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## **CMT4240 coursework 1 revised 27 topics**

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You will be given two pieces of coursework, the first being a group summary with an oral presentation and the second being the development of a prototype which has to be documented in a project folder and demonstrated in the lab.

The summary and the project folder have to be handed in to the Student Office at Trent Park where it will be dated (stamp). For your own protection you should complete a receipt form that you hand in with the coursework. If the student office is open, you can hand in coursework and receipt to the officer behind the counter. If the student office is closed you can use the letterbox next to the counter. Post your coursework including the completed receipt form through this letterbox. The student office empties the letterbox every workday at 5pm. You can pick up your receipt during the opening hours of the student office.

Written work should normally be handed in on the campus at which the module is being taught; if for any reason you have to hand it in at another campus please point this out to the student office so that it can be sent to the correct campus. If, in an emergency, you have to send in written assessed work by post you must send it by recorded delivery to the appropriate student office and you will have to keep the Post Office receipt. It will be deemed to have been submitted on the date of the postmark.

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### **Coursework 1: Summary and oral presentation of a key HCI topic**

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Summarising particular topics and giving oral presentations are essential to professional performance. Therefore, you will be required to read an allocated topic, to summarise it, to write a summary of approximately 300 words (one page) and to present the topic to your colleagues in the seminar. You will also be asked to prepare another topic to ask questions after another person's presentation.

The topics are listed below. Each topic refers to one or two chapters in Jenny Preece's book Human-Computer Interaction. You are expected to start with this chapter and to read in more detail in other books and journals. Potential resources are listed in the section 'Reading Materials' at the beginning of the handbook. In week 1 we will assign the topics in the seminars. Each of you will have at least three weeks to prepare the summary of their own topic (~300 words) and/or 6 questions for another topic.

The **summary** has to follow the structure laid out below.

The summary should in the first instance be based on the related chapters of the Preece-textbook, but you also need to consult other textbooks (Dix) and other information resources, e.g. the Internet or Journal articles.

You have to submit your summary to the Student office at Trent Park in week 4. **The deadline is Friday Week 4 at 3pm.** The student office has forms that serve as cover page and marking sheet. They have a receipt form attached. You need to complete both forms with the module code, name of the module leader and your names and student numbers on it in order for the student office to know to whom to forward it to. **Do not use plastic wallets!** Simply staple your coursework or put it in a folder that can be easily opened!

You will also have to bring 20 copies of your summary to the seminar. Alternatively you can send the summary to all students and teachers of the module by email and bring only 5 copies to the seminar one of which is for the lecturer/seminar tutor. Late submission, missing cover pages and missing handout summaries in the lecture will inevitably lead to minus marks. This will be 1 point for each day that the submission is late (weekends count as two days), and 1 point for missing cover pages or missing handout summaries.

The **presentations** will take place in the weeks 5 to 10 and will take 10 minutes. You are expected to prepare up to three slides for your presentation, preferably in PowerPoint. In order to give you a fair chance for a good presentation we will briefly discuss presentation skills in week 4. In the section 'General hints and tips' you find a brief introduction on how to give a good presentation and how to make good slides. In the same section you also find the structure for the summary. The summary and the presentation together will be worth 30% of the total coursework mark, which is 15% of the total grade for this module.

Each presentation will be followed by a discussion, which will be started off by **questions** prepared by another student. You have to write down 6 questions, that will be collected at the end of the session. The assignment of question topics will also be done in the seminars. The questions themselves are not going to be marked. However, if you fail to prepare your questions you will face a penalty of 3% of the coursework mark.

## **Topics for Coursework 1**

### **1. Understanding users**

- 1 Perception and representation (Preece, chapter 4), week 5
- 2 Human attention and memory (Preece, chapter 5), week 5
- 3 Mental models and knowledge representation (Preece, chapter 6), week 5
- 4 Conceptual models and Metaphors (Preece, Chapters 7), week 5
- 5 Educational aspects: Learning (Preece, chapter 8 and Don Tapscott chapter 7), week 6
- 6 Social and organisational aspects (Preece, chapter 9 and 10, Don Tapscott, chapter 13), week 6
- 7 Children and Internet (Don Tapscott, growing up digital, chapters 1-6) week 6 \*
- 8 Children and Internet (Don Tapscott, growing up digital, chapters 8-12), week 6 \*

### **2. Understanding Computer-Technology**

- 9 Input and Output devices (Preece chapter 11 and 12), week 7,
- 10 Interaction styles (Preece chapter 13), week 7,
- 11 User support and On-line Information (Preece chapter 15), week 7,

### **3. Design methods**

- 12 Principles of user-centred design (Preece, chapter 17), week 8,

- 13 Methods for user centred design (Preece, chapter 18), week 8,
- 14 Gathering requirements (Preece, chapter 19), week 8, \*
- 15 Task analysis (Preece, chapter 20), week 8, \*
- 16 Structured design (Preece, chapter 21), week 9,
- 17 Envisioning design, (Preece, chapter 22 and Dix chapter 5.5), week 9,
- 18 Prototyping (Preece, chapter 27), week 9, \*
- 19 Guidelines and Standards (Preece, chapter 24 and 25), week 9
- 20 Design rationale (Preece chapter 26) week 10 \*
- 21 The Pattern Approach, theoretical framework (Jan Borchers, chapters 1,2and 3) week 10 \*
- 22 The Pattern Approach, Principles and Evaluation methods (Jan Borchers chapters 4 and 5)week 10 \*

#### **4. Evaluation**

- 23 Observation, monitoring, user opinion (Preece, chapter 30), week 11, \*
- 24 Experiments and benchmarking (Preece, chapter 31), week 11, \*
- 25 Interpretative evaluation (Preece, chapter 32), week 11,
- 26 Predictive evaluation (Preece, chapter 33), week 11
- 27 Comparing evaluation methods (Preece chapter 34) week 11\*

#### **Assessment**

Coursework 1 is worth 30% of the total coursework (=15% of the total mark of the module). Half of the coursework 1 mark goes towards the summary and the other half towards the presentation. 3% of the coursework mark will be deducted for missing questions on another student's topic.

The assessment criteria for each part are the following.

##### Presentation

(including slides)

Content

Clarity and structure

Visual aids

Speech and interactivensess

Time management

##### Summary

Content

Clarity and conciseness

Presentation, and style

Grammar, spelling, and expression

##### Questions

No marking, but penalty for missing questions.

### **Topic pairs for presentation and questioning**

The table below lists the number of the presentation topic that goes together with the questioning topic. For instance, if you sign up for the presentation topic no 4 (conceptual models and metaphors) you automatically sign up for topic no 14 (structured design) as questioning topic.

<b>Topic presentation</b>	<b>Topic questions</b>
1	11
2	12
3	13
4	14
5	15
6	16
7	17
8	18
9	19
10	20
11	21
12	22
13	23
14	24
15	25
16	26
17	27
18	1
19	2
20	3
21	4
22	5
23	6
24	7
25	8
26	9
27	10

Amendments to this schedule can only be made by the module leader, i.e. by me.

If you for any reason cannot give your presentation or attend the session in which you are supposed to contribute with your questions you are kindly asked to inform the me, preferably in advance.

**Deadline Coursework 1 Summary of a given HCI topic: Friday 1.3.2002, Student office Trent Park.**