

Module Handbook

| | |
|--|--|
| Modul Name | Teknik Penelitian Biokimia |
| Module Level | Bachelor |
| Abbreviation, if applicable | 3074212043 |
| Sub-heading, if applicable | - |
| Course included in the module, if applicable | - |
| Semester/term | 3 rd / third year |
| Modul coordinator(s) | Dr. Nuniek Herdyastuti, M.Si |
| Lecturer(s) | Prof. Dr. Titik Taufikurrohmah, M.Si ; Dr. Nuniek Herdyastuti, M.Si ; Dian Novita, M.Pd |
| Language | Bahasa Indonesia |
| Classification within the curriculum | Compulsory |
| Teaching format/class hours per week during the semester | 2 hours lectures (50 min / hour) |
| Workload | 2 hours lecture, 2hours structured activities, 2 hours individual activities, 15 week a semester, and total 117 hours a semester~ 3.9 ECTS * |
| Credit point | 2 SCU |
| Requirement | Biochemistry, Analytical Chemistry II, III and IV, Organic Chemistry, Physical Chemistry, and Anorganic Chemistry |
| Learning Outcomes | <p>General Competence (knowledge): Mahasiswa memiliki pengetahuan serta keterampilan di laboratorium tentang prinsip, konsep dasar, dan proses kimia dalam industri kimia, meliputi industri: industri petrokimia ; industri fermentasi ; industri kertas ; serta industri kosmetik.</p> <p>Specific Competence : Secara spesifik mahasiswa dapat mempelajari tentang : industri petrokimia; minyak yang mencakup minyak atsiri dan minyak dari biji2an; industri fermentasi termasuk tempe, kecap, yogurt dan anggur, keju, dan lain-lain ; industri kertas termasuk kertas daur ulang; industri karbon dari berbagai bahan mentah ; serta industri kosmetik, termasuk sabun wajah, aneka krem wajah, shampoo dan pewarna kosmetik.</p> |
| Content | Sifat-sifat protein dan pengaruh lingkungan terhadap kestabilan protein, isolasi protein/enzim, elektroforesis dan pemurnian protein, isolasi DNA, elektroforesis dan pemurnian DNA, prinsip dasar teknik PCR dan sequencing, kloning gen serta identifikasi hasil kloning gen |
| Study/exam achievements | Students are considered to be competent and pass if at least get 55 |

| | |
|--|--|
| | Final score is calculated as follows: 20% partisipasi + 30% tugas + 20% USS + 30% UAS |
|--|--|