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|---|---------------------------------------|--|---------------|
| <b>Module code</b>  | SC-1483                               |  |               |
| <b>Module Title</b>   | Chemistry in Everyday Life            |  |               |
| <b>Degree/Diploma</b>   | Undergraduate GenNEXT Bachelor Degree |  |               |
| <b>Type of Module</b>   | Breadth                               |  |               |
| <b>Modular Credits</b>  | 4                                     | <b>Total student workload</b>  | 10 hours/week |
|   |                                       | <b>Contact hours</b>   | 4 hours/week  |
| <b>Prerequisite</b>   | None                                  |  |               |
| <b>Anti-requisite</b>   | None                                  |  |               |
| <b>Aims</b>   |                                       |  |               |
| Towards the completion of this module, students should be able to:  |                                       |  |               |
| <ul style="list-style-type: none"> <li>• Explain the role of chemistry in everyday life</li> <li>• Relate function of additives in manufactured food/goods</li> <li>• Assess the risk of some drugs and other chemicals</li> </ul>                      |                                       |  |               |
| <b>Learning Outcomes:</b>   |                                       |  |               |
| <i>On successful completion of this module, a student will be expected to be able to:</i>   |                                       |  |               |
| Lower order :   | 40%                                   | Explain the role of chemistry in everyday life<br>Know the composition of various chemicals such as food, fertilizer, pesticide, medicines and many more |               |
| Middle order :  | 40%                                   | Relate the function of additives in manufactured food/goods  |               |
| Higher order:   | 20%                                   | Assess the risk of some drugs and other chemicals consumed or the people exposed to  |               |
| <b>Module Contents</b>  |                                       |  |               |
| - Roles of chemistry in daily life: foundation concepts in chemical toxicology and risk assessment on use of chemicals in industry.   |                                       |  |               |
| - Chemistry of natural and commercial products: food industry, fertilizers, trace elements, hormones and pesticides, food additives, cosmetics, personal hygiene items, cleaning products and setting materials; paints, adhesives, resins and cements. |                                       |  |               |
| - Nutritional contents of food.   |                                       |  |               |
| - Drugs: development, regulation and mode of action.  |                                       |  |               |
| <b>Assessment</b>   | Formative assessment                  | Group works and discussion of topics for presentation and problem based learning (PBL)   |               |
|   | Summative assessment                  | Examination: 60%<br>Coursework: 40%<br>- 3 written reports (15%)<br>- 2 oral Presentations (10%)<br>- 3 class Tests (15%)                                |               |