

IMMERSIVE LEARNING USING AR & VR

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BY



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Project Title:

Immersive Learning using AR & VR

Investigators

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Objectives:

- i. Empower faculty and students to adapt available online AR VR tools for Experiential learning in various engineering fields.
- ii. To develop and launch new online AR VR tools for experiential learning.
- iii. As a move towards the vision of NEP2020 to encourage multidisciplinary and transdisciplinary approach towards problem-solving.
- iv. To enable skill and qualification enhancement of people working on the project.

Donation / Funding Called for

1. Manpower support to impart training to faculty and students on online experiential learning tools using AR & VR.
2. Manpower support to develop and launch online experiential learning tools using AR & VR.
3. Support for qualification enhancement of staff of the project including experimental studies and data collection, travel, consumables etc.

Donation is requested for manpower support initiative to create new AR/VR Experiential learning tool kits to enhance online learning, to enable & train engineering college faculty and students to use available experiential learning tools like Virtual Lab, enable skill development and education qualification enhancement of project staff by registering for M.Tech (Research) or PhD programs. This will ensure continuity of manpower for a certain period of time to drive the project. This project will be executed through the Centre for System Design.

Individual / Groups / Association/ Firms who are willing to make donations can specify the way in which donation is to be used for the project objectives, (Salary component, max salary that can be paid from the donation, consumables, travel, experimental facility, etc), and can also specify the region/institutions to be focused (like rural engineering colleges, or donor can select a few colleges for providing logistic support to enable them to be adapt "Immersive Learning using AR & VR" project. Donnor can also suggest to provide the content created by this project to be made available to startups/ commercial firms/ organisations / Institutions etc., they are free to use the content under **Creative Commons licenses**(Attribution-ShareAlike, CC BY -SA)(<https://creativecommons.org/licenses/>

After making the donation, kindly email us a letter directing the specifics you like us to follow for the " **Immersive learning using AR & VR**" project. Donations made for 2 to 3 years will ensure the JRF/SRF to be supported for a M.Tech (Research) / PhD program degree.

BUDGETARY REQUIREMENTS

category	1st year(₹)	2nd year(₹)	total(₹)
Manpower	4236000	4236000	8472000
Equipments	3615000	0	3615000
Consumables	146500	305000	451500
Total(₹)	7997500	4541000	1,25,38,500

MANPOWER

Title	₹/month	No.	1st year (₹)	2nd year(₹)	Total(₹)
Senior Research fellow (SRF)	35000	3	1260000	1260000	2520000
junior Research fellow (JRF)	30000	3	1080000	1080000	2160000
illustrator / animator	30000	4	1440000	1440000	2880000
Project manager	38,000	1	456000	456000	912000
		Total(₹)	4236000	4236000	84,72,000

EQUIPMENTS

equipment name	₹/item	No.	1st year(₹)	2nd year(₹)	total(₹)
Windows PC/ workstation	1000000	1	1000000	0	1000000
Mac Server/workstation	1900000	1	1900000	0	1900000
NAS server (media)	89500	2	179000	0	179000
storage RED HDD (10 TB)	41000	6	246000	0	246000
AR VR kits	145,000	2	290000	0	290000
		total(₹)	3615000	0	36,15,000

CONSUMABLES

item	1st year(₹)	2nd year(₹)	cost(₹)
video documentation	67500	157000	224500
tutorials creation	79,000	148,000	227,000
total(₹)	146500	305000	4,51,500

Note: Payment made to NITK Endowment fund is eligible for 80 G , Income tax benefit , Bank details for Electronic clearing given below.

Name of the account holder : NITK/KREC Endowment Fund
 Account Number : 37481178720
 Name of the Bank : State Bank of India
 Branch : Surathkal, Mangalore
 Address : Surathkal Branch, NITK Campus ,P.O.Srinivasanagar,DT Dakshina Kannada,575025
 IFSC Code : SBIN002273 (Used for RTGS, IMPS and NEFT transactions)
 SWIFT Code : SBININBB146 (Donors residing outside India can also transfer donation amount using "SWIFT" code of SBI, Mangalore SBININBB146 or through alternate means such as Internet Banking Facility)

ONLINE : <https://iris.nitk.ac.in/donate>