



Nallamuthu Gounder Mahalingam College, Pollachi (Autonomous)

NAAC Accredited and Affiliated to Bharathiar University

21PCY3V01 - CHEMISTRY IN HOUSEHOLD PRODUCTS

(A value added course offered by Post Graduate Department of Chemistry)

Offered to: **Students of all streams**

Total Hours: **30Hrs**

Semester of offering: **Even**

MISSION

Provide acquaintance to create healthy, high quality and most accessible personal care and household products for the society by using pure and simple eco-friendly ingredients.

VISION

To become a leading entrepreneur in manufacturing safe and environmentally conscious personal care and household products.

Scope

- ☐ Students will be familiar with the different exposure of chemicals used in day to day life such as Cleaning agents, surfactants and Insect repellent one can design and practice ecofriendly cosmetics of their own.
- ☐ Students will get worldwide opportunity to study household products.
- ☐ Students have the opportunity to undertake an optional placement and enhance their entrepreneur skill by offering valuable experience

Objectives

- To provide knowledge of household products to address the needs of chemical industry
- Able to synthesize house hold Cleaning agents, formulation of cosmeceuticals and hygiene products.
- To enhance student sense of enthusiasm for chemistry and to involve them in an intellectually stimulating experience of learning in a supportive environment.
- To impart knowledge on marketing approaches on studying consumer need, need gaps and global markets.

Course Outcomes

- To acquire basic information about the possibilities and limitations of household products, their importance and marketing.
- To familiarize the authorized ingredients for household products, their origin, chemical nature and importance.
- Develop new innovations in Chemical, pharmaceutical, cosmetics and allied chemical industries and successfully implement them at an industrial scale.

Contact Details:

Dr. V. Prabhu	Email Id: Prabhunmr@gmail.com	Mobile Number: 9487361663
Mrs. K. Vimala Devi	k.vimala83@gmail.com	9865222985
Mrs. R. Mini	minichem1990@gmail.com	9952602887

Course fee: Rs. 350/- Class time: 4.00pm to 5.00 pm Course starts on 16.03.2022

Course admission: first week of March 2022

Programme code:	M.Sc.	Programme Title :		Master of Chemistry	
Course Code:	21PCY3V01	Value added course Chemistry in Household Products		Batch	2021-2023
Lecture Hrs/Week:	2	Total Hrs/Sem	30	Semester	III
				Credits:	2

Course Objectives

- * To provide knowledge of household products to address the needs of chemical industry.
- * Able to synthesize house hold Cleaning agents, formulation of cosmeceuticals and hygiene products.
- * To enhance student sense of enthusiasm for chemistry and to involve them in an intellectually stimulating experience of learning in a supportive environment.
- * To impart knowledge on marketing approaches on studying consumer need, need gaps and global markets.

Employability

- * To provide worldwide opportunity to study household products.
- * Students have the opportunity to undertake an optional placement and enhance their entrepreneur skill by offering valuable experience.

Advantages

Students will be familiar with the different exposure of chemicals used in day to day life such as Cleaning agents, surfactants and Insect repellent one can design and practice ecofriendly cosmetics of their own.

Course Outcomes

- * To acquire basic information about the possibilities and limitations of household products, their importance and marketing.
- * To familiarize the authorized ingredients for household products, their origin, chemical nature and importance.
- * Develop new innovations in Chemical, pharmaceutical, cosmetics and allied chemical industries and successfully implement them at an industrial scale.

Units	Content	Hrs
Unit I	Cleaning agents: Introduction, synthesis and applications of Natural cleaning agents, cleaning action, Floor cleaner, Toilet Cleaner, Bathroom Cleaner and Kitchen Cleaner.	8
Unit II	Detergents and surfactants: Introduction; Different terms used in detergents; Raw materials for detergents; Washing action of detergents; Types of detergents; Introduction of surfactants; Types of surfactants. Basic raw materials, preparation and uses of Hair dye, Handmade herbal Soap, Herbal tooth powder, Phenyl making.	12
Unit III	Insect repellent- Effectiveness, safety issues-humans and toxicity for other animals. Common insect repellent-synthetic insect repellents, natural insect repellents and insect repellent from natural sources and less effective methods. Alternatives to repellent.	10
	Total Contact Hrs	30

Pedagogy and Assessment Methods:

Power point Presentations, Group discussions, Seminar, Quiz, Assignment, Experience Discussion, Brain storming activity and Case study.

21PCY3V01

Text Book

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS EDITION	YEAR OF PUBLICATION
1	Gaurav Kumar Sharma, Jayesh Gadiya Meenakshi Dhanawat,	Textbook of Cosmetic Formulations	Kbuuk publications	2018
2	Perry Romanowski RandySchueller,	Beginning Cosmetic Chemistry	Allured Pub Corp, 3rd Edition	1973
3	Giriraj Prasad	Manufacture of perfumes, cosmetics and detergents	Small Industry Research Institute	1978
4	Vogel, Bassett, Jeffrey, Mendam, Denney	Vogel's text book of Qualitative Chemical Analysis	Longman ELBS Edition	1994

Reference Books

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Stocchi. E	Industrial Chemistry, Vol -I,	Ellis Horwood Ltd. UK.	1990
2	Jain. P.C. and Jain	Engineering Chemistry.	Dhanpat Rai Publishing Company. 15 th edition	2013
3	Sharma. B.K	Industrial Chemistry,	Goel Publishing House, Meerut.	2014
4	Williams. D.F	Chemistry and Technology of the Cosmetics and Toiletries Industries	Springer International Edition.	1992
5	Robert. D. Hisrion Michael P. Peters,	Entrepreneurship	Eleventh Edition	2020

Course Designed by	Verified by HoD & Module Coordinator	Checked by	Approved by
Name and Signature	Name and Signature	CDC	COE
Name: Dr.K.Poonkodi Mrs. K. Vimaladevi Mrs. R. Mini Dr.V.Prabhu Mrs.M.Anusuya 1. <i>K. Poonkodi</i> 2. <i>K. Vimaladevi</i> 3. <i>R. Mini</i> 4. <i>V. Prabhu</i> 5. <i>M. Anusuya</i> Signature:	Name: Dr.K.Poonkodi Signature:	Name: Mr.K.Srinivasan Signature:	Name: Dr.R.Manicka Chezian Signature:

Dr.K.POONKODI
HEAD
PG DEPARTMENT OF CHEMISTRY
NGM COLLEGE, POLLACHI

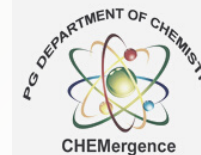
K. SRINIVASAN, M.C.A.
Co-ordinator
Curriculum Development Cell (CDC)
NGM College (Autonomous)
Pollachi - 642 001.

Dr. R.MANICKA CHEZIAN, M.Sc., M.S., Ph.D.
Controller of Examinations
NGM College (Autonomous)
POLLACHI - 642 001.



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CERTIFICATE OF COMPLETION

Value Added Course

This is to certify that **Mr. Athisheshan R, II-MSc Chemistry,**
Postgraduate Department of Chemistry, NGM College, Pollachi, has
successfully completed a **Value Added Course** entitled
"CHEMISTRY IN HOUSEHOLD PRODUCTS"

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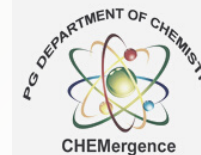


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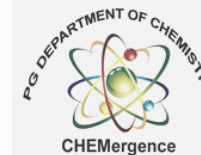


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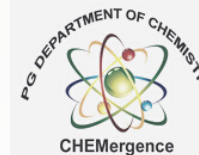


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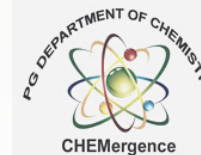


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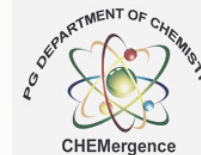


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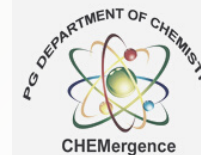


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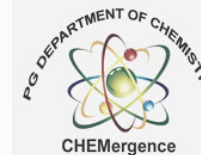


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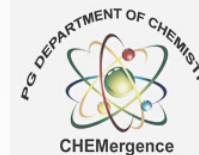


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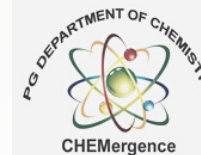


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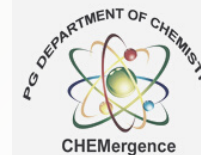


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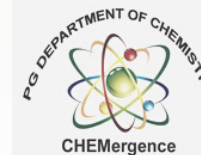


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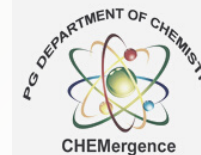


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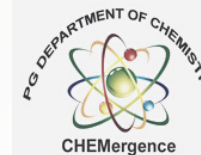


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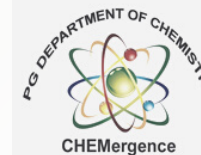


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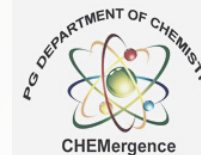


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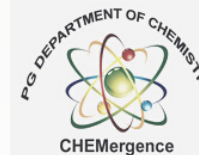


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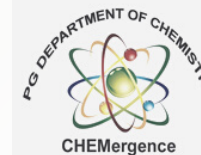


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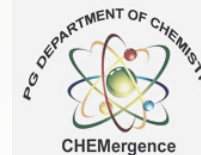


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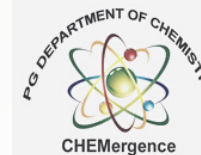


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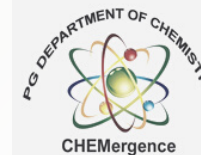


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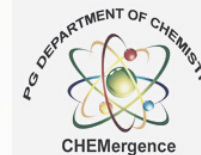


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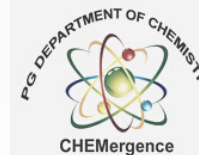


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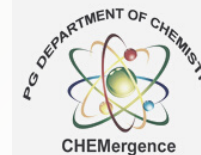


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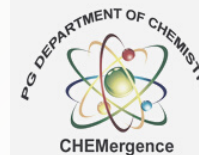


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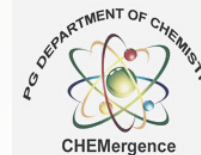


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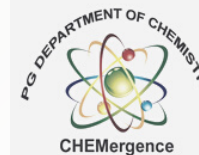


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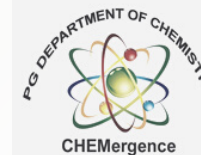


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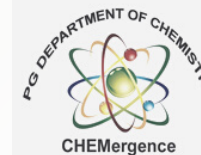


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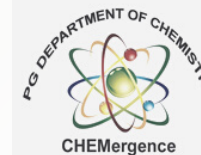


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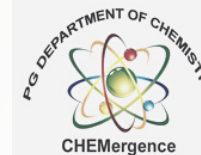


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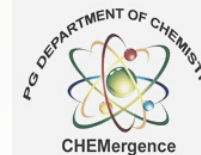


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Value Added Course

This is to certify that **Ms. Anju A K, I-MSc Chemistry,**
Postgraduate Department of Chemistry, NGM College, Pollachi, has
successfully completed a **Value Added Course** entitled
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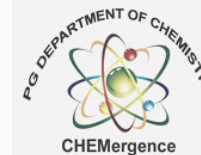


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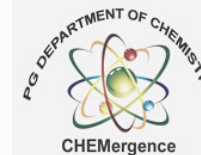


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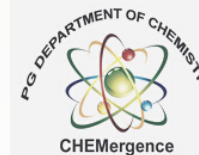


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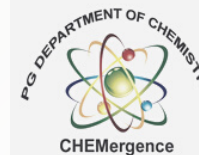


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Chemistry, Postgraduate Department of Chemistry, NGM College,
Pollachi, has successfully completed a **Value Added Course** entitled
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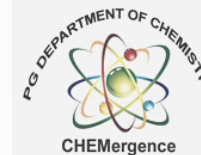


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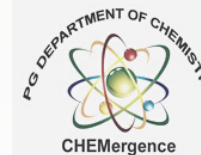


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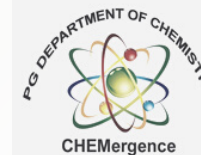


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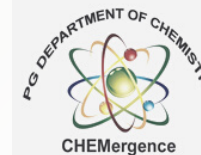


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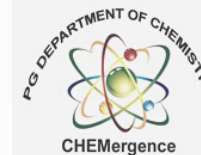


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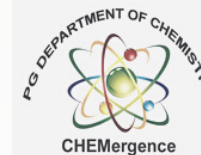


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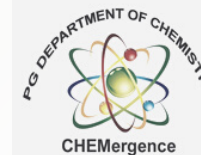


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