**SYLLABUS FOR ADD-ON COURSE IN CHEMISTRY**

***DEPARTMENT OF CHEMISTRY***

***ST.GREGORIOS COLLEGE, KOTTARAKARA, 691531***

 **Name of course: Chemistry of Household Cleaning Products**

Total hours: 36

Theory/ Practical: 12/24hrs

**Module: 1, Introduction**

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| Content Activities  | Theory | Practical/Activities | Learning Outcome |
| Introduction | 1. Introduction to course 2. Course Syllabus 3. Expectations of students 4.Soap Making as Profession and Need 4.Learning a New Skill |  Discussion,Visual  presentation ● Introducing the  Products. ●Display of  information about  products | Awareness about the significance and scope of soap making. |
| History Of Soap Making | 1.World Soap History 2.India Soap History 3.History of soap-making? 4.Different brands and  soaps in India 5.Market trend in India |  | Knowledge of evolution of modern day soap making |
| Safety Precautions and First Aid | 1. Soap Making Safety 2. General safety  guidelines that are to be  taken while making soap? 3. Safety guidelines that are  to be taken while  handling caustic soda? | Personal protection for Hands, and Eyes while using caustic soda or any other corrosive chemicals ● Insulation and uses  of Rubber Gloves. ● How to provide first  aid: First aid course ● With co-workers and  equipment as  applicable to a task ● Good housekeeping  practices, proper  handling of materials ● Store/lay materials at  work in a safe manner | Knowledge about dangers and safety precautions what should be done when caustic soda spills in your hand and eyes. Awareness about the importance of observing safety rules while working |

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| Content Activities  | Theory | Practical/Activities | Learning Outcome |
| Introduction to household cleaning products | Description of Various products-Detergent powder, Washing soap, Dish washing powder |  | Identify, select and know the use of soap making materials |
| Preparation of Detergent Powder | Explaining the Composition of Raw materials (Washing Soda, Chilary, RP Soda, SLS, TSP,STPP, Tinopaul, Urea, Perfume and Water ) | Mixing of all the composition of raw materials and prepare the Detergent Powder | Learning the production & packaging of Detergent Powder |
| Preparation of Washing soaps | Description of Various materials used in washing Soaps | Mixing of all the composition of raw materials and prepare washing soap | Learning the production & packaging of Washing soap |
| Preparation of Dish wash powder | Description of Various materials used in Dishwash powder | Mixing of all the composition of raw materials and prepare dishwash powder | Learning the production & packaging of Dishwashing powder |

**Module 2: Household Cleaning Products**