



Government Degree College

Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013 Email.ID :Paderu.jkc@gmail.co



Department of Chemistry Certificate Course

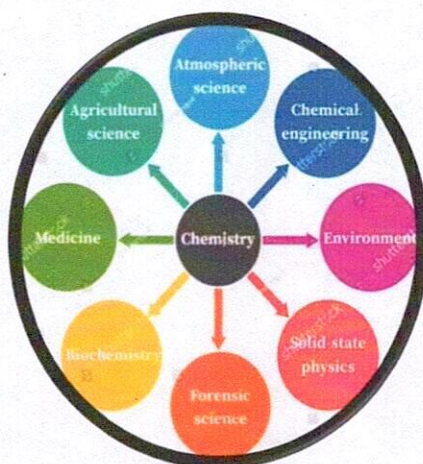
Academic Year: 2022-23

DURATION: ONE MONTH

ALL STUDENTS ARE ELIGIBLE

Name of the course: Chemistry in day to day life

Course coordinator: CH.ANTHA





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Proposal for Certificate course in "Chemistry in Day to Day life" Date: 21/7/2022
Academic year 2022-2023

From
The course Coordinators
Dept of Chemistry
Govt. Degree college
Paderu.

To
The principal
Govt. Degree college
Paderu.

Sir,

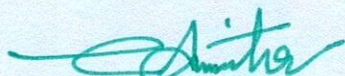
Sub: Proposal for starting Certificate Course in Chemistry in Day to Day life to B.A,
B.Sc., B. Com, students of our college-Request regarding.

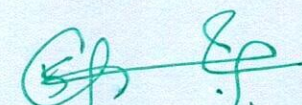
Our department of Chemistry is planning to start a certificate Course in "Chemistry in Day to Day life" to the students of all groups choosing 15 among them. This course can enhance the ability to prevent complex ideas in a clear and concise manner and chemistry is a dynamic field, so stay curious and be open to continuous learning throughout career.

In this regard we humbly request your esteemed self to conduct staff council meeting for discussing the syllabus and course outcomes.

Thanking you sir,

Name of the certificate program: **Chemistry in Day to Day life**
Course Coordinator : **Ch. Anitha**


Course Coordinator


IQAC Coordinator


principal



Principal
Govt. Degree College
PADERU 534 024
Alluri Sitharama Raju-Dist.



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Department of Chemistry

Detailed objectives of Certificate Course in Chemistry in day to Day life for all B.A., B.Sc., B.Com.,

Title : Chemistry in Day to Day life
Eligibility : all under graduate students of our college
Duration : 30 days/40 hrs.
Syllabus : as given below
System of assessment: internal.

Introduction:

We human beings are knowingly or unknowingly surrounded by chemistry. Morning to night, life to death, it is a big aspect of our day to day life. One may think that it is a branch of science that deals with chemicals in the lab only but unknowingly we are applying it in daily works. We find its use in the food we eat, cleaning chemicals, the air we breathe and every object we touch. Literally, student's chemistry education takes place in lectures and books, lab playing with instruments and chemicals and they don't see the relevance in their everyday life. Understanding the importance of chemistry in our regular life is most important in our technological and competitive society. It also helps to understand the world issues arising currently. One might get surprised when we say that our body is made of chemical elements and compounds so we can say we are the products of chemistry.

In this exploration of chemistry in day to day life, we will delve into various facets of this science that touch our routines, habits, and choices. From the chemical reactions that occur during cooking to the composition of household products, and from the impact of chemistry on our health to its role in environmental challenges, the relevance of chemistry is both broad and profound. By appreciating the connections between the molecular level and the macroscopic world, we can gain a deeper insight into the mechanisms that govern the phenomena we encounter every day.

This journey into the chemistry of our daily lives will shed light on how chemical principles influence our choices, inform our behaviors, and contribute to the development of the technologies and innovations that define the modern world. So let's embark on this exploration, unraveling the threads of chemistry woven into the fabric of our existence and discover the extraordinary in the ordinary.

Objectives:

- + Understanding everyday products such as household cleaners, personal care items, and food additives.
- + To gain insights into the chemistry of pharmaceuticals, enabling individuals to understand how medications work, potential side effects, and the importance of adherence to prescribed regimens.
- + To raise awareness about the impact of chemical processes on the environment, including issues such as pollution, waste disposal, and sustainable practices.

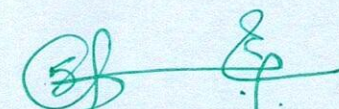
Syllabus:

- + **Introduction to Chemistry in Day to Day life**
 - Overview of Chemistry and its Relevance
 - The Scientific method in everyday problem solving.
- + **Chemistry of Household products**
 - Chemistry Composition of Cleaning Agents
 - Understanding personal care products and consumers
 - Food additives and preservatives.
- + **Health and Medications**
 - Chemistry of pharmaceuticals
 - Drug interactions and side effects
 - Personal health and wellness.
- + **Environmental Chemistry in Day to Day life**
 - Air Quality and pollution
 - Water chemistry and treatment
 - Waste management and Recycling
- + **Sustainable practices and Consumer Awareness**
 - Sustainable living and Eco-friendly choices
 - Consumer awareness and reading product labels

REFERENCE BOOKS:

1. Introductory chemistry-1st Canadian edition. Authors: David W. Ball and Jessie A. Key.
2. Practical Environmental Analysis, Miroslav Radojevic and Vladimir N. Bashkin.
3. Green techniques for organic synthesis and medicinal chemistry, Zhang, Wei, Cue, Berkeley W.,
4. World report on Knowledge for better health strengthening health systems, world health organization, ProQuest(firm).
5. Green Technologies in food production and processing, springer link(online service).


Course Coordinator


IQAC Coordinator


principal



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Course Outcomes:

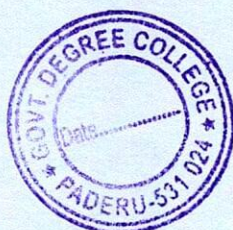
Studying chemistry in day to day life can yield various outcomes that enhance individuals understanding of the world around them. Here are some key outcomes.

- ❖ Participants develop the ability to make informed decisions about the products they use, the food they consume, and the substances they interact with, based on an understanding of chemical properties and potential effects.
- ❖ Individuals gain a heightened awareness of safety practices in the home, workplace, and community, reducing the risk of accidents and minimizing exposure to harmful substances.
- ❖ Participants increase their health literacy by understanding the chemistry of pharmaceuticals, recognizing potential drug interactions and side effects, and making informed decisions about personal health and wellness.
- ❖ Individuals become more environmentally conscious, understanding the impact of chemical processes on the environment and adopting sustainable practices in daily life.
- ❖ Individuals adopt practices that contribute to waste reduction, recycling, and overall environmental sustainability, contributing to a more responsible and eco-friendlier lifestyle.
- ❖ Individuals enhance their communication skills by effectively conveying complex chemical concepts in a clear and understandable manner, enabling them to discuss scientific topics within their community.
- ❖ Participants develop a curiosity and passion for continuous learning, staying informed about scientific advancements and appreciating the dynamic nature of the field of chemistry.
- ❖ Participants apply theoretical knowledge gained in the course to practical, real-life situations, bridging the gap between academic understanding and the application of chemistry in everyday scenarios.
- ❖ These outcomes collectively contribute to a more scientifically literate and responsible society, where individuals are equipped to navigate the chemical aspects of their daily lives and actively contribute to creating a safer, healthier, and more sustainable environment.


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DEPARTMENT OF CHEMISTRY

Minutes of the Meeting

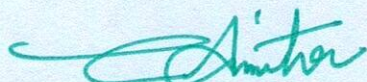
The following are the minutes of the meeting is held on 23/7/2022 for starting a certificate course in "Chemistry in Day to Day life" for B. A, B.COM, B.SC students for the academic year **2022-2023**.

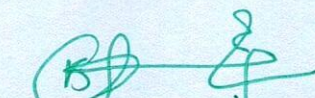
The following minutes have been discussed and resolved unanimously.

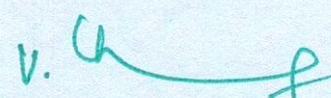
1. It is proposed to start a certificate course in "Chemistry in Day to Day life" for the students of B.A, B.COM, B.Sc. during the academic year 2022-2023.
2. It is proposed to endorse Kum Chintha Anitha and Smt Vijaya Lakshmi as course coordinators.
3. It is suggested to the coordinators to enroll maximum number of students for the certificate course.
4. It is also discussed to use Virtual class room and other equipment to teach in an easyway.
5. It is also discussed how we can motivate the students towards the course.

Members of the committee during minutes

1. M. A. Raju
2. S. Chintha Anitha
3. Smt. Vijaya Lakshmi
4. P. C. ...
5. ...


Course Coordinator


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DEPARTMENT OF CHEMISTRY

Date: 26/7/2022

CIRCULAR

Sub: Certificate Program for the academic year 2022-2023

The Department of Chemistry is planned to conduct the certificate program for BA, B.COM, B.Sc. students. The certificate course which are designed and offered by our department for the benefit of the students. Course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course. Students those who are willing to attend the certificate course can enrol their names to the course coordinator.

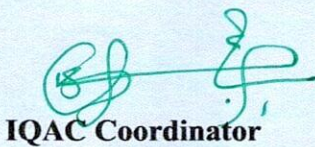
Name of the certificate Program: Chemistry in Day to Day life

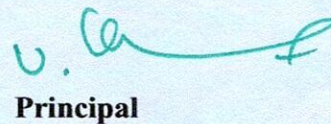
Course Coordinator : Chintha Anitha

Commencement of the course from 1/8/22 to 31/8/22

Time : 9.00 am to 10.00


Course Coordinator


IQAC Coordinator


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DEPARTMENT OF CHEMISTRY

NAME OF THE CERTIFICATE COURSE : CHEMISTRY IN DAY TO DAY LIFE

ACADEMIC YEAR: 2022-23

List of Students enrolled for the Course

Sl.No	Regd.No	NAME OF THE CANDIDATE	GROUP	SIGNATURE
1	720125405002	B. HARINADH	III MPC	B. HARINADH
2	720125405009	G. ANIL KUMAR	III MPC	G. Anil Kumar
3	720125405015	K. KAMA RAJU NAIDU	III MPC	K. Kama Raju
4	720125405022	K. SANDEEP	III MPC	K. Sandeep
5	720125405028	P. PRASAD	III MPC	P. PRASAD
6	720125405035	V. VENKATA RAO	III MPC	V. VENKATA RAO
7	720125405044	G. ARUN KUMAR	III MPCs	P. PRASAD
8	720125405050	K. SURESH	III MPCs	K. Suresh
9	720125405057	K. MAHESH BABU	III MPCs	K. Mahesh Babu
10	720125405066	P. CHINNAYYA DORA	III MPCs	P. Chinnayya Dora
11	720125405072	S. TEJA	III MPCs	S. Teja
12	721125405002	B. MODAKONDAMMA	II MPC	B. modhakondamma
13	721125405010	J. SRIDEVI	II MPC	J. sridevi
14	721125405017	K. BHASKAR RAO	II MPC	K. Bhaskar Rao
15	721125405023	K. CHANTI BABU	II MPC	K. Chitti Babu
16	721125405029	M. NAGARJUNA	II MPC	M. Nagaraju
17	721125405035	R. MANOHAR RANI	II MPC	R. manohar Rani
18	721125405040	S. SUNIL KUMAR	II MPC	S. SUNIL KUMAR
19	721125405047	B. BHADRAGIRI	II MPCs	B. Bhadragir.
20	721125405055	E. SIMHACHALAM	II MPCs	E. Simhachalam
21	721125405063	K. RAVINDRA	II MPCs	K. Ravindra
22	721125405069	M. ARUNA KUMARI	II MPCs	M. Aruna Kumari
23	721125405076	P. SYAM SUNDAR DORA	II MPCs	P. Syam Sundar Rao
24	721125405084	SK. MOHEMMAD KHAIF	II MPCs	SK. MOHEMMAD KHAIF
25	721125405193	B. RAVI TEJA KUMARI	II MP WEB TECH	B. Ravi Teja Kumari
26	721125405202	K. BALDEV	II MP WEB TECH	K. Baldev
27	721125405211	S. GAYATRI JOSHI	II MP WEB TECH	S. Gayatri Joshi
28	720125405080	G. GAYATRI	III CBZ	G. GAYATRI
29	720125405086	K. RADHA KRISHNA	III CBZ	K. RADHA KRISHNA

30	720125405092	M. MALLIKA	III CBZ	M. Mallika
31	720125405100	P. SURYA PRAKASH	III CBZ	P. Surya Prakash
32	720125405106	T. CHINNARI	III CBZ	T. Chinnari
33	720125405112	Y. PURNA RAO	III CBZ	Y. Purna Rao
34	720125405118	D. BHUMIKA	III BZH	D. Bhumika
35	720125405124	K. RAVALI	III BZH	K. RAVALI
36	720125405130	M. NAVEEN	III BZH	M. Naveen
37	720125405137	P. BALA KRISHNA	III BZH	P. Bala Krishna
38	720125405143	S. PUJASRI	III BZH	S. Pujasri
39	720125405149	V. VENUGOPALA NAIDU	III BZH	V. Venugopala Naidu
40	721125405092	G. DEVI	II CBZ	G. DEVI
41	721125405099	K. DIVYA	II CBZ	K. Divya
42	721125405105	L. UDAY KIRAN	II CBZ	L. Uday Kiran
43	721125405111	M. VENKATA RAO	II CBZ	M. Venkata Rao
44	721125405117	P. PARAMESH	II CBZ	P. PARAMESH
45	721125405123	S. VAMSI KIRAN	II CBZ	S. Vamsi Kiran
46	721125405130	S. SUMANTH	II CBZ	S. Sumanth
47	721125405136	B. RAVI CHANDU	II BZH	B. Ravi Chandu
48	721125405142	G. GANESH	II BZH	G. Ganesh
49	721125405148	K. MOUNIKA	II BZH	K. Mounika
50	721125405154	K. PARAMESWARI	II BZH	K. Parameswari
51	721125405160	M. PRASANTH KUMAR	II BZH	M. Prasanth Kumar
52	721125405166	P. VENKATESH	II BZH	P. Venkatesh
53	721125405172	R. DEVADASU	II BZH	R. Devadasu
54	721125405178	S. LAKSHMI MADHU KIRAN	II BZH	S. L. Madhukiran
55	721125405186	V. BHARATHI	II BZH	V. Bharathi
56	721125405218	J. GANGA BHAVANI	II CB SEED TECH	J. Gangabhavani
57	721125405224	K. ANAND	II CB SEED TECH	K. Anand
58	721125405230	M. RAVI	II CB SEED TECH	M. Ravi
59	721125405236	R. SAI KUMAR	II CB SEED TECH	R. Saikumar
60	721125405243	V. SUSEELA	II CB SEED TECH	V. Suseela
61	120125403002	CH. JAYAMMA	III B.Com(GEN)	CH. JAYAMMA
62	120125403008	J. SANTOSH	III B.Com(GEN)	J. Santosh
63	120125403015	K. SAI RAM	III B.Com(GEN)	K. Saikumar
64	120125404002	B. ASWANTH	III B.Com (VOC)	B. Aswanth
65	120125404008	G. KUSALA RAMA SWAMY	III B.Com (VOC)	G. Kusala Rama Swamy
66	120125404015	K. UDAY KUMAR	III B.Com (VOC)	K. Uday Kumar
67	120125301002	A. MAHESH BABU	III HEP	A. Mahesh Babu
68	120125301009	B. SUNITHA	III HEP	B. Sunitha
69	120125301015	G. BABUJI NAIDU	III HEP	G. Babuji Naidu
70	120125301074	B. SANTOSH KUMAR	III SPL. ENG	B. Santosh Kumar
71	120125301080	G. PRAKASH	III SPL. ENG	G. Prakash
72	120125301087	U. MADHU SAGAR	III SPL. ENG	U. Madhu Sagar
73	120125301110	A. VARALAKSHMI	III SPL. TEL	A. Varalakshmi
74	120125301115	K. ONADI	III SPL. TEL.	K. Onadi
75	120125301120	K. ANANDA RAO	III SPL. TEL	K. Anandharao


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 PADERU 534 024
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Certificate program Assessment test

Name of the course: Chemistry in Day to Day life

Date: 31/08/22

Academic year: 2022-2023

Time: 2.00 hrs.

I. Answer the following questions with appropriate answer. (25×2=50)

Max.marks: 50M

1. 1. What is Chemistry?
2. Why is Chemistry Important?
3. Write a short note on atom and element.
4. Write a short note on molecule and compounds.
5. How can scientific method help you in your daily life?
6. What is chemical cleaning?
7. What are the main ingredients of cleaning agents?
8. What should you know about personal care products?
9. What are the classification of personal care products?
10. What are food additives and preservation?
11. What are the 5 main food additives?
12. Which subject comes under pharmaceutical chemistry?
13. What is scope of pharmaceutical chemistry?
14. What are the 3-common drug interactions?
15. What are the side effects of drug?
16. What are the applications of environmental chemistry?
17. What are the 7 methods of water treatment?
18. What is waste management and recycling techniques?



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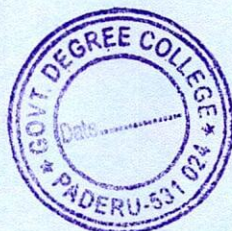


19. What is a sustainable ecofriendly life style?
20. What is eco system for sustainable living?
21. What are five ecofriendly habits?
22. Why is it important for consumer to read product labels?
23. What are the 4 types of labelling?
24. What are two purposes of product labels?
25. What are the benefits of product labels?

Course coordinator

IQAC Coordinator

Principal



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DEPARTMENT OF CHEMISTRY

Test Analysis Report

Name of the course: Chemistry in Day to Day life

Name of the Course Coordinator: Chintha Anitha

Academic Year: 2022-2023

The Department of Chemistry offered Certificate course to students of all disciplines. We provided a syllabus to the students and covered all of the syllabus. The overall course duration was 40 hrs and the attendance of the students was recorded.

I confirmed that all the students for this certificate course actively attended and performed well. We conducted an exam and the eligible students received certificates.

Course coordinator

IQAC Coordinator

Principal



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Alluri Sitharama Raju-Dist.

STUDENT ATTENDANCE REGISTER 01/08/22 To 31/08/22

[illegible]

STUDENT ATTENDANCE REGISTER

01/08/22 TO 31/08/22

[illegible]

STUDENT ATTENDANCE REGISTER

01/08/22 TO 31/08/22

[illegible]

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Govt. Degree College

PADERU 534 024

Auri Siharama Kajur-Dist.



GOVERNMENT DEGREE COLLEGE, PADERU

(Upgraded to Model Degree College under RUSA 2.0)

ALLURI SITARAMA RAJU DISTRICT, A.P-531024.

Affiliated to Andhra University.



CERTIFICATE OF COMPLETION

This is to certify that K.SANDEEP Regd.No 720125405022 of **GOVERNMENT DEGREE COLLEGE, PADERU** has completed his/her one month CERTIFICATE COURSE on "**CHEMISTRY IN DAY TO DAY LIFE**" from **01/08/2022 to 31/08/2022**, organised by the **DEPARTMENT OF CHEMISTRY**.

The overall performance of an **INDIVIDUAL** during his /her **ENTIRE COURSE** is found to be Satisfactory. He /She obtained A+ Grade.

COURSE COORDINATOR

PRINCIPAL
Principal
Govt Degree College
PADERU 534 024

Attn: Stationing Dept. Dist.



GOVERNMENT DEGREE COLLEGE, PADERU



(Upgraded to Model Degree College under RUSA 2.0)

ALLURI SITARAMA RAJU DISTRICT, A.P-531024.

Affiliated to Andhra University.

CERTIFICATE OF COMPLETION

This is to certify that K.PARAMESWARI Regd.No 721125405154 of **GOVERNMENT DEGREE COLLEGE, PADERU** has completed his/her one month CERTIFICATE COURSE on "**CHEMISTRY IN DAY TO DAY LIFE**" from **01/08/2022 to 31/08/2022**, organised by the **DEPARTMENT OF CHEMISTRY**.

The overall performance of an **INDIVIDUAL** during his /her **ENTIRE COURSE** is found to be Satisfactory. He /She obtained A+ Grade.

COURSE COORDINATOR

PRINCIPAL

Principal

Govt. Degree College

PADERU 534 024

Alluri Sitarama Raju-Dist.