Supplementary File S1. Consent Form (English)

Consent to participate in an Online Research Study

It is not an Official Message from AUB

You are invited to participate in a research study entitled **Knowledge, attitude, and practices toward artificial intelligence among university students in Lebanon** conducted by Dr. Samer A Kharroubi, Faculty of Agricultural and Food Sciences at the American University of Beirut. The conduct of this study will adhere to the IRB approved protocol.

PROCEDURES

This message invites you to:

Read the consent document and consider whether you want to be involved in the study.

And to note:

• Participation is completely voluntary.

• Completing the questionnaire will take around 5 minutes.

• To participate in the survey, you must be 18 years or above, currently residing in Lebanon, and enrolled in a university.

• Only the data you provide in the questionnaire will be collected and analyzed. The research team will not have access to your name or contact details.

• A minimum of 480 participants will take this survey.

• Recruitment of the study participants will take place through an online invitation that will be sent out via **emails** to a random sample of **AUB students** starting fall 2023 and upon receiving IRB approval, whereas students from other universities (LIU, LU, LAU, BAU, MUBS, etc.) will be invited to participate in our study using social media announcements. The survey link will be posted on social media platforms related to the universities and on research team members' personal platforms such as WhatsApp, Instagram, Twitter, LinkedIn, and Facebook in an attempt to widely reach students from different majors (arts & sciences, agriculture, public health, engineering, business) and class levels (freshman, sophomore, etc.). The research team will contact group admins to ensure their approval to share the survey link on their platform. For AUB students, email invitations will be sent to students by the HRPP/IRB office. No email lists of AUB students will be shared with the research team.

The invitation will include the link to the survey and consent form. Other participant recruitment strategies will be used including pamphlets about the study (with a QR code link to the survey) displayed in the university campus.

• The results of the survey will be published in a research article.

• You can take a screenshot of this consent form.

POTENTIAL BENEFITS TO SUBJECTS AND/OR TO SOCIETY

You will not receive payment for participation in this study.

To our knowledge, this will be the first study in Lebanon addressing this topic among students from all majors and not only medical students. Findings from this study can offer insightful information about the readiness of university students to embrace the integration of AI in educational settings and can help universities improve their course offering especially if they see that the implementation of AI affects a student's performance.

POTENTIAL RISKS TO SUBJECTS AND/OR SOCIETY

There are no anticipated risks associated with the participation in this study.

CONFIDENTIALITY

The collected data will remain confidential and anonymous and will be stored indefinitely on password-protected computers accessible only by the research team. Records will be monitored and may be audited by the IRB while assuring confidentiality.

PARTICIPATION AND WITHDRAWAL

If you voluntarily consent to take part in this study, you can change your mind and withdraw at any time without consequences of any kind. You also have the option to skip any question. Refusal to participate or withdrawal from the study will involve no penalty or loss of benefits to which the subject is otherwise entitled, and neither will it affect your relationship with AUB/AUBMC or any of the other universities in Lebanon.

QUESTIONS ABOUT THE STUDY

If you have any questions or concerns about the research, you may contact:

Dr. Samer A Kharroubi, Faculty of Agricultural & Food Sciences-AUB

Tel: 961-1-350000 (Ext 4541) **E-mail:** sk157@aub.edu.lb

If you have any questions, concerns, or complaints about your rights as a participant in this research, you can contact the following office at AUB:

Social & Behavioral Sciences Institutional Review Board

Address: American University of Beirut; Riad El Solh, Beirut 1107 2020, Lebanon

Tel: 00961 1 374374, ext: 5445 **Email:** irb@aub.edu.lb

Supplementary File S2.

Section1: Socio-demographics

Are you under the age of 18?

- Yes
- No

Age:

- 18-20
- 21-23
- 24-26
- 27+

Gender:

- Male
- Female
- Prefer not to answer

Educational level:

- Freshman
- Bachelor
- Master, PhD
- Other: -----

Major:

- Business
- Engineering, Computer science
- Health-related (Nutrition, Medical Lab, Public Health, Medical Sciences)
- Arts
- Sciences (Biology, Chemistry, Physics)
- Other: -------

Source of information regarding artificial intelligence (AI):

- Curriculum
- Internet/Social media
- Other: -------

Rate your level of knowledge about AI:

- Low

- Moderate
- High

Section2: Knowledge about AI

Do you know what is artificial intelligence (AI)?

- Yes
- No

Do you know about machine learning (subtype of AI)?

- Yes
- No

Do you know about deep learning (subtype of AI)?

- Yes
- No

Have you ever heard of AI Chatbot?

- Yes
- No

For AI to "learn", it requires a large amount of labeled data (information already processed by a human and clearly labeled)

- Yes
- No

Section3: Attitude toward AI

Are you in favor of implementing AI tool in your field?

- Yes
- No

The development of AI affects my career orientation:

- Agree
- Disagree

AI have a positive impact on students' academic performance:

- Agree

- Disagree

AI should be incorporated in the curriculum/ classroom:

- Agree
- Disagree

AI should be used as an assessment tool:

- Agree
- Disagree

AI poses security risks (e.g., data privacy):

- Agree
- Disagree

Section4: Practices

Have you ever completed an internship/work related to AI?

- Yes
- No

Are you a member of any AI or machine-learning clubs or student groups at your university?

- Yes
- No

Have you taken any elective courses or workshops/trainings focused on AI, outside of your regular curriculum?

- Yes
- No

Have you used AI technologies or applications during your university years? (e.g., for research, coursework, or projects)

- Yes
- No

If yes please specify: ------

Did AI make your task easy?

- Yes
- No

Section5: Open questions related to AI

Kindly note, do not mention names of anyone in this section

What comes to mind when I say the words 'Artificial Intelligence'? ----------

In what areas do you see AI being beneficial? ----------

What are the challenges associated with AI? ----------

Who can help bring AI into your classroom? ----------