

January 2025

# ProtoNest - Membership Policy



Supported By



## 1. Overview:

The ProtoNest Membership at JNTUH Innovation Foundation (hereafter referred to as (JNTUH TBI) is designed to empower students and professionals alike to bring their innovative ideas to life. Whether you're a student eager to prototype your first invention or a professional refining your next big idea, our ProtoNest membership provides students, professionals, and innovators flexible access to state-of-the-art labs, prototyping tools, and a community dedicated to creativity and collaboration. This document outlines the policy, rights, and responsibilities of ProtoNest members to ensure a safe, supportive, and efficient environment for all.

## 2. Categories & Eligibility:

ProtoNest Membership ensures access to Labs & Makerspace resources for a range of users, from students to organizations, supporting innovation, prototyping, and collaborative work within a structured membership framework.

### 2.1 Benefits:

JNTUH TBI – ProtoNest Membership grants access to a variety of Equipment, tools, and exclusive opportunities aimed at helping members bring their projects to life.

#### Equipment & Tools Access

- **Prototyping Tools (Category 1 & 2 - ANNEXURE - A):**

Use of advanced equipment and tools categorized by JNTUH TBI for prototyping and testing, based on member experience level and project requirements.

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Ground Floor

, New Admission Block,

JNTUH, Kukatpally, Hyderabad - 500085.

[www.jntuhtbi.in](http://www.jntuhtbi.in)

[e-mail-hello@jntuhtbi.in](mailto:e-mail-hello@jntuhtbi.in)

Ph: +91-9063949407

- **Training & Technical Guidance**

**Technical Consultation:**

Subject to availability, technical guidance from the JNTUH TBI team & experts is offered to support member projects.

**Workshops & Training Sessions:**

Access to internal training sessions and workshops organized periodically for upskilling.

**Community & Networking**

- **Access to JNTUH TBI Network & Technical Clusters:**

ProtoNest Membership provides connections to JNTUH’s TBI community, allowing members to interact with other Members, like minded innovators, mentors, and industry experts to expand your network within the startup and innovation ecosystem.

- **Internship Opportunities:**

ProtoNest Members may be eligible for internships with pre-incubates and incubates, and Other Organization Members within the JNTUH TBI ecosystem.

**2.2 Eligibility & Fee:**

| Category          |                  | Eligibility  | Duration  | Fees in Rs. |
|-------------------|------------------|--|-----------|-------------|
| <b>Student</b>    | <b>JNTUH</b>     | Must be a current student, with a valid ID and Bonafide certificate from JNTUH, Hyderabad.                           | 12 Months | 1,000/-     |
|                   | <b>Any Other</b> | Must be a current student, aged 12 or above, with a valid ID and Bonafide certificate from a recognized institution. | 12 Months | 2,500/-     |
| <b>Individual</b> | JNTUH            | JNTUH Kukatpally Campus ALUMNI, with valid JNTUH Alumni membership.  | 12 Months | 2,500/-     |

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|  |                  |  |           |          |
|--|------------------|--|-----------|----------|
|  | Any Other        | Professionals, Research fellows, entrepreneurs, and individuals who aim to convert their ideas into prototypes (with National ID Proof). | 12 Months | 5,000/-  |
| <b>Organization (Access for 4 Members)</b> | Startups & MSMEs | Startups: DPIIT registered startups  | 3 Months  | 10,000/- |
|  |                  | MSMEs: Must meet standard MSME criteria  | 6 Months  | 20,000/- |
|  |                  | Product Development stage minimum TRL 2/3  | 12 Months | 25,000/- |

**Note:**

- 1) Students (Post PG) are classified as research fellows and qualify exclusively for Individual Membership.
- 2) Any Other Individuals / Organization members can access a day pass for the Extra Member at a rate of Rs.250.00 per day. This pass grants access to the facility, in accordance with the established policy.
- 3) The Start-ups / Organisations Founded by Alumni of JNTUH Hyderabad / JNTUH TBI, qualify for a special discounted annual membership of up to 50%, subject to the approval of the JNTUH TBI board.
- 4) In addition to the previously mentioned discounts, participants who enroll in any JNTUH TBI Technical / Incubation programs can receive a 10% discount on the membership fee. This offer is applicable if they register for ProtoNest membership immediately or within one month of completing the Technical / Incubation program.

### 3. Application & Usage Guidelines:

Members interested in accessing the JNTUH TBI ProtoNest should follow the application process below:

1. **Visit the Website:** Go to [www.jntuhtbi.in](http://www.jntuhtbi.in) to review the ProtoNest access policies and ensure eligibility.
2. **Complete the Application Form:** Fill out the official Google Form linked on the website. Ensure all required fields are completed accurately, including details of intended use and any specific tools or equipment needed.

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3. **Submission and Review:** After submitting the form, the application will be reviewed by JNTUH TBI staff. You may be contacted for further information or required to complete training on specific equipment, if applicable.
4. **Approval Notification:** Once reviewed, you will receive a notification regarding the status of your application, along with any additional instructions for access.

For questions or assistance with the application process, please reach out to JNTUH TBI support staff as listed on the website.

To maintain a safe and productive environment, members are required to adhere to the following guidelines:

### 3.1 Entry & Attendance

The ProtoNest membership pass serves as a key to accessing JNTUH TBI ProtoNest facilities and resources.

- **Pass Presentation:** Members are required to show their ProtoNest Membership pass upon entering JNTUH TBI facilities. The pass should be carried at all times during lab visits.
- **Replacement Policy:** In case of lost or damaged passes, a replacement can be issued for a fee as determined by JNTUH TBI. (Rs.300.00)
- **Dress Code:** Members are expected to follow the dress code (e.g., closed-toe shoes, appropriate lab attire) to ensure safety and professionalism.
- **Professional Conduct:** Members are expected to maintain decorum, respect fellow members, and cooperate with JNTUH TBI staff.
- **Impersonation** will lead to cancellation of pass with immediate effect without refund of fee.

### 3.2 ProtoNest Access:

**Authorized Use:** Access to JNTUH TBI ProtoNest is strictly for educational, research, and prototype/product development purposes only. Use for any other purpose is prohibited.

**Access Procedures:** Members are required to submit an official Indent Form prior to facility usage. Approval is subject to resource availability and compliance with lab policies.

**User Proficiency Requirement:** Access to tools and equipment is granted only to members who demonstrate a proper understanding of their usage. Members must possess the necessary knowledge and skills to safely and effectively operate the tools and equipment they intend to use. Training or certification may be required to ensure competency, and facility staff reserves the right to deny access if a member lacks adequate proficiency.

**Operating Hours:** Facilities are available six days a week from 9:00 AM to 8:00 PM, excluding Second Saturdays and public holidays.

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**Usage Duration:** To ensure fair access, each member is allotted a maximum of one hour per session when others are waiting to use the same facility.

**Equipment Usage and Restrictions:** Tools and equipment are to be used exclusively within the designated areas of JNTUH TBI. Members must obtain prior approval and submit a security deposit, as outlined in JNTUH TBI's policy, for any equipment intended for use outside the permitted premises.

### 3.3 Equipment Care & Responsibility

- **Proper Usage:**  
All tools & equipment must be handled carefully to prevent damage. Members should seek assistance if unfamiliar with specific tools or machines.
- **Damage Policy:**  
If any damage occurs, members must report it to the section in-charge immediately. In cases of negligence, members will be responsible for the cost as defined by the JNTUH TBI team.

### 3.4 Safety & Liability:

JNTUH TBI emphasizes a safe, responsible, and collaborative workspace. Safety rules and liability policies are outlined below:

- **Safety Training:**  
All members must complete a mandatory safety orientation before using JNTUH TBI facilities.
- **Personal Liability:**  
Members are responsible for their own safety and are advised to use all equipment as instructed. JNTUH TBI is not liable for personal injury due to misuse or non-compliance with safety guidelines.
- **Insurance Coverage:**  
Members are encouraged to hold personal insurance, as JNTUH TBI does not cover personal injuries or damages arising from individual projects.

### 3.5 Compliance with JNTUH TBI Policies

- **Adherence to Staff Guidelines:**  
Members must follow JNTUH TBI staff instructions regarding equipment, safety protocols, and facility use at all times.
- **Access Restrictions:** JNTUH TBI reserves the right to limit or deny lab access to members who do not comply with policies or who cause disruptions in the workspace.

### 3.6 Policy Violations & Disciplinary Actions

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- JNTUH TBI aims to create an inclusive and professional environment. Non-compliance with policies may result in disciplinary action, including:
  - Warning Notifications:  
Minor infractions may result in a verbal or written warning.
  - Suspension of Access:  
Repeated or severe violations may lead to temporary suspension of lab access.
  - Membership Termination:  
JNTUH TBI reserves the right to revoke the ProtoNest membership pass if policies are repeatedly violated, without refund

### **Acknowledgment of ProtoNest Membership Guidelines:**

Upon joining, members acknowledge they have read, understood, and agreed to comply with the policies & Guidelines outlined in this document to ensure a respectful, safe, and innovative environment at JNTUH TBI.

**Policy Updates:** JNTUH TBI reserves the right to revise or update the ProtoNest policy as necessary to reflect real-time conditions. Updates will be posted on the official website, and it is the responsibility of each member to stay informed of the latest policy terms.

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## ANNEXURE - A

### Category - I - Access to Tools covered in ProtoNest Membership

#### TINKERING LAB



- Arduino UNO, Nano, Mega
- Raspberry Pi Model B
- Breadboards
- Various Resistors, Capacitors, Sensors & Modules
- Micro servo Motor, Servo Motors, Stepper Motors
- Robotics DIY Kit
- Mechanical (Modular) Construction kit
- Drone Kit
- Aerospace Kit
- Automobile Kit
- Bio-medical Kit
- Agritech Kit
- Bio-tech Kit
- Water/ Sanitation Kit
- Soldering Stations
- SMD components
- Sewing Machine

#### WOOD ZONE



- Hand Tools Like - Measuring Tapes, Spirit Levels, Wrench, BOSCH Hand Tools Set etc...
- Power Tools & Equipment: Like Power toolset, Drilling Workstation, Angle grinding machine etc...

**NOTE:** Consumable Materials (If provided by JNTUH TBI) like Wood, Sheets etc.. to be paid by Members at Actuals).

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## Industrial IoT / Test & Measurement Lab:

| Equipment / Tool                             | Specifications   |
|--|--|
| Digital Storage Oscilloscope<br>200MHz 1GS/s | Digital Storage Oscilloscope 200MHz 1GS/s,<br>Brand: GWINSTEK,<br>Model No: GDS-1202B, S/N:GEW862279<br><a href="https://docs.rs-online.com/3664/A700000011101528.pdf">https://docs.rs-online.com/3664/A700000011101528.pdf</a>  |
| Signal Generator                             | Arbitrary Waveform Generator,<br>Model No: SMG1022F 25MHz,125 MSa/s,<br>Brand: Scientific,<br>S/N: SMG1022F2226140<br><a href="https://www.scientificindia.com/uploads/Series/pdfs/smg100Of-series-39.pdf">https://www.scientificindia.com/uploads/Series/pdfs/smg100Of-series-39.pdf</a>  |
| Programmable DC Power Supply                 | Programmable DC Power Supply,<br>Model No: SPD3303C,<br>S/No: SPD3EGFQ6R2874, SPD3EGGD6R2955<br>CH1: Voltage 0 to 32 V, Current 0 to 3.2A,<br>CH2: Voltage 0 to 32 V, Current 0 to 3.2A,<br>CH3: Voltage 2.5/3.3/5.0 V, Current 3.2 A<br><a href="https://siglentna.com/wp-content/uploads/dlm_uploads/2019/08/SPD3303C-Service-Mannual.pdf">https://siglentna.com/wp-content/uploads/dlm_uploads/2019/08/SPD3303C-Service-Mannual.pdf</a> |

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Fluke Multimeter

Fluke Multimeter 101,106 600V CAT III Multimeter with Accessories, Manual

Model No: Fluke-101 / ESP

S/N:59190943WS,57790197WS,  
59190948WS

[https://dam-assets.fluke.com/s3fs-public/6000031\\_6116\\_ENG\\_A\\_W.PDF?VersionId=mKJxrFYcZtg8oylF8YBGtKOWgiwyyYe6](https://dam-assets.fluke.com/s3fs-public/6000031_6116_ENG_A_W.PDF?VersionId=mKJxrFYcZtg8oylF8YBGtKOWgiwyyYe6)

Fluke Multimeter

Fluke Multimeter with Accessories,

Model No: Fluke-15B+ESP

S/N:55620576WS,55492533WS,59542091WS, 58492653WS,  
58492653WS

<https://www.fluke.com/en-in/product/electrical-testing/digital-multimeters/fluke-15b-plus>

Integrated test &  
Measurement setup - Moku  
Go

Moku Go: Frequency Response Analyzer,

Brand: Liquid Instruments

S/No:6803521W25\_000601, 6803521W25\_000596 With User  
Manual

<https://liquidinstruments.com/products/integrated-instruments/frequency-response-analyzer/>

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## VIRTUAL WORLD:

| Equipment / Tool                     | Specifications  |
|--------------------------------------|---|
| Meta Quest 2                         | <p>Meta Quest 2: Immersive All in one VR Headset</p> <p>Model: KW49CM,<br/>S/N:1WMHHA4H1H221</p> <p><a href="https://www.meta.com/help/quest/articles/getting-started/getting-started-with-quest-2/">https://www.meta.com/help/quest/articles/getting-started/getting-started-with-quest-2/</a></p>   |
| HP Reverb G2 Virtual Reality Headset | <p>HP Reverb G2 Virtual Reality Headset with Accessories,<br/>Female HDMI to USB D type Convertor,<br/>Power Adapter I/P:100-240V, O/P:19VDC,2.3A,45W</p> <p>HP Reverb G2 Virtual Reality Headset G2 6 Meter cable</p> <p>P/N: L72080-002</p> <p><a href="https://support.hp.com/in-en/product/setup-user-guides/hp-reverb-g2-virtual-reality-headset/33835976">https://support.hp.com/in-en/product/setup-user-guides/hp-reverb-g2-virtual-reality-headset/33835976</a></p>      |
| VIVE Pro 2                           | <p>VIVE Pro 2 Head set with face cushion and VIVE Head set cable (2.0) attached,</p> <p>Two Wireless controllers with built in rechargeable battery,<br/>Two Base Stations, one VIVE Link Box (2.0), One Link box<br/>AC Adapters, Two Micro USB Chargers, Two Micro USB Cables,<br/>Mounting kit, Cleaning Cloth, Two earphone hole caps,<br/>Mini DP to DP Adapter, DisplayPort cable, USB 3.0 cable</p> <p><a href="#">User manual HTC Vive Pro 2 (English - 90 pages)</a></p> |

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|                      |  |
|----------------------|--|
| Microsoft HoloLens 2 | Microsoft HoloLens 2<br><a href="https://learn.microsoft.com/en-us/hololens/">https://learn.microsoft.com/en-us/hololens/</a>  |
| Workstation          | AW Aurora R13, 19-12900KF, 32GB, 1TB+512 SSD, Windows OS, GFX -24GB GDDR6 NVIDIA RTX 3090  |
| iPad Air with pen    | "Chip: Apple M1 chip<br>Storage: 256 GB<br>Model: Wi-Fi enabled<br>Resolution: 2360x1640-pixel<br>RAM: 8GB<br>Camera: 12MP Wide camera, f/1.8 aperture" with suitable graphic card |

| Design Room:                               |   |
|--|---|
| Equipment / Tool                           | Specifications  |
| WorkStation                                | Ryzen7, RAM 16*2, Hard Disk 1TB +500 SSD, Cabinet - Antec +650 Ams SMPS, GC-8 Gb with suitable graphic card |
| Designing software (Solidworks/Fusion 360) | Integrated cloud CAD, CAM, CAE, and PCB software platform   |

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Adobe Creative suite

Creative Cloud apps including Photoshop, Illustrator, InDesign, Premiere Pro and Acrobat Pro

Designing software (Rhinoceros)

To create, edit, analyze, document, render, animate, and translate NURBS curves, surfaces and solids, subdivision geometry (Sub D), point clouds, and polygon meshes. Irrespective of complexity, degree, or size beyond those of your hardware.

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## Category - II - Access to Tools Not covered in ProtoNest Membership

### DRONES WING

| Equipment / Tool           | Specifications   | Price Per Day (6hrs.) In Rs.                                     |
|----------------------------|--|--|
| Advance Drone - Hexacopter | Payload: 12 Kg<br>Max take-off weight: 30Kg<br>Fly Time:20 min<br>Type: VLOS<br>Dimensions:2509 X 2212 X 732 mm<br>Camera Resolution: HD camera<br>Positioning: GPS, GLONASS<br>Flight Controller: k++<br>Transmission Distance Video: 1KM<br>Transmission Control Distance: 1Km<br>Camera: Gimbal Stabilized 3 axis<br>Brushless<br>Accessories: Tool kit comprising of Allen key set, Gimbal Dampeners, Set of Propellers. | 2,000.00/-<br>(Security Deposit of Rs.10,000/- Only Returnable.) |

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|                           |  |   |
|---------------------------|--|---|
| <p>Middle Level Drone</p> | <p>Model: VPFW01<br/>         Payload: 3Kg<br/>         Fly Time:25 min<br/>         Range: 1 Km<br/>         Type: VLOS<br/>         Dimensions:550 mm diameter<br/>         Battery: Li-Po<br/>         Material: Carbon Fibre<br/>         Type: Hexacopter<br/>         Camera Resolution: HD camera<br/>         Positioning: GPS, GLONASS<br/>         Camera: Gimbal Stabilized 2 axis Brushless.</p> | <p>500.00/- (Security Deposit of Rs.5,000/- Only Returnable.)</p>   |
| <p>Fixed wing Drone</p>   | <p>Payload: 1 Kg<br/>         Fly Time: 90 min<br/>         Range: 15 Km<br/>         Type: BVLOS<br/>         Dimensions:1110 X 1718<br/>         Battery: Li-Po 10000 mah 14.8 v<br/>         Material: Moulded Plastic Foam<br/>         Type: Fixed Wing<br/>         Camera Resolution: HD camera<br/>         Positioning: GPS, GLONASS<br/>         Camera: Gimbal Stabilized 3 axis Brushless.</p>   | <p>1,000.00/-<br/>         Only for Certified pilots (Security Deposit of Rs.10,000/- Only Returnable.)</p> |

**RAPID PROTOTYPING CENTER:**

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| Equipment / Tool             | Specifications   | Price Per hr In Rs.       |
|------------------------------|--|---------------------------|
| Ultimaker S5 3D printer      | Ultimaker 3D Printer,<br>S/No: BPP-042807-145243,<br>Model No: 218251<br>Ultimaker S5 with accessories,<br>ALLWIN Cutting MAT A3 Size: 45X30CM<br><a href="https://ultimaker.com/3d-printers/s-series/ultimaker-s5/">https://ultimaker.com/3d-printers/s-series/ultimaker-s5/</a>  | 100.00                    |
| Form labs Form 3+ 3D Printer | Print technology: Low Force Stereo lithography (LFS)<br>XY resolution: 25 microns<br>Laser spot size: 85 microns<br>Build volume: 14.5 × 14.5 × 18.5 cm<br>Layer thickness: 25 – 300 microns<br>Laser power: One 250 mW laser<br><a href="https://support.formlabs.com/s/article/Quick-Start-Guide-Form3?language=en_US">https://support.formlabs.com/s/article/Quick-Start-Guide-Form3?language=en_US</a> | 350.00/-                  |
| Paint spray setup            | Paint spray setup  | As per Actual Consumables |

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