



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

| | | | | | | | | | |
|--|---|--|----------------------|---|---|----------------------------------|---|------------|---|
| Course Title | | Box Conservation | | | | | | | |
| Course Code | | MSİ212 | | Course Level | | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 4 | Workload | 100 (<i>Hours</i>) | Theory | 2 | Practice | 2 | Laboratory | 0 |
| Objectives of the Course | | To make necessary preparations for the production of canned vegetables and fruits and before and after canned heat treatment for fruit and vegetables (filling, filling liquid preparation and filling, air extraction and closing). | | | | | | | |
| Course Content | | Pretreatment of fruits and vegetables, filling, exhaust closure, clamp control, packaging, heat treatment, fruit and vegetable canned food production. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Demonstration | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 70 |

Recommended or Required Reading

| | |
|---|--|
| 1 | Cemeroğlu, B., Özkan, M., Karadeniz, F., Yemenicioğlu, A., 2004. eniz Fruit and Vegetable Processing Technology B., 1-2. Volume, Editor: Cemeroğlu, B. Food Technology Association Publications, Ankara. |
| 2 | Cemeroğlu, B., Karadeniz, F., 2001. Fruit Juice Technology “, Food Technology Association Publications, Ankara |
| 3 | Acar, J. and Cemeroğlu, B., 1998. II Fruit and Vegetable Technology ve, Volume II, Hacettepe University, Faculty of Engineering Publications, Ankara. |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Fruit vegetable structure and composition |
| | Practice | General Information |
| 2 | Theoretical | Pretreatments |
| | Practice | Boiled Test |
| 3 | Theoretical | Pretreatments |
| | Practice | Shell peeling |
| 4 | Theoretical | Filling |
| | Practice | Introduction of autoclave |
| 5 | Theoretical | Exhaust and shut-off |
| | Practice | Exhaust process |
| 6 | Theoretical | Clamp control |
| | Practice | Canister control |
| 7 | Theoretical | Packaging materials |
| | Practice | Closing control in glass jar |
| 8 | Intermediate Exam | Midterm |
| 9 | Theoretical | Pneumatization - Sterilization |
| | Practice | Production of canned vegetables |
| 10 | Theoretical | Production of canned vegetables |
| | Practice | Production of canned vegetables |
| 11 | Theoretical | Production of canned fruits |
| | Practice | Production of canned fruits |
| 12 | Theoretical | Manufacture of ready-to-eat food |
| | Practice | Manufacture of ready-to-eat food |
| 13 | Theoretical | Considerations in quality canning production |
| | Practice | Calculation of Fo values |



| | | |
|----|-------------|--|
| 14 | Theoretical | Solution of problems encountered in canning production |
| | Practice | Calculation of Po values |
| 15 | Theoretical | An overview |
| | Practice | Boxed microbiological analyzes |
| 16 | Final Exam | final Exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Lecture - Practice | 14 | 0 | 2 | 28 |
| Individual Work | 14 | 0 | 2 | 28 |
| Midterm Examination | 1 | 7 | 1 | 8 |
| Final Examination | 1 | 7 | 1 | 8 |
| Total Workload (Hours) | | | | 100 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 4 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

| | |
|---|--|
| 1 | Understanding of the fundamentals of canning production |
| 2 | Understanding the fundamentals of heat treatment |
| 3 | Learning the basics of ready-made food technology |
| 4 | Understanding the causes of food spoilage |
| 5 | Understanding of important points for quality production |

Programme Outcomes (Fruit and Vegetables Processing Technology)

| | |
|---|--|
| 1 | To be able to understand social, cultural and social responsibilities and to have the ability to follow national and international contemporary |
| 2 | In line with the principles and reforms of Atatürk; Adopting the national, moral, spiritual and cultural values ??of the Turkish Nation, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; love and awareness of language; to have the ability to use the foreign language sufficiently and with the habit of reading and professionally. |
| 3 | To know the basic hardware units and operating systems of computer, internet to be able to prepare documents, spreadsheets and presentations on the computer by using office programs |
| 4 | Gains the theoretical and practical knowledge at the basic level in mathematics, science and professional fields |
| 5 | Recognize and analyze the problems with the knowledge of fruit and vegetable technology in the field, interpret the data and propose solutions. |
| 6 | According to the prepared work plan and program in laboratories, it can carry out the necessary works to obtain the desired quality product. |
| 7 | To have professional and ethical responsibility in business life. |
| 8 | It is open to development and change, follows scientific social and cultural innovations and constantly improves itself. |

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

| | L1 | L2 | L3 | L4 | L5 |
|----|----|----|----|----|----|
| P1 | 2 | 2 | 2 | 4 | 4 |
| P2 | 2 | 2 | 2 | 2 | 3 |
| P3 | 3 | 3 | 2 | 1 | 2 |
| P4 | 4 | 4 | 4 | 4 | 4 |
| P5 | 5 | 5 | 5 | 5 | 5 |
| P6 | 5 | 5 | 5 | 5 | 5 |
| P7 | 5 | 5 | 5 | 5 | 5 |
| P8 | 5 | 5 | 5 | 5 | 5 |

