.diet.edu.in, 9963994864 E-mail: hodcivil@diet.edu.in

Date: 01/07/2024

Anakapalle

To

The Principal,

Dadi Institute of Engineering & Technology,

Anakapalle-531002, Visakhapatnam, A.P.

Respected Sir,

Sub: Requesting to Organize One week Value Added Course on "Environmental Sustainability" for Civil Engineering Students in association with IE(I) Student Chapter.

We, The Department of Civil Engineering and in Association with DIET IE(I) Student Chapter are Scheduled to Organize one week Value Added Course on "Environmental Sustainability" for all our III Year students from **08/07/2024** to **13/07/2024** during **09:00 AM** to **04:00 PM** at Lecture Hall - 42. Kindly permit us to conduct the course for all our III B.Tech I Semester students.

Thanking You Sir,

Yours Sincerely,

V. Bhargavi,

HOD

Head of the Department
Department of Civil Engineering

Dadi Institute of Engg. & Tech.
Anakapalli - 531 002.

Approved

Dr. R. Vaikunta Rao,

PRINCIPAL

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Anakapalle - 531 002.



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NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: www.diet.edu.in, 9963993229 E-mail: principal@diet.edu.in

Date: 02/07/2024

Anakapalle

CIRCULAR

This is to inform you all that, We, The Department of Civil Engineering in Association with DIET IE(I) Student Chapter are Scheduled to Organize a Value-Added Course on "Environmental Sustainability " at DIET Campus from 08/07/2024 to 13/07/2024 from 09:00 AM to 04:00 PM daily at Lecture Hall - 42.

All III B.Tech I Semester Civil Engineering Students are informed to register your name for the Value-Added Course with Mrs. B. Yarnika, Assistant Professor.


2/7/24
HOD-CE

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalli - 531 002.




2/7/24

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POSTER FOR THE EVENT:

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NH-16, Anakapalle, Visakhapatnam-531002, A.P., 9963694444

DEPARTMENT OF CIVIL ENGINEERING
In Association with The Institution of Engineers (India)
DIET IE(I) Student Chapter
Organizes
One Week Value Added Course On
"Environmental Sustainability"
For BTECH III Year I Semester Students of CE
From 08-07-2024 to 13-07-2024 from 09:00 AM to 04:00 PM Daily
Venue: Lecture Hall - 42

Mr. Y. Hemanth Kumar DIET IE(I) Coordinator Department of CE	Mrs. B. Yamika Assistant Professor, Resource Person Department of CE	Mrs. V. Bharathi Associate Professor & HoD Department of CE	Dr. R. Vaikunta Rao Principal, DIET	Sri. Dadi. Ramakar Chairman, DIET
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[Signature]
21/7/24

HOD-CE

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalli - 531 002.

[Signature]
21/7/24

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Website: www.diet.edu.in, 9963994864, E-mail: hodcivil@diet.edu.in

SYLLABUS FOR VALUE ADDED COURSE ON

“ENVIRONMENTAL SUSTAINABILITY”

Course Outcomes:

Upon Completion of this Course the students will be able:

- To aware about problems of environmental pollution, its impact on human and ecosystem and Control measures.
- To gain knowledge about environment and ecosystem.
- To solve the problems of the environment by using different methods.
- To discuss the significance of the recycling, reuse and reclamation of solid waste.

Module-1

Water Pollution: Sources, Types, And Effect of Water Pollution, Water Quality Standards, Algal Bloom, Eutrophication, Biomagnification/Bioaccumulation, Water Pollution Control, Primary, Secondary and Tertiary, Waste Water Treatment.

Module- II

Air Pollution: Structure and Composition of Atmosphere, Classification, Sources and Effects of Air Pollution, Air Pollution Control, Particulate and Gaseous Emission Control Methods; Acid Rain, Green House Effect, Global Warming, Ozone Depletion, Smog, Climate Change, Noise Pollution – Sources, Effects and Control.

Module – III

Soil Pollution: Types, Sources, Effects and Control.

Environmental Sustainability: Concept of Sustainability, Sustainable Development, Strategies for sustainable development, Difference between Sustainability and Sustainable Development, Environmental Issues and Sustainable Development.

References:

1. Environmental Pollution Control Engineering by C S Rao.
2. Elements of Solid and Hazardous Waste Management by O.P. Gupta.
3. Environmental Pollution and Management by Avnish Chauhan.

Assessment Procedure:

The students will be assessed by an objective type examination as per the following assessment criterion:

A+ 90% and above

A 75% and above but less than 90%

B 60% and above but less than 75%

C 50% and above but less than 60%

D 35% and above but less than 50%

The candidates scoring less than 35% will be considered "Not Qualified".

B. Yarnilca
61/07/2024
COORDINATOR

DD
27/7/24
HOD-CE
Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalli - 531 002.

Praveen
11/8/24
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DETAILED PROGRAM SCHEDULE FOR VALUE ADDED COURSE ON “ENVIRONMENTAL SUSTAINABILITY”

S No.	TOPIC	DATE
1.	Module: I – Introduction to Water Pollution Topics: <ul style="list-style-type: none">• Definition and concept of water pollution• Sources of water pollution (domestic, industrial, agricultural, etc.)• Types of water pollution (organic, inorganic, thermal, microbial, etc.)• Effects of water pollution on humans, plants, and aquatic life	08/07/2024
2.	Module: I – Water Quality and Treatment Topics: <ul style="list-style-type: none">• Water quality standards (WHO, ISI, CPCB norms)• Algal bloom, eutrophication, bioaccumulation, biomagnification• Water pollution control measures	09/07/2024
3.	Module: I – Wastewater Treatment Methods Topics: <ul style="list-style-type: none">• Primary, secondary, and tertiary treatment processes• Overview of sewage treatment plant (STP) operations• Flow diagram and working of STP	10/07/2024
4.	Module: II – Air Pollution and Control Topics: <ul style="list-style-type: none">• Structure and composition of the atmosphere• Sources, types, and effects of air pollution	11/07/2024

	<ul style="list-style-type: none"> • Particulate and gaseous emission control methods (Cyclone separator, filters, scrubbers, etc.) 	
5.	<p>Module: II – Environmental Effects and Noise Pollution</p> <p>Topics:</p> <ul style="list-style-type: none"> • Acid rain, greenhouse effect, global warming, ozone depletion, smog, climate change • Noise pollution: Sources, effects, and control. 	12/07/2024
6	<p>Module: III – Soil Pollution and Environmental Sustainability</p> <p>Topics:</p> <ul style="list-style-type: none"> • Soil pollution: Types, sources, effects, and control • Sustainability concepts: <ul style="list-style-type: none"> ○ Concept of sustainability and sustainable development ○ Strategies for sustainable development ○ Difference between sustainability and sustainable development ○ Environmental issues related to sustainability. 	13/07/2024

B. Varshika
COORDINATOR 01/07/2024

[Signature]
7/7/24
HOD-CE

[Signature]
11/7/24
PRINCIPAL

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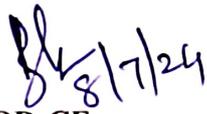
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VALUE ADDED COURSE ON "ENVIRONMENTAL SUSTAINABILITY" **STUDENTS PARTICIPANT LIST** **From 08/07/2024 to 13/07/2024** **AY 2024-2025**

S. NO	NAME OF THE STUDENT	REG0. NO.	COURSE	YEAR-SEMESTER
1.	BUDDHA TEJA	22U41A0101	BTECH	III Year - I Semester
2.	GANDIBOYINA CHAKRAVARTHI	22U41A0102	BTECH	III Year - I Semester
3.	YALAMANCHILI VASU	22U41A0103	BTECH	III Year - I Semester
4.	ALLAKA SESI VINAY	23U45A0101	BTECH	III Year - I Semester
5.	AMBATI HEMANTH KUMAR	23U45A0102	BTECH	III Year - I Semester
6.	APPIKONDA SRAVANTHI	23U45A0103	BTECH	III Year - I Semester
7.	BODNAIK MAHESH BABU	23U45A0104	BTECH	III Year - I Semester
8.	BUDDHA SAI KUMAR	23U45A0105	BTECH	III Year - I Semester
9.	CHINNALA RAMJI NAIDU	23U45A0106	BTECH	III Year - I Semester
10.	DADI TEJA	23U45A0107	BTECH	III Year - I Semester
11.	DAKARAPU DIVAKAR V V S N SAI	23U45A0108	BTECH	III Year - I Semester
12.	DODDI BHARGAVI	23U45A0109	BTECH	III Year - I Semester
13.	GIDUTURI KIRAN KARTHIK	23U45A0110	BTECH	III Year - I Semester
14.	KANDIPILLI SINDHU	23U45A0111	BTECH	III Year - I Semester
15.	KARRI SWAMY SAMPATH GANESH	23U45A0112	BTECH	III Year - I Semester
16.	KONA VENKATA KIRAN	23U45A0113	BTECH	III Year - I Semester
17.	NEDHURI KALYANI	23U45A0114	BTECH	III Year - I Semester
18.	NEELAKANTA DHANA SAI DURGA	23U45A0115	BTECH	III Year - I Semester
19.	NEMMADI SANYASI NAIDU	23U45A0116	BTECH	III Year - I Semester
20.	VOMMI SRI LAKSHMI	23U45A0117	BTECH	III Year - I Semester
21.	POLAMARASETTY MOHITHA	23U45A0118	BTECH	III Year - I Semester
22.	POLAMARASETTY TEJA BHAVANI	23U45A0119	BTECH	III Year - I Semester
23.	POTHALA SATYA SHIRIDI SAI SREEKANTH	23U45A0120	BTECH	III Year - I Semester

24.	PUKKALA NARASIMHA NAIDU	23U45A0121	BTECH	III Year – I Semester
25.	SADARLA RAJ KAMAL	23U45A0122	BTECH	III Year – I Semester
26.	SAYYED ZAYAN	23U45A0123	BTECH	III Year – I Semester
27.	ARNEPALLI PAVAN KUMAR	23U45A0124	BTECH	III Year – I Semester
28.	MARADAPUDI UDAY SRINIVAS KUMAR	23U45A0125	BTECH	III Year – I Semester


COORDINATOR 08/07/2024


HOD-CE
Head of the Department
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24.	23U45A0121	PUKKALA NARASIMHA NAIDU	P. Naidu	P. Naidu	P. Naidu	P. Naidu	P. Naidu	P. Naidu
25.	23U45A0122	SADARLA RAJ KAMAL	P. Naidu					
26.	23U45A0123	SAYYED ZAYAN	Dayan	Dayan	Dayan	Dayan	Dayan	Dayan
27.	23U45A0124	ARNEPALLI PAVAN KUMAR	A. Pavan					
28.	23U45A0125	MARADAPUDI UDAY SRINIVAS KUMAR	M. Uday					

B. Venkatesh
COORDINATOR 15/07/2024

15/7/24

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A Report on One Week Value Added Course on "Environmental Sustainability" Organized by Department of Civil Engineering in Association with DIET IE(I) Students Chapter	
Day and Date of Conduction	08/07/2024 to 13/07/2024 Time: 09:30 AM to 04:00 PM daily.
Faculty Coordinator	Mrs. B. Yernika, Assistant Professor, Department of Civil Engineering, DIET, Anakapalle.
Target Audience	All the BTech III Year students of Civil Engineering Department.
Organized by	Civil Engineering Department, DIET organized program in Association with DIET IE(I) students Chapter.
Venue	Fifth Floor, Lecture Hall - 42, DIET Campus.
Number of Participants	28

Objective of the event:

The major objectives of the value-added course were:

- To educate students about the sources, types, and impacts of various forms of pollution.
- To impart knowledge about pollution control technologies and treatment methods.
- To familiarize students with environmental standards and regulatory frameworks.
- To create awareness about sustainable development and strategies for achieving environmental sustainability.
- To encourage students to adopt sustainable practices in their personal and professional lives.

Expected Job Roles:

- Environmental Engineer
- Environmental Consultant
- Sustainability Analyst / Sustainability Office
- Pollution Control Officer / Environmental Compliance Officer
- Green Building and Urban Sustainability Expert

Outcome of the event:

Students can improve their knowledge in the area of Civil Engineering.

After successful completion of this course, the students will be able to:

CO1: Identify and analyze different types of environmental pollution and their impacts.

CO2: Understand various pollution control and treatment methods.

CO3: Explain the principles and importance of sustainable development.

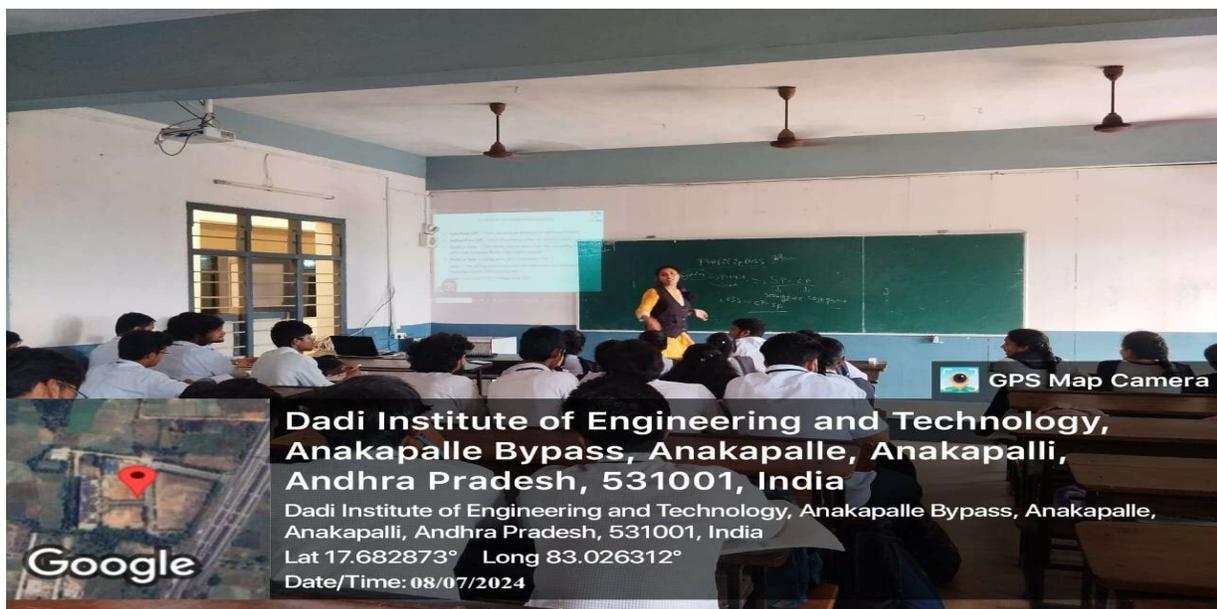
CO4: Demonstrate awareness of environmental protection measures and policies.

CO5: Apply sustainability concepts to real-world engineering and social contexts.

Day 1 – 08.07.2024 (Monday):

Topic: *Introduction to Environmental Sustainability and Overview of Pollution*

The inaugural session commenced with a welcome address by **Mrs. B. Yernika**, who highlighted the importance of environmental awareness among engineers. The session introduced the concept of sustainability, its global significance, and the role of civil engineers in environmental protection. A detailed discussion on various types of pollution and their impact on ecosystems was held. Students actively participated in identifying local environmental issues and suggesting sustainable practices.



Resource Person giving Lecture to the students in Day-1

Day 2 – 09.07.2024 (Tuesday):

Topic: *Water Pollution: Sources, Effects, and Control Measures*

The second day focused on **Module-I: Water Pollution**. Students learned about the sources and types of water pollutants, effects on aquatic life, and human health. The concept of **water quality standards, algal blooms, eutrophication, bioaccumulation, and biomagnification** was explained through case studies. A demonstration on **wastewater treatment processes**—primary, secondary, and tertiary—was conducted using multimedia presentations.



Resource Person giving Lecture to the students in Day-2

Day 3 – 10.07.2024 (Wednesday):

Topic: *Air Pollution: Sources, Effects, and Control Techniques*

The session covered **Module-II** on Air Pollution. Topics included the **composition and structure of the atmosphere**, classification of pollutants, and their harmful effects on human health and climate. Students were introduced to **particulate and gaseous emission control methods**, including filtration, absorption, and catalytic converters. Real-life examples such as vehicular emissions and industrial smog were discussed to enhance practical understanding.



Resource Person giving Lecture to the students in Day-3

Day 4 – 11.07.2024 (Thursday):

Topic: *Solid Waste and Noise Pollution Management*

Day 4 was dedicated to **solid waste management**, focusing on waste segregation, collection, transportation, and disposal techniques. The session also emphasized the concepts of **3Rs (Reduce, Reuse, Recycle)** and **sustainable waste management systems**. Later, an interactive lecture on **noise pollution—its sources, effects, and control measures**—was delivered. Students participated in a group activity to design a small-scale waste segregation model for the campus.

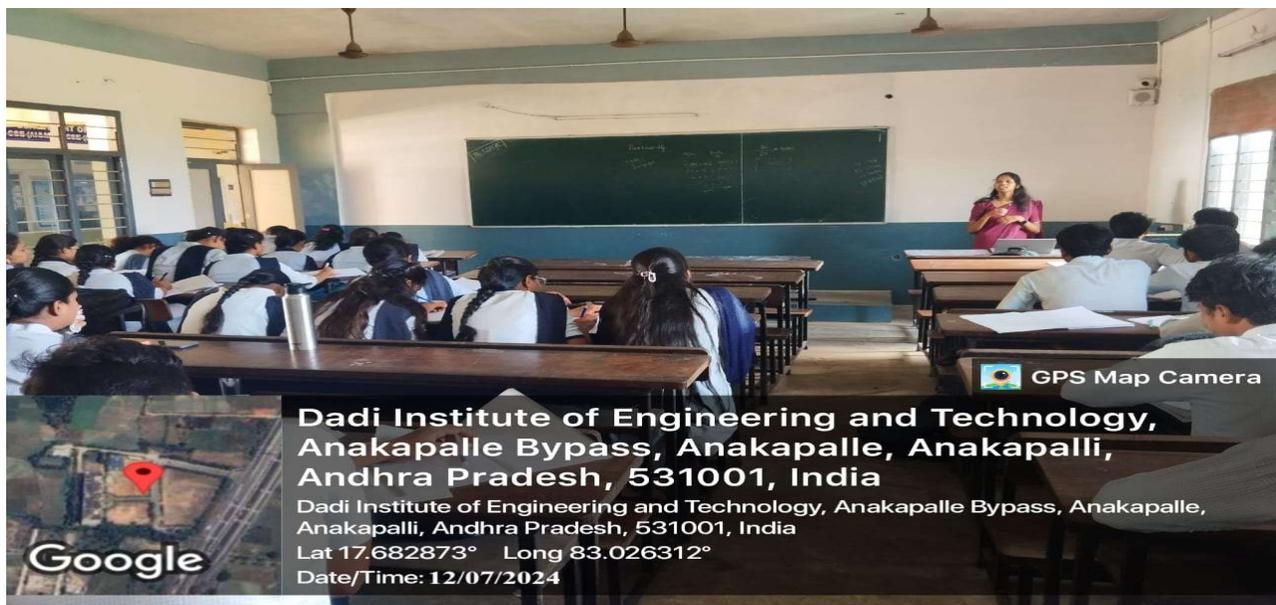


Resource Person giving Lecture to the students in Day-4

Day 5 – 12.07.2024 (Friday):

Topic: *Renewable Energy and Sustainable Construction Practices*

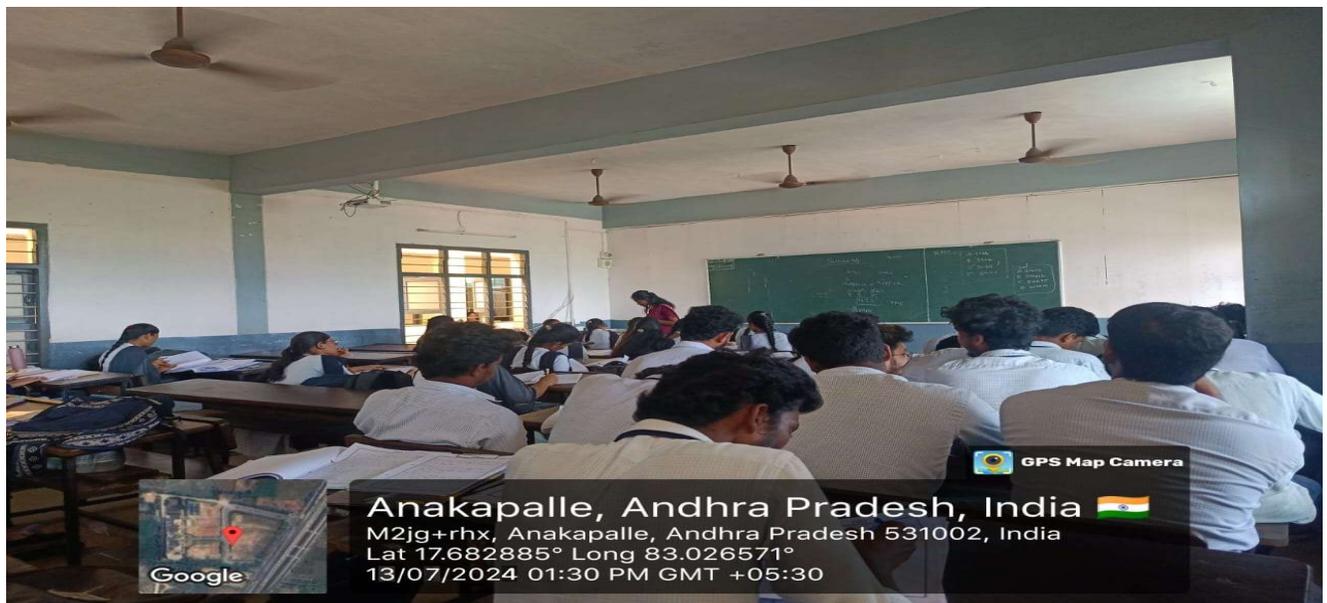
On the fifth day, the resource person discussed the **importance of renewable energy sources** such as solar, wind, and bioenergy. The session included discussions on **green building concepts, energy-efficient materials, and LEED certification systems**. Students were encouraged to integrate sustainable practices into civil infrastructure projects. Videos and case studies on eco-friendly construction methods were also presented.



Resource Person giving Lecture to the students in Day-5

Day 6 – 13.07.2024 (Saturday):

The final day began with student group presentations summarizing their learnings from the week. Each team presented innovative ideas for sustainable campus development and environmental conservation. The valedictory ceremony was presided over by Mrs. B. Yarnika, who appreciated the students for their active participation. Certificates were distributed to all participants. Feedback was collected from students, who expressed that the course enhanced their understanding of sustainability and motivated them to adopt eco-friendly practices in their professional lives.



Resource Person giving Lecture to the students in Day-6



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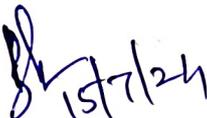
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Conclusion: The program concluded with a vote of thanks delivered by Mrs. B. Yarnika, Assistant Professor, and faculty coordinator of the event. She expressed gratitude to the Honorable Chairman Principal, HOD, participants, and organizing committee for their contributions to making the event a success.

The one-week Value Added Course on “Environmental Sustainability” provided participants with a holistic understanding of environmental challenges and sustainable engineering solutions. It successfully created awareness among students about their responsibility toward environmental protection and inspired them to apply sustainable practices in future civil engineering projects.


15/7/24
HOD-CE

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8. Which cycle is crucial for DNA and ATP in organisms?
 A) Sulphur cycle B) Nitrogen cycle C) Phosphorus cycle D) Oxygen cycle (C)
9. Conservation of biodiversity can be done through:
 A) Deforestation B) Poaching C) National parks D) Industrial growth (C)
10. The interaction of living organisms with their physical environment is called:
 A) Ecology B) Evolution C) Pollution D) Energy system (A)
11. Which among the following is the main source of "Synthetic Fuel"?
 A) Plastic B) Biomass C) Coal D) Municipal Waste (C)
12. Fish meal is widely used as which among the following?
 A) Cost-effective Food B) Poultry Feed Additive C) Organic Fertilizer D) Bird food (B)
13. With which among the following subjects does the Agenda 21, that came out of Earth Summit 1992, explicitly deal?
 A) Green House Gases B) Climate Changes C) Sustainability D) Ozone Layer Protection (C)
14. The *Jatropha curcas*, a source of inedible vegetable oil used to produce biofuel and works as a carbon sink, is native to which of the following regions of the world?
 A) Europe B) Central Africa C) Central America D) South America (C)
15. Along with *Jatropha*, the seed oil of which among the following plants has been found to be useful in diesel generators being explored in hundreds of projects throughout India and other developing countries as feedstock for biodiesel?
 A) *Arachis hypogea* B) *Pongamia pinnata* C) *Butea monosperma* D) *Pterocarpus santalinus* (B)
16. The Hydroponics is most closely related to which among the following?
 A) Grafting of Plants B) Water conservation C) Study of Vegetable D) Soilless culture of Plants (A)
17. Earth Hour, organized by which organization?
 A) UNESCO B) Earth Hour Foundation C) World Wildlife Fund D) United Nations Environment Programme (A)

18. Which among the following terms of utmost significance in the dynamics of resource management was coined in the 'Brundtland Commission Report'?
- A) Polluter-Pays Principle B) Sustainable development C) Inclusive Growth D) Carrying Capacity
- (B)
19. Which type of farming is sustainable?
- A) Plantations B) Shifting cultivation C) Nomadic Grazing D) Cattle ranching
- (B)
20. What is the most environmental friendly action for the mining company after extraction of mineral?
- A) Fill in the soil and replace the top soil B) No refilling the hole C) Fill water in the hole D) Fill waste in the hole
- (A)

VALUE ADDED COURSE ON "ENVIRONMENTAL SUSTAINABILITY"
ASSESSMENT

Duration : 30 Minutes

Maximum Marks : 20 Marks

Reg No. : 2304SA0111

Date : 15/7/24

Name of the Student: K. Sindhu

20
20

Yasminika

- Answer All the Questions.
- Each Question Carries 1 Mark.

- Which of the following best defines sustainability?
A) Unlimited resource usage
B) Meeting present needs without compromising future needs
C) Rapid industrialization
D) Using fossil fuels
(B)
- The component that cycles carbon between the atmosphere, oceans, and living organisms is called:
A) Nitrogen cycle
B) Water cycle
C) Carbon cycle
D) Sulphur cycle
(C)
- Which of the following is *not* a function of an ecosystem?
A) Nutrient cycling
B) Pollution control
C) Energy flow
D) Genetic mutation
(D)
- What is biodiversity?
A) Variety of energy forms
B) Variety of living organisms
C) Collection of minerals
D) Ocean diversity only
(B)
- Which natural cycle involves the transformation of proteins in the soil?
A) Water cycle
B) Carbon cycle
C) Nitrogen cycle
D) Phosphorus cycle
(C)
- Which one of these is a major threat to biodiversity?
A) Forestation
B) Habitat destruction
C) Conservation parks
D) Organic farming
(B)
- Ecosystems rely on the sun for:
A) Mineral formation
B) Genetic modification
C) Energy input
D) Pollution absorption
(C)

8. Which cycle is crucial for DNA and ATP in organisms?
 A) Sulphur cycle B) Nitrogen cycle C) Phosphorus cycle D) Oxygen cycle (C)
9. Conservation of biodiversity can be done through:
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15. Along with *Jatropha*, the seed oil of which among the following plants has been found to be useful in diesel generators being explored in hundreds of projects throughout India and other developing countries as feedstock for biodiesel?
 A) *Arachis hypogea* B) *Pongamia pinnata* C) *Butea monosperma* D) *Pterocarpus santalinus* (B)
16. The Hydroponics is most closely related to which among the following?
 A) Grafting of Plants B) Water conservation C) Study of Vegetable D) Soilless culture of Plants (D)
17. Earth Hour, organized by which organization?
 A) UNESCO B) Earth Hour Foundation C) World Wildlife Fund D) United Nations Environment Programme (C)

18. Which among the following terms of utmost significance in the dynamics of resource management was coined in the 'Brundtland Commission Report'?
- A) Polluter-Pays Principle B) Sustainable development C) Inclusive Growth D) Carrying Capacity (B)
19. Which type of farming is sustainable?
- A) Plantations B) Shifting cultivation C) Nomadic Grazing D) Cattle ranching (B)
20. What is the most environmental friendly action for the mining company after extraction of mineral?
- A) Fill in the soil and replace the top soil B) No refilling the hole C) Fill water in the hole D) Fill waste in the hole (A)

VALUE ADDED COURSE ON "ENVIRONMENTAL SUSTAINABILITY"
ASSESSMENT

Duration : 30 Minutes

Maximum Marks : 20 Marks

Reg No. : 2304SA0112

Date : 15/7/24

Name of the Student: K. Sampath ganesh.

19
20

Yasvika

- Answer All the Questions.
- Each Question Carries 1 Mark.

- Which of the following best defines sustainability?
A) Unlimited resource usage
B) Meeting present needs without compromising future needs
C) Rapid industrialization
D) Using fossil fuels
(B)
- The component that cycles carbon between the atmosphere, oceans, and living organisms is called:
A) Nitrogen cycle
B) Water cycle
C) Carbon cycle
D) Sulphur cycle
(C)
- Which of the following is *not* a function of an ecosystem?
A) Nutrient cycling
B) Pollution control
C) Energy flow
D) Genetic mutation
(D)
- What is biodiversity?
A) Variety of energy forms
B) Variety of living organisms
C) Collection of minerals
D) Ocean diversity only
(B)
- Which natural cycle involves the transformation of proteins in the soil?
A) Water cycle
B) Carbon cycle
C) Nitrogen cycle
D) Phosphorus cycle
(C)
- Which one of these is a major threat to biodiversity?
A) Forestation
B) Habitat destruction
C) Conservation parks
D) Organic farming
(B)
- Ecosystems rely on the sun for:
A) Mineral formation
B) Genetic modification
C) Energy input
D) Pollution absorption
(C)

8. Which cycle is crucial for DNA and ATP in organisms?
 A) Sulphur cycle B) Nitrogen cycle C) Phosphorus cycle D) Oxygen cycle (C)
9. Conservation of biodiversity can be done through:
 A) Deforestation B) Poaching C) National parks D) Industrial growth (C)
10. The interaction of living organisms with their physical environment is called:
 A) Ecology B) Evolution C) Pollution D) Energy system (A)
11. Which among the following is the main source of "Synthetic Fuel"?
 A) Plastic B) Biomass C) Coal D) Municipal Waste (C)
12. Fish meal is widely used as which among the following?
 A) Cost-effective Food B) Poultry Feed Additive C) Organic Fertilizer D) Bird food (B)
13. With which among the following subjects does the Agenda 21, that came out of Earth Summit 1992, explicitly deal?
 A) Green House Gases B) Climate Changes C) Sustainability D) Ozone Layer Protection (C)
14. The *Jatropha curcas*, a source of inedible vegetable oil used to produce biofuel and works as a carbon sink, is native to which of the following regions of the world?
 A) Europe B) Central Africa C) Central America D) South America (C)
15. Along with *Jatropha*, the seed oil of which among the following plants has been found to be useful in diesel generators being explored in hundreds of projects throughout India and other developing countries as feedstock for biodiesel?
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 A) UNESCO B) Earth Hour Foundation C) World Wildlife Fund D) United Nations Environment Programme (A)

18. Which among the following terms of utmost significance in the dynamics of resource management was coined in the 'Brundtland Commission Report'? (B)
- A) Polluter-Pays Principle B) Sustainable development C) Inclusive Growth D) Carrying Capacity
19. Which type of farming is sustainable? (B)
- A) Plantations B) Shifting cultivation C) Nomadic Grazing D) Cattle ranching
20. What is the most environmental friendly action for the mining company after extraction of mineral? (A)
- A) Fill in the soil and replace the top soil B) No refilling the hole C) Fill water in the hole D) Fill waste in the hole

VALUE ADDED COURSE ON "ENVIRONMENTAL SUSTAINABILITY"
ASSESSMENT

Duration : 30 Minutes

Maximum Marks : 20 Marks

Reg No. : 23045A0129

Date : 15/07/2024

Name of the Student: S. RAJKAMAL

18
20

Jasvika

- Answer All the Questions.
- Each Question Carries 1 Mark.

- Which of the following best defines sustainability?
A) Unlimited resource usage
B) Meeting present needs without compromising future needs
C) Rapid industrialization
D) Using fossil fuels
(B) ✓
- The component that cycles carbon between the atmosphere, oceans, and living organisms is called:
A) Nitrogen cycle
B) Water cycle
C) Carbon cycle
D) Sulphur cycle
(C) ✓
- Which of the following is *not* a function of an ecosystem?
A) Nutrient cycling
B) Pollution control
C) Energy flow
D) Genetic mutation
(D) ✓
- What is biodiversity?
A) Variety of energy forms
B) Variety of living organisms
C) Collection of minerals
D) Ocean diversity only
(B) ✓
- Which natural cycle involves the transformation of proteins in the soil?
A) Water cycle
B) Carbon cycle
C) Nitrogen cycle
D) Phosphorus cycle
(B) ✓
- Which one of these is a major threat to biodiversity?
A) Forestation
B) Habitat destruction
C) Conservation parks
D) Organic farming
(B) ✓
- Ecosystems rely on the sun for:
A) Mineral formation
B) Genetic modification
C) Energy input
D) Pollution absorption
(C) ✓

- 18.
8. Which cycle is crucial for DNA and ATP in organisms?
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18. Which among the following terms of utmost significance in the dynamics of resource management was coined in the 'Brundtland Commission Report'? (B)
- A) Polluter-Pays Principle B) Sustainable development C) Inclusive Growth D) Carrying Capacity
19. Which type of farming is sustainable? (B)
- A) Plantations B) Shifting cultivation C) Nomadic Grazing D) Cattle ranching
20. What is the most environmental friendly action for the mining company after extraction of mineral? (A)
- A) Fill in the soil and replace the top soil B) No refilling the hole C) Fill water in the hole D) Fill waste in the hole

VALUE ADDED COURSE ON "ENVIRONMENTAL SUSTAINABILITY"
ASSESSMENT

Duration : 30 Minutes

Maximum Marks : 20 Marks

Reg No. : 23045A0125

Date : 15/7/24

Name of the Student: M. Uday Srinivas

18
20

Yamika

- Answer All the Questions.
- Each Question Carries 1 Mark.

- Which of the following best defines sustainability?
A) Unlimited resource usage
B) Meeting present needs without compromising future needs
C) Rapid industrialization
D) Using fossil fuels
(B)
- The component that cycles carbon between the atmosphere, oceans, and living organisms is called:
A) Nitrogen cycle
B) Water cycle
C) Carbon cycle
D) Sulphur cycle
(C)
- Which of the following is *not* a function of an ecosystem?
A) Nutrient cycling
B) Pollution control
C) Energy flow
D) Genetic mutation
(B)
- What is biodiversity?
A) Variety of energy forms
B) Variety of living organisms
C) Collection of minerals
D) Ocean diversity only
(B)
- Which natural cycle involves the transformation of proteins in the soil?
A) Water cycle
B) Carbon cycle
C) Nitrogen cycle
D) Phosphorus cycle
(C)
- Which one of these is a major threat to biodiversity?
A) Forestation
B) Habitat destruction
C) Conservation parks
D) Organic farming
(B)
- Ecosystems rely on the sun for:
A) Mineral formation
B) Genetic modification
C) Energy input
D) Pollution absorption
(A)

8. Which cycle is crucial for DNA and ATP in organisms?
A) Sulphur cycle B) Nitrogen cycle C) Phosphorus cycle D) Oxygen cycle (C)
9. Conservation of biodiversity can be done through:
A) Deforestation B) Poaching C) National parks D) Industrial growth (C)
10. The interaction of living organisms with their physical environment is called:
A) Ecology B) Evolution C) Pollution D) Energy system (A)
11. Which among the following is the main source of "Synthetic Fuel"?
A) Plastic B) Biomass C) Coal D) Municipal Waste (C)
12. Fish meal is widely used as which among the following?
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13. With which among the following subjects does the Agenda 21, that came out of Earth Summit 1992, explicitly deal?
A) Green House Gases B) Climate Changes C) Sustainability D) Ozone Layer Protection (C)
14. The *Jatropha curcas*, a source of inedible vegetable oil used to produce biofuel and works as a carbon sink, is native to which of the following regions of the world?
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20. What is the most environmental friendly action for the mining company after extraction of mineral?
- A) Fill in the soil and replace the top soil B) No refilling the hole C) Fill water in the hole D) Fill waste in the hole

(B)

(B)

(A)



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NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: www.diet.edu.in, 9963994864, E-mail: hodcivil@diet.edu.in

STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is crucial for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinion with us so that we can serve you better.

Name of the Candidate : P. Sai Sridekanth Roll No. 23U45A0120 Year/Semester III/II

Title of the Activity : One week Value Added Course on "Environmental Sustainability"

Date/ Duration : 15/07/2024/48 Instructor/ Coordinator : Mrs. B. Yamika Academic Year : 2024-2025
Hours

FEEDBACK SUGGESTIONS

- | | | | | | | |
|---|---|---|---|---|---|-------|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | 5 | _____ |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | 5 | _____ |
| 3. I will recommend this course / workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 | _____ |
| 4. The program was well planned within allotted time | 1 | 2 | 3 | 4 | 5 | _____ |
| 5. The instructor was an effective Communicator | 1 | 2 | 3 | 4 | 5 | _____ |

Please return this form to the Course Instructor / Organizer / Coordinator at the end of the Course / Workshop / Training Program.



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STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is crucial for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinion with us so that we can serve you better.

Name of the Candidate : K. Sindhu Roll No. 23045A0111 Year/Semester III - I

Title of the Activity : one week value added course on environmental sustainability

Date/ Duration : 15/01/2024 / 48hr Instructor/ Coordinator : Mrs. B. Yarnika Academic Year : 2024 - 2025

FEEDBACK SUGGESTIONS

- | | | | | | | |
|---|---|---|---|---|-----|-------|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | (5) | _____ |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | (5) | _____ |
| 3. I will recommend this course / workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | (5) | _____ |
| 4. The program was well planned within allotted time | 1 | 2 | 3 | 4 | (5) | _____ |
| 5. The instructor was an effective Communicator | 1 | 2 | 3 | 4 | (5) | _____ |

Please return this form to the Course Instructor / Organizer / Coordinator at the end of the Course / Workshop / Training Program.



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STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is crucial for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinion with us so that we can serve you better.

Name of the Candidate : D. Bhargavi Roll No. 23045A0109 Year/Semester III - I

Title of the Activity : One week value added course on "Environmental sustainability"

Date/ Duration : 15/7/24 Instructor/ Coordinator : B. Yamnika Academic Year : 2024-25

FEEDBACK SUGGESTIONS

- | | | | | | | |
|---|---|---|---|---|-----|----------|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | (5) | <u>5</u> |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | (5) | <u>5</u> |
| 3. I will recommend this course / workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | (5) | <u>5</u> |
| 4. The program was well planned within allotted time | 1 | 2 | 3 | 4 | (5) | <u>5</u> |
| 5. The instructor was an effective Communicator | 1 | 2 | 3 | 4 | (5) | <u>5</u> |

Please return this form to the Course Instructor / Organizer / Coordinator at the end of the Course / Workshop / Training Program.



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STUDENT FEEDBACK FORM

Dear Candidate,

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Name of the Candidate : G. Chakravarthi Roll No. 22U41A0102 Year/Semester III / I

Title of the Activity : One week value added course on "Environmental Sustainability"

Date/ Duration : 15/09/2024/49 hrs Instructor/ Coordinator : Mrs. B. Yoshika Academic Year : 2024 - 25

FEEDBACK SUGGESTIONS

- | | | | | | | |
|---|---|---|---|-----|-----|-------|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | (5) | _____ |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | (5) | _____ |
| 3. I will recommend this course / workshop program to relevant conservators across our campus | 1 | 2 | 3 | (4) | 5 | _____ |
| 4. The program was well planned within allotted time | 1 | 2 | 3 | (4) | 5 | _____ |
| 5. The instructor was an effective Communicator | 1 | 2 | 3 | 4 | (5) | _____ |

Please return this form to the Course Instructor / Organizer / Coordinator at the end of the Course / Workshop / Training Program.



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STUDENT FEEDBACK FORM

Dear Candidate,

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Name of the Candidate : P. Mohitha Roll No. 23045A0118 Year/Semester III-I

Title of the Activity : one week value added course on "Environmental Sustainability"

Date/ Duration : 15/07/2024 48 hrs Instructor/ Coordinator : Mrs. B. Yarnika Academic Year : 2024-5

FEEDBACK SUGGESTIONS

- | | | | | | | |
|---|---|---|---|---|---|-------|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | 5 | _____ |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | 5 | _____ |
| 3. I will recommend this course / workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 | _____ |
| 4. The program was well planned within allotted time | 1 | 2 | 3 | 4 | 5 | _____ |
| 5. The instructor was an effective Communicator | 1 | 2 | 3 | 4 | 5 | _____ |

Please return this form to the Course Instructor / Organizer / Coordinator at the end of the Course / Workshop / Training Program.



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STUDENT FEEDBACK FORM

Dear Candidate,

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Name of the Candidate : P. Teja Bhavani Roll No. 23045A0119 Year/Semester III/II

Title of the Activity : One week value added course on environmental sustainability

Date/ Duration : 15/07/2024 ^{48hr} Instructor/ Coordinator : Mrs. B. Yarnika Academic Year : 2024-25

FEEDBACK SUGGESTIONS

- | | | | | | | |
|---|---|---|---|-----|-----|-------|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | (5) | _____ |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | (5) | _____ |
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| 4. The program was well planned within allotted time | 1 | 2 | 3 | (4) | 5 | _____ |
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VALUE ADDED COURSE ON "ENVIRONMENTAL SUSTAINABILITY"

Assessment Marks

Date - 16/07/2024

AY: 2024-2025

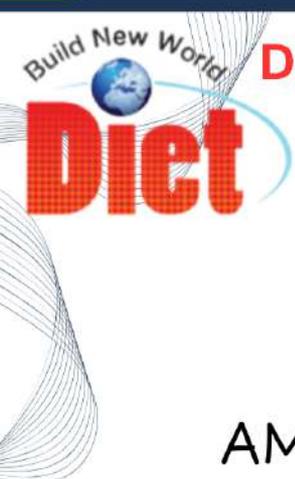
S. NO	NAME OF THE STUDENT	REG0. NO.	Marks Obtained (20 M)	Grade Obtained
1.	BUDDHA TEJA	22U41A0101	17	A
2.	GANDIBOYINA CHAKRAVARTHI	22U41A0102	17	A
3.	YALAMANCHILI VASU	22U41A0103	17	A
4.	ALLAKA SESI VINAY	23U45A0101	18	A+
5.	AMBATI HEMANTH KUMAR	23U45A0102	18	A+
6.	APPIKONDA SRAVANTHI	23U45A0103	20	A+
7.	BODNAIK MAHESH BABU	23U45A0104	19	A+
8.	BUDDHA SAI KUMAR	23U45A0105	20	A+
9.	CHINNALA RAMJI NAIDU	23U45A0106	18	A+
10.	DADI TEJA	23U45A0107	19	A+
11.	DAKARAPU DIVAKAR V V S N SAI	23U45A0108	20	A+
12.	DODDI BHARGAVI	23U45A0109	17	A
13.	GIDUTURI KIRAN KARTHIK	23U45A0110	19	A+
14.	KANDIPILLI SINDHU	23U45A0111	20	A+
15.	KARRI SWAMY SAMPATH GANESH	23U45A0112	19	A+
16.	KONA VENKATA KIRAN	23U45A0113	20	A+
17.	NEDHURI KALYANI	23U45A0114	20	A+
18.	NEELAKANTA DHANA SAI DURGA	23U45A0115	19	A+
19.	NEMMADI SANYASI NAIDU	23U45A0116	20	A+
20.	VOMMI SRI LAKSHMI	23U45A0117	20	A+
21.	POLAMARASETTY MOHITHA	23U45A0118	20	A+
22.	POLAMARASETTY TEJA BHAVANI	23U45A0119	20	A+

23.	POTHALA SATYA SHIRIDI SAI SREEKANTH	23U45A0120	18	A+
24.	PUKKALA NARASIMHA NAIDU	23U45A0121	18	A+
25.	SADARLA RAJ KAMAL	23U45A0122	18	A+
26.	SAYYED ZAYAN	23U45A0123	18	A+
27.	ARNEPALLI PAVAN KUMAR	23U45A0124	18	A+
28.	MARADAPUDI UDAY SRINIVAS KUMAR	23U45A0125	18	A+

B. Yamina
COORDINATOR
16/07/24

Bh
HOD-CE
16/7/24

Principal
16/7/24
PRINCIPAL
Dadi Institute of
Engineering & Technology
Autonomous
Anakapalle - 531 002.



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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CERTIFICATE

This certificate is proudly awarded to

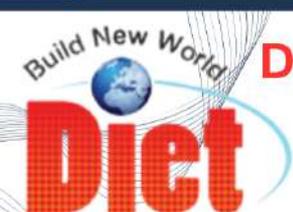
AMBATI HEMANTH KUMAR (23U45A0102)

For successful completion of Value Added Course on **"Environmental Sustainability"**
from **08/07/2024** to **13/07/2024** during the Academic Year 2024-2025.

B. YARNIKA
COURSE COORDINATOR

Dr. V. BHARGAVI
HOD

Dr. R. VAIKUNTA RAO
PRINCIPAL



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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CERTIFICATE

This certificate is proudly awarded to

APPIKONDA SRAVANTHI (23U45A0103)

For successful completion of Value Added Course on **"Environmental Sustainability"**
from **08/07/2024** to **13/07/2024** during the Academic Year 2024-2025.

B. YARNIKA
COURSE COORDINATOR

Dr. V. BHARGAVI
HOD

Dr. R. VAIKUNTA RAO
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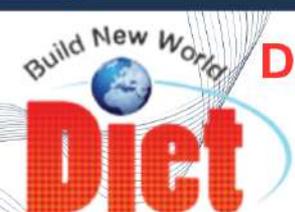
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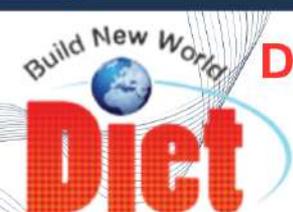
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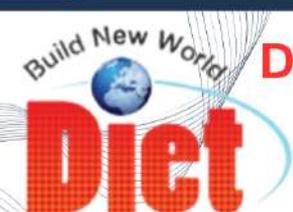
NEDHURI KALYANI (23U45A0114)

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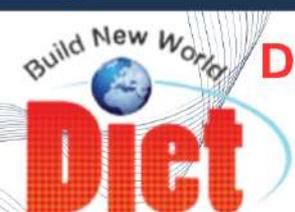
NEELAKANTA DHANA SAI DURGA (23U45A0115)

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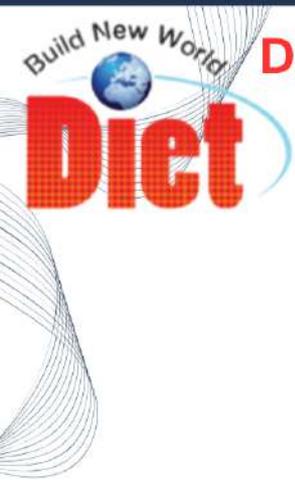
NEMMADI SANYASI NAIDU (23U45A0116)

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