



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत  
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA

Deemed University

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# Report

AR-VR Training Workshop

Centre for Artificial Intelligence



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## Report - AR-VR Lab Training Workshop

The Augmented Reality and Virtual Reality (AR-VR) Lab established in May of 2024 at the Centre for Artificial Intelligence with the object of providing remarkable avenues to enhance learning and innovation among the students, witnessed wonderful enthusiasm from the students and staff alike.

The state-of-the-art infrastructure of the facility ranging from the robust construction materials to the intricate electronics it houses stand out as its most striking features, the detailed specifications are attached herein.

The installation and activation of the above-stated hardware and software at the facility was overseen by the following faculty members:

### **Faculty Members Overseeing Installation**

1. Dr. Vibha Tiwari (Asst. Prof., Centre for Artificial Intelligence)
2. Dr. Sunil Shukla (Asst. Prof., Centre for Artificial Intelligence)

As is custom, to ensure a smooth start of this facility a training workshop was organised which was attended by several faculty members across the institute and selected students from the centre, the details to which are as follows:

### **Faculty Members Attending the Workshop**

1. Dr. Smita Parate (Asst. Prof., Dept. of Computer Science and Engineering)
2. Dr. Nidhi Shrivastava (Asst. Prof., Dept. of Information Technology)
3. Prof. Vikas Shejwar (Asst. Prof., Dept. of Information Technology)
4. Dr. Shubha Mishra (Asst. Prof., Centre for Artificial Intelligence)
5. Dr. Arun Kumar (Asst. Prof., Centre for Artificial Intelligence)
6. Dr. Vibha Tiwari (Asst. Prof., Centre for Artificial Intelligence)
7. Dr. Sunil Shukla (Asst. Prof., Centre for Artificial Intelligence)



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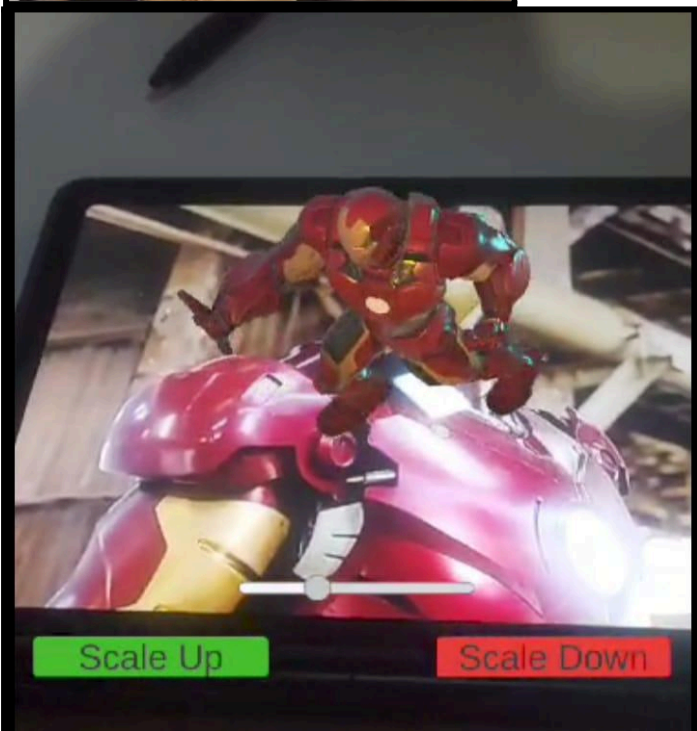
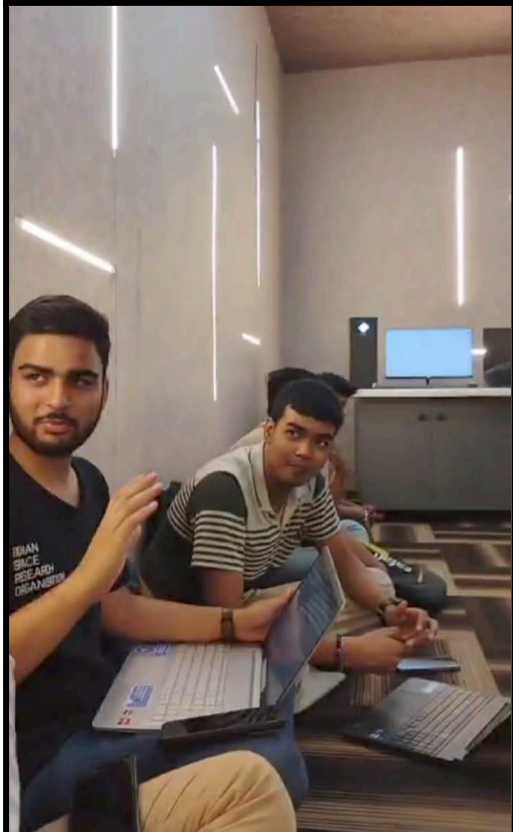
### Students Attending the Workshop

1. Amish Garg
2. Anshika Pandey
3. Aryan Kumar
4. Atharv Verma
5. Ayush Goyal
6. Bhumi Parhihar
7. Krishna Malviya
8. Mukul Sharma
9. Nikita Jain
10. Nishank Naywaye
11. Parthivendra Singh
12. Shiv Shrivastava
13. Shivam Gupta
14. Shreyank Choudhary
15. Tijil Dubey
16. Yash Jain

During the week-long course of this workshop the students and faculty members were familiarised with the First Phase of Module One which covered AR-VR-MR technology topics such as game engines, unity, user interfaces, AR environments, VR environments, blender, and many more. Illustrated details of the aforementioned are attached as annexures.



### Glimpses of the Workshop





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# Annexures

‘A’ - Delivery, Installation and Training Report

‘B’ - Student’s Attendance Sheet





**TRENDSETTERS INFOSERVICES LLP**

Corp. Office : 18th floor, Lotus Nilkamal Business Park, New Link Road, Opp. Fun Republic Cinema, Andheri (W), Mumbai-400053, T: + 91-022-42018000  
www.trendsettersindia.co.in

**DELIVERY, INSTALLATION & TRAINING REPORT**

Contract No: |Contract No: GEMC-51168777620630

Date 17/05/2024.

/RA/PBP No.: |Bid/RA/PBP No.: GEM/2024/B/4614274

We hereby certify that the products (Hardware) are delivered as per the PO, Installation of Software is done successfully, and the following items checked and tested Hardware are in working condition.

1	उत्पाद का नाम   Product Name : Standalone VR Headset 128 GB with link cable ब्रांड   Brand : Standalone VR Headset 128 GB With Link Cable ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Meta Oculus Quest 3-128GB with link cable एचएसएन कोड   HSN Code: HSN not specified by seller	4	pieces	66,080	NA	264,320
2	उत्पाद का नाम   Product Name : VR Ready Desktop Workstation ब्रांड   Brand : VR Ready Desktop Workstation ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: VR Ready Computer Dell Workstation एचएसएन कोड   HSN Code: HSN not specified by seller	2	pieces	247,800	NA	495,600
3	उत्पाद का नाम   Product Name : Leap Motion Controller ब्रांड   Brand : Leap Motion Controller ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Leap Motion Controller एचएसएन कोड   HSN Code: HSN not specified by seller	2	pieces	20,060	NA	40,120
4	उत्पाद का नाम   Product Name : Kinect Sensor ब्रांड   Brand : Kinect Sensor ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Kinect Sensor एचएसएन कोड   HSN Code: HSN not specified by seller	2	pieces	46,020	NA	92,040
5	उत्पाद का नाम   Product Name : Mini Stereo Camera ब्रांड   Brand : Mini Stereo Camera ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Stereolabs ZED Mini Stereo Camera एचएसएन कोड   HSN Code: HSN not specified by seller	2	pieces	59,000	NA	118,000
6	उत्पाद का नाम   Product Name : Headphones ब्रांड   Brand : Headphones ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Headphones Sennheiser HD 450SE (ANC) Bluetooth 5.0 Wireless Over Ear Headphone with Mic एचएसएन कोड   HSN Code: HSN not specified by seller	2	pieces	10,030	NA	20,060

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Annexure 'A'

उत्पाद का नाम   Product Name : 14 Channel Mobile Brain wear ब्रांड   Brand : 14 Channel Mobile Brain wear ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM दिलो सेवा का यह है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: EMOTV EPOC X 14 Channel Mobile Brainwear एचएसएन कोड   HSN Code: HSN not specified by seller	1	pieces	165,200	NA	165,200
उत्पाद का नाम   Product Name : Design Development Software for AR VR MR Technology ब्रांड   Brand : Design Development Software For AR VR MR Technology ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM दिलो सेवा का यह है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Unity Software license Annual Subscription License for 1 year Instructor Led Training by Unity Certified Instructor for continuous 5 days on Unity & AR VR Fundamentals Unity Associate Level Courseware 2 Users Unity Associate Level Certification for 5 faculty members Inhouse developed C# programming course for a duration of min. of 10 hours to be provided 2 Users एचएसएन कोड   HSN Code: HSN not specified by seller	2	Users	381,612	NA	763,224
उत्पाद का नाम   Product Name : 65-inch Screen ब्रांड   Brand : 65-inch Screen ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM दिलो सेवा का यह है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Sony Bravia KD-65K74L एचएसएन कोड   HSN Code: HSN not specified by seller	1	pieces	98,560	NA	98,560
उत्पाद का नाम   Product Name : 55-inch Monitor ब्रांड   Brand : 55-inch Monitor ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM दिलो सेवा का यह है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Dell P5524Q 55" UHD 4K Commercial Monitor एचएसएन कोड   HSN Code: HSN not specified by seller	1	pieces	179,200	NA	179,200
उत्पाद का नाम   Product Name : Speakers ब्रांड   Brand : Speakers ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM दिलो सेवा का यह है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3) मॉडल   Model: Sony SA-D40 4.1 Channel Multimedia Speaker System with Bluetooth (Black) एचएसएन कोड   HSN Code: HSN not specified by seller	1	pieces	14,160	NA	14,160
उत्पाद का नाम   Product Name : AR Device Tablet Full HD Android ब्रांड   Brand : AR Device Tablet Full HD Android ब्रांड प्रकार   Brand Type : Unbranded कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM दिलो सेवा का यह है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : BOQ (Q3)	1	pieces	55,460	NA	55,460

certify that the 1<sup>st</sup> Phase of Module 1 Training (Basic Training) is Completed, and the Above topics are covered.

Morning Session	Lunch	Afternoon Session
Introduction to Game Engines and Unity, Navigating through Unity and its components, Introduction to 3D objects and creating them, Camera settings and perspectives.		Unity Basics: Game Objects, Components, transform. Setting up a basic scene, Creating Parent and Child Game Objects, Unity Lighting, Prefabs, Rigid body
Look at different Tools, Adding Colour to Individual Game Objects, Working with		User Interface (UI) in AR, Implementing UI elements in AR scenes,



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MITS

Annexure 'A'

	materials and textures, terrain, Introduction to lighting		
Day 3	Introduction to Augmented Reality (AR), Vuforia Setup, AR Object Placement and Tracking with Target, Implementing, AR Camera in Unity scene, apply animation on model.		Setup & adjust 3d model according to AR camera, tracking a MODEL on a Real-World Image, AR Object Placement, Readjusting the position, shape, and rotation of Game Objects
Day 4	What is Virtual Reality? Setting up Oculus Quest 2 for VR development, Creating VR scenes and environments in Unity.		Setup VR Environment & Import your models in VR, VR Hardware Setup, OVR Player Setup
Day 5	Blender Basics, Import/Export Blender files into Unity, Enhancing user experience in AR.		Import models in VR, Building VR Scenes and Environments, Finalizing AR/VR Projects, Marker less AR.

Installed Unity on:

Machine / Workstation Details	Installation & Activation Status
01 Computers (AR-VR LAB)	Completed

The following staff member/s was/were present during the activation of devices.

Sr. No	Full Name	Designation	Dept
1	Dr. Vibha Tiwari	Assistant Professor	Centre for Artificial Intelligence
2	Dr. Sunil Shukla	Assistant Professor	Centre for Artificial Intelligence

Installed Unity on:

Machine / Workstation Details	Installation & Activation Status
24 Computers (AR-VR LAB)	Completed

The following Faculties attended the same to the fullest.

S. No	Full Name	Designation	Dept	Email ID	Mobile
1	Dr. Smita Parate	Asst. Prof.	CSE	smita@mitsgwalior.in	9907525480
2	Dr. Nidhi Shivashya	Asst. Prof.	IT	nidhisaxena@mitsgwalior.in	9340663557
3	Prof. Vikas Shejwan	Asst. Prof.	IT	vikasshejwan@mitsgwalior.in	9893347507
4	Prof. Shubha Mishra	Asst. Prof.	CAE	shubha@mitsgwalior.in	9713439657
5	Prof. Arun Kumar	Asst. Prof.	CAE	arun.v.srang@mitsgwalior.in	8826708753
6	Dr. Vibha Tiwari	Asst. Prof.	CAE	v.bhertiwari@mitsgwalior.in	9229430179
7	Dr. Sunil Shukla	Asst. Prof.	CAE	sunilshukla@mitsgwalior.in	9131231387

17/5/2024

17/5/2024

17/5/2024

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MITS

Annexure 'B'

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AR/VR Training  
Attendance Sheet

S.N	Name of Student	Date				
		13/5/24	14/5/24	15/5/24	16/5/2024	17/5/2024
1	Nishant Nayware	<u>Nishant</u>	<u>Nishant</u>	<u>Nishant</u>	<u>Nishant</u>	A
2	Shreyank Choudhary	<u>Shreyank</u>	<u>Shreyank</u>	<u>Shreyank</u>	<u>Shreyank</u>	A
3	AMARVA VERMA	<u>Amarva</u>	<u>Amarva</u>	<u>Amarva</u>	<u>Amarva</u>	<u>Amarva</u>
4	Shivani Gupta	<u>Shivani</u>	<u>Shivani</u>	<u>Shivani</u>	<u>Shivani</u>	<u>Shivani</u>
5	ARYAN KUMAR	<u>Aryan</u>	<u>Aryan</u>	<u>Aryan</u>	<u>Aryan</u>	<u>Aryan</u>
6	Ashika Pandey	<u>Ashika</u>	<u>Ashika</u>	<u>Ashika</u>	<u>Ashika</u>	<u>Ashika</u>
7	Nikita Jain	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>
8	Parthivendra Singh	<u>Parthiv</u>	<u>Parthiv</u>	<u>Parthiv</u>	<u>Parthiv</u>	<u>Parthiv</u>
9	Tyil Dubey	<u>Tyil</u>	<u>Tyil</u>	<u>Tyil</u>	<u>Tyil</u>	<u>Tyil</u>
10	Bhumi Banihar	<u>Bhumi</u>	<u>Bhumi</u>	A	A	A
11	Amish Garg	<u>Amish</u>	<u>Amish</u>	<u>Amish</u>	<u>Amish</u>	<u>Amish</u>
12	Krishna Malviya	<u>Krishna</u>	<u>Krishna</u>	<u>Krishna</u>	<u>Krishna</u>	<u>Krishna</u>
13	Ayush Goyal	A	A	<u>Ayush</u>	<u>Ayush</u>	<u>Ayush</u>
14	Yash Jain	<u>Yash</u>	<u>Yash</u>	<u>Yash</u>	A	<u>Yash</u>

15	MURUL SHARMA	<u>Murul</u>	<u>Murul</u>	<u>Murul</u>	<u>Murul</u>	<u>Murul</u>
16	Shiv Shrivastava	A	A	A	<u>Shiv</u>	<u>Shiv</u>
17						
18						
19						
20						
21						
22						