Module Description
Food Biochemistry

Module designation	Food Biochemistry
Module code	23G03120902
Semester(s) in which the module is taught	3rd semester
Person responsible for the module (lecturers)	❖ Prof. Dr. Ir. Amran, M.Si. ❖ Dr. rer.nat. Ir. Zainal, STP., M.Food.Tech. ❖ Dr. Fitri, S.TP
Language	Indonesian language
Relation to curriculum	Compulsory course
Teaching methods	Lecture
Workload	Total workload (estimated): ❖ 27 hours of lecture ❖ 32 hours of exercise ❖ 32 hours of independent study
Credit points	2 credit points = 3.24 ECTS
Required and recommended prerequisites for joining the module	Organic Chemistry and Analytical Chemistry
Module objectives/ Intended Learning Outcomes (ILO)	ILO 8. Conducts chemical and physical analysis of food to support quality management and control, including food products for special dietary purposes (C5)
	CLO 1. Students are able to explain the components that make up biomolecules CLO 2. Students are able to explain metabolic processes (Catabolism and Anabolism) CLO 3. Students are able to explain post-harvest biochemical changes in meat, fruit and vegetable products
Content	❖ Biomolecular components ❖ Metabolic processes (anabolism and catabolism) ❖ Post-harvest biochemistry
Examination form	Writing (essay)
Study and examination requirements	Examination requirements: Attendance above 80% □ Individual assignments: 50%

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 Exam: 50%

Grading:
<table>
<tr><th>Numerical range</th><th>Letter grade</th><th>Conversion value</th></tr>
<tr><td>85 - 100</td><td>A</td><td>4.00</td></tr>
<tr><td>80 - < 85</td><td>A-</td><td>3.75</td></tr>
<tr><td>75 - < 80</td><td>B+</td><td>3.50</td></tr>
<tr><td>70 - < 75</td><td>B</td><td>3.00</td></tr>
<tr><td>65 - < 70</td><td>B-</td><td>2.75</td></tr>
<tr><td>60 - < 65</td><td>C+</td><td>2.50</td></tr>
<tr><td>50 - < 60</td><td>C</td><td>2.00</td></tr>
<tr><td>40 - < 50</td><td>D</td><td>1.00</td></tr>
<tr><td>< 40</td><td>E</td><td>0.00</td></tr>
</table>
If student(s) receives(s) a score below 40, student(s) must retake the course
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<tr><td>Reading list</td><td>1. Aung Sumbono. (2016). Basic food biochemistry / Aung Sumbono. Yogyakarta: Deepublish,.</td></tr>
<tr><td>Date of last amendment</td><td>10 July 2025</td></tr>
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