

## Course Syllabus

**1. Name of Curriculum**

Bachelor of Science (Food Science & Technology), Mahidol University International College

**2. Course Code:** ICFS 423                      **Course Title:** Beverage Technology

**3. Number of Credits:** 4 (Lectures/Lab) (4-0)

**4. Prerequisite(s):** ICFS 313, ICFS 316

**5. Type of Course:** Elective

**6. Trimester / Academic Year:** Second Trimester / 2004-05

**7. Course Description**

Processing and technologies of alcoholic and non-alcoholic beverages; physical, microbiological, and chemical properties of both raw materials and finished products; GMPs, ISO 9002, HACCP, basic concepts of quality assurance and quality control applicable to the beverage industry.

**8. Course Objectives**

After studying the course the student will be able to:

- (i) Describe the characteristics and production methods of both alcoholic and non-alcoholic beverage types.
- (ii) Use laboratory techniques to analyze and measure important physicochemical parameters of beverages.

## 9. Course Outline

Week				Instructor	
	Lecture/Seminar	Lect	Lab		Total
1	Alcoholic and non-alcoholic beverages and water	2	2	4	Mike Johns
2	Alcoholic and non-alcoholic beverages and water	4		4	Mike Johns
3	Fruit juice and fruit nectar	2	2	4	Mike Johns
4	Milk	4		4	Mike Johns
5	Tea	2	2	4	Mike Johns
6	Mid term exam				Mike Johns
7	Coffee	2	2	4	Mike Johns
8	Beer	4		4	Mike Johns
9	Wine	2	2	4	Mike Johns
10	Packaging	4		4	Mike Johns
11	Packaging	4		4	Mike Johns
12	Final exam				Mike Johns
	Total	30	10	40	

## 10. Teaching Methods

1. Lecture
2. Self-study
3. Practical exercises

## 11. Teaching Media

1. PowerPoint presentations
2. Texts and teaching materials

## 12. Course Achievement

Assessment made from the set forward criteria: -

Grade	%
A	90-100
B+	85-89
B	80-84
C+	75-79
C	70-74
D+	65-69
D	60-64
F	0-59

## 13. Course Evaluation

Component	%
Attendance/Class participation	10
Quizzes	10
Assignments/Practical reports	20
Midterm	30
Final	30
<b>Total</b>	100

## 14. References

Technology, Chemistry and Microbiology by Alan H. Varnam and Jane P. Sutherland  
Chapman & Hall, 1999, ISBN: 0412457202.

## 15. Instructor

Instructor: Mr. Mike Johns, Room 1409 International College Building

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## 16. Course Coordinator

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