

INTERNSHIP PROGRAMME FOR UG DEGREE (SEMESTER-V)

(For the students admitted under New Curriculum and Credit Framework from the academic session 2023-24)



Course Title: Developing Useful Household Commodities (DUHC)	
Internship Providing Organization (IPO):	Department of Chemistry, Bankura Sammilani College
Category of Course:	For UG DEGREE (SEM-V)
Duration:	60 Hours
Course Coordinator and Contact Details:	Dr. Susovan Bhowmik Mob: 7431911306
Mentors:	Dr. Shantanu Hazra Dr. Mrinmoy Shannigrahi Dr. Pinaki Mandal Dr. Samaresh Ghosh Dr. Sabir Ahamed Dr. Swadesh Mandal Dr. Swapnadip Roy
Intake Capacity:	40 Students
Course Fees:	Rs. 100/- (Students from Host Institution) Rs. 400/- (Students from Other Institution)

SYLLABUS

Course Title: Developing Useful Household Commodities (DUHC) [50 Marks/2 Credits/60 Hours]

Learning Outcomes (LO)

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| <ul style="list-style-type: none"> Brief overview of household commodities and hygiene essentials. Synthesis of soap, phenyl, sanitizer and candle: theoretical aspects. Hands on training for synthesis of soap, phenyl, sanitizer and candle. Brief introduction to marketing strategies of the products. |
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Module I (Theory: 20 Hours)

Unit 1	<u>Introduction to useful house hold commodities</u> Overview of sanitization and its importance to public health. Introduction to microbes and germs: bacteria, algae, fungi, protozoa. Ill-effects of germs and microbes. Different diseases they cause.	3 hours
Unit 2	Overview of the mechanism how sanitary items like soap, phenyl, sanitizer acts against germs. Effect of restricted and excessive exposure of the sanitary items.	3 hours
Unit 3	Importance of candle and their traditional uses. Emotional connection and therapeutic relevance.	3 hours
Unit 4	<u>Theoretical aspects related to Soap, phenyl and sanitizer making</u> Introduction to solubility, hydrophilicity, hydrophobicity, emulsification, essential oils, Importance of scented sanitizers.	3 hours
Unit 5	<u>Theoretical discussion on synthetic procedures</u> Procedures for synthesis of soap, phenyl, sanitizer.	3 hours
	<u>Packging:</u> Why packaging is important, Packaging for different material.	3 hours
	<u>Sell your own product:</u> Introduction to marketing strategies.	2 hours

Module II (Hands on training: 40 Hours)		
Unit 6	Making different type of liquid and bar soaps. Scented soaps. Baby soaps etc.	8 Hours
Unit 7	Sanitizer making.	8 Hours
Unit 8	Phenyl making	8 Hours
Unit 9	Candle making. Candle of different shape, size, scent and colour.	8 Hours
Unit 10	Training on packaging of different materials.	4 Hours
Unit 11	Training on marketing of the products.	4 Hours