**Department of Chemistry**

**Mary Matha Arts & Science College Mananthavady**

**Certificate Course**

**SOAP MANUFACTURING SYLLABUS**

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| **Course Code** | **Theory** | **Practical** | **Time** |
| CCSMMMCHE22 | 10 Hours | 20 Hours | 3.30 to 4.30 |

**Programme Description**

The manufacturing of soaps and detergents is a complex process that involves different activities and processes. The size and complexity of these processes and activities may range from small manufacturing plants that employ a small number of people to those with hundreds and thousands of workers. products may range from all purpose products to that are used for a specific application or requirement.

**Learning Objectives**

* Understand the chemistry in action of soap
* explain the production of soaps and detergents.
* understand the scope of small scale and large scale business

**syllabus**

1. **Cleansing action of soap (5 hours)**

cleansing agents: soaps - hard and soft soaps, alkali content, TFM, cleansing action of soap-micelles formation, Saponification, action on hard and soft water, selection of raw materials for soap manufacturing, soap manufacturing processes for different soap types, Advantages and disadvantages of soap.

1. **Cleansing action of Detergent (5 hours)**

Detergents: classification of detergents, cleaning action of detergents, detergents manufacturing process: stages involved,ingredients, chemical process-spray drying process, Agglomeration,Dry Mixing,pH of detergent powder, test for pH, advantages and disadvantages of detergent.

1. **Practical - Laboratory training for soap making (15 hours)**
2. **project (5 hours)**

manufacturing of soap