NAAC:C(IICYCLE)

A PROMPTUARY

ON

CERTIFICATE COURSE

IN

ENVIRONMENTAL CHEMISTRY

NOV-2,2023



DEPARTMENT OF CHEMISTRY

C.S.T.S.GOVT.KALASALA
JANGAREDDIGUDEM,ELURU DIST,AP

CHATRAPATHISIVAJITRISATAJAYANTHI(CSTS) GOVT.KALASALA



Enter toLearn-LeavetoServe

Jangareddigudem, EluruDist

Phone:08821225310, Visitusat: www.cstsgk.ac.in E-Mail:jangareddigudem.manatv@gmail.com



Principal Permssion Letter

DATE:01-11-2023

To

The Principal

C.S.T.S Govt Kalasala

Jangareddigudem.

Respected Sir,

Sub: Request for conduct Certificate course: Regarding

This is for your kind information that the department of chemistry is going to conduct "Certificate Course in Environmental Chemistry" on 02-11-2023. Please give permission to conduct this activity.

Wew yillias

Thanking you sir,

Your Sincerely

Eachly members of the department of cherchy is conducting certificate course in Environmental chemistry on 02/11/2023 in the chemistry class room. All the Edicate are requested to attend the class.

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classes.

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OBJECTIVE:

The primary objective of environmental chemistry is to understand the behavior of chemical species in natural environments and how they impact ecosystems, human health, and the Earth's atmosphere. Some specific objectives include:

- 1. **Pollution Control:** Identifying sources, transport mechanisms, and fate of pollutants in air, water, and soil to develop strategies for minimizing their harmful effects.
- 2. **Risk Assessment:** Evaluating the potential risks posed by chemicals to ecosystems and human health through exposure assessment and toxicity studies.
- 3. **Remediation:** Developing technologies and methods to clean up polluted environments, such as wastewater treatment, soil remediation, and air purification.
- 4. **Sustainable Practices:** Promoting the use of environmentally friendly chemicals and processes in industries and agriculture to minimize environmental impact.
- 5. Climate Change: Studying the role of chemicals and pollutants in climate processes, such as greenhouse gas emissions and their impact on global warming.
- 6. **Ecosystem Health:** Monitoring the health of natural ecosystems by studying the presence and effects of chemicals on flora, fauna, and microbial communities.
- 7. **Public Policy:** Providing scientific data and recommendations to policymakers for the development of regulations and guidelines to protect the environment and human health.

Overall, environmental chemistry aims to provide a scientific foundation for understanding and addressing the complex interactions between chemicals and the environment, thereby promoting sustainable development and conservation of natural resources.

AIM:

The aim of environmental chemistry is multifaceted, focusing on understanding the chemical processes occurring in the environment and their impacts on ecosystems and human health. Here are the primary aims of environmental chemistry:

- 1. **Understanding Environmental Processes:** Environmental chemists aim to understand the chemical reactions, transformations, and transport mechanisms of pollutants in various environmental compartments such as air, water, soil, and living organisms.
- 2. **Monitoring and Assessment:** Environmental chemists work to monitor the presence and concentrations of pollutants in different environmental matrices to assess their potential risks to ecosystems and human health.
- 3. **Pollution Prevention and Control:** One of the key aims is to develop strategies and technologies for preventing pollution and controlling its sources. This includes developing cleaner production methods, waste minimization techniques, and pollution abatement technologies.
- 4. **Risk Assessment:** Environmental chemists assess the risks associated with exposure to pollutants by studying their toxicity, bioaccumulation potential, and persistence in the

- environment. This helps in setting regulatory limits and guidelines to protect human health and ecosystems.
- 5. **Remediation and Restoration:** Environmental chemists develop remediation technologies to clean up contaminated sites and restore ecosystems affected by pollution. This may involve techniques such as bioremediation, chemical treatment, and phytoremediation.
- 6. **Sustainable Development:** Environmental chemistry aims to promote sustainable practices by advocating for the use of environmentally friendly chemicals, renewable resources, and energy-efficient technologies.
- 7. **Policy and Advocacy:** Environmental chemists contribute scientific data and expertise to policy-making processes at local, national, and international levels. They advocate for regulations and policies that promote environmental protection and sustainable development.

In summary, the aim of environmental chemistry is to apply chemical principles and techniques to understand, monitor, mitigate, and prevent the environmental impacts of human activities, thereby contributing to the conservation and sustainable use of natural resources for present and future generations.



CSTS GOVT. KALASALA

Jangareddigudem, Eluru District, AP. (Affiliated to Adikavi Nannaya University)





This is to certify that Mr./Mrs./Ms./Dr. {{Full Name}} From {{Other Identifier}} has Completed by in "Environmental chemistry" conducted by the Department of Chemistry held on 03 January 2024.



Convener



Principal



CSTS GOVT. KALASALA

Jangareddigudem, Eluru District, AP. (Affiliated to Adikavi Nannaya University)





This is to certify that Mr./Mrs./Ms./Dr. SODEM MADHU From CSTS GOVERNMENT KALASALA JANGAREDDIGUDEM has Completed by in "Environmental chemistry" conducted by the Department of Chemistry and on 03 January 2024.

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Principal

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Department of chemistry

Certificate course::Environmental chemistry

Marks:20

Answer	r all Questions	Marks:20
1.Photo	chemical smog normally does not contain []	
A.	Chlorofluoro carbons	
B.	Ozone	
C.	Acrolein	
D.	Peroxyacetyl nitrate	
2.Deplet	tion of the Ozone layer is caused due to []	
A.	Ferrocene	
В.		
C.	Freons	
D.		
D.	r ory narogens	
3.The re	eaction responsible for the radiant energy of the sun is []	
A.		
В.	Nuclear fusion	
C.	Chemical reaction	
D.	Conbustion	
4.Which	is not a common pollutant? []	
A.	N2O5	
В.	N2O	
c.	NO	
D.	NO2	
	of the following techniques is /are used in controlling water pollution []	
A.	Reverse osmosis	
В.		
	• .	
C.		
D.	All of these	
6.Which	of the following metal pollute water ? []	
A.	Cd	
В.	Na	
C.	K	
D.	None of the above	
7.Which	of the following process is responsible for causing rain? []	
A.	Evaporation and condensation	
В.		
C.	Filtration	
D.		
8.Which	is responsible for turning the TajMahal yellow? []	
A.	Sulphur	
B.		
С.	Nitrogendioxide	
D.		
υ.	Gilloring	

Α.	
В.	Presence of water vapor in air
C.	Carbon dioxide
D.	Oxides of sulphur & nitrogen
10.Which	is a non-renewable source of energy? []
A.	Coal
В.	Solar
	Bio-mass
	Wind
11.Which	is used to cause artificial rain? []
A.	HBr
В.	AgI
C.	Ag_2O
D.	Al_2S_3
12 \A/b;ab	and is a become hald warish of social 1
12.WHICH	one is a household variety of coal? []
Α.	Bituminous
В.	Lignite
	Peat
D.	Anthracite
13.Which	not a green house gas? []
	Co ₂
В.	CH ₄
C.	
D.	02
14. BOD is	
14. 000 1	, []
A.	Waste decomposed in 5days
B.	Oxygen used in 5days
C.	Micro oraganisms killed in 5days
D.	Dissolved oxygen left after 5days
15.Which	is present in maximum amount in acid rain? []
A.	HNO ₃
B.	H ₂ So ₄
C.	HCI
D.	H ₂ CO ₃
υ.	112003
16.which	has greatest affinity for haemoglobin? []
A.	со
В.	NO
C.	O ₂
D.	Co ₂
17.Which	does not cause water pollution []
^	Hoavy motals such is Ha. Dh.Cd
A. B.	Heavy metals such is Hg ,Pb,Cd Detergents
D.	2010.00110

9.Acid rain is primarily due to []

	C.	Chemical effluents	
1	D.	Freons	
18.Flu	ioros	is is caused by the presence of []
	A.	Pesticides in water	
1	B.	Fluorides in water	
	C.	CO in air	
1	D.	So ₂ in air	
19.Ult	travio	olet radiation is absorbed by []	
	A.	Exosphere	
1	В.	Ionosphere	
(C.	Ozonosphere	
1	D.	Stratosphere	

A. Biotic components

20.Environmental pollution affects []

- B. Human beings only
- C. Plants only
- D. Biotic and Abiotic components of environment

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The department of chemistry conducting a certificate course in Environmental chemistry on Nova; 2023. The following students are enrolle in this course. The duration of this course is As days.

No of students negestered.

Details of the students

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CERTIFICATE COURSE

SYLLABUS

ENVIRONMENTAL CHEMISTRY

UNIT-I

Introduction 9 h

Concept of Environmental chemistry - Scope and importance of environment in now a days - Nomenclature of environmental chemistry - Segments of environment - Natural resources - Renewable Resources - Solar and biomass energy and Non-renewable resources - Thermal power and atomic energy - Reactions of atmospheric oxygen and Hydological cycle.

UNIT-II

Air Pollution 9 h

Definition – Sources of air pollution – Classification of air pollution – Acid rain – Photochemical smog – Green house effect – Formation and depletion of ozone – Bhopal gas disaster – Controlling methods of air pollution.

UNIT-III

Water pollution 9 h

Unique physical and chemical properties of water – water quality and criteria for finding of water quality – Dissolved oxygen – BOD, COD, Suspended solids, total dissolved solids, alkalinity – Hardness of water – Methods to convert temporary hard water into soft water – Methods to convert permanent hard water into soft water – eutrophication and its effects – principal wastage treatment – Industrial waste water treatment.

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Popic: Relation between chemistry and Environment

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Popic: Terms in Sourismental chemity

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25	S. Maha Jakshm?	1 B.sc CMPC)	19. Lyl	
26	M. Lakshmi Devi	I Bsc(mpc)	A-Man	-
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Certificate course for the academic 3 Year (2023-24)

The department of chemistry conducting a certificate course in Knylhonmental chemistry on Nova, 2023. The following students are enrolle in this course. The duration of this course is As days.

No. of student negestered: 50

Details of the students

S-NO.	Name of the	class	Signature
	Student		
1.	8K-Karlshma	III BZC	8K.Kaofishma
2.	M. Durga Varia prasad	- ti	Horapa
3	K. padigadda Ratu	III BCH	K. P. Raju
4.	5 Saillam	III B2e	800
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6	K. Manga Rajy	II M.P.C	K. Rolling
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9.	B. Ravi Teja	JII M.P. C	B. Parts
10.	B. Sai kumar	II BZC	B. Sai Kenny
11.	Ch. Dasu babu	II BZC	Ch. Dasu babu
12.	B. Prasanna humar	M. M.P.C	B. Bosnuhar
13.	B. Charan deepak	TII BCH	B. Osek
14	B. Tyotiska	TT BZC	BI
	B. Anusha	FI BSC	Bollishan
	k. Larnidew	10 B20	k. Quisei
17. 1	Venkatadainn	III BSC (BZC)	RI
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25	1c southagya	III ESC (BZC)	10. soushagye
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1	M.D. Valagolasta	W BSCBZO	
2.	y. posubabu k. Mangaraju	III BSC (BUH)	K. Dear
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6.	L. Prasanna vadus	BBSC (BCW)	L. Dawha
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16	1 Anusha	*	B. Anorte
17	B. TYOTE Ken	(B20)	BP
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E-	10/19	Name of the Student	Class	Signature
8	. NO	Name of the sale	D BBC (BZO)	F. Disoci
-	19.	k. Laamidell	TI BSC (BCH)	A.4
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VOTE OF THANKS

Honorable, respected [Dr.N.Prasad babu], esteemed professors, distinguished guests, and my dear fellow students,

I stand here today with a heart full of gratitude and a mind enriched by the knowledge and insights shared during this enlightening session on environmental chemistry.

First and foremost, our heartfelt thanks go to [Chief Guest's Name], whose profound expertise and inspiring words have ignited our passion for understanding the intricate balance of our environment. Your keynote address has left an indelible mark on all of us, reminding us of our responsibilities as stewards of this planet.

We extend our sincere appreciation to [Principal/Dean's Name] for your unwavering support and for providing us with the opportunity to delve deep into the realm of environmental chemistry. Your vision for academic excellence motivates us to strive for greater heights.

A special note of thanks to all the professors and experts who shared their knowledge through thought-provoking presentations and discussions. Your dedication to nurturing our understanding of environmental issues is commendable, and we are grateful for your guidance.

I would also like to acknowledge the efforts of our organizing committee and volunteers who worked tirelessly behind the scenes to ensure the smooth conduct of this event. Your meticulous planning and attention to detail have contributed significantly to its success.

Last but not least, a big thank you to my fellow students and participants. Your active engagement and enthusiasm have made this event truly meaningful and enriching.

As we depart from this gathering today, let us carry forward the lessons learned and commit ourselves to making a positive impact on our environment. Together, let's strive to protect and preserve our planet for future generations.

Thank you once again to everyone who has contributed to this memorable event. Your presence and participation have made it a resounding success.

Have a wonderful day ahead!

Thank you.