Stellar Institute of Technology Post-Entrance 1-on-1 Interview Curriculum

Purpose

To evaluate a student's communication skills, conceptual clarity, curiosity, attitude, and passion for learning, beyond exam scores.

Interview Details

Detail	Value
Interview Duration	15–20 minutes
Mode	Online / Offline
Panel	1 Faculty + 1 Industry/Academic Mentor (optional)

Evaluation Weightage (Recommended)

Area	Weight
Communication Skills	25%
Conceptual Understanding (PCM + CS)	35%
Attitude & Learning Mindset	20%
School Journey & Activities	10%
Curiosity & Passion for Tech	10%
Total	100%

Section 1 — Communication & Expression

Objective: Assess clarity, confidence, listening skills, and thought structure.

What to Observe:

- Clarity of speech
- Logical flow of answers
- Confidence (not fluency in English)
- Ability to explain ideas simply

Sample Questions:

- "Introduce yourself in 60 seconds."
- "Tell us about a topic you enjoy learning."
- "Explain a concept you studied recently as if I'm a 10-year-old."
- "What do you do when you don't understand something?"

Evaluator Notes: Focus on clarity, honesty, and confidence — not grammar.

Section 2 — Physics Conceptual Understanding

Objective: Check conceptual clarity, not formula memorization.

Topics Covered (Class 9–12 level):

- Motion & Newton's Laws
- Energy & Work
- Electricity & Magnetism
- Light & Waves

Sample Questions:

- "Why does a ball thrown upward come back down?"
- "What is the difference between speed and velocity?"
- "Why do birds sit on electric wires safely?"
- "Explain energy conservation in real life."

What to Check:

- Conceptual thinking
- Ability to reason
- Use of real-world examples

Section 3 — Chemistry Conceptual Understanding

Objective: Understand reasoning ability and scientific thinking.

Topics Covered:

- Atoms & Molecules
- Chemical Reactions
- Acids, Bases & Salts
- Everyday Chemistry

Sample Questions:

- "Why does iron rust?"
- "What happens when you add lemon juice to milk?"
- "Why is water called a universal solvent?"
- "Explain any chemical reaction you remember from school."

What to Check:

- Understanding of cause–effect
- Scientific curiosity
- Logical explanations

Section 4 — Computer Science & Logical Thinking

Objective: Assess problem-solving mindset and logical reasoning (not coding mastery).

Topics Covered:

- Basic algorithms
- Logical reasoning
- Problem-solving approach
- Exposure to computers/coding (if any)

Sample Questions:

- "What is an algorithm? Give an example from daily life."
- "How would you explain what a computer does?"
- "Have you ever tried coding? What did you build?"
- "How would you solve a problem step by step?"

What to Check:

- Logical flow
- Structured thinking
- Curiosity toward technology

Section 5 — School Journey & Extracurricular Activities

Objective: Understand personality, discipline, and interests.

Areas to Explore:

- School environment
- Participation in sports, arts, clubs
- Leadership or teamwork experiences
- Competitions or achievements

Sample Questions:

- "Tell us about your school life."
- "Which subject did you enjoy most and why?"
- "Have you participated in any competitions or events?"
- "What do you do outside academics?"

What to Check:

- Time management
- Initiative
- Team spirit
- Consistency

Section 6 — Attitude, Curiosity & Growth Mindset

Objective: Identify students who want to grow, not just get a degree.

Sample Questions:

- "What do you want to become in the next 5 years?"
- "If you fail at something, what do you usually do?"
- "Why do you want to join Stellar?"
- "What motivates you to learn?"

What to Check:

- Learning attitude
- Resilience
- Honesty & self-awareness

Scoring Rubric (Internal Use)

Score	Interpretation
85–100	Excellent fit for Stellar
70–84	Good potential, recommend admission
55–69	Conditional admission (bridge course)
<55	Not ready for Stellar's rigor

Final Decision Criteria

Admission decision is based on:

- Entrance Exam Score
- Interview Performance
- Overall potential & attitude

Stellar believes talent + attitude > marks alone.

Optional Add-ons (Future)

- Short problem explanation task (2 minutes)
- Mini whiteboard explanation
- Parent-student joint interaction (optional)