

HT22 5HI001 - "Computer Applications in Health Care and Biomedicine" course
Schedule of the course – 11 Nov. 2022

When: the course starts on **Monday 28th November 2022** and runs until **Friday 13th January 2023**.

Where: In Solna Campus. Rooms:

1 - Wretlind room - Floor 2 in Widerströmska huset - Tomtebodavägen 18a (from 28 Nov. 2022 to 19 Dec. 2022).

2 – David room - Floor 1 in Widerströmska huset - Tomtebodavägen 18a (from 09 Jan. 2023 to 12 Jan. 2023).

Study visits might be at the hosts' venues.

Notice 1: This is the schedule for course activities, including mandatory activities (i.e., activities that require compulsory attendance). Please save the dates and times for the planned sessions and the mandatory activities (dates and times are presented for Central European Time – CET time zone, i.e., Stockholm time). Topics for class activities are consolidated. Sessions with guest lectures are planned and confirmed. Deadlines and mandatory activities (including assignments and re-examinations) are consolidated, and they will not change. This schedule does not include the time you need for studying lectures, literature, or other learning materials. Lectures can be in person, in the class, online as Zoom meetings (only in special cases), alternatively provided as recorded videos.

Notice 3: Please make sure that you have a personal computer/ laptop available for practicing, as software tools running on personal computers/ laptops will be used in the course.

Notice 4: Composition of the Groups for the mandatory project on Public Health Informatics will be done by the teacher. Proposing groups is allowed. Ways of student grouping within the course will be discussed in the first session.

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#	Week 48 Date	Time	Activities	Lecturer	Room
1	Monday 28 th November 2022	from 10:00 to 12:00 from 13:00 to 14:00 + from 14:00 to 16:00	<ul style="list-style-type: none"> • Mandatory activity 1: Roll call + 0.1 Introduction to the course; 0.2 Description of the group activity for Public Health Informatics (PHI) group assignment • 1.2 Introduction to modelling health care processes. Recap on UML Activity diagrams + • Mandatory activity 2: Group activity on "Healthcare professionals' information needs". Groups work on modelling with Unified Modelling Language (UML) Activity Diagrams. 	SB	Wretlind
2	Tuesday 29 th November 2022	from 10:00 to 12:00 from 13:00 to 16:00	<ul style="list-style-type: none"> • 1.3 From patient data to medical knowledge. • 1.4 Introduction to Object Oriented Modelling. Recap on UML Class Diagrams. 	SB	Wretlind
3	Wednesday 30 th November 2022	from 10:00 to 12:00 from 13:00 to 15:00	<ul style="list-style-type: none"> • 1.5. Introduction to Medical Terminologies and Biomedical Ontologies"- Basic concepts • 1.5. Introduction to Medical Terminologies and Biomedical Ontologies" – ICD-9/10/11; SNOMED CT; FASS/LOINC 	SB	Wretlind

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4	Thursday 1 st December 2022	from 10:00 to 12:00 from 13:00 to 15:00	<ul style="list-style-type: none"> • 2.1 The Electronic Medical Record (EMR) - Part 1 • 2.2 - Introduction to Clinical Decision Support (CDS) - Part 1 	SB	Wretlind
5	Friday 2 nd December 2022	from 10:00 to 12:00 from 13:00 to 16:00	<ul style="list-style-type: none"> • 2.2 - Introduction to Clinical Decision Support (CDS) - Part 2 • Mandatory activity 3: Group activity on "Healthcare professionals' information needs". Groups present their models to the class. Class discussion. 	SB	Wretlind
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#	Week 49 Date	Time	Activities	Lecturer	Room
1	Monday 05 th December 2022	from 10:00 to 12:00 from 13:00 to 16:00	<ul style="list-style-type: none"> 2.1 The Electronic Medical Record (EMR) – a UML representation – Part 2 Mandatory activity 4: Group activity on Conceptual Data Modelling in Health Care context. Groups works on modelling with Unified Modelling Language Class diagrams. 	SB	Wretlind
2	Tuesday 06 th December 2022	from 10:00 to 12:00	<ul style="list-style-type: none"> 1.7 Introduction to Standards in Health Informatics 	SK	Wretlind

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3	Wednesday 07 th December 2022	from 10:00 to 12:00	<ul style="list-style-type: none"> 3.2 - Mobile Health Apps and frameworks for their assessment. 3.3 – User engagement in mHealth apps: Theory and practice Afternoon: no sessions, so you might attend the “Nobel Lecture” in Aula Medica. 	SB LK	Wretlind
4	Thursday 8 th December 2022	from 10:00 to 12:00 from 13:00 to 15:00 @16:00:00	<ul style="list-style-type: none"> 2.3 Modelling of clinical practice guidelines – Part 1 1.6 "Semantic interoperability in Health Care and Social Care", from the Socialstyrelsen - National Board of Health and Welfare. Publication of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI). 	SB Guests from Socialstyrelsen	Wretlind Online
5	Friday 9 th December 2022	from 10:00 to 12:00 from 13:00 to 15:00 from 15:00 to 17:00	<ul style="list-style-type: none"> 2.3 Modelling of clinical practice guidelines – Part 2 Mandatory activity 5: Group activity on Conceptual Data Modelling in Health Care context. Groups presents their models to the class. Class discussion. 2.4 Introduction to Telemedicine + Class Discussion 	SB GD	Wretlind Online
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#	Week 50 Date	Time	Activities	Lecturer	Room
1	Monday 12 th December 2022	from 10:00 to 15:00 from 15:00 to 17:00	<ul style="list-style-type: none"> • Mandatory activity 6: Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups work on modelling Clinical practice guidelines. • 1.8 SNOMED CT Analytics - Workshop by guests from SNOMED International (snomed.org) 	SB Guests from Snomed.org	Wretlind Online
2	Tuesday 13 th December 2022		<ul style="list-style-type: none"> • No class activity (St. Lucia) 		
3	Wednesday 14 th December 2022	from 10:00 to 12:00 from 14:00 to 16:00.	<ul style="list-style-type: none"> • 1.9 - Standardisation: why and how. Part 1 - Context, fundamental problems, strategies, and examples of solutions for Electronic Health Records • 2.5 - Study visit at Cambio CDS – (Drottninggatan 89, Stockholm) 	ES @Cambio	Wretlind

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4	Thursday 15th December 2022	from 10:00 to 12:00 from 13:00 to 16:00	<ul style="list-style-type: none"> 1.9 - Standardisation: why and how. Part 2 - Tool & system demonstrations, examples, Q&A Mandatory activity 7: Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups presents their models to the class. Class discussion. 	ES SB	Wretlind
5	Friday 16 th December 2022	from 10:00 to 12:00	<ul style="list-style-type: none"> Q/A session on Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI). 	SB	Wretlind
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#	Week 51 Date	Time	Activities	Lecturer	Room
1	Monday 19 th December 2022	from 10:00 to 12:00 from 13:00 to 15:00	<ul style="list-style-type: none"> 1.10 - Ethical, Legal and Social issues + Health Informatics Ethics – Class activity on Ethical Dilemma 4.1 - What is Public Health? Introduction to Public Health and Public Health Informatics 	SB SB	Wretlind
2	Tuesday 20 st December 2022				
3	Wednesday 21 st December 2022				
4	Thursday 22 nd December 2022	@23:59:00	<ul style="list-style-type: none"> Mandatory activity 8: Online Submission Deadline of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI). 		Online
5	Friday 23 rd December 2022				
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#	Week 52 Date	Time	Activities	Lecturer	Room
1	Monday 26 th December 2022				
2	Tuesday 27 th December 2022				
3	Wednesday 28 th December 2022				

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4	Thursday 29 th December 2022	@23:59:00	Online <u>Late Submission</u> of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).		Online
5	Friday 30 th December 2022	@16:00:00	Publication of Individual Assignment 2 - Consumer Health Informatics (CHI) + Public Health Informatics (PHI).		Online
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#	Week 01 Date	Time	Activities	Lecturer	Room
1	Monday 2 nd January 2023				
2	Tuesday 3 rd January 2023				
3	Wednesday 4 th January 2023				
4	Thursday 5 th January 2023				
5	Friday 6 th January 2023				
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#	Week 02 Date	Time	Activities	Lecturer	Room
1	Monday 9 th January 2023	from 10:00 to 12:00 from 13:00 to 15:00	<ul style="list-style-type: none"> Q/A session on Individual Assignment 2 - Consumer Health Informatics (CHI) + Public Health Informatics (PHI) Mandatory activity 9: Groups inform about title and stage of their projects on Public Health Informatics. 	SB SB	David
2	Tuesday 10 th January 2023	from 11:00 to 12:00 from 14:00 to 16:00	<ul style="list-style-type: none"> Quality registries in Sweden Q/A + Class Discussion From the US Centers for Disease Control and Prevention (CDC) - Projects on Public Health Informatics (Online) 	LS Guests from CDC	David
3	Wednesday 11 th January 2023		No class activity		
4	Thursday 12 th January 2023	@08:59:00 from 10:00 to 12:00 from 13:00 to 16:00	<ul style="list-style-type: none"> Mandatory activity 10: Online Submission Deadline of Mandatory Group Assignment. Mandatory activity 11: Seminar - Group activity presentations and feedback - Session 1. Mandatory activity 12: Seminar - Group activity presentations and feedback - Session 2. 	SB	David

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5	Friday 13 th January 2023		No class activity		
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7	Sunday 15 th January 2023	@23:59:00	<ul style="list-style-type: none"> Mandatory activity 13: Online Submission Deadline of Individual Assignment 2 - Consumer Health Informatics (CHI) + Public Health Informatics (PHI). 		Online
8	Monday 16 th January 2023	@00:15:00	<ul style="list-style-type: none"> Online <u>Late Submission</u> of Individual Assignment 2 - Consumer Health Informatics (CHI) + Public Health Informatics (PHI). 		Online

Re-examinations of Individual Assignments 1 and 2

=1= Re-Examination in **March 2023** - HT22 5HI001 - "Computer Applications in Health Care and Biomedicine" course. It will be opened on 6 March 2023, 16:00:00 Stockholm time. Then, deadline (due date) is 20 March 2023, 23:59:00 Stockholm time. Finally, availability date (late submission) is 27 March 2023, 23:59:00 Stockholm time.

=2= Re-Examination in **August 2023** - HT22 5HI001 - "Computer Applications in Health Care and Biomedicine" course. It will be opened on 30 July 2023, at 16:00:00 Stockholm time. Then, deadline (due date) is 13 August 2023, at 23:59:00 Stockholm time. Finally, availability date (late submission) is 20 August 2023, at 23:59:00 Stockholm time.