

**AHM's**  
**ANJUMAN ARTS, SCIENCE AND**  
**COMMERCE COLLEGE, BHATKAL**



**Add-on Course**  
**On**  
**Chemistry in daily life**

**Department of Chemistry**

**Academic Year 2021-22**

**Course Coordinator**  
**Prof. A. R. Muneeb. K**  
**Lecturer in Chemistry**

**From**

**Date: 26-05-2022**

**Prof. A. R. Muneeb. K**

Lecturer in Chemistry,

Anjuman Arts, Science and Commerce College,

Bhatkal

**To**

**The Principal**

Anjuman Arts, Science and Commerce College

Bhatkal

**Subject: Request to grant the permission to start the add-on course on Chemistry in daily life for the academic year 2021-22**

**Respected Sir,**

We would like to start the add-on course on "Chemistry in daily life" for few students who are interested in this field. Please permit us to start the Chemistry in daily life course for the academic year 2021-22.

Thanking You

**Warm Regards**



**Prof. A. R. Muneeb. K,**  
Lecturer in Chemistry



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**Date: 18-05-2022**

**NOTICE**

The Institutional Board of studies members are hereby informed to attend the meeting to be held on 21-05-2022 at 10:30 am in the principal chamber to discuss about add-on course on Chemistry.

1. Prof. Mushtaque K. Shaikh
2. Prof. S. A. Indikar
3. Prof. A. R. Muneeb K.

Chairman  
IQAC Coordinator  
Course Coordinator



**Course Co-ordinator**



**PRINCIPAL**

Anjuman Arts, Science & Commerce College  
& PG Centre  
BHATKAL 581320

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**ANJUMAN ARTS, SCIENCE AND COMMERCE COLLEGE, BHATKAL**

**Meeting Report of Institutional Board of Studies for Add-on Course on Chemistry in daily life held on:**

The Institutional Board of Studies of the Department of Chemistry for an add-on course on introduction to Chemistry in daily life held on 21-05-2022 in the principal chamber at 10:30 AM.

- 1. Prof. Mushtaque K Shaikh**  
Principal, Chairman
- 2. Prof. S.A. Indikar**  
IQAC Coordinator
- 3. Prof. A. R. Muneeb. K**  
Course Coordinator

In the beginning of the meeting the Chairman of BoS: Prof. Mushtaque K Shaikh welcomed all the members and briefed them about the academic activity of the Chemistry in daily life course. The members expressed their appreciation and satisfaction about the activities of the department.

After that institutional BoS discussed and resolved the following points:

**1. Starting of the add-on course on the introduction to Chemistry in daily life**

BoS discussed the point and resolved to start a course on Chemistry in daily life in order to improve the knowledge of Acids and Bases, Organic Chemistry and Carbon Compounds, Chemical Reactions, Polymers and Materials Science etc.

**2. Approval of the syllabus for add-on course**

The BoS discussed and approved the syllabus for the add-on course on Chemistry in daily life.

**3. Approval of admission criteria.**

The BoS discussed and approved the admission criteria and resolved that the students who are interested in the arena of Chemistry in daily life can enroll in this course.

The meeting of the BoS was concluded with the vote of thanks by the Prof. A. R. Muneeb. K, Lecturer in Chemistry.

The following members were present in the meeting:

- 1. Prof. Mushtaque K Shaikh**
- 2. Prof. S.A. Indikar**
- 3. Prof. A. R. Muneeb. K**



  
**Principal**  
**PRINCIPAL**  
Anjuman Arts, Science & Commerce College  
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BHATKAL - 581 320

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**NOTICE**

Date: 30-05-2022

**Add-on Course on "Chemistry in daily life"**

All the students are hereby informed that the Department of Chemistry is starting an **add-on course** on **"Chemistry in daily life"** for the students, **from 05-06-2022**. Interested students can enroll their names **on or before 02-06-2022** to **Prof. A. R. Muneeb. K.**

  
**Course Coordinator**  
**(Prof. A. R. Muneeb. K)**



  
**Principal**  
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**ENROLLMENT LIST**

| S/N | REG. NO  | NAMES                        | SIGNATURE |
|-----|----------|------------------------------|-----------|
| 1   | 19S16701 | Abhishek Laxman Devadig      |           |
| 2   | 19S16702 | Akshata Manjunath Naik       |           |
| 3   | 19S16703 | Chandrasah Narayan Shetty    |           |
| 4   | 19S16704 | Chitra Timmayya Naik         |           |
| 5   | 19S16705 | Dhanush Ramadasa Moger       |           |
| 6   | 19S16706 | Dhanyashree G. Moger         |           |
| 7   | 19S16707 | Fatima Fiza                  |           |
| 8   | 19S16708 | Felcy Saver Dsouza           |           |
| 9   | 19S16709 | Ganesh Somayya Gond          |           |
| 10  | 19S16710 | Gayatri Manjunath Moger      |           |
| 11  | 19S16711 | Hemant Anand Poojari         |           |
| 12  | 19S16712 | Kavya Narayan Naik           |           |
| 13  | 19S16713 | Kiran Govind Gond            |           |
| 14  | 19S16714 | Kusuma                       |           |
| 15  | 19S16715 | Lavanya Naik                 |           |
| 16  | 19S16716 | Nagaraj Janardhan Harikantra |           |
| 17  | 19S16717 | Nagendra Venkatraman Naik    |           |
| 18  | 19S16718 | Nahdiya Nazish Jukka         |           |
| 19  | 19S16719 | Nayana Ananta Moger          |           |
| 20  | 19S16721 | Poornima Nagappa Gond        |           |
| 21  | 19S16723 | Ramesh Ganapati Naik         |           |

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Add-on course on Chemistry in daily life

Time Table for the academic year 2021-22

| Days                 | Timings                           | Room No. |
|----------------------|-----------------------------------|----------|
| Saturday to Thursday | 2:30 P.M. to 4:30 P.M.<br>(2 hrs) | 09       |

  
Course Coordinator

  
IQAC Coordinator

  
Principal



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**Chemistry in daily life Add-on Course 2021-22**

| <b>COURSE CONTENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <b>30 HOURS</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|
| <b>UNIT-1: Acids and Bases</b><br>Understanding the properties of acids and bases is crucial in daily life, as many common household substances fall into one of these categories. For instance, vinegar (acetic acid) is a common acid used in cooking and cleaning, while baking soda (sodium bicarbonate) is a basic substance used in baking and as a cleaning agent. Learning about pH and how it affects the behavior of these substances can help you make informed choices in various applications, such as cooking, cleaning, and personal care.                                                     |  | <b>7 hours</b>  |
| <b>UNIT-2: Organic Chemistry and Carbon Compounds:</b><br>Organic chemistry deals with the study of carbon compounds, which are ubiquitous in daily life. From the food we eat to the medicines we take and the materials we use, organic chemistry plays a vital role. Understanding concepts such as functional groups, isomerism, and reactions involving organic compounds can provide insights into how products are made, how they function, and how they interact with the environment.                                                                                                                |  | <b>8 hours</b>  |
| <b>UNIT-3: Chemical Reactions:</b><br>Chemical reactions occur all around us, from the combustion of fuel in cars to the digestion of food in our bodies. Studying different types of chemical reactions, such as combustion, synthesis, decomposition, and redox reactions, can help you understand how substances transform and interact with each other. This knowledge can be applied to various aspects of daily life, including cooking, cleaning, and understanding environmental processes.                                                                                                           |  | <b>7 hours</b>  |
| <b>UNIT-4: Polymers and Materials Science:</b><br>Polymers are large molecules composed of repeating units and they are essential in the production of materials such as plastics, rubbers and fibers. Understanding polymer chemistry and materials science can help you comprehend the properties and uses of everyday items, from plastic bottles and clothing to medical devices and electronic gadgets. Additionally, studying topics like polymerization, polymer structures, and polymer properties can foster awareness of sustainability issues and the environmental impact of different materials. |  | <b>8 hours</b>  |
| This syllabus provides the concepts of all above, you can gain a deeper appreciation for the role of chemistry in your daily life and make more informed choices about the products you use and the processes you encounter.                                                                                                                                                                                                                                                                                                                                                                                  |  |                 |



**CLASS: B.Sc 6<sup>TH</sup> SEM**

**TIME: 2:30 PM TO 4:30 PM**

[illegible]

**TIME: 2:30 PM TO 4:30 PM**

|    |                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|----|---------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 13 | Kiran Govind Gond               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14 | Kusuma                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 15 | Lavanya Naik                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 16 | Nagaraj Janardhan<br>Harikantra |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 17 | Nagendra Venkatraman<br>Naik    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18 | Nahdiya Nazish Jukka            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19 | Nayana Ananta Moger             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20 | Poornima Nagappa Gond           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21 | Ramesh Ganapati Naik            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Add-on course on Chemistry in daily life

**Time Table for the Exam**

| Day                   | Timings                              | Room No. |
|-----------------------|--------------------------------------|----------|
| Thursday (23-06-2022) | 2:30 P.M. to 4:00 P.M.<br>(1 ½ Hour) | 09       |

  
Course Coordinator

  
IQAC Coordinator

  
Principal  
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Add-on Course on "Chemistry in daily life"

**Total Marks: 50**

**Duration: 1 ½ Hour**

**Section A: Multiple Choice Questions (2 marks each)**

1. Which of the following substances is commonly used as a household acid for cooking and cleaning?
  - a) Lemon juice
  - b) Table salt
  - c) Sugar
  - d) Milk
2. What is the pH value of a neutral solution?
  - a) 0
  - b) 14
  - c) 7
  - d) -1
3. Which of the following functional groups is characteristic of alcohols?
  - a) Carbonyl group
  - b) Hydroxyl group
  - c) Amino group
  - d) Carboxyl group
4. What type of chemical reaction occurs when wood burns in the presence of oxygen?
  - a) Synthesis reaction
  - b) Combustion reaction
  - c) Decomposition reaction
  - d) Redox reaction

**Section B: Short Answer Questions (2 marks each)**

5. Explain the significance of understanding pH in daily life. Provide examples of how pH affects the behavior of common household substances.
6. Describe the role of functional groups in organic chemistry. Give examples of different functional groups and explain how they influence the properties of organic compounds.
7. Discuss the importance of chemical reactions in daily life. Provide examples of chemical reactions occurring in cooking, cleaning, and environmental processes.
8. Define polymerization and explain its significance in materials science. Provide examples of polymers used in everyday items and discuss their properties.
9. Compare and contrast combustion and decomposition reactions. Provide examples of each type of reaction and explain their relevance to daily life.



### Section C: Long Answer Questions (5 marks each)

10. Discuss how variations in pH affect the behavior of these substances and their applications in cooking, cleaning, and personal care.
11. Provide examples of functional groups found in common organic compounds and explain their influence on the functionality of these compounds in various applications.
12. Describe the different types of chemical reactions encountered in daily life, such as combustion, synthesis, decomposition, and redox reactions.

### Section D: Practical Application (2 marks)

13. Case Study: Maria is a chemist working for a cleaning product manufacturing company. Her task is to develop a new all-purpose cleaning solution that effectively removes grease and grime from various surfaces while being environmentally friendly. She decides to incorporate her knowledge of chemistry concepts into the formulation process.

### Section E: Final Project Evaluation (15 marks)

14.

- a) **Choose a Problem:** Pick a problem you encounter in daily life that can be solved using chemistry principles.
- b) **Understand the Concepts:** Learn about acids and bases, organic chemistry, chemical reactions, and polymers and materials science. These will help you find a solution.
- c) **Propose a Solution:** Come up with an innovative solution to your chosen problem using what you've learned in chemistry.
- d) **Plan Implementation:** Outline how your solution will work. What materials will you need? What steps will you take?
- e) **Predict Outcomes:** Think about what you expect to happen when your solution is put into action.
- f) **Present Your Findings:** Summarize your project in a report or presentation. Make sure it's clear and organized.

**Note:** Answer all questions. Write your answers clearly and concisely. Good luck!



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Chemistry in daily life Add-on Course 2021-22

Marks List

| S/N | NAMES                        | MARKS<br>OBTAINED |
|-----|------------------------------|-------------------|
| 1   | Abhishek Laxman Devadig      | 45                |
| 2   | Akshata Manjunath Naik       | 47                |
| 3   | Chandahas Narayan Shetty     | 46                |
| 4   | Chitra Timmayya Naik         | 46                |
| 5   | Dhanush Ramadasa Moger       | 45                |
| 6   | Dhanyashree G. Moger         | 47                |
| 7   | Fatima Fiza                  | 48                |
| 8   | Felcy Saver Dsouza           | 49                |
| 9   | Ganesh Somayya Gond          | 48                |
| 10  | Gayatri Manjunath Moger      | 46                |
| 11  | Hemant Anand Poojari         | 46                |
| 12  | Kavya Narayan Naik           | 47                |
| 13  | Kiran Govind Gond            | 45                |
| 14  | Kusuma                       | 47                |
| 15  | Lavanya Naik                 | 46                |
| 16  | Nagaraj Janardhan Harikantra | 45                |
| 17  | Nagendra Venkatraman Naik    | 47                |
| 18  | Nahdiya Nazish Jukka         | 48                |
| 19  | Nayana Ananta Moger          | 50                |
| 20  | Poornima Nagappa Gond        | 48                |
| 21  | Ramesh Ganapati Naik         | 47                |

  
Course coordinator



  
Principal  
**PRINCIPAL**  
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BHATKAL - 581 320



# CERTIFICATE

## A.H.M.s

**ANJUMAN ARTS, SCIENCE AND COMMERCE COLLEGE**

Anjumanabad, Bhatkal 581320, Uttara Kannada, Karnataka

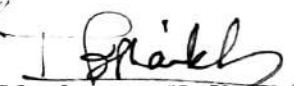
Accredited at 'B' Level by NAAC

This is to certify that Mr/Miss FATHIMA FIZA with register No.  
195/16707 has successfully completed Add-On Course on Chemistry in Daily Life  
during 05-06-2022 to 21-06-2022 and secured A grade.



  
Prof. A.R. Muneeb  
Course Co-Ordinator

  
Prof. S.A. Indikar  
IQAC Co-Ordinator

  
Prof. Mushtaque K. Shaikh  
Principal  
Anjuman Arts, Science & Commerce College  
& P.G. Centre  
Bhatkal-581320



# CERTIFICATE

## A.H.M.s

**ANJUMAN ARTS, SCIENCE AND COMMERCE COLLEGE**  
Anjumanabad, Bhatkal 581320, Uttara Kannada, Karnataka

Accredited at 'B' Level by NAAC

This is to certify that Mr/Miss KIRAN GOVIND GOND with register No.  
19516714 has successfully completed Add-On Course on Chemistry in Daily Life  
during 05-06-2022 to 21-06-2022 and secured B+ grade.



Prof. A.R. Muneeb  
Course Co-Ordinator

Prof. S.A. Indikar  
IQAC Co-Ordinator

Prof. Mushtaque K. Shaikh  
Principal

ANJUMAN ARTS, SCIENCE & COMMERCE COLLEGE  
& P.G. Centre  
BHATKAL-581320

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**Report and Outcome Analysis**

**Name of the Course: Chemistry in daily life**

**Name of the Department: Chemistry**

**Number of students enrolled: 19**

**BoS meeting Date: 21-05-2022**

**Start Date of the Course: 05-06-2022**

**End Date of the Course: 21-06-2022**

Department of Chemistry has conducted add-on course on Chemistry in daily life for the Students who are interested in this area of knowledge from 05-06-2022 to 21-06-2022

The course was about "to gain a deeper appreciation for the role of chemistry in daily life and make more informed choices about the products we use" etc.

19 students were enrolled in this course and they were benefited with the fundamental knowledge of Chemistry in daily life. Students also applied these skills and concepts during the required.

Course concluded with final examination and certificate distribution.

**Outcomes of the Course:**

Learning outcomes reflect the practical skills and gaining knowledge by studying the concepts of acids and bases, organic chemistry, carbon & its compounds, chemical reactions, polymers and materials science outlined in the syllabus.

