

A.G. & S.G. Siddhartha Degree College of Arts & Science

Vuyyuru-521165, Krishna District, Andhra Pradesh

(Managed by: Siddhartha Academy of General & Technical Education, Vijayawada-10)

An Autonomous College in the Jurisdiction of Krishna University

Accredited by NAAC with "A" Grade



DEPARTMENT OF CHEMISTRY

Value Added Course

Title: "BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY"

Name of the Lecturer : Sri. K. Ramesh

Class : I.B.Sc(M.C.Cs)

Duration of the Course : Thirty Days

VAC Code : CHEV201



**Adusumilli Gopalakrishnaiah & Sugarcane Growers
Siddhartha Degree College of Arts and Science**

Autonomous College :: Aided College of Govt. of AP

NAAC 'A' Grade College

Vuyyuru, Krishna (Dt), Andhra Pradesh-521165

VALUE ADDED COURSE

TITLE: *Basic Segments of Environmental Chemistry*

VAC CODE: CHE-BSE-01

On 02th JAN, 2019 TO 31th JAN 2019

Duration of the Course: 30 Days

Organized By

Department of Chemistry



Objectives:

“BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY”

To Study the basic situations of the Environment. The environment consists of four basic segments, they are Atmosphere, Hydrosphere, Lithosphere, and Biosphere.

Methodology :

Teaching and Learning Methods

Duration: 30 Days

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Value Added Course

Title: “BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY”

Date: 01/01/2019 to 31/01/2019

| Date | Content | Module No |
|------------------------------|---|-----------|
| 1/1/2019 TO 6/1/2019 | Environmental Chemistry – Significance of basic segments of environment – Nomenclature in the study of environmental chemistry. | I |
| 8/1/2019 TO 13/1/2019 | Lithosphere –I: Principles of weathering – effect of temperature, water, air, plants and animals on weathering. | II |
| 16/1/2019 TO 22/1/2019 | Lithosphere –II: Soil formation / development – factors affecting soil development – functions of soils – soil colloids – ion exchange properties. | III |
| 24/1/2019 TO 30/1/2019 | Analysis of soil: Sampling, determination of moisture, total nitrogen, phosphorous, silicon, lime, humus, nitrogen, alkali salts. | IV |

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Value Added Course

Title: "BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY"

Student Enrolment Sheet

Class: II B.Sc (M C Cs)

| S. No | Roll No. | Name of the Student | Signature |
|-------|----------|---------------------|-----------------|
| 1 | 1853701 | N.Pujitha | N. Pujitha |
| 2 | 1853702 | R.Sulthana | R. Sulthana |
| 3 | 1853703 | Ch.Sowmya | Ch. Sowmya |
| 4 | 1853704 | U.Sandhya | U. Sandhya |
| 5 | 1853705 | SK.Shabana | S.K. Shekhar |
| 6 | 1853706 | M.Bhuvana | M. Bhuvana |
| 7 | 1853707 | V.Venkatesh | V. Venkatesh |
| 8 | 1853708 | P.Sree vidya | P. Sree vidya |
| 9 | 1853709 | V.Sai kumar | V. Sai kumar |
| 10 | 1853710 | J.Hari Krishna | J. Hari Krishna |
| 11 | 1853711 | J.Lakshmi | J. Lakshmi |
| 12 | 1853712 | A.Swathi | A. Swathi |
| 13 | 1853713 | V.Sruthi | V. Sruthi |
| 14 | 1853714 | G.Anusha | G. Anusha |
| 15 | 1853715 | N.Manipal | N. Manipal |

K. Reenu
Signature of the Lecturer

K. Reenu
Signature of the H.O.D

Value Added Course

Title: “BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY”

Test Exercise:

1. Photochemical smog normally does not contain
2. Depletion of the ozone layer is caused due to
3. Find the incorrect statement
4. Find the secondary pollutant among these
5. The reaction responsible for the radiant energy of the Sun is
6. Alum's capacity to purify water is due to
7. The coldest region of the atmosphere
8. Which of the oxide of nitrogen is not a common pollutant?
9. The compound essential for the process of photosynthesis has this element
10. In the air, N_2 and O_2 occur naturally but they do not react to form oxides of nitrogen because

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Value Added Course

Title: "BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY"

Key:

1. Chlorofluorocarbons
2. Freons
3. dissolved oxygen concentration below 5 ppm is ideal for the growth of fish
4. PAN
5. nuclear fusion.
6. impurities' coagulation
7. Mesosphere
8. N_2O_5
9. Mg
10. the reaction is endothermic

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Department of Chemistry

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Title: "BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY"

Marks List

Class:II B.Sc (MPC TM)

| S. No | Roll No. | Name of the Student | Marks |
|-------|----------|---------------------|-------|
| 1 | 1853701 | N.Pujitha | 10 |
| 2 | 1853702 | R.Sulthana | 10 |
| 3 | 1853703 | Ch.Sowmya | 10 |
| 4 | 1853704 | U.Sandhya | 10 |
| 5 | 1853705 | SK.Shabana | 10 |
| 6 | 1853706 | M.Bhuvana | 10 |
| 7 | 1853707 | V.Venkatesh | 10 |
| 8 | 1853708 | P.Sree vidya | 10 |
| 9 | 1853709 | V.Sai kumar | 10 |
| 10 | 1853710 | J.Hari Krishna | 10 |
| 11 | 1853711 | J.Lakshmi | 9 |
| 12 | 1853712 | A.Swathi | 10 |
| 13 | 1853713 | V.Sruthi | 10 |
| 14 | 1853714 | G.Anusha | 10 |
| 15 | 1853715 | N.Manipal | 10 |

K. Ramesh
Signature of the Lecturer

K. Ramesh
Signature of the H.O.D

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Department of Chemistry
Value added Course

Title: "BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY"

Feed Back Form

Name of the Student: G. Anusha
Class and Roll Number: I. Bsc [MCS] 18-714

- 1. Is the programme interested to you ✓
(Yes/No)
- 2. Have you attended all the session ✓
(Yes/No)
- 3. Is the content of the program is adequate ✓
(Yes/No)
- 4. Have the teacher covered the entire syllabus? ✓
(Yes/No)
- 5. Is the number of hours adequate? ✓
(Yes/No)
- 6. Do you have any suggestions for enhancing or reducing the number of weeks designed for the program? (Yes/No)
- 7. On the whole, is the program useful in terms of enriching your knowledge? (Yes/No)
- 8. Do you have any suggestions on the program? (Yes/No)

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Department of Chemistry
Value added Course

Title: "BASIC SEGMENTS OF ENVIRONMENTAL CHEMISTRY"

Feed Back Form

Name of the Student: N. Mani Paul
Class and Roll Number: I.MCCS, 18-715

- 1. Is the programme interested to you (Yes/No)
- 2. Have you attended all the session (Yes/No)
- 3. Is the content of the program is adequate (Yes/No)
- 4. Have the teacher covered the entire syllabus? (Yes/No)
- 5. Is the number of hours adequate? (Yes/No)
- 6. Do you have any suggestions for enhancing or reducing the number of weeks designed for the program? (Yes/No)
- 7. On the whole, is the program useful in terms of enriching your knowledge? (Yes/No)
- 8. Do you have any suggestions on the program? (Yes/No)

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Vuyyuru-521165, Krishna District, Andhra Pradesh

Value Added Course

- Attendance Register

Class / Section: IMCES

Year: 2018

Department of: chemistry

Paper:

Lecturer: K.Ramesh

| Student Name | Sl.No | Roll No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Total |
|-----------------|-------|----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|-------|
| N. Pujitha | 1 | 1853701 | P | a | P | P | P | P | P | P | P | P | P | P | P | P | P | 15 |
| R. Suthana | 2 | 1853702 | P | P | P | P | P | P | P | P | P | P | P | a | P | P | P | 15 |
| Ch. Sowmya | 3 | 1853703 | P | P | a | P | P | P | P | P | P | P | P | P | P | P | P | 15 |
| U. Sandhya | 4 | 1853704 | P | P | P | P | P | P | P | P | P | P | P | P | a | P | P | 15 |
| Sk. Shabana | 5 | 1853705 | P | P | P | P | P | a | P | P | P | P | P | P | P | P | P | 15 |
| M. Bhuvana | 6 | 1853706 | a | P | P | P | P | P | P | P | P | P | P | P | P | P | P | 15 |
| V. Venkatesh | 7 | 1853707 | P | P | P | P | P | P | P | P | P | P | P | P | a | P | P | 15 |
| P. Sree Vidya | 8 | 1853708 | P | P | P | a | P | P | P | P | P | P | P | P | P | P | P | 15 |
| V. Sai Kumari | 9 | 1853709 | P | P | a | P | P | P | P | P | P | P | P | P | P | P | P | 15 |
| J. Hari Krishna | 10 | 1853710 | P | P | P | a | P | P | P | P | P | P | P | P | P | P | P | 15 |
| J. Lakshmi | 11 | 1853711 | P | a | P | P | P | P | P | P | P | P | P | P | P | P | P | 15 |
| A. Swathi | 12 | 1853712 | P | P | P | P | P | P | P | P | P | P | P | P | a | P | P | 15 |
| V. Sowthi | 13 | 1853713 | P | P | P | P | P | P | P | P | P | P | P | a | P | P | P | 15 |
| G. Anuscha | 14 | 1853714 | P | P | P | P | P | a | P | P | P | P | P | P | P | P | P | 15 |
| N. Manipal | 15 | 1853715 | P | P | a | P | P | P | P | P | P | P | P | P | P | P | a | 15 |

K. Ramesh
Signature of the Lecturer

Signature of the HOD

K. Ramesh
Signature of the HOD

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Vuyyuru-521165, Krishna District, Andhra Pradesh

Value Added Course

- Attendance Register

Class / Section: I MCE

Year : 2018

Department of: chemistry Paper:

Lecturer: K. Ramesh

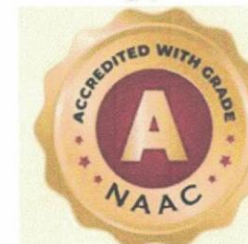
| Sl. No | Roll No | Student Name | Category | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Total |
|--------|---------|-------------------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| 1 | 1853701 | N. Pujitha. | | P | a | P | P | P | P | P | P | P | P | P | P | P | P | P | 18 |
| 2 | 1853702 | R. Sulthana. | | P | P | a | P | P | P | P | P | P | P | P | P | P | P | P | 18 |
| 3 | 1853703 | ch. soumya. | | P | P | P | a | P | P | P | P | P | P | P | P | P | P | P | 18 |
| 4 | 1853704 | U. Sandhya. | | P | P | P | P | a | P | P | P | P | P | P | P | P | P | P | 18 |
| 5 | 1853705 | SK. shabana. | | P | P | P | P | P | a | P | P | P | P | P | P | P | P | P | 18 |
| 6 | 1853706 | M. Bhuvana. | | P | P | P | P | P | P | a | P | P | P | P | P | P | P | P | 18 |
| 7 | 1853707 | V. Venkatesh. | | P | P | P | P | P | P | P | a | P | P | P | P | P | P | P | 18 |
| 8 | 1853708 | P. sree vidya. | | P | P | P | P | P | P | P | P | a | P | P | P | P | P | P | 18 |
| 9 | 1853709 | v. Sai Kumar. | | P | P | P | P | P | P | P | P | P | a | P | P | P | P | P | 18 |
| 10 | 1853710 | J. Harri Krishna. | | P | P | P | P | P | P | P | P | P | P | a | P | P | P | P | 18 |
| 11 | 1853711 | J. Lakshmi. | | P | P | P | P | P | P | P | P | P | P | P | P | a | P | P | 18 |
| 12 | 1853712 | A. Swathi. | | P | P | P | P | P | P | P | P | P | P | P | P | P | a | P | 18 |
| 13 | 1853713 | V. Sruthi | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | a | 18 |
| 14 | 1853714 | G. Anusha. | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | a | 18 |
| 15 | 1853715 | N. Manipal. | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | 18 |

K. Ramesh
Sig. of Lecturer.

K. Ramesh
Sig. of H.O.D



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(AUTONOMOUS) VUYYURU A.P
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Department of Chemistry

VALUE ADDED COURSE: Basic Segments of Environmental Chemistry

CERTIFICATE

This is to Certify that .

Son/Daughter of Shri/Smt

has Successfully completed value added course in **Basic Segments of Environmental Chemistry**
Conducted by the Department of Chemistry from 02-01-2019 to 31-01-2019 We wish him her bright future

K. Roemer
Co-ordinator

A. Rudra
Head of Department

B. Sankar
PRINCIPAL
AG & SG Siddhartha Degree College of
Arts & Science (Autonomous), Vuyyuru