Stockholm University

Date: 241003

Course description

Course name: Pedagogical perspectives on AI and education (7.5 ECTS)

Course code: PEG011

Semester, year: Autumn, 2024

Course leader: Cormac McGrath

Department of Education

Stockholm Universtity
Department of Education
SE-106 91 Stockholm
Sweden

Visiting address:
Frescativägen 54
www.edu.su.se

Phone: +46 8 16 20 00

General introduction

The course aims to provide an overview of artificial intelligence (AI) and its relevance for learning and education. The use of AI in different educational contexts is analysed and problematised. Pedagogical, ethical and practical challenges are highlighted, as well as strategies to handle them. During the course, current research on AI and its applications in education is processed.

Contact information

Academic lead, Cormac McGrath Cormac.mcgrath@edu.su.se
Administrative lead, Eva Grip eva.grip@edu.su.se

University account and Athena

For information on how to activate your university student account, please visit:

https://www.su.se/english/education/a-smooth-start/get-access-to-it-services-your-university-account-and-order-a-university-card

Athena is a web-based learning management portal for courses at Stockholm University. You must have activated your SU student account and be registered for the course to have access to the Athena course page. The Athena page for this course will be made available to students registered for the course, no later than one week before the course begins. If you have difficulty accessing the Athena page for this course, please check first that you are registered for the course. Then contact the course administrator.

The link to Athena is https://athena.su.se/

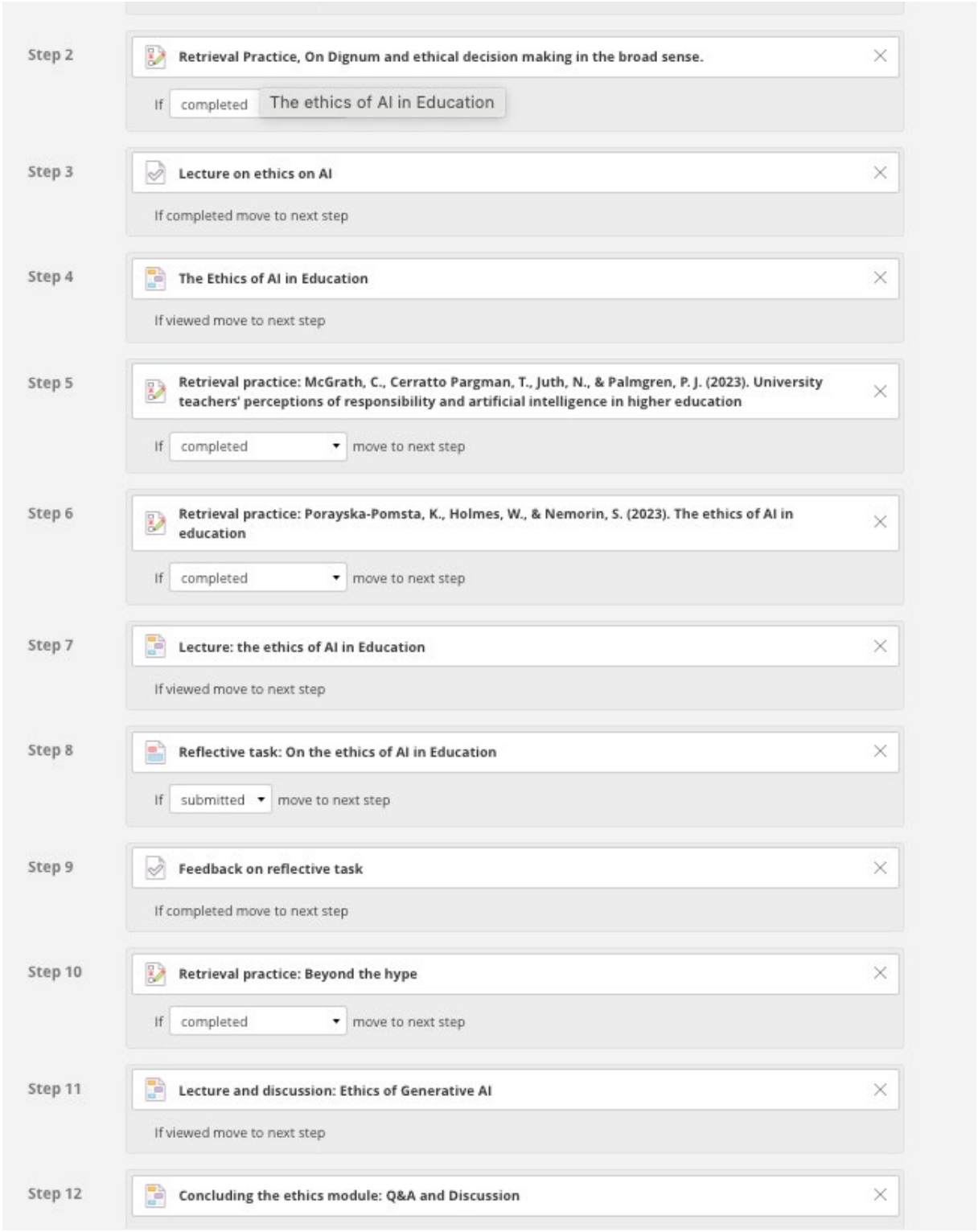
Course structure and content of education

The course is structured around three modules:

- Introduction to AI, History of AI, AI in Education
- The Ethics of AI in Education
- Applied Generative AI in Education

The course is organised around learning paths in the Athena Learning Management System, which you will be given access to. A learning path is a sequence of steps that leads you through each module. The learning paths include mandatory reading sections, live or video lectures, and quizzes that will provide you every means to gain knowledge and pass the course in the end.

The picture below gives you an overview of the different components of the Learning path. Please note you may always return to previous elements of a learning path to improve your results on tests, but you must complete the actions in order to progress forward.



Module 1: Introduction to AI, History of AI, AI in Education

This module provides a brief introduction to Artificial Intelligence (AI) and Artificial Intelligence in Education (AIED). This module consists of three online lectures, three self-study sub-modules, including several readings followed by short multiple choice exercises, and a final reflective task.

The module starts with an online lecture on Introduction to AI followed by a presentation of the structure of the course and a short Q&A session to address your questions. The first lecture centres on the big question of 'What is AI?'. Then, we will go through the early foundations of AI and, a historical overview of milestones in AI development. Finally, the module ends with a sub-module themed as AIED, where we will focus on applications of AI in education.

Below you can see when the live lectures are offered.

4Nov-8Nov, 2024	Introduction to AI Online lecture Tuesday 5th November, 17:00-19:00 CET via zoom
11Nov-15Nov, 2024	History of AI Online lecture Tuesday 12th November, 17:00-19:00 CET via zoom
18Nov-22Nov, 2024	AI in Education Online lecture Tuesday 19th November, 17:00-19:00 CET via zoom

Module 1b: Examples of AI in Education: Automated Grading Systems

In this sub-module, we will examine two AIED technologies, namely Automated Grading Systems and Social Robotics. This is a self-study (asynchronous) module, offering video lectures, targeted literature on these technologies, multiple choice exercises and finally, a reflective task.

Module 2: The Ethics of AI and AI in Education

This module is divided into three sub-modules: The Ethics of AI, The Ethics of AI in Education, and the Ethics of Generative AI specifically. This module is organised as a learning path in Athena and you can choose to follow the path at your own speed. During this module we offer lectures/ Question and answer (Q&A) session to discuss concepts or elements of the course that you would like to engage more deeply with.

In between the lectures you are required to do the reading and do the tests that accompany each reading material. There is also a reflective task for you to write, and you will give feedback to two other students as part of your studies.

2Dec-6Dec, 2024	**The Ethics of AI and AI in Education** Online lecture Wednesday Demember 4th 17:00-20:00 CET via zoom
9Dec-13Dec, 2024	**The Ethics of Generative AI** Online lecture Wednesday December 11th 17:00-20:00, 17:00-20:00 CET via zoom

Module 3: Applied Generative AI in Education

This module is made up of pre-recorded lectures and demonstrations together with online quizzes and exercises. The module consists of a learning sequence that presents the course content in an order that will aid you in reaching the course's learning objectives. There are no scheduled activities, instead, you decide for yourself when to study.We will offer a Q&A session prior to the examinaton where you can ask question about the Applied Generative AI module.

18 Dec, 2024-10 Jan, 2025	Module - **Applied Generative AI in Education** There are no scheduled activities in this module. Instead, follow the learning sequence on Athena and decide for yourself when to study.
09 Jan 2025	Online Q&A session Thursday 9th January, 17:00-19:00 CET via zoom

Learning objectives

- explain AI and its relevance for learning and education,
- explain research on AI and its applications in education,
- analyse and problematise the use of AI in different educational contexts,
- reflect on pedagogical, ethical and practical challenges with AI in different educational contexts and strategies to handle them.

Examination and grading

An online home examination based using a digital home examination. Grading is done on an A-F scale with the following scores for each grade.

A. 90-100%
B. 80-89%
C. 70-79%
D. 60-69%
E. 50-59%
Fx 40-49%
F 0-40%

Plagiarism

It is permissible to cite other sources, but both direct quotes and indirect references to a text must always be provided with correct and complete referencing to the original source. Copying or writing a shorter or longer paragraph and stating yourself as the author of the text is prohibited. This is considered plagiarism. You may also not copy your own texts that have been used in other examinations, as this is considered self-plagiarism.

An example of plagiarism is copying text verbatim or almost verbatim (this includes parts of a text and/or individual sentences) and not indicating where the text originates from. Plagiarism is also when you use another person's or AI-generated text and make it appear that it is your

own. For example, text found in the course literature and /or texts that you have found online, or another student's course paper. Plagiarism is regarded as a crime, not only against the established research ethics code, but also against upholding general regard towards one's own and others' texts. Plagiarism is unauthorized cheating and is always subject to disciplinary reporting, which can lead to suspension. At Stockholm University, texts are checked against a database.

Cheating

As a student at Stockholm University, you are responsible for your own education. Part of your responsibility includes knowing the rules that exist for study, examination and being on the university premises, and utilizing resources. According to the rules that apply to the university, disciplinary measures may be taken against students for:

• using unauthorized means, or otherwise attempt to, mislead an exam or when student performance is assessed otherwise;

• interfering with or obstruction teaching, tests or other activities within the framework of education.

Disciplinary matters are dealt with by the Stockholm University Disciplinary Board. The penalty may be a warning or suspension for a period of 1-6 months. Information on Stockholm University rules for examination and disciplinary cases can be found on Stockholm University's website www.su.se/regulations. Teachers are required to report a suspected suspicion of cheating to the director of studies

Course evaluation

The course is evaluated through an online survey which will be made available at the end of the course.

Course literature

The current course literature is also made available on the course page on Athena. The course uses research articles and ther material, and all material is available via Open Access to students registered at Stockholm University. You can find more information here: https://www.su.se/education no later than two months before the course begins.

Reference literature/Optional literature

Reference literature and optional literature are listed here, and not in the published course literature list.

Support during your studies

At Stockholm University, it is possible to receive extra support in addition to regular teaching.

Academic writing service

The Academic Writing Service provides English-language support for writing and study skills. They give talks and seminars and offer individual guidance. Their services are available free of charge to all students at Stockholm University. For more information visit: https://www.su.se/english/education/student-support/academic-writing-service

Studying with a disability

If you have a documented disability, e.g. dyslexia, you have the opportunity to receive special pedagogical support. Examples of support initiatives may be note-taking, audio books, extended exam time or sign language interpretation. You must apply for special pedagogical support from Student Support Office at Stockholm University
https://www.su.se/english/education/student-support/studying-with-a-disability

Once the application has been received, a coordinator will contact you to arrange a personal meeting. After speaking to the coordinator, you will receive a certificate describing types of support may be offered to you.

It is the responsibility of the student to contact the student counselors at the Department of Education before a course begins in order to arrange for support. Their email address is studievagledare@edu.su.se. Please note that in case of possible re-examinations, you need to contact the study guide again. The student counselors will then contact the course leaders with regards to the type of support the student will need.