

Syeda Aisha Huda

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Profile

An award-winning secondary school student with national-level distinction in physics research and a proven ability to communicate complex scientific concepts. Published author at age 17 with a passion for combining analytical problem-solving with creative design. Seeking to contribute to a challenging undergraduate Physics program and engage in meaningful research.

Education

Jawahir Alriyadh International School | Riyadh, KSA

High School Diploma, Expected June 2025

- **GPA:** 3.3 / 4.0
- **Key Coursework:** Physics (95%), Chemistry (92%), English (95%)

The Grandeur International School | Riyadh, KSA

IGCSE, Completed 2023

- **Cambridge Board High Distinction:** Achieved A* grades in Physics and Biology.
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Honors & Awards

- **Top 10 National Finalist**, Indian Young Physicists' Tournament (IYPT), 2025
 - **Cambridge Board High Distinction**, A* in Physics & Biology, 2023
 - **Winner**, 'POP Display' Creative Contest, 2022
 - **Certificate of Merit**, Visual Arts Excellence, 2022
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Publications

- Huda, S. A. (2024). *Physics Made Easy*. Amazon Direct Publishing.

- Authored and published a comprehensive physics guidebook aimed at making complex concepts accessible to students through practical examples and problem-solving techniques.
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Research Experience & Key Projects

Sound vs. Fire: Acoustic Extinguishment of Flames

Independent Researcher

- Investigated the influence of acoustic waves (frequency, amplitude) on flame displacement and extinguishment.
- Analyzed the relationship between sound intensity and flame behavior using experimental data and combustion theory.

The Wailing Bowl: Acoustic Effects of Water Motion

Independent Researcher

- Conducted an experimental study on how water motion within a vibrating bowl alters sound production.
 - Examined acoustic impedance, nodal meridians, and energy dissipation to reveal the complex relationship between fluid dynamics and sound attenuation.
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Skills

- **Technical:** Python, MATLAB, LaTeX, Adobe Photoshop, Canva, Microsoft Office Suite
 - **Professional:** Scientific Writing, Experimental Design, Research & Data Analysis, Public Speaking, Creative Design
 - **Languages:** English (Fluent), [Add other languages if applicable]
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References

Available upon request.