



REPORT

Augmented Reality/Virtual Reality

23-27 Nov 2020

Guru Nanak Dev Engineering College, Ludhiana

AICTE TRAINING AND LEARNING ACADEMY, PUNE
ATAL workshop on Augmented Reality/Virtual reality

AUGMENTED REALITY/VIRTUAL REALITY WORKSHOP

AR/VR 5-Days AICTE sponsored workshop was conducted from 23rd – 27th Nov 2020 in which around 165 participants from different parts of the country participated.

The speakers for the 5-day workshop on “AUGMENTED REALITY/VIRTUAL REALITY were

Dr. Sushil Chandra, Scientist 'G' at INMAS, Defence Research and Development Organization (DRDO)

- Department Head of Biomedical Engineering, Institute of Nuclear Medicine and Allied Sciences.
- 32+ years of experience as a scientist in DRDO working on Cognitive neuroscience Psychophysiological Tools and methods, Technological and Traditional intervention
- Mentored interns in field of Cognitive neuroscience, Development in VR/AR, Signal processing and Artificial Intelligence
- Completed/Working on Various funded Research Project in the area of Defence communication, Rehabilitation and Neuro-cognition.
- Development and design of obstacle climbing wheelchair and design and development of Robotic Leg (lower extremity prosthesis)
- Validated existing modules of Rajyoga and bharmkumaris with the help of EEG and various Neuro Physiological measures



Dr. Rupinder Singh, Professor, Department of Mechanical Engineering, NITTTR Chandigarh

- Rupinder Singh received his Ph.D degree in Mechanical Engineering in 2006 from T.I.E.T Patiala,
- Masters of Technology (Production Engineering) in 2001 and Bachelors of Technology (Production Engineering) in 1999 from Punjab Tech. University.
- He is Chartered Engineer by Institution of Engineers (India) and UGC Research Awardee.
- Currently, he is Professor at the Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh (India).
- He has more than 20 years of teaching and research experience in Production and Industrial Engineering, with special emphasis in additive manufacturing, non conventional machining and casting.
- He has guided large numbers of Ph.D. and Master's students as well as coordinated 17 financed research projects.
- He has received several scientific awards. He has worked as evaluator of projects for

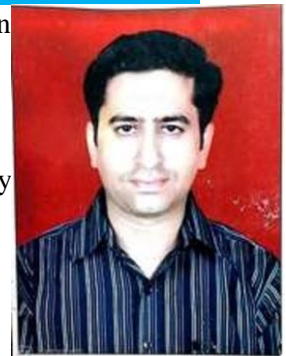


international research agencies as well as examiner of Ph.D. thesis for many Indian universities.

- He is the Guest Editor for several International journals, books Editor, and Advisor for many international conferences.
- In addition, he has also published as author (and co-author) more than 20 monographs, 80 book chapters and 500 articles in journals and conferences
- More than 250 articles in journals indexed in SCI (SCOPUS/h-index:31+/3626+ citations)

Dr. Amit Kamra, Assistant Professor, Guru Nanak Dev Engineering College, Ludhiana

- Dr. Amit Kamra is working as Assistant Professor in Department of Information Technology at Guru Nanak Dev Engineering College, Ludhiana.
- He has teaching experience of more than 18 years.
- He did his M.Tech in Information Technology in 2004 from Punjabi University Patiala.
- He is also Phd Coordinator and Institute NBA Convener, at GNDEC Ludhiana
- Dr. Amit Kamra did his PhD in computer Science from SLIET Longowal in 2014.
- His areas of Interest are Data Mining, Virtual Reality, Network security, Remote Sensing, Image Processing, MATLAB, Orange etc.
- He has received grants of more than 20 Lakhs from funding agencies like AICTE/UGC/PTU Jalandhar.
- He has published papers in journals of good repute with indexing in SCI/SCIE/SCOPUS. He has also written one book of Computer Peripherals and Interfaces and published technical report with reputed publisher.
- He has worked in the capacity of Assistant Registrar, Deputy Controller of Examination.
- He has guided 29 M.Tech Thesis, 01 PhD Thesis and is guiding 3 Phd Scholars.



Dr. Shivendra Shivani, Assistant Professor Thapar University, Patiala

- **Dr. Shivendra Shivani is currently working in Thapar Institute of Engineering & Technology, Patiala as Asst. Professor.**
- **He has received his B.E. degree, in computer science and engineering from CSVTU in 2009, after that he has completed master degree from National Institute of Technology Allahabad, India in Information security in 2011.**
- **He has received Ph.D. degree from National Institute of Technology Allahabad, India with Visual Cryptography as an area of interest.**



- He has set up VR lab at Thapar University, Patiala
- His current research interest includes AR, VR, Digital watermarking, Pattern Recognition, Computer Vision, Algorithms, Compression, Biometrics, Visual Cryptography and Face recognition.

Dr. Vipul Sharma, Assistant Professor, IKGPTU Amritsar Campus



- Dr. Vipul Sharma is currently working as an Assistant Professor in the Department of Computer Science and Engineering at I.K. Gujral Punjab Technical University, Amritsar Campus.
- He is having 10 years of teaching and research experience at various reputed Universities of India.
- Dr. Sharma was previously associated with Jaypee University of Information Technology (JUIT), Wahnaghat, Solan, as an Assistant Professor (Senior Grade). Prior to that he worked at DAV University, Jalandhar, Lovely Professional University, Jalandhar and UIET, Panjab University, Chandigarh.
- He received his B.Tech. Degree in Computer Science and Engineering from Punjab Technical University, Jalandhar, Punjab, India and subsequently his M.E. and Ph.D. Degrees in Computer Science & Engineering from UIET, Panjab University, Chandigarh, India.
- His Ph.D. thesis focused on use of machine learning techniques to associate low level image features with the query concepts, relevance feedback techniques to learn users' intention and feature selection to find an optimal set of features that can not only capture the texture of images but also enhances the semantic interpretability for reducing the semantic gap in medical image retrieval.
- He also received the UIET, Panjab University Research Award-2015 and a cash prize of Rs 10000 for his outstanding publication in the Medical & Biological Engineering & Computing Journal (SCI Journal).
- He is a member of many professional bodies including Society of Photo-Optical Instrumentation Engineers, USA; Engineering in Medicine & Biology Society; Association for Computing Machinery; IEEE; IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence; Multimedia Computing; IEEE Young Professionals. databases.

Er. Jagdeep Singh
Programmer, Guru Nanak Dev Engineering College, Ludhiana

- Highly skilled over 9 years of work experience Computer Programmer.
Proficient in: Blender, LAMP Stack, PHP, SQL, CSS, JavaScript, HTML
- Solid background in LAMP (Linux Apache MySQL PHP) Stack, Nginx, Coding & Scripting and Database design
- Working on different Web development software like ERP, Office Automation, Linux Server Management, CMS.
- Developed many high-quality projects in LAMP stack from scratch and already developed using Open Source software which are being used by thousands users on daily basis.
- Well versed in Linux Server Management, Windows System administration and working with web-related protocols such as HTTP, SSH and SFTP/FTP. Hands on experience in setting up and maintaining websites in WordPress and Drupal.
- Good understanding of PHP MVC frameworks like Codeigniter and Laravel.



Sangita Das, Lead Learning Designer , EON REALITY, Bangalore

- Presently working as Lead Learning Designer for VR applications
- Worked in the capacity of Manager- Content Development at Kirloskar Systems,
- Worked as Sr. Instructional Designer Learning Port, Kuala Lumpur, Malaysia |
- Specialization in Creating AR and VR for high schools
- Played a major role in developing EON Reality app for VR



Dr. Subhasis Bhaumik Dean (Research and Consultancy)
Indian Institute of Engineering Science and Technology, Shibpur, West Bengal

- Dr. Subhasis Bhaumik did B.E in Mechanical Engineering and M. E. in Production Engineering.
- After post graduation he joined in TATA STEEL - Jadavpur University joint research project for development of a robotic system for steel plant application.
- He did Ph.D in the area of robotics. He has served as faculty of Birla Institute of Technology (Deemed University) Mesra Ranchi, Thapar Institute of Engineering & Technology (Deemed University) Patiala and Regional Engineering College (NIT) Durgapur.
- Proficient in UNITY tool for VR applications
- Dr. Bhaumik is currently working as Professor in the Dept. of Aerospace Engineering, Indian Institute of Engineering Science & Technology Shibpur. He is also former



- Head of School of Mechatronics & Robotics in IEST Shibpur.
- His research interest is Mechatronics, Robotics, Smart Material, VR, AR, CAD/CAM/Industrial Automation, Assistive Devices, Innovative Product Development and BCI/HMI and Rural Technology.
- Dr. Bhaumik is the principal investigator of sponsored projects of Indo-US Fabrionics, BRNS-BARC, DST, AICTE, UGC, Larsen & Toubro, IE(I), DST-FIST and MHRD - National Initiative on Design Innovation. He has guided 8 PhD thesis and presently guiding 3 PhD work.
- He has published more than 75 research papers in SCI journals and International conferences. Two innovative products have been filed for patent. He is a Fellow of Institution of Engineers (I), Member of Association of Machines and Mechanism, Robotics Society of India and Expert Member - Rehabilitation Council of India.

Dr. Suhas Deshmukh, Associate Professor Govt. Engineering College, Karad, Maharashtra

- Dr. Suhas is PhD (IIT Bombay), Mechanical Engineering
- Certified Energy Auditor & Manager, Bureau of Energy Efficiency (BEE)
- Young Scientist, Fast Track Research Project, Department of Science & Technology, Govt of India, “Sensorless XY Flexural Mechanism for Precision Application”
- 17 Patents published by him
- Expertise in MATLAB, Simscape for Virtual Reality.
- Appreciated by Director, IIT Bombay, for “Development of Laser Scanner for 3D Microfabrication
- Best Research Project, Vaigyaniki, Radiance, IIT, Bombay for “Design and Development of 3D Microfabrication System”
- International Award at Bangalore Nano Conference, “A Novel Optomechatronic Focused Laser Spot Submicron Scanning System for Microstereolithography”



Schedule for AICTE Training and Learning Academy (ATAL) sponsored FDP on “Augmented Reality/ Virtual Reality” From 23rd Nov 2020 to 27th Nov 2020.

Time/Day/Date	9.30-11.00		11.30-1.00		2.00-3.30
Monday (23/11/20)	<i>XR in Defence and XR in Cognition</i> Kenote Address by Dr. Sushil Chandra Senior Scientist, DRDO INMAS New Delhi	Break	<i>Integration of AR/VR and 3D Printing</i> Dr. Rupinder Singh, Professor NITTAR Chandigarh	Lunch	<i>AR/VR/MR in Education and Technology</i> Dr. Amit Kamra Assistant Professor GNDEC Ludhiana
Tuesday (24/11/20)	<i>Modeling of VR through UNITY</i> Dr. Shivendera Shivani Assistant Professor Thapar Univ. Patiala	Break	<i>VR: Science of Illusion</i> Dr. Vipul Sharma Assistant Professor IKGPTU Amritsar	Lunch	<i>Google Card Board for Virtual Reality Visualization</i> Dr. Amit Kamra Assistant Professor GNDEC Ludhiana
Wednesday (25/11/20)	<i>Creating VR through Blender</i> Er. Jagdeep Singh Programmer GNDEC Ludhiana	Break	<i>Modeling 3D object using Blender</i> Er. Jagdeep Singh Programmer GNDEC Ludhiana	Lunch	<i>3D object activities using Blender</i> Er. Jagdeep Singh Programmer GNDEC Ludhiana
Thursday (26/11/20)	<i>Working with EON XR Platform</i> Er. Sangeeta Dass Eon Reality Bengaluru	Break	<i>3D & 360 Assets and Lesson Exploration of EON XR Desktop EASI Mode</i> Er. Sangeeta Dass Eon Reality Bengaluru	Lunch	<i>AR/VR In Robotics and Industry 4.0</i> Dr. Subhasis Bhaumik Indian Institute of Engineering Science and Technology, Shibpur, West Bengal
Friday (27/11/20)	<i>MATLAB SimScape for Virtual Reality</i> Dr. Suhas Deshmukh Govt. Engg College, Karad, Maharastra	Break	<i>In Pursuit of Happiness / Fit India Movement</i> Amit Kamra/ Ardamanbir Singh. Art of Living	Lunch	Feedback/ Valedictory/Test

ATAL workshop on Augmented Reality/ Virtual Reality

A Five day Faculty development program on Augmented Reality/Virtual Reality sponsored By ATAL Academy New Delhi was inaugurated at GNDEC Ludhiana by Department of Information Technology.

This FDP was a part of 46 Online FDP inaugurated at Central Level by Honorable Education Minister, Shri Ramesh Pokhriyal Nishank sponsored by AICTE, ATAL Academies

The program at GNDEC was inaugurated by Dr. Sehijpal Singh, Principal GNDEC Ludhiana where he said that Virtual reality can be used to enhance student learning and engagement. VR education can transform the way educational content is delivered.

Dr. Kiran Jyoti Head of Department welcome all the participants. She spoke about how Virtual reality helps students discover how the software can be used in other fields such as medicine, entertainment, and fashion among others.

Dr. Amit Kamra, Coordinator of course while thanking AICTE and ATAL Academy officials, said that there are around 200 Participants from all over India where they will learn about practical concepts of Virtual and Augmented Reality.

Renowned Senior Scientist Dr. Sushil Chandra from Institute of Nuclear Medicine and Allied Sciences New Delhi delivered keynote address on Extended Reality in Cognition and Defense. He discussed that Virtual Reality is a trending technology that gives excellent scope to diverse businesses to take a leap and simulate physical presence in the real world as well as the imaginary world.

Dr Kamra while introducing the keynote speaker and thanked him to sparing his time for his valuable thoughts. During the FDP various experts from DRDO New Delhi, Eon Reality Bangalore, GNE Ludhiana, NITTAR Chandigarh, IKGPTU Jalandhar and other parts of country delivered the lecture on various topics related to Virtual Reality.

List of Participants

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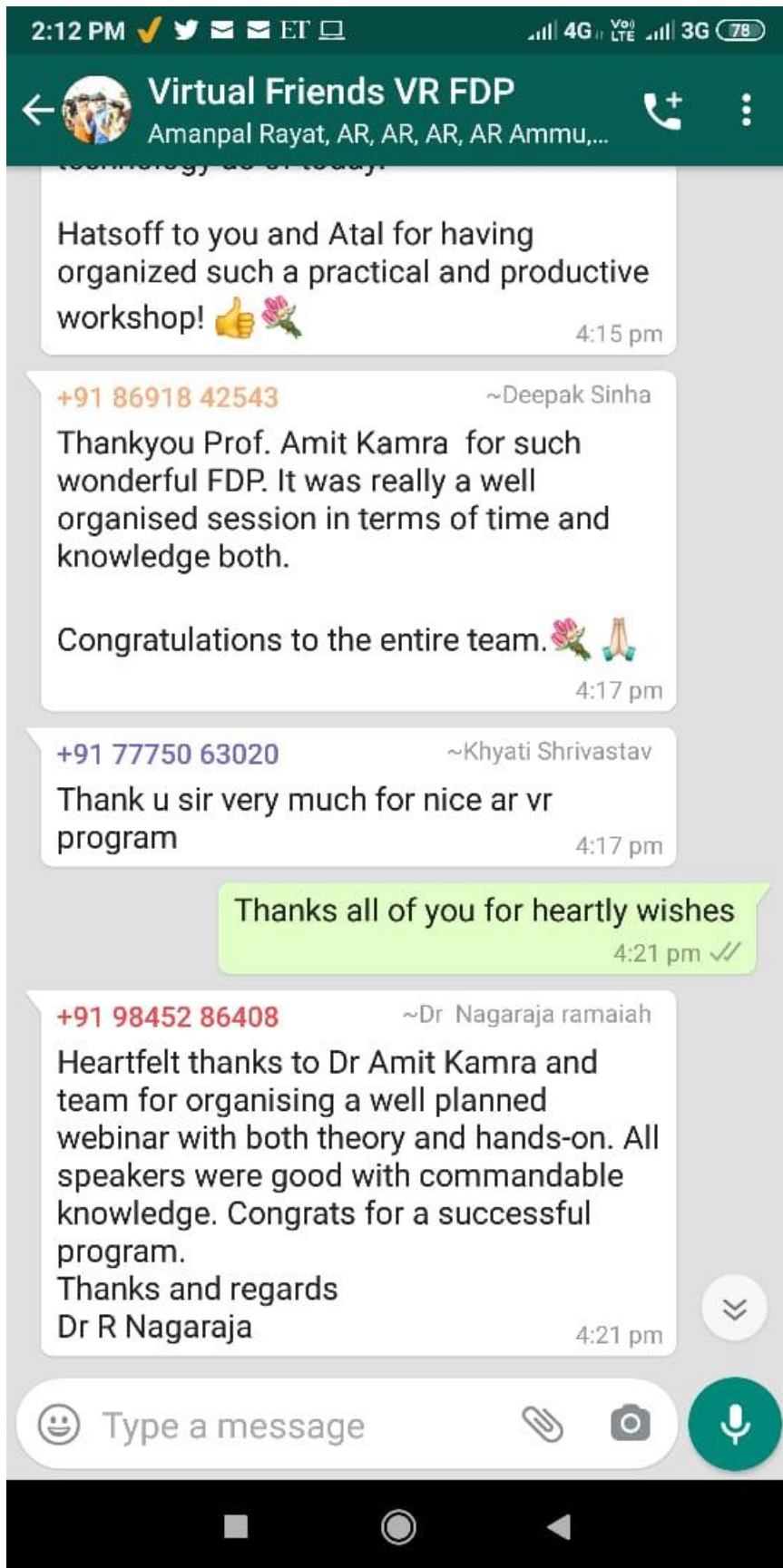
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Snap shots of Feedback from participants





Virtual Friends VR FDP

Amanpal Rayat, AR, AR, AR, AR Ammu,...



+91 99645 61985

~Subbu Vaidyanathan

Sir, How to see the test score? 4:09 pm

+91 98502 53615

~Rupali Tajanpure -Dixit

Submitted feedback and test. Thank you Dr. Amit Sir for this knowledgeable workshop. The workshop was very well organized and well blend of practical and theory sessions. Really appreciable 👍

4:09 pm

+91 99480 83703

~vangakirankumar

Dr. Amit Kamra Sir, Thank you very much for such wonderful sessions. More over, your session on Moral Science was good.

Thank you Sir 😊

4:09 pm

ATAL Feedback is also done Sir. 4:14 pm

+91 99645 61985

~Subbu Vaidyanathan

Heartful thanks dear Dr. Amit Kamra sir for leading and directing us from the day 1 in a commendable way. The workshop was truly awesome and gave a powerful insight on one of the highly trending technology as of today.

Hatsoff to you and Atal for having organized such a practical and productive workshop! 👍🌸

4:15 pm



Type a message





Virtual Friends VR FDP

Amanpal Rayat, AR, AR, AR, AR Ammu,...



+91 99732 61668

~Bhawna Sinha

Thank you to Dr. Amit Kamra and the whole organising team for conducting such an informative and insightful FDP 👍



5:29 pm

+91 98617 75097 ~Soumya

Thank u Sir

5:52 pm

ALL person test recived 5:53 pm ✓✓

shortly we will upload attendance and test details 5:53 pm ✓✓

Fdp Tanya

Okay sir 😊 🙏 🙌 🙌

5:55 pm

+91 91826 82755

~Dr. M. PARVATHI

Dear Amit Sir and team!!
Its wonderful and excellent workshop that I have ever attended, provided with detailed hands on lab sessions, in depth content along with applications.. khudos to the team and team leader 🙌 🙌 🙏 🙏
Congratulations on successful completion



5:58 pm

HADIHADAN D



Type a message

