



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

**Advertisement No. IITH/2023/NF/15 dated 22.10.2023.**

Post Number	Post Name
<b>15.17</b>	<b>Junior Technician- Physics</b>

**Selection Process consists of Skill Test and Written Test**

The selection process consists of two stages. All candidates must appear for the Laboratory Skill Test. The candidates will be shortlisted to write the written exam on the basis of successful performance in the skill test.

Written test will be one-mark MCQs based on the following topics.

S.No		Topic Subjects	Syllabus	Weightage of marks
1.	Experiment	Physics	B. Sc. Level experiments followed by major Indian Universities on the following topics: · Mechanics · Optics · Electronics · Modern Physics · Basic Solid-State Physics	20%
		Computer Fundamentals	<ul style="list-style-type: none"><li>• Basic Shell Scripting</li><li>• File systems and user accounts management</li><li>• Basic Linux commands</li></ul>	20%

2.	Theory	English language aptitude	Grammar, Sentence correction/completion, vocabulary, synonyms, antonyms, and general aptitude	20%
		Physics	<ul style="list-style-type: none"> <li>· Measurement, Units &amp; Dimensions</li> <li>· Kinematics, Laws of Motion, Work, Energy and Power</li> <li>· Motion of System of Particles and Rigid Body</li> <li>· Mechanics of Solids and Fluids</li> <li>· Heat and Thermodynamics</li> <li>· Waves &amp; Oscillations</li> <li>· Electrostatics, Current electricity, Magnetic Effects of Current and Magnetism</li> <li>· Electromagnetic Induction, Alternating Current and Electromagnetic waves</li> <li>· Optics: Geometrical and Wave Optics</li> <li>· Modern Physics: Dual Nature of Matter and Radiations, Atomic Physics, Nuclear Physics</li> <li>· Solids and Semiconductor Devices</li> <li>· Principles of Communication</li> <li>· Basic Solid State Physics</li> </ul>	20%
		Computer Fundamentals	<ul style="list-style-type: none"> <li>● Working knowledge of Linux and Linux System Administration</li> <li>● Computer hardware and peripherals</li> <li>● Basics of Computer networking</li> <li>● Web design</li> </ul>	20%

Note: The syllabus topics mentioned above are for illustrative purposes only.

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