

XR Shell

Overview:

The XR Shell represents a mid-range lab setup within the XR Bridge program, designed to accommodate a larger number of students while balancing the needs for both individual and group learning. This lab is tailored for institutions that are ready to integrate XR (Extended Reality) technology into their regular curriculum, offering a more comprehensive and collaborative environment compared to smaller lab setups. The XR Shell is equipped with advanced AR/VR devices, high-performance PCs, and cutting-edge software, making it an ideal choice for institutions looking to provide a robust and immersive learning experience.

Key Features:

- Versatile Learning Space:

The XR Shell is designed to accommodate up to 40 students, making it suitable for standard classroom settings where immersive technology is integrated into daily lessons. The lab's layout and equipment facilitate both individual learning and group activities, ensuring that each student can engage deeply with XR technology while also benefiting from collaborative learning experiences.

- Enhanced Collaboration:

The XR Shell is built to encourage teamwork and collaboration among students. With ample space and resources, students can work together on XR projects, share insights in real time, and engage in peer-to-peer learning. This collaborative environment is especially beneficial for interdisciplinary projects that bring together students from different fields to solve complex problems using XR technology.

- Comprehensive Setup:

The XR Shell is equipped with a robust array of VR devices, high-performance PCs, and advanced software tools. This comprehensive setup supports a wide range of XR applications, from basic 3D modeling and augmented reality experiences to complex virtual reality simulations. The lab is designed to handle various educational and creative demands, providing students with the tools they need to explore, create, and innovate in the field of XR.

Use Cases:

- Elective AR/VR Courses:

The XR Shell is ideal for institutions offering elective courses focused on AR/VR technology. The lab's capacity and resources allow for in-depth exploration of XR applications, enabling students to develop specialized skills that can be applied in various industries.

- Interdisciplinary Projects:

The XR Shell is well-suited for interdisciplinary projects that involve students from different fields, such as engineering, design, healthcare, and more. The lab's collaborative environment

and advanced technology enable students to work together on complex projects, blending their expertise to create innovative solutions using XR technology.

- Workshops, Hackathons, and Training Sessions:

The XR Shell is an excellent venue for hosting workshops, hackathons, and short-term training sessions. The lab's capacity and equipment make it possible to run intensive, hands-on sessions where students and participants can immerse themselves in XR technology, learn new skills, and develop projects within a collaborative setting.

Additional Role:

Beyond its primary function as a learning space, the XR Shell can also serve as a collaborative workspace for students engaged in internship activities. The lab's resources and environment make it ideal for larger group projects or interdisciplinary initiatives, providing students with the opportunity to work on real-world XR projects while receiving mentorship from faculty and industry experts. This dual functionality enhances the educational experience by blending academic learning with practical, hands-on experience.

Pricing Details:

The pricing for the XR Shell is structured to accommodate different configurations based on the inclusion of IoT (Internet of Things) capabilities. Below is a detailed breakdown of the pricing:

- Students Capacity: 40

Configuration	Cost (INR)
Only IoT	3,89,985
Without IoT	58,73,490
Total Cost (With IoT)	62,63,475

- XR Lab:

This configuration includes the basic setup of IoT devices within the XR Shell. IoT integration is essential for projects that require interaction with smart devices and systems, enabling students to explore the synergy between XR and IoT technologies. The cost for this configuration is INR 3,89,985.

- IoT Module (Optional):

In this configuration, the XR Shell is fully equipped with all the necessary AR/VR devices, high-performance PCs, and software tools, excluding IoT devices. This setup is ideal for institutions focused solely on XR technology without the need for IoT integration. The cost for this setup is INR 58,73,490.

- Total Cost (With IoT):

The total cost of the XR Shell, including both XR technology and IoT integration, is INR 62,63,475. This package ensures that the lab is fully equipped to handle a wide range of XR projects, including those that involve IoT systems, providing a comprehensive and future-ready learning environment.

Conclusion:

The XR Shell offers a versatile, mid-range solution for institutions seeking to integrate XR technology into their curriculum. With its ability to accommodate up to 40 students, support enhanced collaboration, and provide a comprehensive range of XR tools and applications, the XR Shell is well-suited for elective courses, interdisciplinary projects, and hands-on workshops. Additionally, its role as a collaborative workspace for internship activities further enhances its value, making it an integral part of an institution's educational ecosystem. The pricing options, with or without IoT integration, provide flexibility for institutions to choose the setup that best meets their needs and budget.