

**TATKARE CHARITABLE TRUST'S  
Dr. SHREE NANASAHEB DHARMADHIKARI  
ARTS, COMMERCE AND SCIENCE COLLEGE  
ACADEMIC YEAR 2022 -2023**

**Date: 28/ 07/ 2022**


**NOTICE**

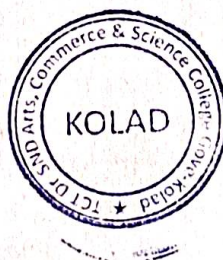
All the students are hereby informed that a **Short term- Course 2022-2023** is organized by Department of Chemistry for the purpose to clear the basics in chemistry & to improve the performance in the theory examinations. Those Students are interested for the course contact to class teacher.

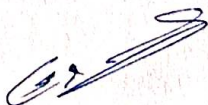
**Details of the Course are as follow:**

**Duration of Course: 1 week**

**Time of Course Lecture: 1:00 pm to 3:00 pm**

  
**Head**  
**Department Of Chemistry**



  
**PRINCIPAL**  
TCT Dr. Shree. Nanasaheb Dharmadhikari  
Arts, Commerce & Science College Gove-Kolad  
Tal. Roha, Dist. Raigad.



## SYLLABUS OF SHORT TERM - COURSE

UNIT	Content	Subtopic
Unit 1	Classification and Nomenclature of Organic Compounds .	Nomenclature of mono and bi-functional aliphatic compounds on the basis of priority order of the following classes of compounds: Alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives (acid halides, esters, anhydrides, amides), nitro compounds, nitriles and amines and their cyclic analogues.
Unit 2	Electrophile, Nucleophile, Types of organic reactions – Addition, Elimination & Substitution	(Basic terms & concepts: Homolytic and Heterolytic fission with suitable examples. Electrophiles and Nucleophiles; Nucleophilicity and basicity, Electrophilicity and acidity. Types (primary, secondary, tertiary, allyl, benzyl), Introduction to types of organic reactions: Addition, Elimination and Substitution reaction.
Unit 3	Stereochemistry, Writing conventions in the organic chemistry.	Geometrical isomerism in alkene and cycloalkanes: cis-trans and syn-anti isomerism E/Z notations .
Unit 4	Periodic table and periodicity	Long form of Periodic Table; Classification for elements as main group, transition and inner transition elements.
Unit 5	Chemical Thermodynamics  Basics in Kinetics	Thermodynamic terms; System, surrounding, boundaries, types of system, Intensive and Extensive properties, State functions and path functions, Thermodynamic processes. First law of thermodynamics: Concept of heat (q), work (w), internal energy (U), enthalpy, heat capacity, relation between heat capacities, sign conventions, calculations of heat, work, internal energy and enthalpy (H). Rate of reaction, rate constant, measurement of reaction rates, order and molecularity of reaction, Integrated rate equation of zero and first order .
Unit 6	Introduction to Analytical Chemistry	Introduction of analytical chemistry, Important terms involved in analytical chemistry, Steps involved in analysis of sample, Classification of analytical method – Titrimetry, Gravimetry, Instrumental

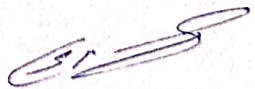


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ACADEMIC YEAR 2022 -2023**

**TIME TABLE**

Date	Time	Topic	Speaker
1/08/22	1.00 p.m. – 3.00 p.m.	Classification and Nomenclature of Organic Compounds .	Ms. Mali DD
2/08/22	1.00 p.m. – 3.00 p.m..	Electrophile, Nucleophile, Types of organic reactions – Addition, Elimination & Substitution	Ms. Mali DD
3/08/22	1.00 p.m. – 3.00 p.m.	Stereochemistry, Writing conventions in the organic chemistry.	Ms. Kirthi Radhakrishnan
4/08/22	1.00 p.m. – 3.00 p.m.	Periodic table and periodicity	Ms. Singh Pratiksha
5/08/22	1.00 p.m. – 3.00 p.m.	Chemical Thermodynamics, Basics in Kinetics	Ms. Geethu Mohan
6/08/22	1.00 p.m. – 3.00 p.m.	Introduction to Analytical Chemistry	Ms. Shelke R M


  
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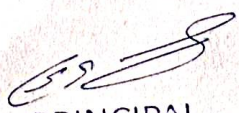
  
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**TATKARE CHARITABLE TRUST'S**  
**Dr. S.N.D ARTS, COMMERCE AND SCIENCE COLLEGE**  
**ACADEMIC YEAR 2022 -2023**  
**STUDENT LIST**

SR.No.	Name of student
1.	BAMANE AKSHAY ASHOK
2.	BARASKAR AMISHA SUDHIR
3.	PATIL ROHAN RAVINDRA
4.	SALVI NEHA HARISHCHANDRA
5.	SANAP POOJA GOVIND
6.	SHIRKE KARISHMA PRAKASH
7.	SHIRSAT PRANIT KALYAN
8.	YERUNKAR CHAITANYA AJIT
9.	ZORE OMKAR MADHUKAR
10.	AREKAR VAIDEHI SUNIL
11.	BAIT DARSHAN DATTA
12.	BALKAWADE SALONI SANTOSH
13.	BHOSALE PREM RAJKUMAR
14.	BHOSALE TEJAS NAMDEV
15.	DHAMANSE SANCHIT SANJIVKUMAR
16.	KHAIR YASH SAINATH
17.	MANTE AJAY SONU
18.	MAGAR JAGRUTI PARSHURAM
19.	WALANJ PRANIL MAHESH
20.	KOTWAL YASH RAJESH

  
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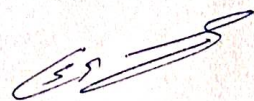
  
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**TATKARE CHARITABLE TRUST'S**  
**Dr. S.N.D ARTS, COMMERCE AND SCIENCE COLLEGE**  
**ACADEMIC YEAR 2022 -2023**  
**ATTENDANCE**

SR.No.	Name of student						
1.	BAMANE AKSHAY ASHOK						
2.	BARASKAR AMISHA SUDHIR						
3.	PATIL ROHAN RAVINDRA						
4.	SALVI NEHA HARISHCHANDRA						
5.	SANAP POOJA GOVIND						
6.	SHIRKE KARISHMA PRAKASH						
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GOVE-KOLAD, ROHA-RAIGAD**

**ACADEMIC YEAR – 2022-23**

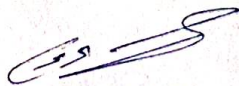
**Report of Short Term Course on Basics in Chemistry**

A short term courses on “BASICS IN CHEMISTRY” was conducted under Department of Science from 1<sup>st</sup> -6<sup>th</sup> August 2022 in TATKARE CHARITABLE TRUST DR. SHREE NANASAHEB DHARMADHIKARI ARTS, COMMERCE AND SCIENCE COLLEGE GOVE KOLAD. There were a total 20 participants. The program was inaugurated on 1<sup>st</sup> February by Hon. Principal Dr. S. S. Mundhe . The speakers of the program were 6 guider internal, namely, Ms. Shelke R. M. , Ms. Mali D. D. , Ms. Kirthi Radhakrishnan, Ms. Geethu Mohan, Ms. Singh Pratiksha .

This course helps in creating interest and clear their basic concepts of chemistry. One of the best outcome of this course is it provide an opportunity to explore new fields or industries in a lesser duration as compared to long-term courses. It boosts the skills and professional development. They enable individuals to gain exposure to different subjects, helping them identify their areas of interest or passion before pursuing further education or career transitions.

The course ended on 6<sup>th</sup> August 2022.

  
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