UIN SUNAN KALIJAGA YOGYAKARTA
FACULTY OF SCIENCE AND TECHNOLOGY
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**Undergraduate Programme in Biology**

Telp : +62274 519739
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**MODULE HANDBOOK**

| | |
|---|---|
| Module Name | Reproductive Biology |
| Module level, if applicable | Bachelor |
| Code, if applicable | BIO425052 |
| Subtitle, if applicable | - |
| Courses, if applicable | Zoology |
| Semester(s) in which the module is taught | 6th (sixth) |
| Person responsible for the module | Najda Rifqiyati, S.Si, M.Si |
| Lecturer(s) | Najda Rifqiyati, S.Si, M.Si |
| Language | Indonesia |
| Relation to curriculum | Elective course in the third year (6th semester) Bachelor Degree |
| Type of teaching, contact hours | 100 minutes lectures, 120 minutes structured activities, 120 minutes individual study, 170 minutes laboratory practical per week. |
| Workload | Total workload is 136 hours per semester, which consists of 100 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, 170 minutes laboratory practical per week, in total is 16 weeks per semester, including mid exam and final exam. |
| Credit points | 3 credits (4,5 ECTS) |
| Requirements according to the examination regulations | Minimum attendance of 75%, Participate in all laboratory practical and exam of laboratory practical. |
| Recommended prerequisites | No prerequisites stated on |
| Module objectives/intended learning outcomes | After completing this course, the students:<br>CO 1. Able to clearly explain the concept of animal reproductive biology and the integration-interconection of reprodactive biology and other science.<br>CO 2. Able to correlate factors that influence animal reproductive<br>CO 3. Able to analyze differences in the reproductive of mammalian species.<br>CO 4. Able to study the principles of reproductive biotechnology and its applications. |
| Content | Morphometry of reproductive organs; reproductive cycle; reproductive hormones; spermatogenesis and folliculogenesis; fertilization, implantation, parturition and lactation; semen quality analysis; principle reproductive biotechnology. |
| Study and examination requirements and forms of examination | The final mark will be weighted as follows: |

| NO | Assessment methods (components, activities) | Weight (percentage) |
|---|---|---|
| 1 | Final Examination | 30% |
| 2 | Mid-Term Examination | 20% |
| 3 | Laboratory practical | 30% |
| 4 | Class activities : quiz, homework etc | 20 % |

The final assessment is expressed in the form of a letter value converted from a number value with the following categories:

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|---|---|
| | <table><tr><th>NO</th><th>Number Value</th><th>Letter Value</th><th>NO</th><th>Number Value</th><th>Letter Value</th></tr><tr><td>1</td><td>≥ 95</td><td>A</td><td>7</td><td>65-69.99</td><td>B/C</td></tr><tr><td>2</td><td>90-94.99</td><td>A-</td><td>8</td><td>60-64.99</td><td>C+</td></tr><tr><td>3</td><td>85-89.99</td><td>A/B</td><td>9</td><td>55-59.99</td><td>C</td></tr><tr><td>4</td><td>80-84.99</td><td>B+</td><td>10</td><td>50-54.99</td><td>C-</td></tr><tr><td>5</td><td>75-79.99</td><td>B</td><td>11</td><td>55-34.99</td><td>D</td></tr><tr><td>6</td><td>70-74.99</td><td>B-</td><td>12</td><td><35</td><td>E</td></tr></table> |
| Media employed | White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/) |
| Reading list | 1. Hafez, E. S. E., & B. Hafez. (2000). *Reproduction in Farm Animals* ( 7th ed.). Philadelphia: Lippincott Williams & Wilkins.<br>2. Fennel (*Foeniculum vulgare*) leaf infusion effect on mammary gland activity and kidney function of lactating rats. Nusantara Bioscience vol 11. no.1 (2019) https://smujo.id/nb/issue/view/218<br>3. Morphometric Study of Female Reproductive Organs of Rats (*Rattus* sp.) Postpartum Treatment by Fennel (*Foeniculum vulgare* Mill.) Leaf Infusion. Proseding International Conference Sains and Tecnology (ICSE) 2017 12 September 2017<br>4. Gambaran Anatomi dan morfometri organ reproduksi Betina Bajing Kelapa (Callosciurus notatus Boddaert, 1785)". Proseding seminar Nasional Biodiversitas vol 3 No.2/ Februari 2014. ISSN :2337-506x<br>5. Jurnal “Biology of Reproduction”<br>6. Practical instruction of Reproductive Biology. |

**PLO and CO Mapping**

| | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 | PLO 6 | PLO 7 | PLO 8 | PLO 9 | PLO 10 | PLO 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CO 1** | | | | | √ | | | | | | |
| **CO 2** | | | | | √ | | | | | | |
| **CO 3** | | | | √ | | | | | | | |
| **CO 4** | | | | √ | √ | | | | | | |