## Product and Quality 2018/19 Description of selected product type

It should have approximately 7- 10 pages, short description and basic information relevant to topic. Source of information can be based on information sources from teacher. Presentation takes part at given date or later (according to changes in program). In case of delay in seminar paper preparation will points for presentation not given. Paper will be prepared in paper form and in electronic form. Papers or part of the content of seminar paper will be published at internet and build also study materials of exam.

cha				
pter	Name of chapter	Tasks and questions related with the tasks		
	Introduction and			
	principle	Characterization of product and its producer, motives for choice of this		
1.	characteristics	product		
		• Find approximately 20-30 different attributes, features,		
		characteristics of this product		
		• Characterize these attributes if they are objective (value does not		
		depend on subject) or subjective (perception depends of subject),		
		quantitative (with unlimited number of conditions – i.e. speed) or		
		qualitative (with limited amount of alternative – i.e. number of		
		airbags, ESP system yes or not), complex (attribute consists from		
		more partial attributes) or simple (basic attributes building complex		
	Due dough ethnikootee	attribute and according there importance during product life		
2	Product attributes and analysis	(development – production – sale – consumption- waste management; very important- important -less important)		
	allu allalysis	Choose 5-7 attributes which you consider as the most important for		
		consumer perception and evaluation of products and for utility of		
		product. Take care that this attributes should be on similar level of		
	Evaluation of	complexity and they should not be part of other complex attributes.		
	product	Create AHP structure for this attributes and if you can develop it on		
	characteristics and	additional level (complex attribute build from simple attribute)		
	analysis of	• Use pairwise comparison to identify the role of every attributes for		
3	charakteristics	perception of product.		
		• Identify among attributes from task 2 the most important attributes to		
		prepare production process and production of the product.		
		• Identify the metrology units which will be used to characterize product		
	Metrology and	through objective measurable attributes.		
	product	• Is there any requirement for metrology coming from legal metrology and		
4	measurement	legislation? If yes which one a how it influence the market decisions.		
		Identify the position of your product in Taric system using  http://documents.com/factorie/factor		
		http://ec.europa.eu/taxation_customs/dds2/taric/taric_consultation.js		
		<u>p?Lang=en</u> or <u>http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?Target</u>		
	Product	Url=LST_NOM_DTL&StrNom=CN_2016&StrLanguageCode=EN&IntPcKe		
5	classification	y=&StrLayoutCode=HIERARCHIC		
	Classification	y won Edyout Code - Intervitoring		

		Identify the position of your product in CPA classification			
		http://ec.europa.eu/eurostat/ramon/nom			
		enclatures/index.cfm?TargetUrl=LST_NOM_DTL&StrNom=CPA_20088			
		trLanguageCode=EN&IntPcKey=&StrLayoutCode=HIERARCHIC			
		Identify some of standards which can be used for your product using			
		the http://www.iso.org/iso/home/store/catalogue_ics.htm			
		Are existing European standards in relevant field as well? Find if and			
		how are international standards adapted in European standards			
	Product related	structure using			
6	standards	http://standards.cen.eu/dyn/www/f?p=CENWEB:105::RESET::::			
		What are main legal requirements for you selected product type in			
		European Union? Use for search of relevant information <a gepir.gs1.org="" gtin.aspx?lang='en-US"' href="http://eur-nt.new.new.new.new.new.new.new.new.new.new&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;lex.europa.eu/advanced-search-form.html?locale=en&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;Conformity&lt;/td&gt;&lt;td&gt;Is your product belonging under New Approach system? Which  disasting of New Approach system?&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;Conformity and&lt;/td&gt;&lt;td&gt;directives of New Approach you should apply for your product type in&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;7&lt;/th&gt;&lt;td&gt;legislation&lt;/td&gt;&lt;td&gt;your opinion and why? You can use webpage http://www.newapproach.org/&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;b&gt;-&lt;/b&gt;&lt;/th&gt;&lt;td&gt;requirements Quality&lt;/td&gt;&lt;td&gt;Find at least one company with certified quality management system&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;management&lt;/td&gt;&lt;td&gt;and producing your type of products and shortly describe its approach to&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;8&lt;/th&gt;&lt;td&gt;system&lt;/td&gt;&lt;td&gt;quality on the base of information offered in internet.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Which packaging materials are used for your product?&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Which packaging material can be and/or are used for the product&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;category you have chosen?&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Compare benefits and negatives of each material on the base of main&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;product packaging functions.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Evaluate packaging of your product by packaging functions and make&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;9&lt;/th&gt;&lt;td&gt;Packaging&lt;/td&gt;&lt;td&gt;suggestion for packaging improvement.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Which information about product can you identify at packaging? Classify&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;they according the character (obligatory information – voluntary&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;information) and according their credibility (marketing information –&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;objective proved information)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;• Is product coding used on packaging? Which EAN code was used for&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;selected product item? Try to identify relevant producer information&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;from EAN code using webpage &lt;a href=" http:="" v32="" xx="">http://gepir.gs1.org/v32/xx/gtin.aspx?Lang=en-US</a>			
	Product relevant	Do you know some example of use of marketing information on			
	and labeling	packaging from competitors? Can you identify which and on? If yes			
10	information	which one a how it influence the market decisions.			
		Which systems of evaluation, testing and conformity assessment can			
		you use for this product type? Find some example of labeling,			
		certification which can be/are used for your products.			
		• Find examples of used of such systems for own and/or competitive			
		products of same product group?			
		Where you can find results of tests of product available on the market,			
	Product testing and	consumer testing and different form of independent evaluation of			
11	prove of quality	products?			

12	Intellectual property	<ul> <li>What kind of intellectual property you can use for your product and what attributes, components and parts of product can be protected in different form of intellectual property?</li> <li>Are there existing forms of protection in your product group? Show some example of use of industrial and intellectual property searching the <a href="https://register.epo.org/regviewer">https://register.epo.org/regviewer</a></li> <li><a href="https://www.tmdn.org/tmview/welcome">https://www.tmdn.org/tmdsview-web/welcome</a></li> <li><a href="https://www.tmdn.org/tmdsview-web/welcome">https://www.tmdn.org/tmdsview-web/welcome</a></li> </ul>
	Environmental	<ul> <li>What you can consider as main environmental attributes and what are the most important negative impact of your selected product type on environmental?</li> <li>Are there some models existing to support environmental friendly alternative of your products?</li> <li>Can your product obtain national ecolabel in your country and/or EU –</li> </ul>
13	aspects of product	Ecolabel? Search in <a href="http://ec.europa.eu/environment/ecolabel/">http://ec.europa.eu/environment/ecolabel/</a> .

## **Criteria of Seminar Paper Evaluation:**

• Information value - used sources of information and quantity of	
obtained information	
• Analytic part, use of instrument and tools, analysis of situation	13
• Strategic aspect, proposals, results, personal value added	9
• Formal outlook and form of presentation, principles of printing, citation, language quality	5
Summe	

## **Criteria of Seminar Paper Evaluation:**

- Semester paper presentation takes part during last two week of semester on seminars.
- Presentation aim is elaborate content of paper and present in interesting form. Presentation should inform about preparation and content of paper, main findings by situation analysis and proposal for improvement.
- Time for presentation is among 15-20 minutes according the number of presented papers and time available for presentation.
- For presentation will be basic equipment available (notebook, projector).

**Evaluation criteria of presentation** 

•	Formal form of presentation- quality of prepared materials	6
•	<b>Internal quality of presentation</b> -ability point out most important and most interesting paper findings and results, ability react on question and comments	7
•	<b>Personality</b> – individual appearance of person- presentation, behaviour, individuality, personality	7