**PROJECT IDEA SUBMISSION FORM**

**INTEGRATED SCIENCE TEAM PROJECT (ISTP3116)**

**Project Title: Anti fungal and hair loss treatment oil from garlic, aloe Vera and rosemary**

Student Name: Henok Yared Student ID: ETS1905/14 Group:\_24

Proposer's e-mail address: [hnkyared1@gmail.com](mailto:hnkyared1@gmail.com) or [henok.yared@aastustudent.edu.et](mailto:henok.yared@aastustudent.edu.et) H/P No:\_0989602430\_\_\_\_\_\_\_\_\_

Department: biotechnology

Advisor/s: \_\_ TESFAYEESHETE(PHD)

**Project concept and SDG mapping:**

The project aims to harness the combined therapeutic properties of garlic, aloe vera, and rosemary to develop a multifunctional hair treatment oil. While the antifungal and hair treatment properties may seem unrelated at first glance, the unique blend of these botanical extracts creates a synergistic effect that addresses both concerns simultaneously. By formulating a specialized oil that effectively combats fungal infections while promoting hair growth and scalp health, the project seeks to offer a holistic solution to individuals experiencing hair loss and people who have fungal infection related problems. This initiative aligns with several Sustainable Development Goals (SDGs). it includes Good Health and Well-being. Secondly, the project supports industry, Innovation, and Infrastructure). And finally, there is a Responsible Consumption and Production.

**Objectives:**

* Develop a specialized blend of garlic, aloe Vera, and rosemary extracts optimized for their antifungal properties.
* Create a potent hair treatment oil that addresses the root causes of hair loss, leveraging the nourishing and stimulating properties of the botanical ingredients
* Extend the benefits of the herbal blend to skin care by developing a product that nourishes and rejuvenates the scalp and surrounding skin.

**Short summary of the project**

|  |
| --- |
| The project wants to use garlic, aloe Vera, and rosemary to make a special oil for hair. Even though these plants do different things, when combined, they work together to fight fungal infections and help hair grow better. The goal is to create an oil that helps people with hair loss and those who have fungal infections on their scalp. |

**Materials Tools, equipment/instruments required:**

* Distillate
* Organic solvent
* Fungal medium
* Agitator
* Petri dishes
* Aloe vera plant
* Rosemary plant
* Garlic plant
* Blender
* Gas chromatography and mass spectrophotometer