

PRESENTATION DESCRIPTION

RESEARCH PRESENTATION DESCRIPTION

Each presentation must consists of the following two parts.

Part 1 (40pts)

It is a **lecture type** 25 minutes long presentation (see description below).

Part 2 (20pts)

It is a short, 5 minutes presentation of a research paper, or an application (see description below)

Presentation Part 1 main goal is to **teach others** the material. It is a detailed, lecture type presentation. It can be based on, or extending the content of the book, book slides (if you need them come and copy from me), my slides, or any other sources.

Presenters have to put time and effort into **understanding the material**, present it slowly and be prepared to answer questions.

Remember that "I don't understand" is also an answer, but don't over-use it! The better answer is: "the book is not very clear, I think that it is ..., or I understood it as ...".

Presentation Part 2 is a presentation of a research paper, or a newest commercial application **connected with** the subject covered in the Presentation Part 1.

The structure of the **Presentation Part 2** is as follows:

1. If you present a paper you must include on your first slides authors names, title and place (journal, conference) where it was published and the date of the publication, or any other source of the paper you use.

You must PRINT a copy of the paper and put it in your **Presentation Folder**.

2. If you present a commercial application you must find relevant data about the application and include it in your **Presentation Folder**.
3. Each group member must present some part of the whole group work. The format of how you decide to do it is left to you as a group.

Presentation General Format

First slide must contain: Presentation Title, Presentation TEAM NUMBER, team members names and student IDs, Professor name, course number and course name.

Second slide must contain ALL sources you used for the your presentation. The book is included. In the case of the book the reference you have to put are title of the chapter, sections and pages numbers.

Third slide is an OVERVIEW of your presentation.

Remember to include a **source** of any picture, of any slides copied from a source, or any DIRECT citation on the bottom of each of your slides where it appears.

Presentation has to be given in **teams** of 4 students.

Presenters will be graded for the presentation skills, the content, organization, clarity, and amount of work put into research and preparation form and delivery.

Each member of the team has to present his/hers own well defined part and will be graded individually on this part as well as a part of overall evaluation of the group.

Presentations will be available on the course webpage for other students to help them to write their **final presentations reports**.

Of course students **should** attend the presentations to **learn** the material and evaluate the presentation delivery.

I will **collect** their **preliminary reports** (Part Four of the Final Report) written in class during the presentations.

Presentation Folder

Each team must give to Professor their **Presentation Folder** before they start the presentation.

The Presentation Folder must be labeled with students names, ID and Presentation TEAM number. It must contain the following.

1. A hard copy of the presentation (black and white in slide spread format)
2. PRINTED a copy of the paper, if you present a paper.
3. If you present a commercial application you must find relevant data about the application.

You receive 0-10pts for the organization and content of the Presentation Folder.

PRESENTATION SUBJECTS - students can find their own subjects; here are some **possible** subjects.

Data Warehouse and OLAP technology for Data Mining. (Chapter 3 of the Book)

Data Cube Computation and Data Generalization (Chapter 4 of the Book)

Statistical Methods 1: Statistical Prediction, Prediction by Regression, other purely statistical methods

Statistical Methods 2: Classification by Neural Networks

Statistical Methods 3: Bayesian Classification.

Statistical Methods 4: Cluster Analysis. A Categorization of major Clustering methods.

Evolutionary Computing: Genetic algorithms as optimization, Genetic algorithms as classification. Other evolutionary computing methods.

NEW ADVANCES in Data Mining, for example.

Deep Learning

Web Mining: an overview of methods and problems

Text Mining: an overview of methods and problems

Visualization and DM techniques

Natural Language Processing and DM techniques

FIND YOUR OWN subject and discuss it with the Professor.