

## SYLLABUS

### 1. Information on academic programme

1.1. Education unit	"1 Decembrie 1918"
1.2. Faculty	Faculty Of Sciences
1.3. Departament	Economic Science and Business Administration
1.4. Field of study	Business Administration
1.5. Cycle of Study	undergraduate
1.6. Academic programme / Qualification	Business Administration

### 2. Information of Course Matter

2.1. Course	Fundamentals of Commodity Science		2.2. Code	BA217			
2.3. Course Leader	Assoc. prof. POPA MARIA, Ph. D.						
2.4. Seminar Tutor							
2.5. Year of study	II	2.6. Semester	I	2.7. Type of Evaluation (E – final exam/C-examination /VP)	Vp	2.8. Type of course (C– Compulsory, Op – optional, F - Facultative)	Op

### 3. Course Structure (Weekly number of hours)

3.1. Weekly number of hours	4 (2 hours – course + 2 hour – seminar) of the education plan	3.2. course	2	3.3. seminar, laboratory	1
3.4. Total number of hours in the curriculum	42 (7*4) Number of weeks x no. of hours from 3.1.	3.5. course	28 (7x2) No. of weeks x no. of hours from 3.3.	3.6. seminar, laboratory	14 (7x2) No. of weeks x no. of hours from 3.3.
Allocation of time					hours
Individual study of readers					14
Documentation (library)					27
Home assignments, Essays, Portfolios					14
Tutorials					-
Assessment (examinations)					2
Other activities.....					-

3.7 Total number of hours for individual study	57 (- allotted according to what is specified at time distribution)
3.8 Total number of hours in education plan	28 (from 3.4.)
3.9 Total number of hours per semester	85 (3.7.+3.8.) No. of credits x

	<b>27)</b>
3.10 Number of credits	<b>5 (of education plan)</b>

4. Prerequisites (*where applicable*)

4.1. curriculum-based	- <i>not needed</i>
4.2. competence-based	- <i>not needed</i>

5. Requisites (*where applicable*)

5.1. course-related	<i>Classroom with board, video projector...</i>
5.2. seminar/laboratory-based	<i>Lab with specific equipment for lab analysis, apparatus, reagents, aliments for analysis</i>

**6. Specific competences to be acquired (chosen by the course leader from the programme general competences grid)**

Professional competences	<ol style="list-style-type: none"> <li>1. Knowledge and understanding of the fundamental concepts, theories, and methods in the field and the specialty area; their adequate use in professional communication;</li> <li>2. Usage of fundamental knowledge in order to explain and interpret various types of concepts, situations, processes, projects, etc. associated to the field;</li> <li>3. Application of fundamental methods and principles for solving well defined, typical problems/situations specific to the field, with qualified assistance</li> <li>4. Adequate use of standard assessment methods and criteria in order to estimate the quality, merits, and limits of several processes, programs, projects, concepts, methods, and theories;</li> <li>5. Drawing up of professional projects involving the use of several methods and principles acknowledged in the field</li> </ol>
Transversal competences	- <i>not needed</i>

7. Course objectives (as per the programme specific competences grid)

7.1 General objectives of the course	- to develop the students' capacity to know and understand the fundamental concepts about commodity and conditions needed to establish relations between the producer, dealer, and consumer
7.2 Specific objectives of the course	<ul style="list-style-type: none"> <li>- to develop the students' capacity to know and understand the fundamental concepts about commodity and the conditions needed to establish relations between producer, dealer, and consumer</li> <li>- the study of the main concepts about commodity during their entire way, from design, production, circulation, consumption up to post-consumption, taking into account their pre- and post-existential stages as well</li> <li>- to develop the capacity to know and understand the use of value, systematics, quality and quality guarantee in close connection with commodity packaging, maintenance, transport, manipulation, and commercialization</li> </ul>

	<ul style="list-style-type: none"> <li>- the capacity to know and understand the commodity psycho-sensorial, physical, chemical and microbiological properties</li> <li>- to develop skills for psycho-sensorial tests with a view to establishing the quality sensory characteristics of commodity</li> <li>- to understand and develop skills with a view to applying control and verification methods to check up the quality of the product and service</li> <li>- to understand and know the principles of commodity codification and systematization</li> <li>- to understand and know the object, field, and levels of standards</li> <li>- to develop the knowledge and understanding of the fundamental concepts about commodity marking, labeling and packaging</li> <li>- to know and understand the fundamental concepts of commodity expertise</li> <li>- to know and assimilate the principles and legislative framework in the field of consumer behavior</li> </ul>
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## 8. Course contents

<b>8.1 Course (learning units)</b>	<b>Teaching methods</b>	<b>Remarks</b>
<b>1. OBJECT AND IMPORTANCE OF COMMODITY SCIENCE</b>  Object of commodity science; Importance of commodity science; Means and methods for the study of commodities; Commodity study from commodity perspective.	<i>Lecture, videos, exemplifications, discussions</i>	
<b>2. COMMODITY PROPERTIES</b>  General outlines; Physical characteristics; Chemical properties; Psycho-sensorial properties; Aesthetic properties; Chemical and physico-chemical methods for commodity quality control; Commodity quality control by non-destructive methods	<i>Lecture, videos, exemplifications, discussions</i>	
<b>3. PRODUCT AND SERVICE QUALITY</b> Concept of quality; Factors that influence the quality ; Quality functions; Documents for quality prescription; Documents for product quality authentication	<i>Lecture, videos, exemplifications, discussions</i>	
<b>4. CONTROL AND VERIFICATION METHODS FOR PRODUCT AND SERVICE QUALITY</b>	<i>Lecture, videos, exemplifications, discussions</i>	

Concept of product; Quality control methods; Quality control functions; Statistical control methods by flaws and qualities; Product reception		
<b>5. QUALIMETRY CONCEPTS</b> The object of qualimetry; Qualimetry methods; Indices employed in qualimetry; Quality assessment methods; Quality assessment indicators; Indices of weight for high quality products; Indices of non-quality; Reliability; reliability indicators; Maintainability; Maintenance; Availability	<i>Lecture, videos, exemplifications, discussions</i>	
<b>6. COMMODITY CODES AND CLASSIFICATION</b> General principles of commodity classification; Commodity classification and codification systems; Types of codes; Bar codes; Role of codification within the present context	<i>Lecture, videos, exemplifications, discussions</i>	
<b>7. PRODUCT QUALITY STANDARDIZATION AND ATTESTATION</b> General outlines; Object of standardization; Subject, content fields and level of standards; national standardization; Regional and international standards; Quality attestation	<i>Lecture, videos, exemplifications, discussions</i>	
<b>8. PRODUCT BRANDING AND LABELLING</b> General outlines of branding; Functions of branding; Types of brands; Methods for marking commodities; Trade mark protection; Product labelling; Ecological labelling	<i>Lecture, videos, exemplifications, discussions</i>	
<b>9. COMMODITY PACKAGING</b> General outlines; Package classification; Functional peculiarities and package efficiency; Quality of package; Methods of packaging; Indicators of package economic estimation	<i>Lecture, videos, exemplifications, discussions</i>	
<b>10. COMMODITY EXPERTISE</b> Falsification; Counterfeit; Use of non-alimentary substances for alimentary products; Use of alimentary products polluted by environment; The medical fraud	<i>Lecture, videos, exemplifications, discussions</i>	
<b>8.2 References</b>		
<ol style="list-style-type: none"> <li>1. Achim, M.I., <i>Bazele merceologiei</i>, Series Didactica, "1 Decembrie 1918" University of Alba Iulia, 2000</li> <li>2. Popa, M., <i>Bazele merceologiei- Îndrumător de laborator</i>, Series Didactica, "1 Decembrie 1918" University of Alba</li> </ol>		

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3. Popa, M., *Merceologia mărfurilor alimentare*, Series Didactica, "1 Decembrie 1918" University of Alba Iulia, 2005
4. Popa M., *Calitate si siguranța alimentara*, Casa Cartii de Știința (House of Science Book), Cluj Napoca , 2005
5. Falință, E., *Bazele merceologiei*, Mirton, Timișoara 1995.
6. Marieta, O., *Bazele merceologiei*, Eficient, Bucharest, 1999.
7. Mâlcomete, O., *Merceologie*, Publishing House of "Gheorghe Zane" Academic Foundation, Iasi, 1995.
8. Giaccio, M., Morgante, A., Riganti, V., *Merceologia*, Monduzzi Publishing House, Bologna, 1993;
9. Olaru, M., Ș.A, *Bazele Merceologiei – Lucrări practice și studii de caz*, Academy of Economic Studies, Bucharest, 1997
10. Falniță, E, Băbăiță, C., *Bazele Merceologiei – Lucrări și aplicați*, University of Timișoara,1993

<b>Seminars-laboratories</b>	<b>Teaching methods</b>	<b>Remarks</b>
<b>1. REGULATIONS ON THE LABORATORY FOR THE FUNDAMENTALS OF COMMODITY SCIENCE. EMPLOYMENT PROTECTION NORMS</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>2. Tools and operations used in the laboratory for the Fundamentals of Commodity Science</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>3. Sampling and sample preparation to establish the quality characteristics. Sample preservation and maintenance. Commodity expertise</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>4. Commodity psycho-sensorial exam</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>5. Commodity quality characteristics by physical and chemical analyses</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>6. Commodity weight, volume, and porosity</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>7. Commodity moisture</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>8. Ash content in alimentary goods</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>9.Viscosity of goods</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>10.Characteristics of commodity quality by methods of volumetric analysis</b>	<i>Lecture, discussions, lab analyses, work groups for the lab topic</i>	
<b>11. Semester topic – presentation (work teams) : The assessment of the quality characteristics of product X by</b>	<i>Lecture, discussions, lab</i>	

<b>specific methods of analysis</b>	<i>analyses, work groups for the lab topic</i>
<b>References</b> <ol style="list-style-type: none"> <li>1. Achim, M.I., <i>Bazele merceologiei</i>, Series Didactica, “1 Decembrie 1918” University of Alba Iulia, 2000</li> <li>2. Popa, M., <i>Bazele merceologiei- Îndrumător de laborator</i>, Series Didactica, “1 Decembrie 1918” University of Alba Iulia 2002</li> <li>3. Popa, M., <i>Merceologia mărfurilor alimentare</i>, Series Didactica, “1 Decembrie 1918” University of Alba Iulia, 2005</li> <li>4. Popa M., <i>Calitate si siguranța alimentara</i>, Casa Cartii de Știința (House of Science Book), Cluj Napoca , 2005</li> <li>5. Falință, E., <i>Bazele merceologiei</i>, Mirton, Timișoara 1995.</li> <li>6. Marieta, O., <i>Bazele merceologiei</i>, Eficient, Bucharest, 1999</li> <li>7. Mâlcomete, O., <i>Merceologie</i>, Publishing House of “Gheorghe Zane” Academic Foundation, Iasi, 1995.</li> <li>8. Giaccio, M., Morgante, A., Riganti, V., <i>Merceologia</i>, Monduzzi Publishing House, Bologna, 1993;</li> <li>9. Olaru, M., Ș.A., <i>Bazele Merceologiei – Lucrări practice și studii de caz</i>, Academy of Economic Sciences, Bucharest, 1997</li> <li>10. Falniță, E, Băbăiță, C., <i>Bazele Merceologiei – Lucrări și aplicați</i>, University of Timișoara, 1993</li> </ol>	

**9. Corroboration of course contents with the expectations of the epistemic community’s significant representatives, professional associations and employers in the field of the academic programme**

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**10. Assessment**

Activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Percentage of final grade
10.4 Course	<i>Final assessment</i>	<i>Verification during semester</i>	70%
	-	-	-
10.5 Seminar/laboratory	<i>Eg: Verification during semester/final assessment</i>	<i>Eg. Tests – practical works: principles, methodology, applications Project elaboration/presentation</i>	30%
	-	-	-
10.6 Minimum performance standard:			
Stipulated in the grid of competences in the field: Object and aim of commodities, properties of commodities, control and verification methods for product and service quality; C1, C2, C4,			

Submission date

Course leader signature

Seminar tutor signature

Assoc. prof. MARIA POPA, Ph. D.

Date of approval by Department members

Department director signature

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