**Module Handbook**

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| **Module Name** | Forensic Chemistry | | | | |
| **Module Level** | Higher Diploma | | | | |
| **Code, if applicable** | VKT751 | | | | |
| **The subtitle, if applicable** | - | | | | |
| **Courses, if applicable** | - | | | | |
| **Semester(s) in which the module is taught** | Odd semester | | | | |
| **A person responsible for the module** | Bayu Wiyantoko, M.Sc. | | | | |
| **Lecturer** | Thorikul Huda, M.Sc. | | | | |
| **Language** | Bahasa Indonesia | | | | |
| **Relation to curriculum** | Elective | | | | |
| **Type of teaching, contact hours** | Lecture (face to face teaching, structured activities, independent study and exam): 11.3 hours x 16 weeks per semester | | | | |
| **Workload** | Total workload | 91 hours; 2CU | | | |
| | | Face to face teaching | Structured activities | Independent study | Exam |
| | Hours | 23 | 28 | 28 | 11 |
| **Credit Points** | 2 SCU | | | | |
| **Requirements according to the examination regulations** | 75% minimum requirements of attendance | | | | |
| **Recommended prerequisites** | - | | | | |
| **Module objectives/intended learning outcomes** | PLO 3: Mastering the basic concepts of chemistry, chemical testing, operation and maintenance of chemical instruments that can be applied in the world of work.<br>Subject LO:<br>Students can identify the basic characteristics of evidence<br>Students can apply evidence sampling techniques<br>Students can apply chemical analysis methods for examining evidence<br>Students can conclude the results of the analysis of evidence | | | | |
| **Content** | 1. Characteristics of evidence<br>2. Sampling techniques and evidence preservation<br>3. Chemical screening, explosive checking<br>4. Document check<br>5. People identification method<br>6. Fire inspection<br>7. Serological examination<br>8. Soil inspection | | | | |
| **Study and examination requirements and forms of examination** | Midterm (30%), quiz (10%), presentation (5%), final exam (30%), assignment (25%) | | | | |
| **Media employed** | Google classroom, youtube, zoom meeting, google form, google doc | | | | |

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| **Reading list** | 1. Khan, J., Kennedy, T.J., Christian, D.R., 2012, Basic Principle of Forensic Chemistry, Humana Press, USA<br>2. Newton, D.E., 2007, Forensic Chemistry, Fact on File, New York<br>3. Siegel, J.A., 2016, Forensic Chemistry: Fundamental and Application, John Wiley and Sons, USA |