**ASHESI UNIVERSITY**

**University Policy on Human Subjects Research**

All academic research for publication, involving human subjects, which is to be conducted by staff, faculty or students from Ashesi University College must be approved by the Human Subjects Review Committee. This committee is the Institutional Review Board (IRB) of Ashesi University. The purpose of this review is to ensure that the research activity is conducted with the safety of the human subject as its highest priority. The criteria for this review are in strict accord with international standards for the protection of human participants in academic research. All research to be conducted by students, faculty, staff, or research affiliates from other institutions must be approved prior to primary data collection or project initiation.

Human Subjects approval must precede submission of all research applications to any sponsor for funding of the research effort. This applies to funding requests for internal or external resources, domestic and international applications. This policy applies to all applications including those to for-profit, not-for-profit, governmental or charitable organizations.

The committee will respond to each proposal **within four weeks** following its review. For capstone projects, the response time is shorter if the application is complete and well organized. If the Committee determines that a submission involves vulnerable populations or greater than minimal risk, the applicant will have an opportunity meet with the Committee to address issues of concern. The applicant will have an opportunity to modify the research design, sampling strategies, process or format of data collection, or any other concern that is raised by the Committee. Appeals can be formally addressed by the Provost with the Chair of the Human Subjects Review Committee. If an appeal is approved, the full committee will revisit the proposal and will entertain all concerns of the Principal Investigator. In the event that an appeal is also denied, the proposal must be closed for further consideration unless methodological and ethical issues are adequately addressed in the form of a new submission.

All submissions must be in digital form through [irb@ashesi.edu.gh](mailto:irb@ashesi.edu.gh) **copied to supervisor**. The approval notification will be sent from the same email the Committee Chair. Submissions are accepted on an ongoing basis.

All submissions must be made using the Ashesi University Human Subjects Review Form. The form is found on the following pages and is also available at: *website*. Applications that are incomplete will not be forwarded to the Committee for review. Incomplete applications will be returned to the applicant. Applicants are advised to be mindful of schedules and time requirements for the review process and urged to submit proposals as early as possible. Faculty supervisors should review the application form before it submitted by students.

**Request for Human Subjects Approval**

**Application Form for Final Year Capstone Project**

(This form should not be used for health and medical research project)

**Use this form for initial approvals and protocol modifications. To renew an approval after one year, please use the Continuation Form.**

**Submit this completed form and your proposal with all required elements as email attachments to the office of the Provost, Ashesi University College: (irb@ashesi.edu.gh).**

**Applied  Thesis Entrepreneurship**

**Semester 1Semester 2**

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| --- | --- |
| Date Submitted: | February 11, 2024 |
| Name of Student(s): | Ibukun-Oluwa Emmanuella Addy |
| Supervisor(s): | Sampson Dankyi Asare |
| External Organization : | Click here to enter text. |
| Major : | BAMISCS  CEEEME |
| Supervising Department: | BAASCSEEME |
| Title of Project: | A Study of Artificial Intelligence Approaches in Nutrition Therapy  for Ghanaians with Sickle Cell Disease: (Traditional Expert Systems  VS.  Knowledge Graph Augmented Large Language Models) |
| Student Phone Number : | 0209247482 |
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| Supervisor’s Email : | sasare@ashesi.edu.gh |
| Is this application | New |

**General** **Instructions**

This application form must be submitted with the

1. Research proposal
   1. Thesis: chapter 1-3 (Introduction, literature review and methodology)
   2. Applied project: chapter 1,plan (Introduction, background, requirement plan)
2. Summary of the proposal. The summary should include:
   1. A brief summary of the background literature stimulating this research
   2. The rationale for the proposed study, including specific aims and hypotheses
   3. A description of the participants and how they will be recruited
   4. A detailed description of study methodology
   5. Budget and Schedule (timeline) details of your research proposal
3. Consent forms to be used with subjects in the research.
4. Research instruments, that is questionnaires, interview guides, etc, that are approved by faculty supervisor.
5. Any additional documents that will assist reviewers to fully understand the purposes, methods, and field procedures that will be used. See check list below

**Please complete every section of this application form**. If any section is not relevant to your research indicate with “N/A” or write “Not Applicable”.

Please do not attempt to squeeze answers into the spaces provided on this form. It is produced in M.S. Word and you can enter text below each question. Be sure to review your application before submission to make certain that it is complete**. If it is not complete a decision about the application will be delayed**. If you have a question about this application, please email your question to irb@asehsi.edu.gh

1. **If you are requesting an exemption from Human Subjects Review Committee (HSRC) review, explain the basis for the requested exemption (see attached list of exempt project types):**

For data collection and testing, my research involves only the collection and study of existing data, documents, records, and diagnostic speciments that are publicly available on the internent. My research does not test on human subjects, as the tests conducted use statistical machine learning test metrics.

1. **Numbers, Types and Recruitment of Subjects**
2. Identify the **numbers** and **characteristics** of subjects (e.g., age ranges, sex, ethnic background, health status, disabilities, etc.). It is recommended to provide the breakdown based on your sampling strategy.

Click here to enter text

1. Special Classes. If applicable, explain the rationale for the use of special classes or subjects such as pregnant women, children, prisoners, mentally impaired, institutionalized, or others who are likely to be particularly vulnerable.

Click here to enter text.

1. How long will you engage the participants in one session? Click here to enter text.hours

How many times do you anticipate to meet with participants? Clickhere *to enter text.*

1. How will you classify your research method? (experiment, observation, modeling, etc.) Specify all methods you anticipate to use.

Clickhere to enter text*.*

1. D. Specify the data sources you will use for your research (e.g. questionnaire, audio recording, human resource files, experiment data, etc.)

Click here to enter text.

1. **Participants’ Consent**

A. How are the individual participants to be recruited for this research? Is it clear to the subjects that participation is voluntary and that they may withdraw at any time without negative consequences?

Click here to enter text.

B. To what extent and how are the subjects to be informed of research procedures before their participation?

Click here to enter text.

NOTE: Attach a copy of the written "Informed Consent” form or a written statement of the oral consent. If this is produced in vernacular languages please provide a copy in each language being used in field work. The consent form should include the purpose of the research, that the engagement is voluntary, duration of engagement with the subject, risk and benefit, contact information. See the template at page 11

1. **Risks Involved in the Research**

**If your nature of your study is biomedical, public health, or clinical psychological research, then you cannot use this form. Please use the right form.**

Identify potential risks for subjects to be involved in this project/research. What procedures will be in place to minimize any risks to subjects?

**Does the research involve any of the following procedures?**

Deception of the participant?

Punishment of the participant?

Materials commonly regarded as socially unacceptable

such as pornography, inflammatory text, ethnic portrayals?

Any other procedure that might be considered to be an

invasion of privacy?

Disclosure of the name of individual participants?

Any other physically invasive procedure?

If the answer to any of the above is "Yes,” please explain this procedure in detail and describe procedures for protecting against or minimizing any potential risk.

Click here to enter text.

1. **Confidentiality**

A. To what extent is the information confidential and to what extent are provisions made so that

subjects are not identified? Note that information like name, address, phone number, age, birth date are considered confidential and private information.

Click here to enter text.

B. What are the procedures for handling and storing data so that confidentiality of the subjects

and privacy are protected? Particular attention should be given if research data will

include the use of photographs, video and audio recordings, computer files, organizational

records, medical records, financial records with individual or corporate information)?

Click here to enter text.

C. How will the results of the research be disseminated?

Click here to explain.

How will the subjects be informed of the results?

Click here to explain.

How will confidentiality of subjects or organizations be protected in the dissemination?

Click here to explain.

1. **Describe any anticipated benefits to subjects from participation in this research.**

A. Will participants/subjects/respondents be compensated or rewarded in any way?

Click here to describe.

B. What intrinsic benefits will participants/subjects/respondents receive?

Click here to describe.

1. **Submitting Your Protocol – CHECKLIST**

Attach a full copy of your research proposal( for thesis chapter 1-3, for applied project chapter 1 )If full proposal is not available, explain why this document is not available.

Click here to enter text.

Regardless of whether or not a full research proposal is available, attach a concise, two-page summary on a separate page that includes:

* A brief summary of the background literature stimulating this research
* The rationale for the proposed study, including specific aims and hypotheses
* A description of the participants and how they will be recruited
* A detailed description of study methodology
* Budget and Schedule (timeline) details of your research proposal

**NOTE:** You may “cut-and-paste” as needed from your full proposal, if available, and the committee may refer to the full proposal for clarification.

Consent Agreement(s) including description of how informed consent will be obtained--

**NOTE:** Please add the following statement to the final copy of your Informed Consent

Agreement:

*“This research protocol has been reviewed and approved by the AshesiUniversity Human Subjects Review Committee. If you have questions about the approval process, please contact Chair, Ashesi University HSCR, (****chair’s Ashesi e-mail address****).*

Copies of all instruments, questionnaires, or tests to be used (if instruments are not fully developed yet, attach drafts, and so indicate).

Qualitative discussion categories are provided.

Flyers to be posted on or off campus for participant enlistment (**NOTE**: These must be stamped with Committee Approval prior to posting)

Confirm that your IRB application, instruments, consent form, and other documents have been reviewed by your supervisor.

**Student’s** Click here to enter text. **Date** Click here to enter a date.

*(Please sign by entering your name)*

**Submit this completed form and your proposal with all required elements as email attachments to (***we need a submission e-mail box and a physical mailbox***). Also, send one hard copy of signed original approval form with proposal and all required elements to: Ashesi University Human Subjects Review Committee, Office of the Provost, Ashesi University, Berekuso, E.R. Ghana**

**Checklist of Required Elements of Human Subjects Review Application**

**Please make certain that each of these elements is complete**

**before submission of your application.**

**Listed below are elements that a faculty HSRC reviewer will look for in your application and consent agreement. Your application will not be reviewed if it is incomplete.**

**Avoid delays in the review process and the initiation of your research by checking off all items on the list before submitting your proposal. Provide an explanation for any item not checked off.**

A statement that the study involves research (Section II)

Purpose of the research (Section II)

Duration of subject’s participation (Section II)

Description of the procedures to be followed (Section II)

Means of public dissemination (Section IV)

Description of foreseeable risks or discomforts to subject (Section III)

Description of benefits to subject or to others (Section V)

Statement of how confidentiality of records identifying subject is maintained (Section IV)

Statement of how participant confidentiality is maintained in public dissemination (Section IV)

For research that poses greater than minimal risk, information regarding medical

treatments or counseling should personal injury or problems occur (Section III)

List of contacts who can answer questions about the research and subject’s rights and respond to research-related injury to subject. Include the paragraph above regarding how to contact the Ashesi University HSRC, in addition to information about how to contact the investigator(s).

(Section II)

Statement that participation is voluntary (Section II)

Statement that refusal to participate will involve no penalty or loss of benefits (Section II)

Statement that the subject may discontinue participation at any time (Section II)

Statements of significant new findings developed during the course of research that may

relate to subjects’ willingness to continue participation (Section II)

**Optional: Use this only if necessary for your project.**

**Rationale for Exclusion of a Required Element:**

Click here to enter text.

Extension:

Click here to enter text.

Consent Form Template

Note: This template is just a guide. As long as a consent form has all the elements of this template, you are free to design your consent form that fits your research and subject. A consent can be written or verbal, but in both cases a consent from has to be prepared and designed.

* We/I like to ask your permission to be part of ….
* The purpose of this study is….
* Your participation will be ….
* You are free to be part of this activity, and you are free to stop at any moment during the activity.
* This risk of being part of this study is….
* The benefit is ……
* If you have any question, you can ask…..
* If you agree to be part of the study, …..
* For further information, you can contact my supervisor …..
* This study and consent form has been reviewed by Ashesi IRB for Human Subjects Research. For further information contact the committee through [irb@ashesi.edu.gh](mailto:irb@ashesi.edu.gh)
* There has to be a space for the participants to sign their agreement to consent. In case of verbal consent, there has to be a space to record date and place the consent is given.

# Exempt Activities

Investigators may not determine their own research to be exempt from HSRC review. Exemption decisions are made through the expedited review process.

Activities that are not research are exempt from HSRC review. Research is defined as: “A systematic investigation designed to develop or contribute to generalizable knowledge.”

Research that does not involve human subjects is also exempt from HSRC review. A human subject is defined as “a living individual about whom an investigator conducting research obtains (1) data through intervention or interaction with the individual, or (2) identifiable private information.”

Research activities in which the only involvement of human subjects will be in one or more of the following categories may be determined to be exempt from Ashesi University HSRC review. Requests for exemption must cite the statutory basis for the requested exemption from the categories listed below:

1. **Research**

A. Research conducted in established or commonly accepted educational settings, involving normal education practices.

B. Research involving the use of educational tests (cognitive, diagnostic, aptitude, achievement), if information taken from these sources is recorded in such a manner that subjects cannot be identified, directly or indirectly, through identifiers linked to the subjects.

C. Research involving observation of public behavior or survey or interview procedures for all of the conditions below. This exemption does not apply for research involving children except when the investigator does not participate in activities being observed.

(1) The research does not place subjects at the risk of civil or criminal liability or damage the subject's financial standing or employability, AND

(2) The research does not deal with sensitive aspects of the subject's own behavior, such as illegal conduct, drug use, sexual behavior or use of alcohol, AND

(3) The research does not use materials, procedures or settings likely to be embarrassing, upsetting or intrusive to the subjects, AND

(4) The subject cannot be identified and confidentiality is protected

D. All research involving survey or interview procedures is exempt, without exception, when the subject is an elected or appointed official or a candidate for public office.

E. Research involving the collection or study of existing data, documents, records, pathological specimens, or diagnostic specimens, if these sources are publicly available or if the information is recorded in such a manner that subjects cannot be identified directly or indirectly through identifiers linked to the subject.

1. **Program Review**

A. **Government Regulations Exemptions**. Research and demonstration projects that are conducted by or subject to the approval of Ghana government department or agency heads, and that are designed to study, evaluate, or otherwise examine 1) public benefit or service programs; 2) procedures for obtaining benefits or services under those programs; 3) possible changes in or alternatives to those programs or procedures; or 4) possible changes in methods or levels of payment for benefits or services under those programs.

1. **Ashesi Academic Program Review Data**. Data collected for the purpose of the evaluation, review, and improvement of Ashesi University academic and extra-curricular programs is exempt from review ***unless*** these data are collected: 1) for use beyond program review (e.g. publication), and/or 2) for publication beyond the review process for Ashesi programs administered by Ashesi, by its associated accrediting agencies, and by other related educational bodies. Program Review research proposals that meet the criteria for exemption from review do not need to be sent to the Ashesi HSRC, however, it is advisable to do so as a courtesy and also to provide pre-project approval in case that decisions about external dissemination or publication change during the course of the project.

**Note**: The above exemptions do not apply to research involving venerable groups like prisoners or mentally-ill, institutionalized patients as subjects.