**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.

**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

**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.

**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.

**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]

**References**

Available upon request.