



IITPKD/R/NF/02/2024/45

09<sup>th</sup> Apr 2025

**Recruitment for the post of Junior Technical Superintendent (Innovation Lab) (Post Code: 24206) notified vide Advt. No.: IITPKD/R/NF/02/2024 dated February 07, 2024.**

The selection process, indicative syllabus and date of examination for the post of Junior Technical Superintendent (Innovation Lab) advertised vide Advt. No.: IITPKD/R/NF/02/2024 dated February 07, 2024

**Tentative Schedule of Examination: 28-Apr-2025 (Monday)**

The selection process shall be as follows:

**Syllabus:**

Subject		Maximum Marks	Duration
<b>Level I Objective test</b>	1. General Knowledge, Computer Knowledge, Current Affairs, Logical Reasoning and Mathematical/ Aptitude Test. 2. Electric circuits -- ohm's law, transient and steady-state response of circuits with R, L, C excited by DC, Step and Sinusoidal sources, three-phase circuits. 3. Analog and Digital Electronics -- Logic Gates Minimization, Combinational Circuits, Mux-Demux, Flip Flops, Op amp circuits. 4. Electrical and Electronic Measurements -- resistive, capacitive, inductive sensors; temperature and light intensity sensors.	100	1 hr
<b>Level II Skill test</b>	The Level 2 skill test will consist of hands-on tests to evaluate the candidate's skill in managing a maker space. 1. Safety protocol in a typical makerspace including (but not limited to) electrical safety, grounding, fire safety. 2. Test and measurement equipment : oscilloscopes, signal generators, DC power supply, current and voltage probes. 3. PCB design (KiCAD/Eagle) and assembly with DIP and SMD packaged ICs. 4. AutoCAD drafting of 2D plans. 5. Fusion360 modeling of 3D parts and 3D printing. 6. Purchase Procedure following GFR.	150	3 hrs

	7. Exercises involving Arduino and interfacing the Arduino to external sensors, motors etc.		
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Candidates shortlisted in the Level 1 exam shall ONLY be permitted to appear for the Level 2 selection process.

Final selection will be based on the order of merit in the Level I test (40%) and Level II test (60%).

**The details of venue, time and other instructions shall be shared along with the hallticket that will be issued to the shortlisted candidates over email in due course.**

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**Registrar**