

## **About myself**

Diploma of engineer mathematician (Kaunas University of Technology, Applied mathematics study program)

Phd degree: Doctor of social sciences.

University of Management and Economics (ISM). Dissertation theme: "Substantiation of multidimensional marketing information system: concept and model"

Pedagogical Certificate of Associated professor of informatics (docent) (Vilnius University)

Assoc.prof. of Vilnius University, Lithuania Business career: director of bookstore, marketing and IS manager at travel agency, engineer programmer

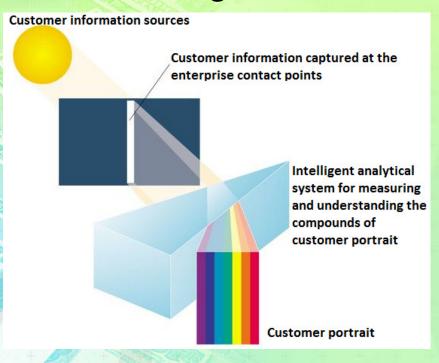


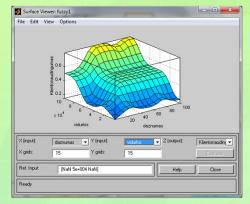
# Every drop in the ocean counts [Yoko Ono]



#### Research themes

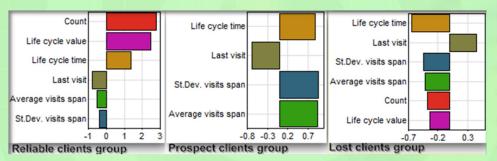
The research is oriented to application of artificial intelligence, computational methods for business data analysis in domains of financial markets, marketing and surveillance systems





	Classification (1)	
	Classif0.1	
Total	91.0000	101.0000
Correct	80.0000	71.0000
Wrong	11.0000	30.0000
Correct(%)	87.9121	70.2970
Wrong(%)	12.0879	29.7030

$$SE = -\frac{1}{\log_2 2^L} \sum_{i=1}^{2^L} r_i \log_2 r_i$$



#### **Timetable**

Part 1: Oct.22 Mon 14:00-17:50 C525

Part 2: Oct.23 Tue 8:00-11:50 G101

Part 3: Nov. 05 Mon 14:00-17:50 C525

Part 4: Nov. 05 Tue 8:00-11:50 G101

Part 5: Dec.10 Mon 14:00-17:50 C525

Part 6: Dec.11 Tue 8:00-11:50 G101

Assessment session: 1-2nd week of January

#### Course objectives

The module is aimed to:

- provide advanced interdisciplinary knowledge and
- augment skills for creating enterprise information systems,
- analyse needs for support of marketing management processes
- ∞ integrate business analytics to marketing
- enhance the performance of marketing management specialists by managing information

## Course objectives

#### The teaching module:

- introduces creation principles and variety
   of concepts used for building marketing
   information systems (MkIS),
- provides knowledge of the functional components and structure of MkIS,
- ∞ develops ability to distinguish and apply specific analytical computational methods



- ∞ The students will:
- ∞ deepen their scientific writing skills
- apply methods of virtual team learning for fulfilment of assignments in MkIS area
- - ≈ cloud-based applications
  - ≈ intelligent computational tools
  - ≈ functional modules of the integrated systems,
  - ≈ market games,
  - ≈ applied software for marketing decision-making, planning and control.

- Definitions, functions, requirements for the marketing information systems (MKIS).
- The users of marketing information
- The user' requirements for the information content, inputs, retrieval and presentation.
- □ Investigation of the theoretical and experimental research in MkIS area in the scientific literature.

#### **Assignment 1- Part 1**

Tools & software: online scientific databases, including library.muni.cz

1st Assignment has two parts:

Part 1: starting the scientific article
(abstract+introduction+analytical part+reference)

Part 2: completing the scientific article (solution+experiment+conclusion+submission)

Part 1: (individual/team) and lab work training- scientific writing skills: analytical part. Exploring publications in scientific databases Springer, Thomson, Emerald, Elsevier, IEEE, etc. Writing in virtual teamwork space.

- Types and functions of management information systems
- Their usage for the marketing purposes: operational, analytical, OLAP, expert, executive, decision-support systems.

Tools &software: Sugar CRM
Lab work training for cloud-based
marketing application

Management processes of the marketing manager. Information supply for their performance:

- ∞ analytical and control applications:
- ∞ pivot tools,
- ∞ dashboards
- computational intelligence methods for marketing

**Tools &software:** *MS Excel* pivot module, *Statistica* advanced models, *Viscovery SoMine* trial

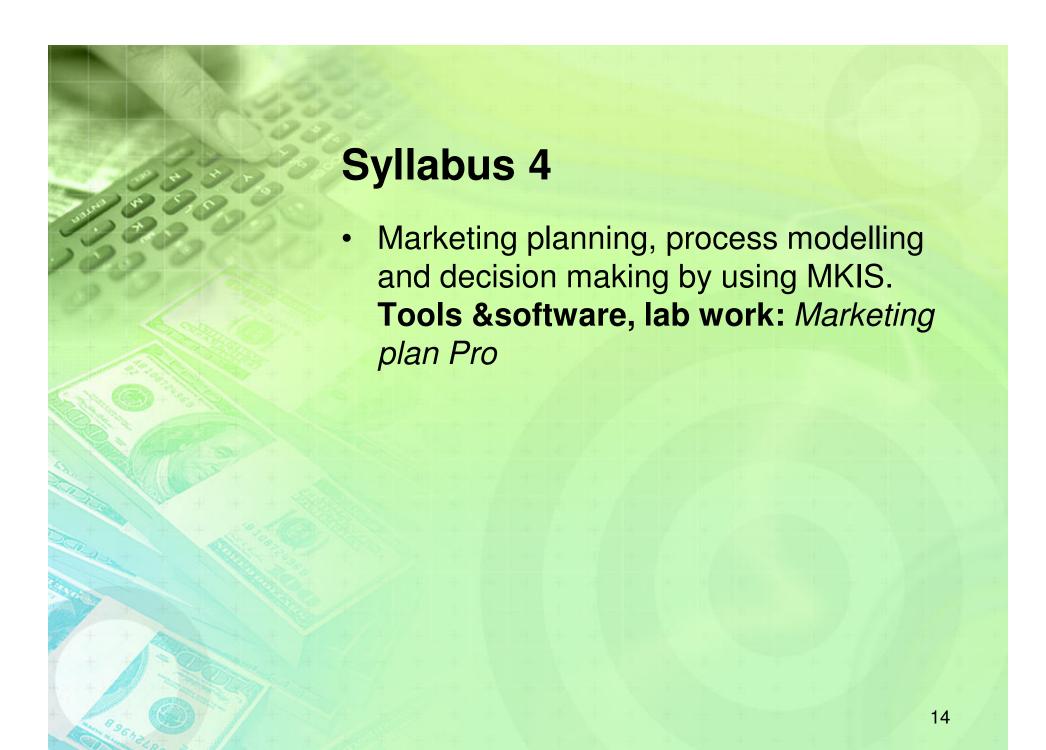
#### **Assignment 2**

Tools &software: Sugar CRM, MS Excel pivot module, Statistica advanced models, Viscovery SoMine

2nd team assignment and lab work training:

Operational CRM (Sugar CRM)

Analytical CRM (CRM performance analysis by applying computational intelligence methods: neural networks, fuzzy rules, Kohonen self organizing networks)



## **Assignment 3**

3rd team assignment and lab work training - Marketing planning and its linking to the design of MkIS structure and processes of the enterprise

Tools &software: Marketing plan Pro

Marketing models at the enterprise.

Application of business simulation games for marketing

**Tools &software (demo):** CESIM modelling solutions: *OnService, SimBrand, Hospitality, GlobalCHallenge* 

- ∞ Creating MIS in the enterprise
- Interrelationships with other computerized systems inside and outside the enterprise.
- Variety of concepts for structure and processes of the MIS models.
- ∞ ERP application for marketing.

**Tools &software (demo):** The marketing – oriented tools of *MS Dynamic Axapta* 

#### **Assignment 1- Part 2**

1st Assignment (two parts- Part 2) (individual/team) and lab work training - scientific writing skills: marketing IS- related solution and experimental part.

Submission of the article, prepared by fulfilment of Assignment Part1+Part2 according to the requirements of scientific reviewing process



Assignment 1 Scientific article Part1+Part2
Assignment 2 Operational + analytical CRM
Assignment 3 Marketing plan + MkIS
Colloquium

#### Literature

Berry, M.,J.A., Linoff, G.S. (2011), "Data Mining Techniques: For Marketing, Sales, and Customer Relationship Management", (3rd ed.), Indianapolis: Wiley Publishing, Inc.

Wood, M., B. (2005). The marketing plan handbook (2nd edition). Upper Saddle River, New Jersey: Pearson Education Inc. (Marketing Plan Pro 6.0 software embedded)

Ball, D., A., McCulloch, W., H., Frantz, P., L., Geringer, J., M., Minor, M., S. (2006) International business. The challenge of global competition. 10th edition. McGraw-Hill/ Irwin

CESIM business modelling games (<u>www.cesim.com</u>)

Sugar CRM Implementation <a href="http://www.optimuscrm.com/index.php?lang=en">http://www.optimuscrm.com/index.php?lang=en</a>

Statsoft: the creators of Statistica <a href="http://www.statsoft.com">http://www.statsoft.com</a>

Viscovery Somine <a href="http://www.viscovery.net/">http://www.viscovery.net/</a>

MS Axapta Dyn. <a href="http://www.microsoft.com/en-us/dynamics/erp-ax-overview.aspx">http://www.microsoft.com/en-us/dynamics/erp-ax-overview.aspx</a>

Online scientific databases accessed via library.muni.cz Kotler, Ph. Marketing management (any edition)