



Shri Vaishnav Vidyapeeth Vishwavidyalaya
Shri Vaishnav Institute of Science
Department of Chemistry
Generic Elective Course
Choice Based Credit System (CBCS)

COURSE CODE	CATEGORY	COURSE NAME	L	T	P	CREDITS	TEACHING & EVALUATION SCHEME				
							THEORY			PRACTICAL	
							END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
GUCH603	UG	Cosmetics and Perfumes	3	0	0	3	60	20	20	00	00

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit;

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives:

1. To Understand the chemical principles underlying cosmetics and perfumes.
2. To Analyze the chemical composition and properties of cosmetic and perfume ingredients.
3. To Apply knowledge of cosmetic and perfume chemistry to formulate and manufacture products.
4. To Evaluate the safety and environmental sustainability of cosmetic and perfume products and processes.

Course Outcomes:

1. Students will be able to identify and explain the chemical structure and properties of cosmetic and perfume ingredients.
2. Students will be able to analyze the chemical composition and properties of cosmetic and perfume products using various analytical techniques.
3. Students will be able to formulate and manufacture cosmetic and perfume products using various chemical ingredients and techniques.
4. Students will be able to critically evaluate the safety and environmental sustainability of cosmetic and perfume products and processes.
5. Students will be able to communicate effectively about cosmetics and perfumes through written and oral presentations.

Syllabus:

Unit I: Introduction to Cosmetics and Perfumes

1. History and evolution of cosmetics and perfumes
2. Current trends and market analysis
3. Overview of the cosmetics and perfumes industry
4. Key players and stakeholders

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GUCH603 Cosmetics and Perfumes

Unit - II Cosmetic Ingredients and Formulation

1. Types of cosmetic ingredients (natural, synthetic, organic)
2. Functions of ingredients
3. Benefits of ingredients
4. Formulation principles and techniques

Unit III: Perfume Ingredients and Fragrance Chemistry

1. Types of fragrance ingredients (essential oils, aroma compounds)
2. Fragrance chemistry and odor perception
3. Perfume formulation
4. Perfume manufacturing

Unit IV: Regulatory Frameworks and Safety Considerations

1. Importance of quality assurance in cosmetic preparation.
2. Overview of regulatory frameworks (FDA, EU, ISO), its role and significance in cosmetics and perfume industries
3. Safety considerations and risk assessment
4. Good Manufacturing Practices (GMPs)

Unit V: Trends and Opportunities in the Cosmetics and Perfumes Industry

1. Emerging trends and technologies
2. Sustainability and environmental considerations
3. Career opportunities and professional development
4. Group project and presentation

REFERENCES

1. E. Stocchi: Industrial Chemistry, Vol -I, Ellis Horwood Ltd. UK.
2. B.K. Sharma: Industrial Chemistry, Goel Publishing House, Meerut.
3. Edward Sagarin: Cosmetics: Science and Technology, Interscience Publishers, Inc., New York.
4. W. A. Poucher: Perfumes, Cosmetics & Soaps, Vol. I,II,III, Ed.: Chapman & Hall.
5. Perfumes, Flavours and Essential oil Industries –SBP Board.
6. Giriraj Prasad: Manufacture of Perfumes, Cosmetics & Detergents, 8th edition, Small industry research institute.
7. D.D.Wasule: Perfumes: History & Chemistry Vol-I.
8. Sagarin: Cosmetics: Science & Technology.
9. "Perfume and Flavor Materials of Natural Origin" by Steffen Arctander.
10. "The Chemistry and Manufacture of Cosmetics" by Michael Ash and Michael Klein.
11. "Fragrance Chemistry: The Science Behind the Scents" by Charles S. Sell.

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