HT24 5HI001 - "Computer Applications in Health Care and Biomedicine" course Schedule of the course – 27 June 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 leaning 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.

| Week | # | Date | Time | Activities | Lecturer | Room |
|------|-----|------------------------------|-------------|--|------------------------------------|-----------|
| | | | 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 |
| | 1 | Monday 2nd December 2024 | 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 | | | |
| | 3 | Wednesday 4th December 2024 | 10:00-12:00 | 1.5 Introduction to Medical Terminologies and Biomedical Ontologies"- Basic concepts | SB | Karolina |
| 49 | | | 13:00-16:00 | | | |
| | П | Thursday 5th December 2024 | 10:00-12:00 | Health Informationn system + 2.1 The Electronic Medical Record (EMR) - Part 1 | SB | Karolina |
| | 4 | | 13:00-16:00 | 2.1 The Electronic Medical Record (EMR) – a UML representation – Part 2 | | |
| | | Friday 6th December 2024 | 10:00-12:00 | 2.2 - Introduction to Clinical Decision Support (CDS) | SB | Karolina |
| | 5 | | 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 |
| | 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 Socialstyrelse n | Karolina |
| | | | 14:00-16:00 | 2.5 - Study visit at Cambio CDS – (Drottninggatan 89, Stockholm) (Option 1) | | At Cambio |
| | 3 | Wednesday 11th December 2024 | 10:00-12:00 | 2.3 Modelling of clinical practice guidelines – Part 1 | SB | |
| 50 | | | 13:00-15:00 | 1.9 - Standardisation: why and how. Part 1 - Context, fundamental problems, strategies, and examples of solutions for Electronic Health Records | ES | Karolina |
| | 4 7 | Thursday 12th 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 2) | Guests from Socialstyrelse n | Karolina |
| | | | 14:00-16:00 | 2.5 - Study visit at Cambio CDS – (Drottninggatan 89, Stockholm) (Option 2) | | At Cambio |
| | | | | No class activity (St. Lucia) | | |

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| | 5 Friday 13tl | n December 2024 | @16:00:00 | Publication of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI). | | Online |
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| | 7 | | | | | _ |
| Week | # Date | | Time | Activities | Lecturer | Room |
| | 1 Monday 1 | 1 Monday 16th December 2024 | 10:00-12:00 13:00-16:00 | | SB | Karolina |
| | | 2 Tuesday 17th December 2024 | 10:00-12:00 | to the class. Class discussion. Mandatory activity 6 (1/2): Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups work on | SB | Karolina |
| | 2 Tuesday 1 | | 13:00-16:00 | modelling Clinical practice guidelines. Mandatory activity 6 (2/2): Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups work on modelling Clinical practice guidelines. | | |
| | 3 Wednesda | 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 | SB | Karolina |
| 51 | | , | 13:00-15:00 | 1.9 - Standardisation: why and how. Part 2 - Tool & system demonstrations, examples, Q&A | ES | |
| | | | 10:00 - 12:00 | Q/A session on Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI). | SB | Online |
| | 4 Thursday 1 | 19th December 2024 | 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) | Guests from Snomed.org | Online |
| | 5 Friday 20tl | n December 2024 | | No class activity | | |
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| Week | # Date | | Time | Activities | Lecturer | Room |
| | 1 Monday 2 | 3th December 2024 | | No class activity | | |
| | 2 Tuesday 2 | 4th December 2024 | | No class activity | | |
| | 3 Wednesda | y 25th December 2024 | | Holiday | | |
| 52 | 4 Thursday 2 | 26th December 2024 | | Holiday | | |
| | 5 Friday 27tl | n December 2024 | | No class activity | | |
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| Week | # | Date | Time | Activities | Lecturer | Room |
| | 1 Monday 3 | Oth December 2024 | | No class activity | | |
| | 2 Tuesday 3 | 1th December 2024 | | No class activity | | |
| | 3 Wednesda | y 1st January 2025 | | Holiday | | |
| | 4 Thursday 2 | 2nd January 2025 | | No class activity | | |
| 1 | | | @16:00:00 | Publication of Individual Assignment 2 - Consumer Health Informatics (CHI); No class activity | | Online |
| | 5 Friday 3rd | 5 Friday 3rd January 2025 | @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 |
| | 1 Monday 6 | th January 2025 | | Holiday | | |
| | 2 Tuesday 7 | th January 2025 | | No class activity | | |
| | | 3 Wednesday 8th January 2025 | 10:00-11:00 | Quality registries in Sweden | JH SB | Wangari |
| | 3 Wednesda | | 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). | | |
| 2 | | 4 Thursday 9th January 2025 | 10:00-12:00 | 1.10 - Ethical, Legal and Social issues + Health Informatics Ethics – Class activity on Ethical Dilemma | SB | Wangari |
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| | 5 | Friday 10th January 2025 | @23:59:00 | Online Late Submission of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI); No class activity | | Online |
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| | 7 | 7 | | | | |
| Week | # | Date | Time | Activities | Lecturer | Room |
| 3 | 1 | Monday 13th January 2025 | 15:00-17:00 | 2.4 Introduction to Telemedicine + Class Discussion (Online) | GD | Online |
| | 2 | Tuesday 14th January 2025 | 14:00-16:00 | 4.2 Informatics for Population Health | LAM | Online |
| | 3 | Wednesday 15th January 2025 | @08:59:00 | Mandatory activity 10: Online Submission Deadline of Mandatory Group Assignment on PHI: | | Online |
| | | | 10:00-12:00 | Mandatory activity 11: Seminar - Group activity presentations and feedback - Session 1. | SB | Mangari |
| | | | 13:00-16:00 | Mandatory activity 12: Seminar – Group activity presentations and feedback - Session 2. | | Wangari |
| | 4 | Thursday 16th January 2025 | | No class activity | | |
| | 5 | Friday 17th January 2025 | | No class activity | | |
| | 6 | 5 | | | | |
| | 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-examinations of Individual Assignments 1 and 2

⁼¹⁼ Re-Examination in April 2025 - HT24 5HI001 - "Computer Applications in Health Care and Biomedicine" course. It will be opened on 14 April 2025, 16:00:00 Stockholm time. Then, deadline (due date) is 30 April 2025, 23:59:00 Stockholm time. Finally, availability date (late submission) is 7 May 2025, 23:59:00 Stockholm time.

⁼²⁼ Re-Examination in August 2025 - HT24 5HI001 - "Computer Applications in Health Care and Biomedicine" course. It will be opened on 23 July 2025, at 16:00:00 Stockholm time. Then, deadline (due date) is 6 August 2025, at 23:59:00 Stockholm time. Finally, availability date (late submission) is 13 August 2025, at 23:59:00 Stockholm time.