**A picture containing text, clipart

Description automatically generated**

TQF 3

Bachelor’s Degree

Master’s Degree

**College of**

**Hospitality Industry Management**

**Course Specification**

Course Code: IHR4410

Course Title: Food Innovation Studies

Credits: 3(2-2-5)

Program: Hotel Management

College of Hospitality Industry Management

Suan Sunandha Rajabhat University

(CHM)

Semester: 1 Academic Year: 2022

**Section 1 General Information**

1. **Code and Course Title:**

**English:**  IHR4410 Food Innovation Studies

**Thai:**  IHR4410 การศึกษานวัตกรรมอาหาร

**2. Credits:**  3(2-2-5)

**3. Curriculum and Course Category:**

3.1 Curriculum: Bachelor of Arts in Hotel Management (Major Restaurant business)

3.2 Course Category:

⬜ General Education ⬜ Required Course

🗹 Elective Course ⬜ Others …………….

This course of Bachelor of Arts, College of Hospitality Industry Management, SSRU, is categorized in *Specialized Area Courses****.***

**4. Lecturers Responsible for Course and Instructional:**

**Course Lecturers:**

4.1 Lecturer responsible for Course: Ms.Yupaporn Kithwang

1. Instructional Course Lecturers: Ms.Yupaporn Kithwang

**5. Contact/Get in touch**

5.1 Ms.Yupaporn Kithwang, room number 306

Tel: 098-2244624 E-mail: yupaporn.ki@ssru.ac.th

**6. Semester/Year of study**

6.1 Semester 1 Year of study 2022

6.2 Number of students enrolled: 3 Students

**7. Prerequisite Course:**

None

**8. Co-requisite Course:**

None

**9. Learning Location**

College of Hospitality Industry Management, Suan Sunandha Rajabhat University, Nakhon Pathom Campus

**10. Last Date for Preparing and Revising this Course:**

August 12, 2022

**Section 2 Objectives and Purposes**

**1. Course Aims**

At the end of this course, the student will reach to five domains in the following areas of performance:

1.1 Morals and Ethics

(1) Be aware of values and morality, ethics, generosity, integrity and honesty as well as be able to solve critical problems and disputes.

(2) Have positive attitudes towards service careers.

(3) Be able to lead and follow group members, work in team and be a role model for others; and

(4) Have self-discipline, be punctual, responsibility to self, profession, and society.

1.2 Knowledge

(1) Have up-to-date knowledge in the management and operation of businesses in the hospitality industry both theories and practices widely, systematically and internationally;

(2) Have integrated knowledge in other related disciplines; (3) Have knowledge and understanding in research process and techniques which will be benefit in solving problems and adding up to the knowledge in the career.

1.3 Cognitive Skills

(1) Be able to analyze the causes of problems and conflicts as well as be able to solve problems systematically and find out proper solutions to the problems.

(2) Be able to apply both theoretical and practical knowledge into real-life problem; and

(3) Be able to apply innovation and knowledge from other related academic fields in developing working skills. 1.4 Interpersonal Skills and Responsibility

(1) Have responsibility for individual and group assignments as well as be able to help and facilitate others in solving problems; and

(2) Be responsible for the improvement of self-academic learning and the profession continuously.

1.5 Numerical Analysis, Communication, and Information Technology Skills

(1) Be competent in foreign languages in listening, speaking, reading, writing, and summarizing the main points effectively.

(2) Be able to communicate with foreigners effectively in the appropriate contexts.

(3) Be able to use technology to communicate and present effectively; and

(4) Be able to apply statistical or mathematical knowledge in analyzing and interpreting the data.

**2. Objectives for Developing/Revising Course**

**(content/learning process/assessment / etc.)**

According to TQF (Thailand Quality Framework: HEd.) for Requirement courses, undergraduate students should have opportunity to master learning in nature of person, think logically, good communication, realize morals and ethics, realize Thai cultural value and global cultural value. Finally, students can apply knowledge in daily life for quality of life.

**Section 3 Characteristics and Operation**

**1. Course Outline**

Introduction, food-related markets, design approach and methodologies, the processes, methods and spaces of food design, distribution and consumption of aesthetics food, equipment and tools used to prepare and consume food, promotion of food products, design workshops, trends of food innovation, gastronomic fairs, and events บทนำ ตลาดที่เกี่ยวข้องกับอาหาร แนวทางการออกแบบและวิธีการ กระบวนการ

วิธีการและพื้นที่ในการออกแบบอาหาร การจำหน่ายและการบริโภคอาหารเพื่อความงาม

อุปกรณ์และเครื่องมือที่ใช้ในการเตรียมและบริโภคอาหาร การส่งเสริมผลิตภัณฑ์อาหาร การออกแบบเวิร์คช็อป เทรนด์นวัตกรรมอาหาร งานมหกรรมอาหารและกิจกรรมต่างๆ

**2. Time Length per Semester (Lecture – hours / Practice – hours / Self Study – hours)**

|  |  |  |  |
| --- | --- | --- | --- |
| Lecture  (hours) | Remedial Class  (hours) | Practice**/**  Field Work**/**  Internship (hours) | Self-Study  (hours) |
| 32 | 2+ (if any) | 32 | 80 |

**3. Time Length per Week for Individual Academic Consulting and Guidance**

(The lecturer responsible for course identifies the information, for example, 1 hour / week)

3.1 Self consulting at the lecturer’s office: Room Number 306 College of Hospitality Industry Management (Nakhon Pathom Campus)

3.2 Consulting via office telephone: 034 964 946 Ext. 334

3.3 Consulting via E-Mail: yupaporn.ki@ssru.ac.th

3.4 Consulting via Social Media (Facebook/Twitter/Line): Line

3.5 Consulting via Computer Network (Internet/Web board): Moodle

**Section 4 Developing Student’s Learning Outcomes**

1. **Morals and Ethics**
   1. **Morals and Ethics to be developed**

○ (1) Be able to deliver or complete the required task on time

○ (2) Be able to do the right thing according to the values, beliefs, and principles they claim to hold

⬤ (3) Be able to make decisions according to moral concepts and judgments

○ (4) Have self-discipline, be punctual, responsibility to self, profession and society.

* 1. **Teaching Strategies**

(1) Direct instruction

(2) Discussion

(3) Student research

* 1. **Assessment Strategies**

(1) Measurement of punctuality and attendance

(2) Measurement of personal interaction style

(3) Measurement of original contribution

1. **Knowledge**
   1. **Knowledge to be developed**

○ (1) Be able to identify the proper theories and describe important case studies

⚫ (2) Be able to provide an analysis and provide solutions to real world problems

○ (3) Be able to organize self-study and share information with the class

* 1. **Teaching Strategies**

(1) Cooperative learning

(2) Problem-based learning

(3) Direct instruction

* 1. **Assessment Strategies**

(1) Mid-term test

(2) Final test

(3) Cooperative learning evaluations

1. **Cognitive Skills**
   1. **Cognitive Skills to be developed**

○ (1) The ability to gather and summarize information, and conduct research

⬤ (2) Self-study and sharing information with the class

○ (3) The ability to solve problems with case studies

* 1. **Teaching Strategies**

(1) Cooperative learning

(2) Problem-based learning

(3) Direct instruction

* 1. **Assessment Strategies**

(1) Cooperative learning evaluations

(2) Direct instruction

(3) Quizzes

1. **Interpersonal Skills and Responsibilities**

**4.1 Interpersonal Skills and Responsibilities to be developed**

|  |  |
| --- | --- |
|  | ○ (1) Be able to use interpersonal English communication skills |
|  | ⬤ (2) Be able to collaborate in teams and solve problems |

* 1. **Teaching Strategies**

(1) Cooperative learning

(2) Group work activities

* 1. **Assessment Strategies**

(1) Cooperative learning evaluations

(2) Group work evaluations

1. **Numerical Analysis, Communication and Information Technology Skills**

**5.1 Numerical Analysis, Communication and Information Technology to be developed**

|  |  |
| --- | --- |
| ⬤ | (1) Be able to use basic ICT skills and apply daily |
| ⬤ | (2) Be able to use statistics and mathematics to solve air transport problems |
| ○ | (3) Be able to use IT to search for new knowledge and apply numerical analysis in communication with emphasis on practical and real life experiences |

**5.2 Teaching Strategies**

|  |
| --- |
| (1) Direct instruction |
| (2) Cooperative learning |
| (3) Group work activities |

* 1. **Assessment Strategies**

(1) Quizzes

(2) Cooperative learning evaluations

(3) Group work evaluations

1. Other Domain

None

**Remark:** Symbol● means ‘major responsibility’

Symbol ○ means ‘minor responsibility’

No symbol means ‘no responsibility’

The above symbols were shown in ‘Curriculum Mapping’ of TQF 2. (Program Specification)

| **Learning Standards/Outcomes** | **Learning Activities** | **Learning Assessment** |
| --- | --- | --- |
| **1. Morals and Ethics**  1.1 Be able to deliver or to complete a required task at appointed time;  1.2 Be able to do the right thing according to the values, beliefs, and principles they claim to hold;  1.3 Be able to make decisions in business according to moral concepts and judgments. | * Lecture and group discussion * Student-centered: Constructivist approaches * Cooperative learning: Jigsaw | * Attendance * Quizzes * Group reports and presentations |
| **2. Knowledge**  2.1 Be able to identify the proper theories and describe important case studies.  2.2 Be able to provide an analysis and provide the solution to real world problems.  2.3 Be able to organize self-study and sharing information to the class. | * Lecture and group discussion * Student-centered: Constructivist approaches * Cooperative learning: Jigsaw | * Quizzes * Midterm * Final * Group reports and presentations |
| **3. Cognitive Skills**  3.1 The ability to gather and summarize information, and conduct research;  3.2 Self-study and sharing information to the class;  3.3 The ability to solve problems from case studies. | * Lecture and group discussion * Student-centered: Constructivist approaches * Cooperative learning: Jigsaw | * Quizzes * Midterm * Final * Group reports and presentations |

|  |  |  |
| --- | --- | --- |
| **Learning Standards/Outcomes** | **Learning Activities** | **Learning Assessment** |
| **4. Interpersonal Skills and Responsibilities**  4.1 Be able to use interpersonal English communication skills.  4.2 Be able to collaborate well in teams for problem solving.  4.3 Be able to show leadership skills. | * Lecture and group discussion * Student-centered: Constructivist approaches * Cooperative learning: Jigsaw | * Quizzes * Group reports and presentations * Evaluate English skills during class |
| 1. **Numerical Analysis, Communication and Information Technology Skills**   5.1 Be able to use basic ICT skills and apply them daily;  5.2 Be able to use statistics and mathematics to solve air transport business problems;  5.3 Be able to use IT to search for new knowledge and apply numerical analysis in communication with emphasis on practical and real life experiences. | * Lecture and group discussion * Student-centered: Constructivist approaches * Cooperative learning: Jigsaw | * Quizzes * Group reports and presentations |

**Section 5 Lesson Plan and Assessment**

**1. Lesson Plan**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week** | **Topic/Outline** | **Periods** | **Learning Activities and Medias** | | **Lecturer(s)** | | |
| 1 | **Unit 1** Introduction to Food Innovation  • Course introduction  • Food Innopolis  • THAIFEX  • Food workshop idea  • Future food | 2 hrs. | • Direct instruction  • Discussion  • Problem solving  • Performance activities  • Class activity: presentation of organization chart | | Ms.Yupaporn | | |
| 2 | **Unit 2** Future of Food Industry  • Significant invention history  • Mega trends in food industry  • Future of food  • Agri-food industry | 2 hrs. | • Direct Instruction  • Discussion  • Co-operative learning  • Student research  • Performance activities | | Ms.Yupaporn | | |
| 3-4 | **Unit 3 Innovation in Food “Culinary Art and Dietetics”**  • Innovation of food  • Innovation in feeding  • Innovation in farming  • Innovation in food  • Food retention and nutrient loss  • Food ingredient and food safety   * Culinary art and dietetics * Aesthetic philosophy * Selective perception theory | 2 hrs. | • Direct Instruction  • Discussion  • Co-operative learning  • Practice  • Moodle | | Ms.Yupaporn | | |
| **Week** | **Topic/Outline** | **Periods** | **Learning Activities**  **and Medias** | | **Lecturer(s)** | | |
| 5 | **Unit 4 Innovative Food Processing Technology**  • Introduction to food processing  • 6 food processing technology | 2 hrs. | • Direct Instruction  • Discussion  • Student research  • Performance  activities | | Ms.Yupaporn | | |
| 6 | **Food and Hospitality 2022 @Queen Sirikit National Convention Center** |  | •Hands on experience from hospitality industry | | Ms.Yupaporn | | |
| 7 | **Cooking Laboratory of Future Food (insect)** |  | * Menu testing * Conduct information | |  | | |
| 8 | ……………. Midterm Examination……………….. | | | | | |
| 9 | **Unit 5** Innovation for Food Waste  • The challenge of food waste  • Range of solution  • Business and initiative making a difference  • Tips for implementing change | 2 hrs. | | • Direct Instruction  • Discussion  • Co-operative learning • Student research  • Performance  activities | | Ms.Yupaporn |
| **Week** | **Topic/Outline** | **Periods** | | **Learning Activities**  **and Medias** | | **Lecturer(s)** |
| 10 | **Unit 6 Food Structure Design**   * Healthy Food Products * Food Structure Design * Food Products   Gluten Free  Food Hydrocolloid  Food Rheology  Food Tribology  Food for Niche Consumers:  blenderized diets, easy chewable meat, MTEC products  Other studies | 2 hrs. | | • Direct Instruction  • Discussion  • Co-operative  learning  • Problem solving  • Student research  • Performance  activities | | Ms.Yupaporn |
| 11 | **Cooking Laboratory of Future Food**   * Banana cake and cupcake using rice flour as substitution for wheat flour, using baking and steaming technique | 2 hrs. | | * Direct Instruction * Discussion * Cooking and Testing * Product Comparison | | Ms.Yupaporn |
| 12 | **Unit 7** Food Labelling and Ingredient Innovations  • Food Labelling Claims  • New Ingredient Innovations | 2 hrs. | | • Direct Instruction  • Discussion  • Co-operative  learning  • Student research  • Performance  activities | | Ms.Yupaorn |
| 13 | **Unit 8** Airline Catering   * In Flight Meals * From Farm to Plane * Who Decide the Meal? * Farming and Sourcing * Production * Delivery | 2 hrs. | | • Direct Instruction  • Discussion  • Co-operative  learning  • Performance  activities | | Ms.Yupaporn |
| 17 | ……………………..….Final examination…………………………….. | | | | | |
| Total of Hours | | 32 | |  | | Ms.Yupaporn |

**2. Learning Assessment Plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Learning Outcome** | **Assessment**  **Activities** | **Time Schedule (Week)** | **Proportion for Assessment (%)** |
| 1 | **Ethics and Morals**  (1) Have positive attitudes towards service careers.  (4) Have self-discipline, be punctual, responsibility to self, profession and society. | • Class  attendance  checklist  • Individual  portfolio | Throughout  semester | 10% |
| 2 | **Knowledge**  (1) Have up-to-date knowledge in the management and operation of businesses in the hospitality industry both theories and practices widely, systematically and internationally. (2) Have integrated knowledge in other related disciplines. | • Midterm &  final  examination | 8&17 | 20%&30% |
| 3 | **Cognitive Skills**  (2) Be able to apply both theoretical and practical knowledge into real life problem; and  (3) Be able to apply innovation and knowledge from other related academic fields in developing working skills. | • Individual  assignment  and paper  works/self  study | Throughout  semester and  week 2,5,10,12 | 20%  (5%-5%-5%-5%) |
| 4 | **Interpersonal Skills and**  **Responsibilities**  (1) Have responsibility for  individual and group assignments as well as be able to help and facilitate others in solving problems.  (2) Be responsible for the  improvement of self-academic learning and the profession  continuously. | • Group work  &  presentation | Throughout  semester or  week 4,10 | 15% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5 | **Numerical Analysis,**  **Communication and Information Technology Skills**  (1) Be competent in foreign  languages in listening, speaking, reading, writing and summarizing the main points effectively. | • Group and  individual  assignment | Throughout  semester | 5% |

**Section 6 Learning and Teaching Resources**

**1. Textbook and Main Documents**

Amy Brown, 2004 . *Understanding Food Principles and Preparation*. Thomson Wadsworth, USA

Neil Rippington, 2011 *Professional Chef* .Delmar, Delmar Cengage Learning, UK

David A. Mizer et. al 2000 . *Food Preparation for the professional*. John Wiley & Sons, Canada

Jeffrey Elliot and James P. DeWan, 2010. *Knife Skills*, Robert Rose Inc. Canada

John Fuller and David, 1991. *Kitchen Planning and Management*, Oxford, British

Wayne Gisslen and Mary Ellen Griffin, 2003. *Professional Cooking*. John Wiley & Sons, Canada

**2. Important Documents for Extra Study**

Hotel documentations, Fact sheet, Training sheet

**3. Suggestion Information (Printing Materials/Website/CD/Others)**

-http://www.youtube.com/watchsv=dTelbxf1-Oo

- http://www.youtube.com/watchsv=g85nnmS-u6Q

**Section 7 Course Evaluation and Improvement**

1. **Strategies for Course Evaluation by Students**

Using survey questions to collect information from the students’ opinions to improve the course and enhance the curriculum. Examples of questions:

* 1. Content objectives were made clear to the students.
  2. The content was organized around the objectives.
  3. Content was sufficiently integrated.
  4. Content was sufficiently integrated with the rest of the first year curriculum.
  5. The instructional materials used were effectively.
  6. The learning methods appropriate assessed the students’ understanding of the content.
  7. Overall, Students are satisfied with the quality of this course.

1. **Strategies for Course Evaluation by Lecturer**

2.1 Lecturers team observes the class and discusses the results as follow:

* 1. The lecturer is well prepared for class sessions.
  2. The lecturer answers questions carefully and completely.
  3. The lecturer uses examples to make the materials easy to understand.
  4. The lecturer stimulated interest in the course.
  5. The lecturer made the course material interesting.
  6. The lecturer is knowledgeable about the topics presented in this course.
  7. The lecturer treats students respectfully.
  8. The lecturer is fair in dealing with students.
  9. The lecturer makes students feel comfortable about asking question.

(10) Course assignment is interesting and stimulating.

(11) The lecturer’s use of technology enhanced learning in the classroom.

2.2 The Director /Head of program construct assessment items to evaluate four dimensions of lecturer’s competencies: teaching skills, organization and presentation of materials, management of the learning environment, and teaching attitudes.

**3. Teaching Revision**

Lecturer revises teaching/learning process based on the results from the students’ survey questions, the lecturer team’s observation, and classroom research.

**4. Feedback for Achievement Standards**

International College Administrator Committee monitor to assessment process and Grading.

**5. Methodology and Planning for Course Review and Improvement**

(1) Revise and develop course structure and process every two years.

(2) Assign different lecturers to teach this course to enhance students’ performance.

*Curriculum Mapping Illustrating the Distribution of Program Standard Learning Outcomes to Course Level*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Courses | 1. Morals and Ethics | | | | 2. Knowledge | | | 3. Cognitive Skills | | | 4. Interpersonal Skills  and Responsibility | | 5. Numerical Analysis, Communication and Information Technology  Skills | | | | 6.Other Domain ie.Learning Management Skills | | |
| Course Category: Bachelor of Art, International College, SSRU |  | **⬤ Major Responsibility 🞅 Minor Responsibility** | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 2 | 3 | 4 | 1 | 2 | 3 |
| Course Code HIR 3308  Course Title: Kitchen Management and Operations | O | O | ⬤ | O | O | ⬤ | O | O | ⬤ | O | O | ⬤ | ⬤ | ⬤ | O | O |  |  |  |