NOTICE

Ref:- Advertisement no: 411002/2/2021-NFR dated 18.02.2022 for recruitment of Technical Officer, IIT (ISM), Dhanbad in Pay Level -10.

Applicants, shortlisted for recruitment tests for the post of Technical Officer are hereby informed about the schedule of tests as under:-

<table>
<thead>
<tr>
<th>Date</th>
<th>Test</th>
<th>Time and Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.12.2022</td>
<td>Written Test [Objective type] (80 marks)</td>
<td>Reporting Time: 09:00 AM</td>
</tr>
<tr>
<td>(Sunday)</td>
<td>Test Time - 09:30 AM – 11:00 AM</td>
<td>New Lecture Hall Complex, IIT (ISM) Dhanbad</td>
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<tr>
<td></td>
<td>Practical Skill Test: (20 marks)</td>
<td>Reporting Time: 01:00 PM</td>
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<tr>
<td></td>
<td>Test Time – 01:30 PM onwards (in four batches)</td>
<td>CRE Building, IIT (ISM) Dhanbad</td>
</tr>
<tr>
<td>13.12.2022</td>
<td>Document verification</td>
<td>Reporting Time: 02:30 PM</td>
</tr>
<tr>
<td>(Tuesday)</td>
<td></td>
<td>02:30 PM – 03:00 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New Conference Room, 1st floor, Admin Block, IIT (ISM) Dhanbad</td>
</tr>
<tr>
<td></td>
<td>Presentation and Interview</td>
<td>Test Time - 03:00 PM onwards</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Conference Room, 1st floor, Admin Block, IIT (ISM) Dhanbad</td>
</tr>
</tbody>
</table>

2. Recruitment tests consist three steps, viz. Step-I (Written Test), Step-II (Practical Skill Test) and Step-III (Document verification + Presentation and Interview).

3. Syllabus for Written Test and Practical Skill Test as per Annexure A, which will be conducted as follows:-

**Written Test: 80 Marks** - This will comprise of total 80 MCQs based on the Syllabus of Mechanical Engineering, Automation and /or Robotics Engineering, Electronics and Electrical (20 questions from each section).

*Scientific calculator will be allowed during Written Test.

**Practical Skill Test: - 20 Marks**

4. **Minimum cut off marks:-**

| No. of Vacancy | No. of candidates to be qualified in Written Test | No. of candidates to be qualified in Practical Skill Test | No. of candidates shortlisted for Presentation & Interview on the basis of combined performance in Written Test + Practical Skill Test |
UR-01

| Candidates scoring minimum qualifying marks i.e. 45% | Candidates scoring minimum qualifying marks i.e. 55% | Top Five (05) candidates scoring minimum qualifying marks in both Steps i.e. Written Test and Practical Skill Test |

- In case two or more candidates secure equal total marks in Written Test + Practical Skill Test, all such candidates will qualify for Presentation and Interview.

5. On the basis of total marks obtained in Step – I and Step – II (subject to obtaining the minimum qualifying marks in both) maximum five candidates shall be shortlisted for Step – III (Document Verification + Presentation and Interview).

6. Candidates qualified for Presentation & Interview will be required to give a Power Point Presentation on any topic related to their area of experience relevant to the post, not in more than 05 slides, for a maximum duration of 10 minutes.

7. **Document Verification:-**

The candidates shortlisted for Presentation and Interview, on the basis of performance in Written Test + Practical Skill Test, will have to produce the following documents in original (as mentioned in the advertisement) in support of their eligibility:

1. Matriculation certificate in support of Date of Birth
2. Mark sheet of educational qualifications
3. Certificate of educational qualifications
4. Experience certificate
5. No Objection Certificate from the present employer (if they are employed in Central Govt./ State Govt./ Union Territory Administration/ Central or State Autonomous Bodies/ Central or State PSUs) etc.

In case, failing to produce the above documents, candidate will not be allowed to appear in Presentation and Interview.

8. Final selection will be on the basis of performance in the Presentation and Interview subject to successful completion of document verification.

9. Admit cards for the tests will be available for download on or after 05.12.2022. The candidates may visit [https://nfr.iitism.ac.in/index.php/recruitment/User_login](https://nfr.iitism.ac.in/index.php/recruitment/User_login) and download their admit card by login into portal using e-mail Id, Date of Birth and Mobile number (already registered).

To,
The Webmaster to upload on the website of Institute

(P R K Sinha)
Registrar (Actg.)
ANNEXURE – A

A. Syllabus of Written Test

1. Mechanical Engineering


2. Automation and /or Robotics Engineering


3. Electronics


4. Electrical

Operational amplifier based circuits. Oscillators; 555 based monostable and astable multivibrator; Instruments for the Measurement of Voltage, Current, Power, Energy, Frequency, Power Factor. AC Bridges for capacitance, inductance, frequency measurement, DC Potentiometers. Measurement of Low, Medium and High Resistances. A/D and D/A conversions, Basic concept of various types of Power Generation; Single Phase and three phase AC circuit, resonance in single phase AC circuit, phasor diagrams, complex power.

B. Syllabus of Practical Skill Test

In this test the candidates’ practical knowledge of working on the following will be tested:

Hands-on CNC, Practical demonstration in 3D printing, Sensor Technology/IOT; Pneumatics Circuits; Hands-on Practical on any industrial robot