

HT24 5HI001 - "Computer Applications in Health Care and Biomedicine" course
Preliminary Schedule of the course – 14th October 2024

When: the course starts on **Monday 2nd December 2024** and runs until **Sunday 19th January 2025**.

Where: Solna Campus. Rooms: Karolina, Wangari. Study visits might be at the hosts' venues.

Notice 1: The schedule presents 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 preliminary and should be confirmed (yellow background color). Deadlines and mandatory activities (including assignments and re-examinations) are consolidated. 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 2: 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 3: Composition of the Groups for the mandatory group assignment on Public Health Informatics will be done by the teacher; however, groups can be proposed by students. Different ways of student grouping within the course will be discussed in the first session.

Schedule of the course

Week	#	Date	Time	Activities	Lecturer	Room
49	1	Monday 2nd December 2024	10:00-12:00	Mandatory activity 1: Roll call + 0.1 Introduction to the course; 0.2 Description of the group activity for Public Health Informatics (PHI), mandatory group assignment	SB	Karolina
			13:00-14:00	1.2 Introduction to modelling health care processes. Recap on UML Activity diagrams		
			14:00-16:00	Mandatory activity 2: Group activity on "Healthcare professionals' information needs". Groups work on modelling with Unified Modelling Language (UML) Activity Diagrams.		
	2	Tuesday 3rd December 2024	10:00-12:00	4.1 - What is Public Health? Introduction to Public Health and Public Health Informatics	SB	Karolina
			13:00-16:00	1.3 From patient data to medical knowledge. + 1.4 Introduction to Object Oriented Modelling. Recap on UML Class Diagrams.		
	3	Wednesday 4th December 2024	10:00-12:00	1.5 Introduction to Medical Terminologies and Biomedical Ontologies"- Basic concepts	SB	Karolina
			13:00-16:00	1.5 Introduction to Medical Terminologies and Biomedical Ontologies" – ICD-9/10/11; SNOMED CT; FASS/LOINC		
	4	Thursday 5th December 2024	10:00-12:00	Health Information system + 2.1 The Electronic Medical Record (EMR) - Part 1	SB	Karolina
			13:00-16:00	2.1 The Electronic Medical Record (EMR) – a UML representation – Part 2		
	5	Friday 6th December 2024	10:00-12:00	2.2 - Introduction to Clinical Decision Support (CDS)	SB	Karolina
13:00-16:00			Mandatory activity 3: Group activity on "Healthcare professionals' information needs". Groups present their models to the class. Class discussion.			
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Week	#	Date	Time	Activities	Lecturer	Room
50	1	Monday 9th December 2024	10:00-12:00	1.7 Introduction to Standards in Health Informatics	SB	Karolina
			13:00-16:00	Mandatory activity 4: Group activity on Conceptual Data Modelling in Health Care context. Groups works on modelling with Unified Modelling Language Class diagrams.		
	2	Tuesday 10th December 2024	10:00-12:00	1.6 "Semantic interoperability in Health Care and Social Care", from the Socialstyrelsen - National Board of Health and Welfare. (Option 1)	Guests from Socialstyrelsen	Karolina
			14:00-16:00	2.5 - Study visit at Cambio CDS – (Drottninggatan 89, Stockholm)		
	3	Wednesday 11th December 2024	10:00-12:00	2.3 Modelling of clinical practice guidelines – Part 1	SB	Karolina
			13:00-15:00	1.9 - Standardisation: why and how. Part 1 - Context, fundamental problems, strategies, and examples of solutions for Electronic Health Records (Not confirmed)		
	4	Thursday 12th December 2024		No class activity. Time for working on the group work Conceptual Data Modelling in Health Care context.		
	5	Friday 13th December 2024		No class activity (St. Lucia)		
			@16:00:00	Publication of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).		Online
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Week	#	Date	Time	Activities	Lecturer	Room	
51	1	Monday 16th December 2024	10:00-12:00	2.3 Modelling of clinical practice guidelines – Part 2	SB	Karolina	
			13:00-16:00	Mandatory activity 5: Group activity on Conceptual Data Modelling in Health Care context. Groups presents their models to the class. Class discussion.			
	2	Tuesday 17th December 2024	10:00-12:00	Mandatory activity 6 (1/2): Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups work on modelling Clinical practice guidelines.	SB	Karolina	
			13:00- 16:00	Mandatory activity 6 (2/2): Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups work on modelling Clinical practice guidelines.			
	3	Wednesday 18th December 2024	10:00-12:00	Mandatory activity 7: Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups presents their models to the class. Class discussion.	SB	Karolina	
			13:00-15:00	1.9 - Standardisation: why and how. Part 2 - Tool & system demonstrations, examples, Q&A (Not confirmed)	ES		
	4	Thursday 19th December 2024	10:00 - 12:00	Q/A session on Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).	SB	Online	
			13:00 - 15:00	3.2 - Mobile Health Apps and frameworks for their assessment			
			15:00-17:00	1.8 SNOMED CT Analytics - Workshop by guests from SNOMED International (snomed.org) (Online)	Online Guests - SNOMED Int	Online	
	5	Friday 20th December 2024		No class activity			
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	Week	#	Date	Time	Activities	Lecturer	Room
	52	1	Monday 23th December 2024		No class activity		
2		Tuesday 24th December 2024		No class activity			
3		Wednesday 25th December 2024		Holiday			
4		Thursday 26th December 2024		Holiday			
5		Friday 27th December 2024		No class activity			
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7							
Week	#	Date	Time	Activities	Lecturer	Room	
1	1	Monday 30th December 2024		No class activity			
	2	Tuesday 31th December 2024		No class activity			
	3	Wednesday 1st January 2025		Holiday			
	4	Thursday 2nd January 2025		No class activity			
	5	Friday 3rd January 2025	@16:00:00	Publication of Individual Assignment 2 - Consumer Health Informatics (CHI); No class activity		Online	
			@23:59:00	Mandatory activity 8: Online Submission Deadline of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).		Online	
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Week	#	Date	Time	Activities	Lecturer	Room
2	1	Monday 6th January 2025		Holiday		
	2	Tuesday 7th January 2025		No class activity		
	3	Wednesday 8th January 2025		No class activity		
	4	Thursday 9th January 2025	10:00-11:00	1.10 - Ethical, Legal and Social issues + Health Informatics Ethics – Class activity on Ethical Dilemma	SB	Wangari
			11:00-12:00, 13:00-15:00	Mandatory activity 9: Groups works on their projects on Public Health Informatics (and inform about title and stage).	SB	
	5	Friday 10th January 2025	10:00-11:00	Quality registries in Sweden	JH	Wangari
			11:00-12:00	Q/A session on Individual Assignment 2 - Consumer Health Informatics (CHI)	SB	
13:00-15:00			Q/A session on Individual Assignment 2 - Consumer Health Informatics (CHI)			
@23:59:00			Online Late Submission of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI);	Online		
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Week	#	Date	Time	Activities	Lecturer	Room
3	1	Monday 13th January 2025	14:00-16:00	2.4 Introduction to Telemedicine + Class Discussion	GD	Wangari/ Online
	2	Tuesday 14th January 2025	14:00-16:00	4.2 Informatics for Population Health (Not confirmed)	LAM	Online
			@08:59:00	Mandatory activity 10: Online Submission Deadline of Mandatory Group Assignment on PHI:		Online
	3	Wednesday 15th January 2025	10:00-12:00	Mandatory activity 11: Seminar - Group activity presentations and feedback - Session 1.	SB	Wangari
			13:00-16:00	Mandatory activity 12: Seminar – Group activity presentations and feedback - Session 2.		
	4	Thursday 16th January 2025		No class activity		
	5	Friday 17th January 2025		No class activity		
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7	Sunday 19th January 2025	@23:59:00	Mandatory activity 13: Online Submission Deadline of Individual Assignment 2 - Consumer Health Informatics (CHI)		Online	
Week	#	Date	Time	Activities	Lecturer	Room
4	1	Monday 20th January 2025	@00:15:00	Online Late Submission of Individual Assignment 2 - Consumer Health Informatics (CHI)		Online

Re-examination of Individual Assignments

Week	Date	Time	Activities	Room
16	Monday 14th April 2025	@16:00:00	Get access to Re-examination of Individual Assignments 1 and 2 - April 2025	Online
18	Wednesday 30th April 2025	@23:59:00	Deadline of Re-examinations of Individual Assignments 1 and 2 - April 2025	Online
19	Wednesday 7th May 2025	@23:59:00	Deadline for late submission (max C grade) of Re-examinations of Individual Assignments 1 and 2 - April 2025	Online
Week	Date	Time	Activities	Room
30	Wednesday 23rd July 2025	@16:00:00	Get access to Re-examination of Individual Assignments 1 and 2 - August 2025	Online
32	Wednesday 6th August 2025	@23:59:00	Deadline of Re-examinations of Individual Assignments 1 and 2 - August 2025	Online
33	Wednesday 13th August 2025	@23:59:00	Deadline for late submission (max C grade) of Re-examinations of Individual Assignments 1 and 2 - August 2025	Online