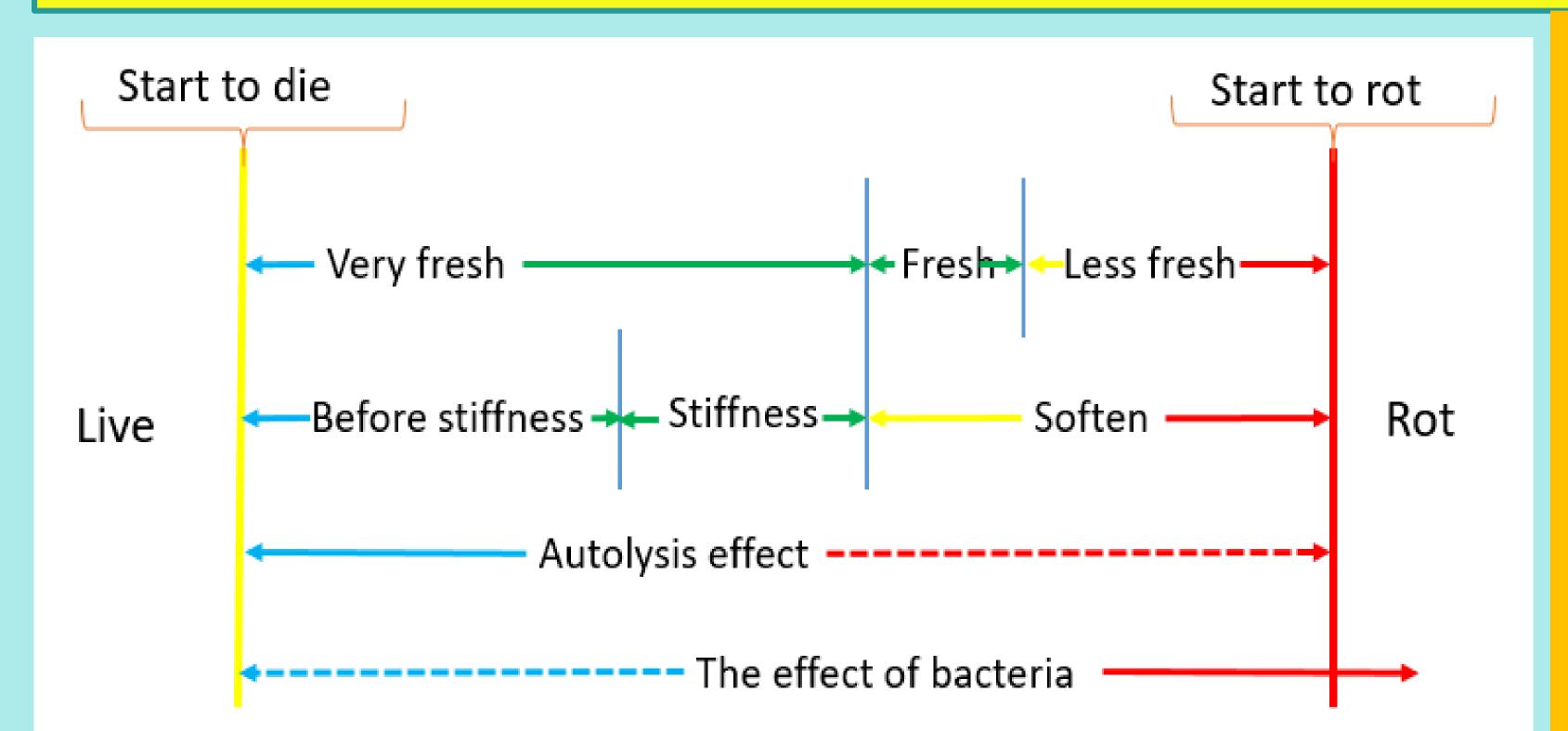
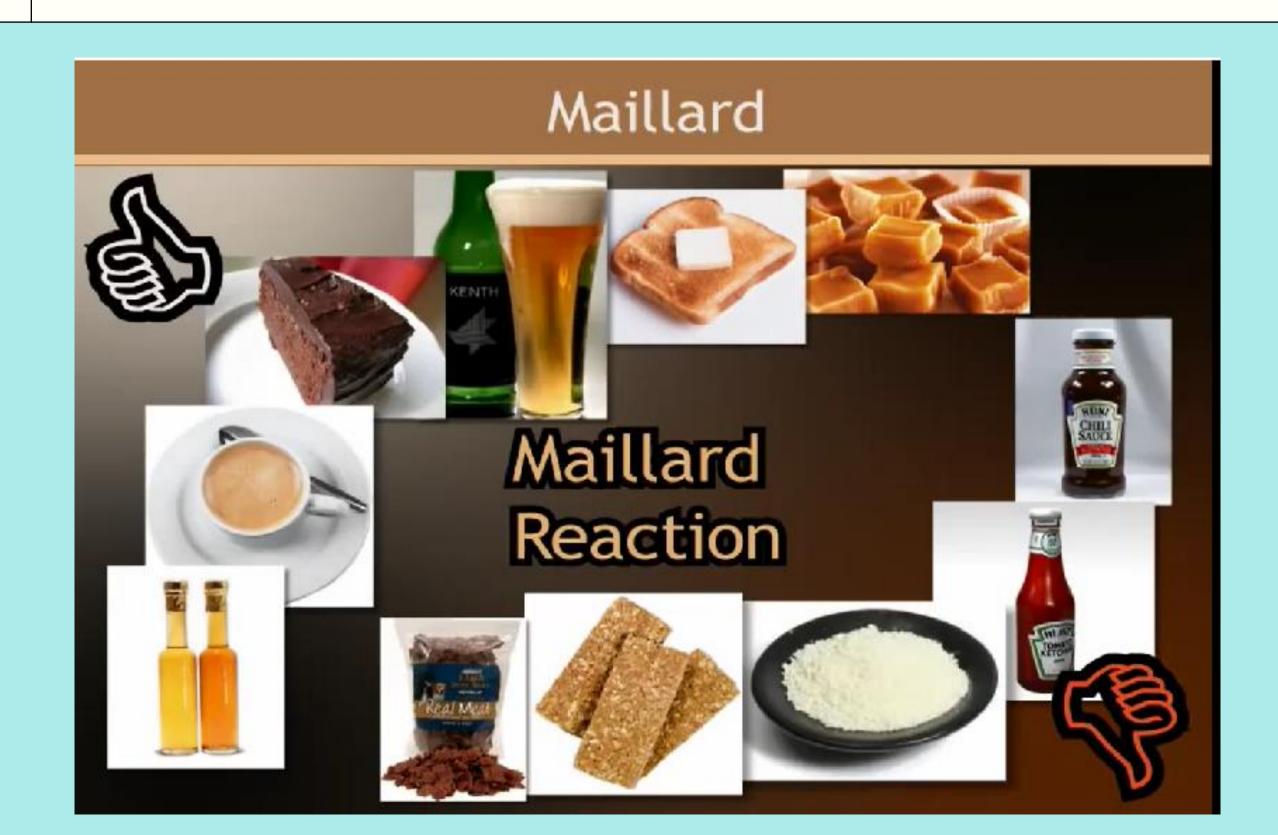


FOOD CHEMISTRY





| PROGRAMME LEARNING OUTCOMES (PLOs) | | | |
|------------------------------------|---|--|--|
| KNOWLEDGE | | | |
| PLO 1 | Apply natural, social, technical and economic knowledge to solve problems in preservation, processing, testing, and research and development of food products. | | |
| PLO 2 | Formulate production procedures based on the analysis of technical factors to ensure and enhance product quality. | | |
| PLO 3 | Design quality management systems for processing plants to ensure food hygiene and safety. | | |
| SKILL | | | |
| PLO 4 | Perform work planning, demonstrate creatively critical thinking, work independently and effectively as a team leader or member. | | |
| PLO 5 | Demonstrate communication skills and use specialized English in food technology. | | |
| PLO 6 | Operate production equipment in food manufacture factories. | | |
| PLO 7 | Analyse product quality criteria in food preservation and processing procedures. | | |
| PLO 8 | Design research to address technological and regulatory problems in the food industry through the evaluation of information, scientific data and information technology applications. | | |
| ATTITUDE | | | |
| PLO 9 | Work professionally, maintain professional ethics, social responsibility, and demonstrate personal physical development | | |



Demonstrate the spirit of entrepreneurship and life-long learning.

and demonstrate personal physical development.

COURSE CONTENT

✓ Lesson 1: Metabolism

PLO 10

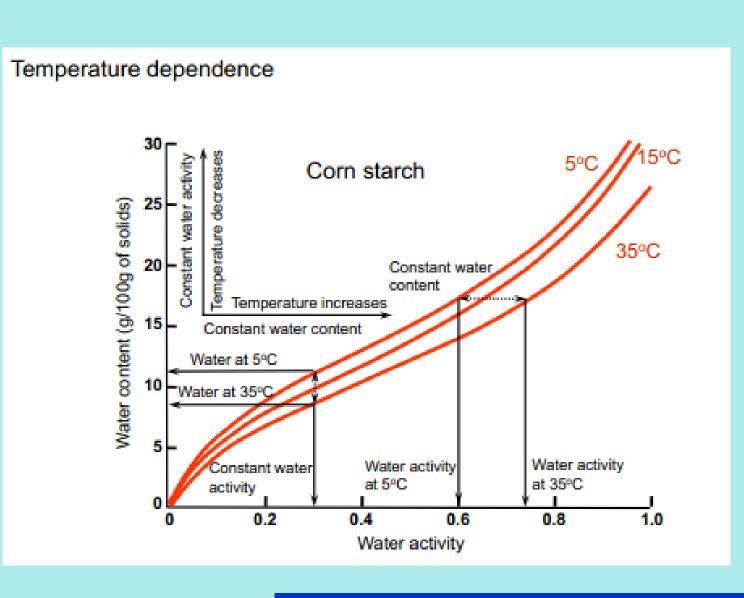
- ✓ **Lesson 2:** Browning in food
- ✓ Lesson 3: Water in food technology
- ✓ **Lesson 4:** Biochemical changes of fruits and vegetables grains after harvest Lesson
- ✓ Lesson 5: Biochemical changes of animal and aquatic meat materials after death
- ✓ Lesson 6: Pigments in food

Enzymatic Browning Non-Enzymatic Browning Non-Enzymatic Browning Non-Enzymatic Browning Caramelization Analysis Caramelization

| EXPECTED LEARNING OUTCOMES OF COURSE (CELOs) | | |
|--|--|-----------------|
| Symbol | Expected learning outcomes of the course | PLOs of program |
| KNOWLEDGE | | |
| CELO1 | Apply knowledge of post-harvest agricultural products, post-mortem animal and plant materials, and water in food technology to explain issues related to the food sector. | PLO 1 |
| CELO2 | Explain the physiological and biochemical changes of agricultural products after harvest, animal materials after death. | PLO 1 |
| SKILLS | | |
| CELO3 | Analyse chemical indicators in food technology | PLO 7 |
| CELO4 | Apply information technology to process analysis results, work in groups, report in groups, use foreign languages to read professional documents in the field of food chemistry. | PLO 4, 5 |
| CELO5 | Operate equipment and machinery in analysis qualitative and quantitative analysis. | PLO 6 |
| ATTITUDE | | |
| CELO6 | Comply with laboratory safety rules, work professionally, socially responsible | PLO 9 |
| CELO7 | Demonstrate the spirit of entrepreneurship and life-long learning. | PLO 10 |

LEARNING METHODS AND TASKS

- Students read the lesson first at home
- Listen to lectures, discuss
- Practice in the lab





ASSESS AND GIVE US POINTS

- ✓ Score scale: 10
- ✓ Diligently, attend class
- ✓ Evaluation of the process: 50%
- ✓ Final evaluation: 50%