# UNIVERSITAS NEGERI YOGYAKARTA <br> FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION <br> Jalan Colombo Nomor 1 Yogyakarta 55281 <br> Telepon: (0274) 565411 Pesawat 217, (0274) 565411 (TU); Fax. (0274) 548203 <br> Laman: fmipa.uny.ac.id, E-mail: humas_fmipa@uny.ac.id 

## Bachelor of Education in Biology

MODULE HANDBOOK

| Module name: | Statistics |
| :--- | :--- |
| Module level, if applicable: | Undergraduate |
| Code: | MKU6210 |
| Sub-heading, if applicable: | - |
| Classes, if applicable: | - |
| Semester: | $1^{\text {st }}$ |
| Module coordinator: | Djamilah Bondan W., Dr. |
| Lecturer(s): | Djamilah Bondan W., Dr.; Endang L., M.S.; Elly Arliyani, M.Si. |
| Language: | Bahasa Indonesia |
| Classification within the <br> curriculum: | Compulsory course |
| Teaching format/class hours <br> per week during the <br> semester: | 100 minutes lectures and 120 minutes structured activities per <br> week. |
| Workload: | Total workload is 90.67 hours per semester which consists of <br> 100 minutes lectures, 120 minutes structured activities, and <br> 120 minutes self-study per week for 16 weeks. |
| Credit points: | 2 |
| Prerequisites course(s): | - |
| Targeted learning outcomes: | After taking this course, the students have the ability to: |

$\left.\begin{array}{|l|l|}\hline & \begin{array}{l}\text { CO1. Responsible for carrying out individual tasks and group } \\ \text { assignments. } \\ \text { CO2. Explain and present data properly. } \\ \text { CO3. Search for data from sources on the internet and present } \\ \text { it using certain software. }\end{array} \\ \text { CO4. Understand the basic concepts, principles, } \\ \text { procedures/algorithms in describing data. } \\ \text { CO5. Calculate the probability of an event. } \\ \text { CO6. Understand discrete and continuous random variables } \\ \text { and their distribution. } \\ \text { CO7. Understand parameter estimation. } \\ \text { CO8. Understand hypothesis testing. } \\ \text { CO9. Resolve problems related to parameter estimation and } \\ \text { hypothesis testing, both manually and using software } \\ \text { such as Excel and SPSS. }\end{array}\right\}$

|  | The | al mar | will be weight as f |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No | CO | Assessment Object | Assessment Technique | Weight |
|  | 1 | $\begin{aligned} & \mathrm{CO} 2, \\ & \mathrm{CO} 3 \end{aligned}$ | Individual assignment and presentation | Observation | 10\% |
|  | 2 | CO4, CO5, <br> CO6, <br> CO7 | a. Class <br> participation (during discussion and working on the board) <br> b. Quiz <br> c. Assignment <br> d. Mid-Term Examination | Observation <br> Written test Written test Written test | $\begin{aligned} & 10 \% \\ & \\ & \\ & 10 \% \\ & 10 \% \\ & 20 \% \end{aligned}$ |
|  | 3 | CO8 | Assignment | Written test | 15\% |
|  | 4 | $\begin{aligned} & \mathrm{CO4}, \\ & \mathrm{CO}, \\ & \mathrm{CO}, \\ & \mathrm{CO}, \\ & \mathrm{CO} \end{aligned}$ | Final Examination | Written test | 25\% |
|  |  |  |  | Total | 100\% |
| Forms of media: | Board | LCD | rojector, Laptop/Com | uter |  |
| Literature: |  | alpole, mantri ola, Ma disoniss, N dison- | Ronald.E . 1995. Alih Introductory to Statis rio F. 2004. Elemen Vesley. <br> il A. 1995. Introduct Vesley. | bahasa oleh ics. Gramedia ry Statistics. <br> y to Statistics | bang <br> akarta. <br> York: <br> ew York: |

## PLO and CO mapping

|  | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 | PLO6 | PLO7 | PLO8 | PLO9 | PLO10 | PLO11 | PLO12 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| C01 |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |
| C02 |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |
| C03 |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |
| C04 |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |  |
| C05 |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |  |
| C06 |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |
| C07 |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |
| C08 |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |  |
| C09 |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |

