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## Appendices

### A 1. Course Credit – *Venture design*

Often it is heard that we are well-educated people, that our people are able to do much more than others in Europe, but having **looked around with open eyes** with no ideological spectacles, it is difficult to find any confirmation of this statement. Maybe it is true that we know more, but the **source of success** does not lie on the side of knowing, but **wise doing** (*see the chapter about knowledge*). This means that knowledge must be **operational, tested and ready for implementation**. It can therefore be assumed that many Western students have much less encyclopedic knowledge, but they know how to use this knowledge successfully. To bring us closer to this state, the **condition** of the course credit is:

to prepare your own *venture project solving a specific problem or specific need*.

It can be the problem that we see at home, at school, in our close or distant surrounding.. I will be happy to see some innovative projects ready for implementation in ecoengineering, information technology and other high-tech fields. And since soon each of you will become independent, try to design something on which you can live with your family. The guidelines on how to do that can be found in the chapter about design; they are summed up by the map shown in Figure 7.22.

Yes, it is almost everything and yet more needs to be done and then described in a concise manner, giving all the quantitative data (*such as the numerical assessment of a market niche, cost, timing*), the sources which were used (*unless you want to be suspected of theft*). Please read the mind map thoroughly and start to implement the project from the beginning of the semester. I am happy to offer consultations, and a **month before the end** of the semester I am going to ask for a report of a dozen or so of pages, developed in a nice form, written as mini-thesis, with a summary, the current title (*with header - footer*), etc. Before giving it to me, please ask a favorable but not knowledgeable colleague / friend to read it and **point out what he/she** does not understand. In this unusual way you will help yourself very much to understand the problem, and your project will become more clear and transparent and it will be the **editorial model**, which I wish all of you. The comments how to do this were written in several points below presents the text presented always on the lecture at the beginning of the course, with appropriate commentary

### Final work - the conceptual design (*implementation*) of a venture

#### Here and Now

*(as an exemplification of your operational knowledge)*

#### What to design ?

a) a service station, a network of service, validation, recycling, knowledge base, a company, corporation, municipal waste management, workshop service, fuel, gas, hydrogen station, a network of stations, production and distribution network, reuse of materials, ....

- b) new / modified or **eco, high tech products**, for example an alternative transportation, scattered sources of renewable energy in a poly-generation farm, aero generators.....
- c) Anything in one own's environment, house, life, work, that is a problem and needs to be resolved.

## II. The description of the realization form of the project

1. The front page with the identification of the place (Uni, Faculty), subject, title and type of the development, the time specified with a precision to a month, the working title, etc.
2. On the second page the **contents** and **the heading** of the project.
3. Third page, Summaries (*two half page on one page: in Polish and other language*)
4. The topic, scope, purpose, ..- the need and its importance, the range - one's own **choice**.
5. The input data (*the area and validity, the method of obtaining, resources, )* to achieve an objective.
6. The mind map of the problem may be presented at the end - in the Annex.
7. The concept of meeting the need - the possible **alternatives, risk** assessment!
8. The choice of the optimal product / service - **reasons for choosing?** Allowance from the company if its beneficial!
9. The sources of financing and the reduced business plan - the costs.
10. Timetable (*two dimensional, colorful*) of the implementation / realization - when?
11. The description of the draft standard with footnotes and quotations sources (*folders, Internet*) and literature such as [Cempel 02,p12] in the text, 5 - 15 pages, with attachments
12. A summary of the project, with a view to the future and the impact on the environment.
13. Index of literature, and **sources cited** in the text work; author, title, where, when, pages; the same applies to Internet, leaflets, and folders with the data, etc.

### Important Note:

- A. Deliverable by at least 3 weeks before the end of classes in a given semester
- B. There may be further presentation of the state of the project (progress) during the classes
- C. Please choose the topic thoughtfully and responsibly - (*for example: it should be the source of my subsistence and personal fulfillment*)
- D. Please, attach a mind map of the project realization (*venture*)

*I wish you the joyful creation and success*

CC

## A 2 – Links to the Word Wide Web (WWW) for the expansion of the course material and self study

Although in the text and literature links to network resources (URL) were given, it seems reasonable to group them, and especially to add new ones. The intelligent use of them while being on the network shows us the power of hypertext and the unparalleled base of knowledge, namely the mind and the library of the entire world in one. But please, beware of rubbish; it is everywhere, even in our minds!

**Good luck!**



- **Wikipedia** <http://en.wikipedia.org>
- **International Institute for General Systems Studies;** <http://igss.math.swt.edu/>
- **Los Alamos Dynamics Group;** <http://www.la-dynamics.com/>
- **Bionomics Institute;** <http://www.bionomics.org/>
- **New Civilization Resources;** <http://newciv.org/worldtrans/newcivilization.html>
- **Data Mining - Erudit Mitgmbh;** <http://www.erudit.de/erudit/events/coil2000/index.htm>
- **The Santa Fe Institute** <http://www.santafe.edu/>
- **Artificial Life Software** <http://alife.santafe.edu/alife/software/>
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- **Kansei Engineering** <http://www.stakes.fi/include/1-7-11.htm>
- **Computer Aided Design; (przykładowe)** <http://www.ptc.com>
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- **Virtual Engineering Solutions;** <http://www.vesolutions.com/>
- **Nanotechnology Sites on the WWW;** <http://www.imm.org/Links.html>
- **The WW W Virtual Library; -**  
<http://www.w3.org/pub/DataSources/bySubject/Overview.html>
- **Links on Complexity, Self-org. Art. Life** <http://pespmc1.vub.ac.be/COMSELLI.HTML>
- **Principia Cybernetica Systems Theory Web** <http://pespmc1.vub.ac.be/DEFAULT.html>
- **ERGO Europe Search Engine** <http://www.cordis.lu/ergo/>
- **Systems Thinking Simulation Software** <http://www.hps-inc.com/>
- **The Engineering Zone -**  
<http://www.flinthills.com/~ramsdale/EngZone/design.htm>
- **Life Cycle Analysis (LCA) Publications;** <http://ats.ornl.gov/lca/lcapubs.html>
- **Life Cycle Assessment (LCA) – Pre®;** <http://www.pre.nl>
- **Power of music - Superlearning -**  
[http://www.superlearning.com/content/attach\\_music.htm](http://www.superlearning.com/content/attach_music.htm)
- **Buzan Center of Performance Improvement;** <http://www.buzancentre.com/>
- **Chaos Research Group;** <http://www-chaos.engr.utk.edu/>
- **Webopedia: Dictionary for Internet Terms;** <http://webopedia.internet.com/>
- **Systems Forum;** <http://www.outsights.com/forum/systems/welcome.htm>
- **Reverse engineering Definition and Links -**  
[http://www.pcwebopedia.com/reverse\\_engineering.htm](http://www.pcwebopedia.com/reverse_engineering.htm)
- **Google Simple, Fast & Free Search;** <http://www.google.com/>
- **CXO Magazyn Kadry Zarządzającej;** <http://idg.com.pl>
- **Mozart effect, subliminal ;** <http://www.mozarteffect.com;> <http://www.megabrain.com>
- **Complex Adaptive Systems - CAD,** <http://calresco.org>
- **Conservation Economy;** <http://conservationeconomy.net/>
- **Environmental Business Information Center;** <http://www.environmental-expert.com/>
- **Europejskie Centrum Energii Odnawialnej;** <http://www.ecbrec.pl/pl/historia.html>
- **Important inventions;** <http://www.1000inventions.com/>