G.K. Gujar Memorial Charitable Trust's

DR. ASHOK GUJAR TECHNICAL INSTITUTE'S

DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD

Vidyanagar Extn. Karad, Dist. Satara

Department of Computer Science and Engineering

Date : 2/8/2023

Notice

All faculties and students are informed one week STTP on Real-Time Product Development using AR VR and IOT is scheduled as follows:

Date	Time	Topic to be Covered
7/8/2023	10 am to 5pm	a. Introduction to AR. b. AR vs VR. c. Unity Installation d. Marker-based Augmented Reality e. Real-time AR Project
8/8/2023	10 am to 5pm	a. Introduction of IOT b. Real-time Application c. How to Interface Different Components to Microcontroller
9/8/2023	10 am to 5pm	a. Real-Time Product Using AR & IOT b. Introduction of VR c. Physics
10/8/2023	10 am to 5pm	a. modeling and Texturing b. Environment Design
11/8/2023	10 am to 5pm	a. Introduction of Meta Device b. Advance VR Development c. Project development in meta device
12/8/2023	10 am to 1pm	Validation and certificate distribution

Course Coordinator

HOD CSE

G. K. GUJAR MEMORIAL CHARITABLE TRUST's
DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Accredited by NAAC with " A " Grade
Approved by AICTE New Delhi, DTE, Govt. of Maharashtra & Affiliated to Shivaji University Kolhapur

Freedom Fighter
Late G. K. Gujar

Dr. Ashok G. Gujar	Shri Indrajit A. Gujar	Dr. Mrs. Madhuri I. Gujar
M.S.	B. Pharm.	M.B.B.S., DGO
FOUNDER PRESIDENT	VICE PRESIDENT	SECRETARY

Ref:DACOE/CSE/2023-24/STTP/01

Date: 20/07/2023

Invitation

Dear Mr. Rahul Gupta,

It is my pleasure to invite you to a one-week STTP on "Real-Time Product Development using AR, VR & IOT" that is scheduled to take place on 7th to 12th August 2023 at AGTI's Dr. Daulatrao Aher College of Engineering, Karad. The program is aimed at providing a platform for faculty, students, and research scholars.

The course provides an overview of AR, VR and IOT concepts, Product development insight Oculus, Environment Design and Modeling, Module Creation with SME and real time project development using AR, VR.

We would be delighted if you could take out the time from your busy schedule to attend the program and share your thoughts and ideas with the attendees. We are confident that your presence would make the program a great success, and we look forward to hearing from you soon.

Thank you for your time, and we hope to hear from you soon.

Best regards,

Shivam

Recved.

Head
Department of CSE
Head of Computer Science & Engg. Deptt
Dr. Daulatrao Aher College of Engineering
Banawadi-Karad

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

Vidyanagar Extn. Banawadi, Karad, Dist : Satara 415 124 Maharashtra, INDIA • Phone (02164) 272701 / 02
Fax : +91 2164 272703 • Website : www.dacoe.ac.in • Email : principal@dacoe.ac.in

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DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Vidyanagar Extn., Dist. Satara

Department of Computer Science and Engineering

Course Objectives and Outcomes

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Course objectives:

1. Describe basic concepts of AR, VR and IOT.
2. Infer AR, VR and IOT technologies for real time application development.
3. Understand basics of modern tools such as Arduino, blynk cloud space, Unity Game engine, Oculus.
4. Understand development of simulation Projects

Course Outcomes:

COs	Statements	Bloom's Level
1	Demonstrate the overview of Augmented reality, Virtual reality and IOT.	Understand, BL2
2	Apply the knowledge of AR VR and IOT for real time product development	Apply, BL3
3	Utilize the basic of Arduino, blynk cloud space, Unity Game engine, Oculus.	Understand, BL2
4	Develop Simulation Projects using AR and VR insight Oculus and electricity switch automation Project using IOT in real time.	Experiment ~~Create~~, BL6

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

Course Articulation Matrix (CO-PO Mapping)

COs	POs												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	-	-	-	-	--	--	--	--	--	--	--	--	--
CO2	1	2	2	-	2	--	--	--	--	--	--	--	--	2
CO3	1	2	-	-	2	--	--	--	--	--	--	--	--	2
CO4	1	2	2	-	3	2	1	2	3	--	2	1	1	2

Prepared By:	Approved By:
Name: Mrs. J. P. Sarawade	HOD CSE:

Head of Computer Science & Engg. Deptt.
Dr. Daulatrao Aher College of Engineering
Banawadi-Karad

Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. DaulatraoAher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Name: Innovation and Real-Time Product Development Using AR, VR and IOT **Date:** 7-12th August, 2023	*DACOE/PRGM/COF-FRM- 02*
Department: Computer Science and Engineering	*COF-FRM-02- Rev. No: 0*

Activity Report

About the Institute

Dr. Daulatrao Aher College of Engineering Karad is established in 2008 by Dr. Ashok G. Gujar, as a part of Shri G. K. Gujar Memorial Charitable Trust's activities at Karad. The Institute is approved by the All India Council for Technical Education (AICTE) New Delhi, Directorate of Technical Education (DTE) Mumbai, and Government of Maharashtra and is affiliated to Shivaji University Kolhapur.

The Institute offers engineering programs in Civil Engineering, Computer Science and Engineering (CSE), Electronics and Telecommunications, Mechanical Engineering leading to B.E. Degree as per Shivaji University Curriculum. The Institute has dedicated faculty members and staff and is well equipped with laboratories. The Institute has received an ISO 9001 – 2008 and ISO 10002 – 2014 Certification and NAAC accredited with A grade.

The main objective is to provide quality education to students of engineering. With this aim in mind the management, faculty and staff have commitments towards academic excellence and relevance. We at AGTI's DACOE, Karad believe in rational and visibility.

About STTP

STTP on "Real-Time Product Development using AR, VR & IOT" is being conducted at AGTI'S DACOE Karad for faculty, Students, and research scholars. The course provides an overview of AR, VR and IOT concepts, Product development insight Oculus, Environment Design and Modelling, Module Creation with SME and real time project development using AR, VR.

Patrons

Hon. Dr. Ashok G. Gujar
Chairman, G.K. Gujar Memorial Charitable Trust, Karad
Shri. Indrajeet A. Gujar
Vice Chairman, G.K. Gujar Memorial Charitable Trust, Karad
Dr. Madhuri I. Gujar
Secretary, G.K. Gujar Memorial Charitable Trust, Karad.

Convener

Dr. Anwar M. Mulla
Principal, AGTI's DACOE Karad

Co-Convener

Prof. Hanmant M. Kumbhar
Vice Principal, AGTI's DACOE Karad

Mentor

Dr. Madhav B. Kumbhekar

Organizing Secretary

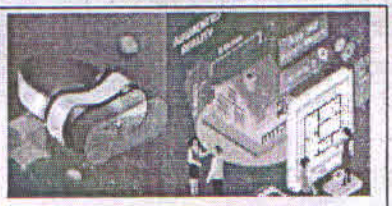
Prof. Shital P. Kakade
Head CSE, AGTI'S DACOE Karad

Program Coordinator

Dr. Pranali. M. Sheth
Email: pmsheth.cse@dacoe.ac.in
Mobile No: 7219715823
Prof. Jyoti P. Sarawade
Email: jpsarawade.cse@dacoe.ac.in
Mobile No: 94235 29888

Organizing Members

Prof. S. D. Bandari	Prof. A. H. Rentushe
Prof. A. N. Mandale	Prof. D R. Kamble
Prof. N. A. Thorat	Prof. A. R. Kadave
Prof. A. S. Jadhav	Prof. T. R. Shinde
Prof. A. D. Thorat	



Course Objectives

- Make attendees aware of AR, VR and IOT Technologies
- Help attendees with hands on experience in development of real- time AR and VR
- Attendees will be equipped with the skills and Knowledge to venture further into exciting field of AR, VR & IOT

Course Contents

- Introduction to AR, VR and IOT
- Unity Installation
- Marker-based Augmented Reality
- Real-time AR and VR projects
- Project development in meta device

Resource Person

- Renowned Faculty from IT industries

Name and details of speaker:
Rahul Gupta, Founder and Director of IOFT (Institute of Futuristics Technologies), Mumbai

Objective of activity:
To provide an overview of AR, VR and IOT concepts, Product development insight Oculus, Environment Design and Modelling, Module Creation with SME and real time project development using AR, VR.

Benefit in terms of learning/skill/knowledge obtained: Students have prepared themselves in the field of AR, VR and IOT

Beneficiary:
Students and Faculty

Outcome/Remark: Students and faculty members learnt about latest trends in the field of AR, VR and IOT

Following contents are covered in workshop:

- Introduction to AR, VR and IOT
- Unity Installation

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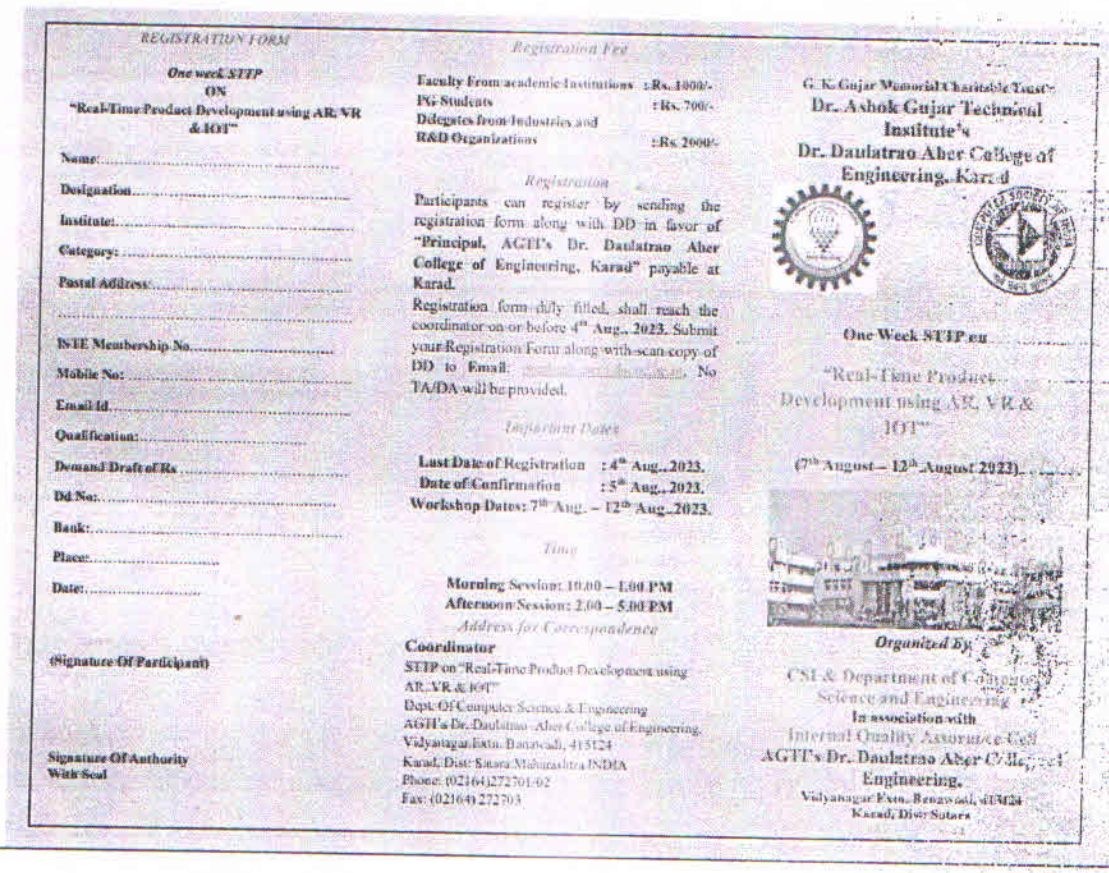
Dr. DaulatraoAher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Name: Innovation and Real-Time Product Development Using AR, VR and IOT **Date**: 7-12th August, 2023	*DACOE/PRGM/COF-FRM- 02*
Department: Computer Science and Engineering	*COF-FRM-02- Rev. No: 0*

Activity Report

Program/Activity Name: Innovation and Real-Time Product Development Using AR, VR and IOT
Day and Date: 7-12th August, 2023
Duration : 36 Hours
Academic Year: 2022-23
Program type: Workshop
Digital Flyer/Banner:



REGISTRATION FORM

One week STTP
ON
"Real-Time Product Development using AR, VR & IOT"

Name:.....
Designation.....
Institute:.....
Category:.....
Postal Address:.....
.....
ISTE Membership No......
Mobile No:.....
Email Id.....
Qualification:.....
Demand Draft of Rs.....
DD No:.....
Bank:.....
Place:.....
Date:.....

(Signature Of Participant)

Signature Of Authority
With Seal

Registration Fee

Faculty From academic Institutions :Rs. 1000/-
PG Students :Rs. 700/-
Ddegates from Industries and R&D Organizations :Rs. 2000/-

Registration

Participants can register by sending the registration form along with DD in favor of **"Principal, AGTI's Dr. Daulatrao Aher College of Engineering, Karad"** payable at Karad.
Registration form duly filled, shall reach the coordinator on or before 4th Aug., 2023. Submit your Registration Form along with scan copy of DD to Email: [redacted]. No TA/DA will be provided.

Important Dates

Last Date of Registration : 4th Aug., 2023.
Date of Confirmation : 5th Aug., 2023.
Workshop Dates: 7th Aug. – 12th Aug., 2023.

Time

Morning Session: 10.00 – 1.00 PM
Afternoon Session: 2.00 – 5.00 PM

Address for Correspondence

Coordinator
STTP on "Real-Time Product Development using AR, VR & IOT"
Dept. Of Computer Science & Engineering
AGTI's Dr. Daulatrao Aher College of Engineering,
Vidyanagar Extn. Banawadi, 415124
Karad, Dist: Satara Maharashtra INDIA
Phone: (02164) 272201-02
Fax: (02164) 272203

G. K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

(7th August – 12th August 2023)

Organized By

CSI & Department of Computer Science and Engineering
In association with
Internal Quality Assurance Cell
AGTI's Dr. Daulatrao Aher College of Engineering,
Vidyanagar Extn. Banawadi, 415124
Karad, Dist: Satara

Dr. Ashok Gujar Technical Institute's * Dr. Daulatrao Aher College of Engineering, Karad *
Banawadi
Karad

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Dr. Ashok Gujar Technical Institute's,
Dr. DaulatraoAher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA.

Name: Innovation and Real-Time Product Development Using AR, VR and IOT **Date:** 7-12th August, 2023	*DACOE/PRGM/COF-FRM-02*
Department: Computer Science and Engineering	*COF-FRM-02- Rev. No: 0*

Activity Report

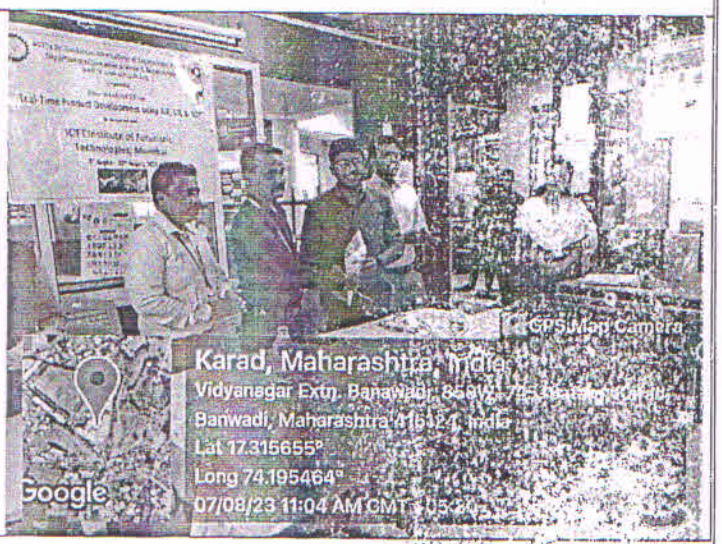
- Marker-based Augmented Reality
- Real-time AR and VR projects
- Project development in meta device

YouTube Link of Event :

Facebook Link of Event:

Attendance Summary:
Number of Participants: 42
No. of Students: 27
No. of Faculties: 15

Photographs:



Program Coordinator: Dr. P.M.Sheth

HoD: Mrs. S. P. Kakade

Head of Computer Science & Engg. Dept
Dr. Daulatrao Aher College of Engineering
Banawadi-Karad.

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Department of Computer Science & Engineering

One Page Report

One week STTP on "Real-Time Product development using AR, VR and IOT"

(7th August – 12thAugust 2023)

Event: One week STTP on "Real-Time Product development using AR, VR and IOT"

Resource Person: Mr. Rahul Gupta CEO, IOFT Institute of Futuristic Technologies, Mumbai.
Mr. Shivam Nimbalkar R&D Engineer, IOFT, Mumbai

Department of Computer Science and Engineering has organized **One week STTP on "Real-Time Product development using AR, VR and IOT"** on 7th August – 12thAugust 2023, for faculties and students. The inauguration ceremony of this course was blessed with imminent faculties of college & students and the resource person for this program **Mr. Rahul Gupta** CEO, IOFT, Mumbai. Head of CSE department **Mrs. S.P. Kakade** in her speech addressed all the audience by her precious words. she started with the need of awareness about AR, VR, and IOT among faculties and students. The workshop was coordinated by **Dr. P. M. Sheth** and **Mrs. J.P. Sarawade**. Total **40** participants (12 Faculty members and 28 students from Computer Science and Engineering department) were present.

Day 1	a. Introduction to AR.
	b. AR vs VR.
	c. Unity Installation
	d. Marker-based Augmented Reality
	e. Real-time AR Project
Day 2	a. Introduction of IOT
	b. Real-time Application
	c. How to Interface Different Components to Microcontroller
Day 3	a. Real-Time Product Using AR & IOT
	b. Introduction of VR
	c. Physics
Day 4	a. Modeling and Texturing
	b. Environment Design
Day 5	a. Introduction of Meta Device
	b. Advance VR Development
	c. Project development in meta device

This one week STTP fulfils its prime objectives to aware the participants regarding AR, VR and IOT concept with hands on product development as well as to develop product inside oculus, module creation with SME and real time project development using AR, VR.

Your's faithfully

Mrs. J.P. Sarawade

G.K. Gujar Memorial Charitable Trust's,
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad.

Department of Computer Science & Engineering

Activity Survey

Name of Activity:	Real-Time Product Development using AR VR and IOT
Organized Under:	SCI & Dept. of CSE In association with Internal Quality Assurance Cell
Name and organization of resource Person:	Mr. Rahul Gupta CEO, IOFT Institute of Futuristic Technologies, Mumbai Mr. Shivam Nimbalkar R&D Engineer and trainer, IOFT, Mumbai
Date:	7th August – 12thAugust 2023

Kindly select the appropriate option as per the following criteria.

Sr. No	Whether activity conducted boost the skills below?	Please Tick whichever is applicable.			PO	PSO
		3	2	1		
1.	Apply the knowledge of mathematics, basic science and basic engineering to solve engineering problems		✓		1	
2.	General aptitude, Technical Aptitude & Reasoning capability		✓		2	2
3.	Analyze a problem, design and implement a computer-based system.	✓			3	2
4.	Select and apply modern tools technologies and skill for developing software.	✓			5	2
5.	Ability to decide Vision and Long term &short-term strategies for expansion of Company	✓			6	2
6.	Environmental concern	✓			7	2
7.	Whether you were punctual in submission of activities/assignments?		✓		8	2

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

8.	As a Team leader, how you integrate system in case of flip classroom type activities?	✓			9	2
9.	Ability to do SWOT analysis	✓			11	2
10.	Capturing and learning capabilities of New Knowledge (Updating in Technical Aspects)	✓			12	2
11.	Flexibility and Adaptability influenced in you?		✓			
12.	How was ambience?	✓				
13.	How was technical arrangement?	✓				
14.	How was speaker's knowledge?	✓				
15.	How was overall management?	✓				
16.	Any Suggestion?					

Namrata Babu Gaulewad

Namrata Babu Gaulewad

Name and sign. of the Participant (Optional)

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

Date: 20/07/2023

FORM – I

Advance / budget approval form for carrying cut expenditure to submitted by faculty incharge / section HODs to the Principal & Management.

Name of the person: Dr. P. M. Sheth

Proposing the expenses: Establishment of AR-VR Lab.

Department: Computer Science & Engineering.

SR.NO.	BUDGET	ADVANCE REQIIRED
Lab setup &	Rs. 121000/-	Rs. 61000/-
training		

The above proposed expenditure budget is sanctioned/not sanctioned. The advance amount Rs. 61000/- Approved for carrying out the expenditure.

PROPOSED BY RECOMMENDED BY SANCTIONED BY

HOD/SEC. INCHARGE VICE PRICNIPAL PRINCIPAL SECRETARY

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad Banawadi Karad

Scanned with OKEN Sca

Shivam Gajanan Nimbalkar

(B.Tech Computer Science & Engineering)

Permanent Address:

At- Tambmal, Farandwadi Post- Phaltan

Tal. Phaltan, Dist. Satara, Pin code- 415523.

Contact:

+91 8830854483

shivamnimbalkar3901@gmail.com

Technical Skills:

Web Development, React JS, Node JS, CSS/SCSS, Augmented & Virtual Reality, Unity 3D, SEO, IoT, Sketchup PRO, Blender.

Experience:

1.2 Years

Work Experience:

Research & Development Engineer and Trainer

(Institute Of Futuristic Technologies, Mumbai)

Responsibility:

Working as a Full stack web developer, Guest Lecturer for conducting Workshops, Student development training programs on Virtual & Augmented Reality, IoT.

Dr. Babasaheb Gujar Technical Institute, Banawadi Karad, Dr. Bhaulaltrao Aher College of Engineering, Karad

Rahul Gupta

Email address: rahultgupta95@gmail.com
Contact no: 9892652758/ 9372020254
Founder and Director of IOFT (Institute of Futuristics Technologies)

Work Experience

- Founded Company in 2017 which focuses on the Educational Training, Industrial Training and product development In Information Technology and Electronics Sector.
- Conducted Technical Trainings in More than 200 colleges (Polytechnic, Engineering and NIFT etc.) Across India.
- Took Internet of Things subject in NIFT Mumbai (2019- 20)
- Conducted Faculty Development Program (FDP) in more than 25 colleges across India
- Provided Training to International Student (Nottingham Trent University) United Kingdom.
- Formulated The company's vision, goal, and objectives; hired and trained new employees

Education

Bachelor of Engineering. in Electronic and Telecommunication Engineering. (2016-17)

Professional Skills

- **Technologies:** Augmented Reality, Virtual Reality, Internet of Things, Data Science, Machine learning, DL, Cloud computing, Blynk, Google cloud.
- **Database:** MySQL, Google Firebase.
- **Software's, Hardware's and tools:** Arduino, Node mcu, Raspberry-Pi Jupyter, Spyder, Unity, Lens Studio, Android.

Dr. Ashok Gujar Technical Institute's Dadasaheb Alhat College of Engineering, Karad
Banawadi Road

Dr. P. M. Sheth
Asso. Prof., Dept. of CSE
AGTI's DACOE, Karad
pmsheth.cse@dacoe.ac.in
Date: 20/07/2023

To,
Dr. A. M. Mulla
The Principal,
AGTI's DACOE, Karad

Subject: Request for Approval of Partial Payment (50%) for Purchasing Hardware for the Establishment of AR/VR Lab

Dear Sir,

As per the communication held in the previous meeting we have got approval for the setup of the AR VR lab at Department of CSE.

In this line, as per the request of the vendor IOFT (Institute of Futuristic Technologies) has been requested for Partial Payment (50%) for Purchasing Hardware for the Establishment of AR/VR Lab. The AR/VR Lab is an essential investment, amounting to Rs. 122,000/- approximately. As per the request and need of IOFT the release of payment Rs. 61,000/-is requested to get sanctioned.

Thank you.

Sincerely,

Dr. P. M. Sheth
Asso. Prof., Dept. of CSE

IOFT (Institute of Futuristic Technologies)

104 classic heritage building, Aarey Rd, Peru Baug,
Goregaon East, Mumbai: 400063
Phone no: 9372020254
Email: contact@ioft.info

To,

AGTI's DR. Daulatrao Aher College of Engineering, Karad
CSE Department

Receipt-1

Receipt No: 230719-05

Date: 19/07/2023

ITEM	Amount
Lab Setup and Training (50 %)	61,000/-
Amount Pending	**61,000/-**

Amount In Words

Sixty one Thousand.

Sub Total	1,22,000/-
Pending	**61,000/-**

For, IOFT (Institute of Futuristic Technologies)

Authorized Signatory

Account Details:
Name: IOFT INSTITUTE OF FUTURISTIC TECHNOLOGIES
Bank Name: Bank of Baroda
Branch: Goregaon East
Account Number: 17580200003522
IFSC Code: BARB0GOREAS
PAN NO: BKZPG2097K

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

	Dr. Ashok Gujar Technical Institute's **Dr. Daulatrao Aher College of Engineering, Karad.**
	Department of Computer Science & Engineering

Ref No. AGTI&S DACOE/07/22A/2023-24 **Date:** 20/07/2023

To,
Mr. Rahul Gupta
Co-Founder and Managing Director
IOFT (Institute of Futuristic Technologies),
Mumbai
Sub: AR-VR Lab Establishment and Short Term Training Program (STTP) on AR -VR and IoT.

Dear Sir,

With reference to the proposal submitted by you dated 28/06/2023& telephonic discussion. I am pleased to place the order for AR-VR Lab Establishment and Short Term Training Program (STTP) on AR -VR and IoT., the details of the same are as follows:

Description	**Total amount (In Rs.)**
AR-VR Lab Establishment and Short Term Training Program (STTP) on AR -VR and IoT. **Training period – 6 Days:** Covering establishment of lab setup and complete hands on and real time product development based on AR -VR and IoT as per the proposal submitted to Dr.AGTI's DACOE, Karad.	**122,000/-**
Price including of all taxes	
Grand Total Payable	**122,000/-**

Amount in words- Rs. One Lakh Twenty Two thousand only

Terms & Conditions:

- All the relevant and appropriate training kits will be provided to students during the course of the programme by IOFT.
- Date for Training from 31st July, 2023 – 5th August, 2023.
- Lodging boarding will be borne by the college.

Dr. Anwar M. Mulla
Principal

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Baherwadi Karad

Dr. Mrs. Madhuri I. Gujar
Secretary

Why Augmented & Virtual Reality

1. **Job opportunities:** AR and VR are rapidly growing fields, with many companies in various industries investing in technology. As a result, there is a growing demand for professionals with AR and VR skills.

2. **Entrepreneurship:** AR and VR offer many opportunities for entrepreneurs to create new products and services, from games and entertainment to education and training.

3. **Immersive experiences:** VR can be used to create highly immersive and engaging experiences that transport users to different worlds and environments. AR can be used to enhance the real-world experiences of users by providing additional digital information and interactions.

4. **Improving productivity:** AR and VR can be used to improve the efficiency and effectiveness of tasks in a variety of fields such as manufacturing, maintenance, and repair.

5. **Enhancing education and training:** AR and VR can be used to create immersive and interactive learning experiences that can help to improve retention and understanding of complex concepts.
6. **Therapy:** VR can be used as a tool for therapy and treatment of various conditions such as PTSD, phobias, and pain management.

7. **Design and Creativity:** AR and VR can be used as a tool for design, visualisation, and prototyping in various fields such as architecture, product design, and filmmaking.

8. **Industry Adoption:** With the increasing use of AR and VR in areas like education, healthcare, entertainment, and industry, the demand for skilled professionals in AR and VR is increasing.

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Banawadi
Karad

1.	Day 1	a. Introduction To AR. b. AR vs VR. c. Unity Installation d. Marker-based Augmented Reality e. Real-time AR Project
2.	Day 2	a. Introduction of IOT b. Real-time Application c. How to Interface Different Components to Microcontroller d. Real-Time Product Using AR & IOT
3.	Day 3	a. Introduction of VR b. Physics c. modelling and Texturing d. Environment Design
4.	Day 4	a. Introduction of Meta Device b. Advance VR Development c. Project development in meta device

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Banawadi
Karad

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Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Registration

Date: - 07/08/2023

Sr. No.	Name of the participant	Institute with Dept.	Email-id	Mob. No.	Sign
1.	Dange Tejas Amar	CSE	tejasdange06@gmail.com	7276746021	Dange
2.	Bagwan Muaaj Sajid	CSE	Bagwanmuaaj5@gmail.com	9922355747	ASB
3.	Gharge Harish Vijay	CSE	harishgharge03@gmail.com	9604096523	Gharge
4.	Pawar Nikhil Rajesh	CSE	nrpawar9756@gmail.com	9322242494	Pawar
5.	Pise Prathamesh Anil	CSE	Prathamesh Pise 6@gmail.com	7028545419	PAP
6.	Patil ajinkya Jagwant	CSE	ajinkyapatil5110@gmail.com	9022993044	Patil
7.	Khedkar Utkarsh Sudhir	CSE	utkarshkhedkar2003@gmail.com	7385599756	Khedkar
8.	Mali Abhishek Bharat	CSE	maliabhi000@gmail.com	7218734647	Mali

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Sr. No.	Name of the participant	Institute with Dept.	Email-id	Mob. No.	Sign
9.	Mane Vaibhavi Umesh	CSE	vaibhavimane1163@gmail.com	7620678202	V.U.Mane
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13.	Prajakta Prakash lokare	CSE	Lokareprajakta839@gmail.com	9561105953	Prajakta
14.	Mahadik shreya Rahulkumar	CSE	shreyamahadik255@gmail.com	7744075009	Mahadik
15.	Abdar Divya Laxman	CSE	divyaabdar98@gmail.com	8999636931	Abdar
16.	Mohite Sakshi Ashok	CSE	Sakshimohite22042004@gmail.com	7028925443	Mohite
17.	Patil Vishakha Sanjay	CSE	vishakhapatil1441@gmail.com	7666030188	Patil
18.	Dhebe Rutuja Bajrang	CSE	dhebenutuja338@gmail.com	8010363125	Dhebe
19.	Gaikwad Namrata Babu	CSE	namratagaikwad8180@gmail.com	8180869544	Namrata Gaikwad
20.	Dange Jyoti Shrikant	CSE	dangejyoti65@gmail.Com	7058429197	Dange
21.	Kolekar Tejaswini Vijay	CSE	tejaswinikolekar123@gmail.com	9665325778	

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Sr. No.	Name of the participant	Institute with Dept.	Email-id	Mob. No.	Sign
22.	Jadhav Dhanashri Dhananjay	CSE	dhanujadhav1811@gmail.com	7249425905	Jadhav
23.	Kachare Rohini Lakharam	CSE	rohini00201@gmail.com	9356191209	
24.	Ingavale Sakshi Shivaji	CSE	ssi07112003@gmail.com	7775965057	S.S.Ingavale
25.	Junjwadkar Yogita Narayan	CSE	yogitajunjwadkar47@gmail.com	8792108245	Yogita
26.	Babar Amruta Sadanand	CSE	amrutababar2022@gmail.com	9119416317	A.Babar.
27.	Chavan Nilam Bhaskar	CSE	chavannilam734@gmail.com	7083071706	Chavan
28.	Gurav Shraddha Anandrao	CSE	Shradha.gurav.2003@gmail.com	8767608686	Sgurav
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Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Registration

Date: - 07/08/2023

Sr. No.	Name of the participant	Institute with Dept.	Email-id	Mob. No.	Sign
1.	Ms. Ashwini N. Mandale	DACOE, CSE	anmandale.cse@dacoe.ac.in	8407975547	Mandale
2.	Mrs. Jyoti P. Sarawade	DACOE, CSE	jpsarawade.cse@dacoe.ac.in	9423529888	
3.	Ms. Sumalatha D. Bandari	DACOE, CSE	sdbandari.cse@dacoe.ac.in	9960022681	
4.	Mr. Akshay D. Thorat	DACOE, CSE	adthorat.cse@dacoeac.in	9156606570	Thorat
5.	Ms. Aragha R. Kadve	DACOE, CSE	arkadve.cse@dacoe.ac.in	8550907391	Kadve
6.	Ms. Deepali R. Tamble	DACOE, CSE	drtamble.cse@dacoe.ac.in	7057828340	Tamble
7.	Dr. Pranali M. Sheth.	DACOE, CSE	pmsheth.cse@dacoe.ac.in	7219715823	
8.	Mrs. Archana. H. Renushe	DACOE, CSE	ahrenushe.cse@dacoe.ac.in	7385801346	

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Sr. No.	Name of the participant	Institute with Dept.	Email-id	Mob. No.	Sign
9.	Mrs. Tejasrini Rahul Shinde	DACOE, Karad CSE	trshinde.cse@dacoe.ac.in	9403572972	
10.	Mrs. Shital P. Kakade	DACOE CSE	spkakade.cse@dacoe.ac.in	7709654280	
11.	Mr. Hemant K. Shete	DACOE mech	hkshete.mech@dacoe.ac.in	9420696944	
12.	Mr. Sarafaraj J. Mulani	DACOE mech	sjmulani.mech@dacoe.ac.in.	8421583965	
13.					
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Karad

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Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Attendance

Date: 8/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Bagwan Muaaj S.		
2.	Dange Tejas A.		
3.	Ghange Harsh V.		
4.	Pawar Nikhil Rajesh		
5.	Pise Prathamesh Anil		
6.	Patil Ajinkya Jaywant		
7.	Khedkar Utkarsh Sudhir		
8.	Mane Vaibhavi Umesh	V.U. Mane	V.U. Mane
9.	Patil Vaishnavi Pravin		
10.	Shinde Vaishnavi Shashikant		
11.	Kadam Nandini Prashant		
12.	Divya laxman abdar		
13.	Shreya Rahulkumar mahadik		
14.	Prajakta prakash lokare		
15.	Dange Jyoti Shrikant		

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Sr. No.	Name	Session-1	Session-2
16.	Gaikwad Namrata B.		
17.	Dhebe Rutuja B.		
18.	Patil vishakha.S.		
19.	Mohite Sakshi A		
20.	Jadhav Dhanashri Dhanajay		
21.	Kachare Rohini Sakharam		
22.	Ingavale Sakshi Shivaji	S.S.Ingavale.	S.S.Ingavale.
23.	Junjwadkar Yogita Narayan		
24.	Kolekar Tejaswini Vijay		
25.	Chavan Nilam Bhaskar		
26.	Babar Amruta Sadanand		
27.			
28.	Mali Abhishek Bharat		
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Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Attendance

Date: 7/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Dange Tejas Amar		
2.	Gharge Harsh Vijay		
3.	Bagwan Mujaj Sajid		
4.	Mali Abhishek Bharat		
5.	Pawar Nikhil Rajesh		
6.	Pise Prathamesh Anil		
7.	Patil Ajinkya Jaywant		
8.	Khedkar Utkarsh Sudhir		
9.	Patil Vaishnavi Pravin		
10.	Shinde Vaishnavi Shashikant		
11.	Mane Vaibhavi Umesh	V.U.Mane	V.U.Mane
12.	Mohite Sakshi Utkarsh Ashok		
13.	Kadam Nandini Prashant		
14.	Lokare Prajakta Prakash		
15.	Abdar Divya Laxman		

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Sr. No.	Name	Session-1	Session-2
16.	Mahadik Shreya Rahulkumar		
17.	Dange Jyoti Shrikant		
18.	Gaikwad Namrata Babu		
19.	Dhebe Rutuja Bajrang		
20.	Patil Vishakha Sanjay		
21.	Jadhav Dhanashri Dhananjay		
22.	Kachare Rohini Sakharam		
23.	Ingavale Sakshi Shivaji	S.S.Ingavale	S.S.Ingavale
24.	Junjwadkar Yogita Narayan		
25.	Babar Amruta Sadanand		
26.	Kolekar Tejaswini Vijay		
27.	Chavan Nilam Bhaskar		
28.	Gurav Shraddha Anandrao		
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Department of Computer Science and Engineering

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(7th August – 12th August 2023)

Attendance

Date: 9|8|2023

Sr. No.	Name	Session-1	Session-2
1.	Bagwan Muaaj Sajid		
2.	Gahange Harsh vijay		
3.	Dange Tejas Amar		
4.	Mali Abhishek Bharat		
5.	Pawar Nikhil Rajesh		
6.	Pise Prathamesh Anil		
7.	Patil Ajinkya Jaywant		
8.	Khedkar Utkarsh		
9.	Shinde vaishnavi shashikant		
10.	Patil Vaishnavi Pravin		
11.	Mane Vaibhavi Umesh	V.U.Mane	V.U.Mane
12.	Kodam Nandini prashant		
13.	divya laxman dabdar		
14.	Shreya Rahulkumar mahadik		
15.	Prajakta prakash lokare		

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Sr. No.	Name	Session-1	Session-2
16.	Patil vishakha sanjay		
17.	Dange Jyoti shrikant		
18.	Gaikwad Namrata Babu		
19.	Dhebe Rutuja Bajrang		
20.	Mohite sakshi Ashok		
21.	Jadhav Dhanashri Dhananjay		
22.	Kachare Rohini sakharam		
23.	Junjwadkar Yogita Narayan		
24.	Ingavale Sakshi Shivaji	S.S Ingavale.	S.S Ingavale.
25.	Babar Amrata Sadanand	A.S Babar.	A.S Babar.
26.	Kolekar Tejaswini Vijay		
27.	Chavan Nilam Bhaskar	Chavan	
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Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Attendance

Date: 10/8/23

Sr. No.	Name	Session-1	Session-2
1.	Tejaswini Vijay Kolekar		
2.	Kachare Rohini Sakharam		
3.	Ingavale Sakshi Shivaji	S.S.Ingavale	S.S.Ingavale
4.	Chavan Nilam Bhaskar	Chavan	Chavan
5.	Jungwadkar Yogita Narayan	Yogita	Yogita
6.	Dhebe Kartuja Bajrang	Dhebe	Dhebe
7.	Gaikwad Namrata Babu	Namrata	Namrata
8.	Dange Jyoti shrikant	Jdange	Jdange
9.	Patil Vishakha Sanjay	Patil	Patil
10.	Mohite Sakshi Ashok	Smohite	Smohite
11.	Mane Vaibhavi Umesh	V.U.Mane	V.U.Mane
12.	Shine Vaishnavi Shashi	Shinde	Shinde
13.	Jadhav Dhanashri Dhananjay Kant	Jadhav	Jadhav
14.	Kadam Nandini Prashant	Nkadam	Nkadam
15.	Abdar divya Laxman	Abdar	Abdar

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
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Sr. No.	Name	Session-1	Session-2
16.	Shreya Rahul Kumar mahadik	Mahadik	Mahadik
17.	Khedkar Utkarsh Sudhir	Khedkar	Khedkar
18.	Patil Ajinkya Jaywant	Patil	Patil
19.	Patil Vaishnavi Pravin	Patil	Patil
20.	Babar Amruta Sadanand	Babar	Babar
21.	Pawar Nikhil Rajesh	Pawar	Pawar
22.	Pise Prathamesh Anil	PAP	PAP
23.	Mali Abhishek Bharat	Abhi	Abhi
24.	Bagwan Muaaj Sajid	AK	AK
25.	Dange Tejas Amar	Tange	Tange
26.	Change harsh vijay	Change	Change
27.			
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Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

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(7th August – 12th August 2023)

Attendance

Date: 11/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Harsh Vijay Gharge	Gharge	Gharge
2.	Muaaj Sajid Bagwan	[illegible]	[illegible]
3.	Tejas Amar Dange	Dange	Tejas
4.	Abhishek Bharat Mali	ABMali	ABMali
5.	Pise Prathamesh Anil	PAP	PAP
6.	Pawar Nikhil Rajesh	Pawar	Pawar
7.	Patil Ajinkya J.	APatil	APatil
8.	Khedkar UTKarsh sudhir	Khekar	Khekar
9.	Patil Vaishnavi Pravin	Patil	Patil
10.	Mahadik shruya R.	Mahadik	Mahadik
11.	Kadam Nandini P.	NPkadam	NPkadam
12.	Abdar Divya Laxman.	[illegible]	[illegible]
13.	Mane Vaibhavi Umesh	V.V.Mane	V.V.Mane
14.	Shinde Vaishnavi shashikant	Shinde	Shinde
15.	Patil vishakha sanjay	[illegible]	[illegible]

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
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Sr. No.	Name	Session-1	Session-2
16.	Mohite Sakshi Ashok		
17.	Junjwadkar Yogita Narayan		
18.	Dhebe Rutuja Bajirang		
19.	Gaikwad Namrata B.		
20.	Kachare Rohini Sakharam		
21.	Dange Jyoti Shrikant		
22.	Ingavale Sakshi Shivaji	S.S. Ingavale	S.S. Ingavale
23.	Babar Amruta Sadanand	A.S.Babar.	A.S.Babar.
24.	Kolekar Tejaswini Vijay		
25.	Jadhav Dhanashri Dhananjay		
26.	Chavan Nilam Bhaskar	Chavan	
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19.	Gaikwad Namrata B.		
20.	Kachare Rohini Sakharam		
21.	Dange Jyoti Shrikant		
22.	Ingavale Sakshi Shivaji	S.S. Ingavale	S.S. Ingavale
23.	Babar Amruta Sadanand	A.S.Babar.	A.S.Babar.
24.	Kolekar Tejaswini Vijay		
25.	Jadhav Dhanashri Dharmajay		
26.	Chavan Nilam Bhaskar	Chavan	
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Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Attendance

Date: 12/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Harsh Vijay Ghurge		
2.	Mujaj Sajid Bagwan		
3.	Tejas Amar dange		
4.	Abhishek Bharat Mali		
5.	Pise Prathamesh Anil		
6.	Pawar Nikhil Rajesh		
7.	Patil Ajinkya J.		
8.	Khedkar Utkash sudhir		
9.	Patil Vaishnavi Pravin		
10.	Mahadik Shreya R.		
11.	Kadam Nandini Prashant		
12.	Abdar Divya Laxman		
13.	Mane Vaibhavi Umesh	V.V.Mane	V.V.Mane
14.	Shinde Vaishnavi shashikant		
15.	Patil Vishakha Sanjay		

Dr. Ashok Gujar Technical Institute's
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Banawadi
Karad

Sr. No.	Name	Session-1	Session-2
16.	Mohite Sakshi Ashok		
17.	Junjwadkar Yogita Narayan		
18.	Dhebe Rutuja Bajrang		
19.	Gaikwad Namrata B.		
20.	Kachare Rohini Sakharam		
21.	Dange Jyoti Shrikant		
22.	Sakshi Shivaji Ingavale	S.S. Ingavale	S.S. Ingavale
23.	Babar Amruta Sadanand		
24.	Kolekar Tejaswini Vijay		
25.	Jadhav Dhanashri Dhananjay		
26.	CHAVAN NILAM BHASKAR		
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Late Dr. Ashok Gikar Technical Institute's Dadasaheb Aher College of Engineering, Karad
Banawadi Karad

G. K. GUJAR MEMORIAL CHARITABLE TRUST's
DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Accredited by NAAC with " A " Grade
Approved by AICTE New Delhi, DTE, Govt. of Maharashtra & Affiliated to Shivaji University Kolhapur

Freedom Fighter
Late G. K. Gujar

Dr. Ashok G. Gujar	Shri Indrajit A. Gujar	Dr. Mrs. Madhuri I. Gujar
M. S.	B. Pharm.	M.B.B.S., DGO
FOUNDER PRESIDENT	VICE PRESIDENT	SECRETARY

Ref:DACOE/CSE/2023-24/STTP/01

Date: 20/07/2023

Invitation

Dear Mr. Rahul Gupta,

It is my pleasure to invite you to a one-week STTP on "Real-Time Product Development using AR, VR & IOT" that is scheduled to take place on 7th to 12th August 2023 at AGTI's Dr. Daulatrao Aher College of Engineering, Karad. The program is aimed at providing a platform for faculty, students, and research scholars.

The course provides an overview of AR, VR and IOT concepts, Product development insight Oculus, Environment Design and Modeling, Module Creation with SME and real time project development using AR, VR.

We would be delighted if you could take out the time from your busy schedule to attend the program and share your thoughts and ideas with the attendees. We are confident that your presence would make the program a great success, and we look forward to hearing from you soon.

Thank you for your time, and we hope to hear from you soon.

Best regards,

Head
Department of CSE
Head of Computer Science & Engg. Dept
Dr. Daulatrao Aher College of Engineering
Banawadi-Karad

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

Vidyanagar Extn. Banawadi, Karad, Dist : Satara 415 124 Maharashtra, INDIA • Phone (02164) 272701 / 02
Fax : +91 2164 272703 • Website : www.dacoe.ac.in • Email : principal@dacoe.ac.in

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Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Attendance

Date: 7/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Mrs. J.P. Sarawade		
2.	Mr. A.D. Thorat		
3.	Mrs. T.R. Shinde		
4.	Ms. A.N. Mandale		
5.	Ms. S.S. Bandari		
6.	Mrs. A.H. Renushe		
7.	Mrs. A.S. Jadhav		
8.	Ms. S.S. Bandari		
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Department of Computer Science and Engineering

One Week STTP on

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Attendance

Date: 8|8|2023

Sr. No.	Name	Session-1	Session-2
1.	Mrs. J. P. Sarawade		
2.	Mrs. T. R. Shinde		
3.	Mrs A. S. Jadhav		
4.	Mr. A. D. Thorat		
5.	Ms. S. D. Bandal		
6.	Mrs. A. H. Renushe		
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(7th August – 12th August 2023)

Attendance

Date: 9/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Mrs. A. S. Jadhav	[signature]	[signature]
2.	Mrs. T. R. Shinde	[signature]	[signature]
3.	Mrs. J. P. Sarawade	[signature]	[signature]
4.	Mr. A. D. Thorat	[signature]	[signature]
5.	Ms. S. D. Bandari	[signature]	[signature]
6.	Mrs. A. H. Renushe	[signature]	[signature]
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Attendance

Date: 10/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Mrs. A.S. Jadhav		
2.	Mrs. J.P. Sarawade		
3.	Mrs. T.R. Shinde		
4.	Mr. A.D. Thorat		
5.	Ms. S.D. Bardale		
6.	Ms. A.H. Renushe		
7.			
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10.			
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12.			
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14.			
15.			

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

G. K. Gujar Memorial Charitable Trust's,
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad.

Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Attendance

Date: 11/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Mrs - A - S - Jadhav	Jadhav	Jadhav
2.	Mrs. T. R. Shinde	Tshinde	Tshinde
3.	Mr. A. D. Thorat	Thorat	Thorat
4.	Ms. S. D. Bandal		
5.	Mrs. A. H. Renushe		
6.	Mrs. J. P. Sarawade		
7.			
8.			
9.			
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14.			
15.			

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

G. K. Gujar Memorial Charitable Trust's,
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad.

Department of Computer Science and Engineering

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

Under CSI & Dept. of CSE In association with Internal Quality Assurance Cell

(7th August – 12th August 2023)

Attendance

Date: 12/8/2023

Sr. No.	Name	Session-1	Session-2
1.	Mrs. A. S. Jadhav	Jadhav	Jadhav
2.	Mrs. J. P. Sarawade	Khalak	Khalak
3.	Mrs. T. R. Shinde	Shinde	Shinde
4.	Mr. A. D. Thorat	A Thorat	A Thorat
5.	Ms. S. S. Bandari	S	S
6.	Mrs. A. H. Renushe	Anushe	Anushe
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Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering
Banawadi
Karad

G.K. Gujar Memorial Charitable Trust's,
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad.

Department of Computer Science & Engineering

Activity Survey

Name of Activity:	Real-Time Product Development using AR VR and IOT
Organized Under:	SCI & Dept. of CSE In association with Internal Quality Assurance Cell
Name and organization of resource Person:	Mr. Rahul Gupta CEO, IOFT Institute of Futuristic Technologies, Mumbai Mr. Shivam Nimbalkar R&D Engineer and trainer, IOFT, Mumbai
Date:	7th August – 12thAugust 2023

Kindly select the appropriate option as per the following criteria.

Sr. No	Whether activity conducted boost the skills below?	Please Tick whichever is applicable.			PO	PSO
		3	2	1		
1.	Apply the knowledge of mathematics, basic science and basic engineering to solve engineering problems		✓		1	
2.	General aptitude, Technical Aptitude & Reasoning capability		✓		2	2
3.	Analyze a problem, design and implement a computer-based system.	✓			3	2
4.	Select and apply modern tools technologies and skill for developing software.	✓			5	2
5.	Ability to decide Vision and Long term &short-term strategies for expansion of Company	✓			6	2
6.	Environmental concern	✓			7	2
7.	Whether you were punctual in submission of activities/assignments?		✓		8	2

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

8.	As a Team leader, how you integrate system in case of flip classroom type activities?	✓			9	2
9.	Ability to do SWOT analysis	✓			11	2
10.	Capturing and learning capabilities of New Knowledge (Updating in Technical Aspects)	✓			12	2
11.	Flexibility and Adaptability influenced in you?		✓			
12.	How was ambience?	✓				
13.	How was technical arrangement?		✓			
14.	How was speaker's knowledge?	✓				
15.	How was overall management?	✓				
16.	Any Suggestion? conduct this type of session in many times of the 2 months					

Divya Laxman Abdar.

Name and sign. of the Participant (Optional)

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

G.K. Gujar Memorial Charitable Trust's,
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad.

Department of Computer Science & Engineering

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		3	2	1		
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5.	Ability to decide Vision and Long term &short-term strategies for expansion of Company	✓			6	2
6.	Environmental concern	✓			7	2
7.	Whether you were punctual in submission of activities/assignments?	✓			8	2

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad

8.	As a Team leader, how you integrate system in case of flip classroom type activities?	✓			9	2
9.	Ability to do SWOT analysis	✓			11	2
10.	Capturing and learning capabilities of New Knowledge (Updating in Technical Aspects)	✓			12	2
11.	Flexibility and Adaptability influenced in you?	✓				
12.	How was ambience?	✓				
13.	How was technical arrangement?	✓				
14.	How was speaker's knowledge?	✓				
15.	How was overall management?	✓				
16.	Any Suggestion? Conduct This Kind of sessions for every Tech subjects.					

Harish. V. Acharya

Name and sign. of the Participant (Optional)

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad

Banawadi
Karad

G.K. Gujar Memorial Charitable Trust's,
Dr. Ashok Gujar Technical Institute's
Dr. Daulatrao Aher College of Engineering, Karad.

Department of Computer Science & Engineering

Activity Survey

Name of Activity:	Real-Time Product Development using AR VR and IOT
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		3	2	1		
1.	Apply the knowledge of mathematics, basic science and basic engineering to solve engineering problems	✓			1	
2.	General aptitude, Technical Aptitude & Reasoning capability	✓			2	2
3.	Analyze a problem, design and implement a computer-based system.	✓			3	2
4.	Select and apply modern tools technologies and skill for developing software.	✓			5	2
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6.	Environmental concern	✓			7	2
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Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

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10.	Capturing and learning capabilities of New Knowledge (Updating in Technical Aspects)	✓			12	2
11.	Flexibility and Adaptability influenced in you?	✓				
12.	How was ambience?	✓				
13.	How was technical arrangement?	✓				
14.	How was speaker's knowledge?	✓				
15.	How was overall management?	✓				
16.	Any Suggestion? Conduct This sessions ones every monthy which could help us gain more & more practicle Knowledge.					

Muaaj. S. Bagwan

Name and sign. of the Participant (Optional)

Dr. Ashok Gujar Technical Institute's Dadapatroo Aher College of Engineering, Karad
Banawadi
Karad

G. K. GUJAR MEMORIAL CHARITABLE TRUST's
DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
Accredited by NAAC with " A " Grade
Approved by AICTE New Delhi, DTE, Govt. of Maharashtra & Affiliated to Shivaji University Kolhapur

Freedom Fighter
Late G. K. Gujar

Dr. Ashok G. Gujar	Shri Indrajit A. Gujar	Dr. Mrs. Madhuri I. Gujar
M.S.	B. Pharm.	M.B.B.S., DGO
FOUNDER PRESIDENT	VICE PRESIDENT	SECRETARY

Ref:DACOE/CSE/2023-24/STTP/ 02

Date: 12/08/2023

To,
Mr. Rahul Gupta
CEO, IOFT, Mumbai

Subject: Appreciation Letter.

Dear Sir,

I would like to extend my sincere gratitude towards you for your valuable guidance to our faculty members and students on the occasion of one-week STTP on **"Real-Time Product Development using AR, VR & IOT from 7th to 12th August 2023** at AGTI's Dr. Daulatrao Aher College of Engineering, Karad. It was certainly a pleasant moment for us to meet you. Thank you so much for guiding us on a very important and critical topic – AR, VR & IOT.

The knowledge and insights you shared during the session were invaluable, and I found them to be incredibly helpful in shaping my understanding of the startup world. Your expertise and passion for the subject were evident in the way you presented the information. You made it easy for us to follow along and understand the concepts, and you took the time to answer all of our questions thoroughly. I am confident that good things will come from our joint efforts.

Thank you!

Best regards,

Head
Department of CSE

Head of Computer Science & Engg. Dept.
Dr. Daulatrao Aher College of Engineering
Banawadi-Karad

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

Prof. S. P. Kakade
Head, Dept. of CSE
AGTI's DACOE, Karad
spkakade.cse@dacoe.ac.in
Date: 30/06/2023

To,
Dr. A. M. Mulla
The Principal,
AGTI's DACOE, Karad

Subject: Request for Approval for AR/VR Lab Establishment to Improve Learning Experience in Laboratories

Dear Madam,

I am writing to request your approval for the establishment of an Augmented Reality (AR) and Virtual Reality (VR) Lab at our institution. The proposed lab will significantly enhance the quality of the learning experience in our laboratories, in accordance with NBA's Criteria 6.2 regarding the creation of additional facilities to improve educational outcomes.

The AR/VR Lab is an essential investment, amounting to Rs. 122,000 approximately. It will provide our students with a transformative learning environment that fosters interactive and immersive experiences. By incorporating AR and VR technologies into our curriculum, we will enable our students to gain practical skills, enhance their critical thinking abilities, and foster creativity.

I kindly request your support and approval for the establishment of the AR/VR Lab. I am available to provide any additional information or discuss this proposal further at your convenience.

Thank you for considering our request. I eagerly await your positive response.

Sincerely,

Prof. S. P. Kakade
Head, Dept. of CSE

Head of Computer Science & Engg. Deptt
Dr. Daulatrao Aher College of Engineering
Banawadi - Karad

It is required for NBA.
so permitted.
forwarded to Hon Secretary
for sanction

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

REGISTRATION FORM

One week STTP
ON
"Real-Time Product Development using AR, VR & IOT"

Name: Sarafaraj Jahangir Mulani

Designation A.P.

Institute: AGTI'S DACOE Karad.

Category: ~~[illegible]~~

Postal Address: Tijamatanagar near Airport Karad.

ISTE Membership No. LM 84249

Mobile No: 8421583965

Email Id. sjmulani.mech@dacoe.ac.in

Qualification: M.E. Mech Production.

Demand Draft Of Rs .....

Dd No: .....

Bank: .....

Place: .....

Date: .....

(Signature Of Participant)

Signature Of Authority With Seal

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad Banawadi Karad

Registration Fee

Faculty From academic Institutions	**: Rs. 1000/-**
PG Students	**: Rs. 700/-**
Delegates from Industries and R&D Organizations	**: Rs. 2000/-**

Registration

Participants can register by sending the registration form along with DD in favor of **"Principal, AGTI's Dr. Daulatrao Aher College of Engineering, Karad"** payable at Karad.

Registration form duly filled, shall reach the coordinator on or before **26th July 2023.** Submit your Registration Form along with scan copy of DD to **Email**: pmsheth.cse@dacoe.ac.in No TA/DA will be provided.

Important Dates

Last Date of Registration : 26th July 2023.
Date of Confirmation : 29th July 2023.
Workshop Dates: 31st July to 5th Aug. 2023.

Address for Correspondence

Coordinator
STTP on "Real-Time Product Development using AR, VR & IOT"
Dept.of Computer Science & Engineering
AGTI's Dr. Daulatrao Aher College of Engineering,
Vidyanagar Extn. Banawadi, 415124
Karad, Dist: Satara Maharashtra INDIA
Phone: (02164)272701/02
Fax: (02164) 272703

G. K. Gujar Memorial Charitable Trust's

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

(31st July 2023 to 5th August 2023)

Organized By

Computer Society of India & Department of Computer Science and Engineering
AGTI's Dr. Daulatrao Aher College of Engineering,
Vidyanagar Extn. Banawadi, 415124
Karad, Dist: Satara

About The Institute

Dr. Daulatrao Aher College of Engineering Karad is established in 2008 by Dr. Ashok G. Gujar, as a part of Shri G. K. Gujar Memorial Charitable Trust's activities at Karad. The Institute is approved by the All India Council for Technical Education (AICTE) New Delhi, Directorate of Technical Education (DTE) Mumbai, and Government of Maharashtra and is affiliated to Shivaji University Kolhapur.

The Institute offers engineering programs in Civil Engineering, Computer Science and Engineering (CSE), Electronics and Telecommunications, Mechanical Engineering leading to B.E. Degree as per Shivaji University Curriculum. The Institute has dedicated faculty members and staff and is well equipped with laboratories. The Institute has received an ISO 9001 – 2008 and ISO 10002 – 2014 Certification and NAAC accredited with A grade.

The main objective is to provide quality education to students of engineering. With this aim in mind the management, faculty and staff have commitments towards academic excellence and relevance. We at AGTI's DACOE, Karad believe in rational and visibility.

About STTP

STTP on "Real-Time Product Development using AR, VR & IOT" is being conducted at AGTI'S DACOE Karad for faculty, Students, and research scholars. The course provides an overview of AR, VR and IOT concepts, Product development insight Oculus, Environment Design and Modelling, Module Creation with SME and real time project development using AR, VR.

Patrons

Hon. Dr. Ashok G. Gujar
Chairman, G. K. Gujar Memorial Charitable Trust, Karad

Shri. Indrajeet A. Gujar
Vice Chairman, G.K. Gujar Memorial Charitable Trust, Karad

Dr. Madhuri I. Gujar
Secretary, G. K. Gujar Memorial Charitable Trust, Karad.

Convener

Dr. Anwar M. Mulla
Principal, AGTI's, DACOE Karad

Co-Convener

Prof. Hanmant M. Kumbhar
Vice Principal, AGTI's, DACOE Karad

Mentor

Dr. Madhav B. Kumthekar

Organizing Secretary

Prof. Shital P. Kakade
Head CSE, AGTI'S DACOE Karad

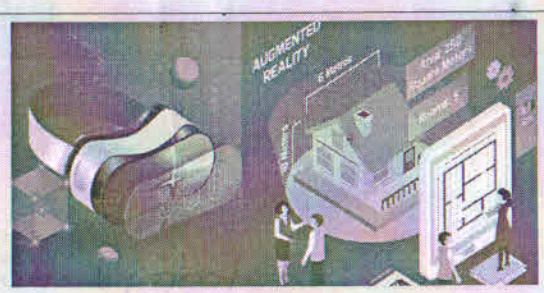
Program Coordinator

Dr. Pranali. M. Sheth
Email: pmsheth.cse@dacoe.ac.in
Mobile No: 7219715823

Prof. Jyoti P. Sarawade
Email: jpsarawade.cse@dacoe.ac.in
Mobile No: 94235 29888

Organizing Members

Prof. S. D. Bandari
Prof. A. N. Mandale
Prof. N. A. Thorat
Prof. A. S. Jadhav
Prof. A. H. Renushe
Prof. D.R. Kamble
Prof. A. R. Kadave
Prof. T. R. Shinde
Prof. A. D. Thorat



Course Objectives

- Make attendees aware of AR, VR and IOT Technologies
- Help attendees with hands on experience in development of real- time AR and VR
- Attendees will be equipped with the skills and Knowledge to venture further into exciting field of AR, VR & IOT

Course Contents

- Introduction to AR, VR and IOT
- Unity Installation
- Marker-based Augmented Reality
- Real-time AR and VR projects
- Project development in meta device

Resource Person

- Renowned Faculty from IT industries

REGISTRATION FORM

One week STTP
ON
"Real-Time Product Development using AR, VR & IOT"

Name: Ms. Deepali R. Tambla
Designation Assistant Professor
Institute: DACoE, Karad
Category: Product Development
Postal Address: DACoE, Karad

.....

ISTE Membership No. –
Mobile No: 7057828340
Email Id. drtambla.cse@dacoe.ac.in
Qualification: M.Tech [CSE]
Demand Draft of Rs –
Dd No: –
Bank: –
Place: Karad
Date: 02/08/2023

(Signature Of Participant)

Signature Of Authority With Seal

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi Karad

Registration Fee

Faculty From academic Institutions	**: Rs. 1000/-**
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Registration form duly filled, shall reach the coordinator on or before **4th Aug., 2023.** Submit your Registration Form along with scan copy of DD to **Email**: pmsheth.cse@dacoe.ac.in. No TA/DA will be provided.

Important Dates

Last Date of Registration : 4th Aug., 2023.
Date of Confirmation : 5th Aug., 2023.
Workshop Dates: 7th Aug. – 12th Aug.,2023.

Time

Morning Session: 10.00 – 1.00 PM
Afternoon Session: 2.00 – 5.00 PM

Address for Correspondence

Coordinator
STTP on "Real-Time Product Development using AR, VR & IOT"
Dept. Of Computer Science & Engineering
AGTI's Dr. Daulatrao Aher College of Engineering,
Vidyanagar Extn. Banawadi, 415124
Karad, Dist: Satara Maharashtra INDIA
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G. K. Gujar Memorial Charitable Trust's

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad

One Week STTP on

"Real-Time Product Development using AR, VR & IOT"

(7th August – 12th August 2023)

Organized By

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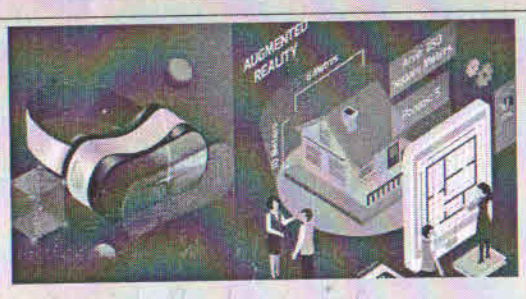

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- Renowned Faculty from IT industries

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Karad

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DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD
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Freedom Fighter
Late G. K. Gujar

Dr. Ashok G. Gujar	Shri Indrajit A. Gujar	Dr. Mrs. Madhuri I. Gujar
M.S.	B. Pharm.	M.B.B.S., DGO
FOUNDER PRESIDENT	VICE PRESIDENT	SECRETARY

Ref:DACOE/CSE/2023-24/STTP/ 02

Date: 12/08/2023

To,
Mr. Rahul Gupta
CEO, IOFT, Mumbai

Subject: Appreciation Letter.

Dear Sir,

I would like to extend my sincere gratitude towards you for your valuable guidance to our faculty members and students on the occasion of one-week STTP on **"Real-Time Product Development using AR, VR & IOT from 7th to 12th August 2023** at AGTI's Dr. Daulatrao Aher College of Engineering, Karad. It was certainly a pleasant moment for us to meet you. Thank you so much for guiding us on a very important and critical topic – AR, VR & IOT.

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Thank you!

Best regards,

Shivam.

Received.

Head
Department of CSE

Head of Computer Science & Engg. Dept.
Dr. Daulatrao Aher College of Engineering
Banawadi-Karad

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad
Banawadi
Karad

IOFT Institute of Futuristic Technologies

104 classic heritage building, Aarey Rd, Peru Baug,
Goregaon East, Mumbai: 400063
Phone no: 9372020254
Email: contact@ioft.info

Invoice

Receipt No: 232806-01

Date: 28/06/2023

	Item	Amount
1.	**Hardware Device** 1. **Oculus Quest (Meta Device)** 2. **5-VR HeadSet** 3. **1-IoT Kit (Microcontroller, Relay, Sensor, wire, Two pin, board, etc.)**	58,000.00
2.	**Environment Design and Modelling (Product development Insight Oculus)**	17,000.00
3.	**Module Creation with SME**	10,500.00
4.	**Testing and Revisions**	4,500.00
5.	**VR Development & Asset Creation**	17,000.00
6.	**AR Development and Implementation**	15,000.00
	Amount	**1,22,000/-**

Paid: 0.00/

Sub Total **1,22,000/-**

For, Institute of Futuristic Technologies

Authorized Signatory

Dr. Ashok Gujar Technical Institute's Dadapatil Mhetre College of Engineering, Karad
Banawadi Karad

Note:

1) You will get a fully immersive Experience.

2) College faculty Members will get Training (1 Day) about product

3) Department Student Will get Project Development Guidance for 2 Year

4) After lab setup company and college will Do MOU

5) PC Configuration: Minimum 8 GB Ram I7 10th generation 4 GB Graphics Card

6) LED Screen:1- 32-inch LED (Smart Recommended) or Projector required for lab setup

7) Payment Must be made in 50% Advance for starting the work.

Account Details:
Name: IOFT INSTITUTE OF FUTURISTIC TECHNOLOGIES
Bank Name: Bank of Baroda
Branch: Goregaon East
Account Number: 17580200003522
IFSC Code: BARB0GOREAS
PAN NO: BKZPG2097K

Augmented & Virtual Reality

Virtual Reality is a technology that creates almost realistic and convincing interactions in a synthetic or virtual environment. In contrast, **Augmented Reality** improves the real world by projecting computer-generated objects on top of it.

Dr. Ashok Gujar Technical Institute's
Banawadi
Karad
Engineering, Karad

Add: Goregaon East, Mumbai-400063, MH India. Ph.+91 93720 20254 Email: contact@ioft.info **www.ioft.info**

Augmented & Virtual

Reality

Virtual Reality is a technology that creates almost realistic and convincing interactions in a synthetic or virtual environment. In contrast, **Augmented Reality** improves the real world by projecting computer-generated objects on top of it.

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aherkar College of Engineering, Karad
Banawadi
Karad

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Updated (2)

AR VR Lab Quotation

INSTITUTE OF FUTURISTIC TECHNOLOGIES

NO	Item	Priority	Price
1	Environment Design and Modelling	1	17,000
2	Module Creation with SME	2	10,500

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Dr. Vidyatrao Aher College of Engineering Karad

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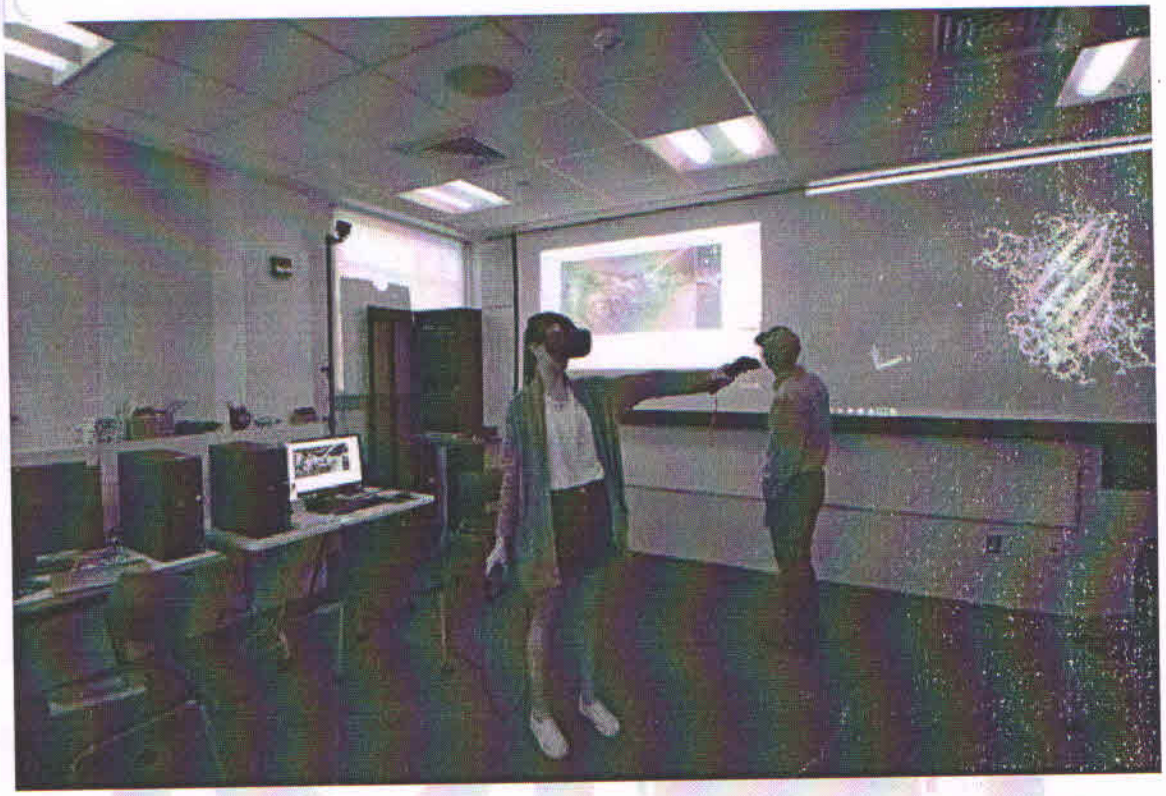
3	Testing and Revisions	3	4,500
4	VR Development & Asset Creation	4	17000
5	AR Development and Implementation	5	15000
6	Hardware Device (Oculus) + 5 VR Box	6	58000

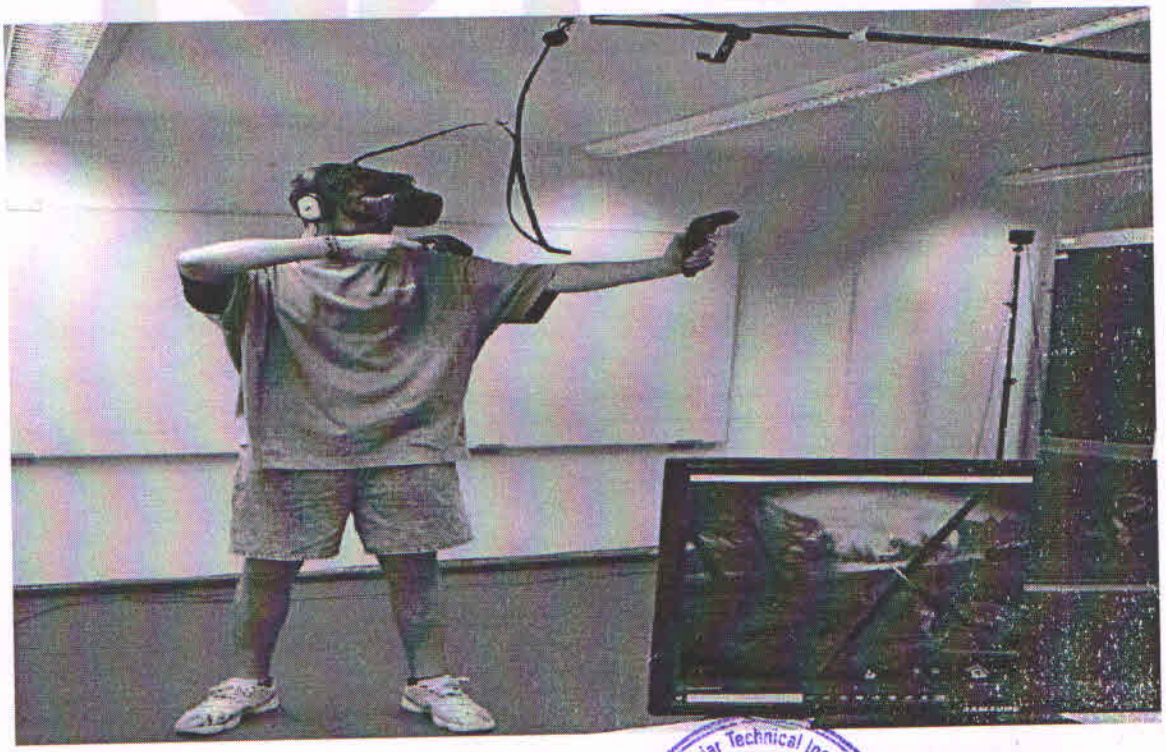
122,000

Note:

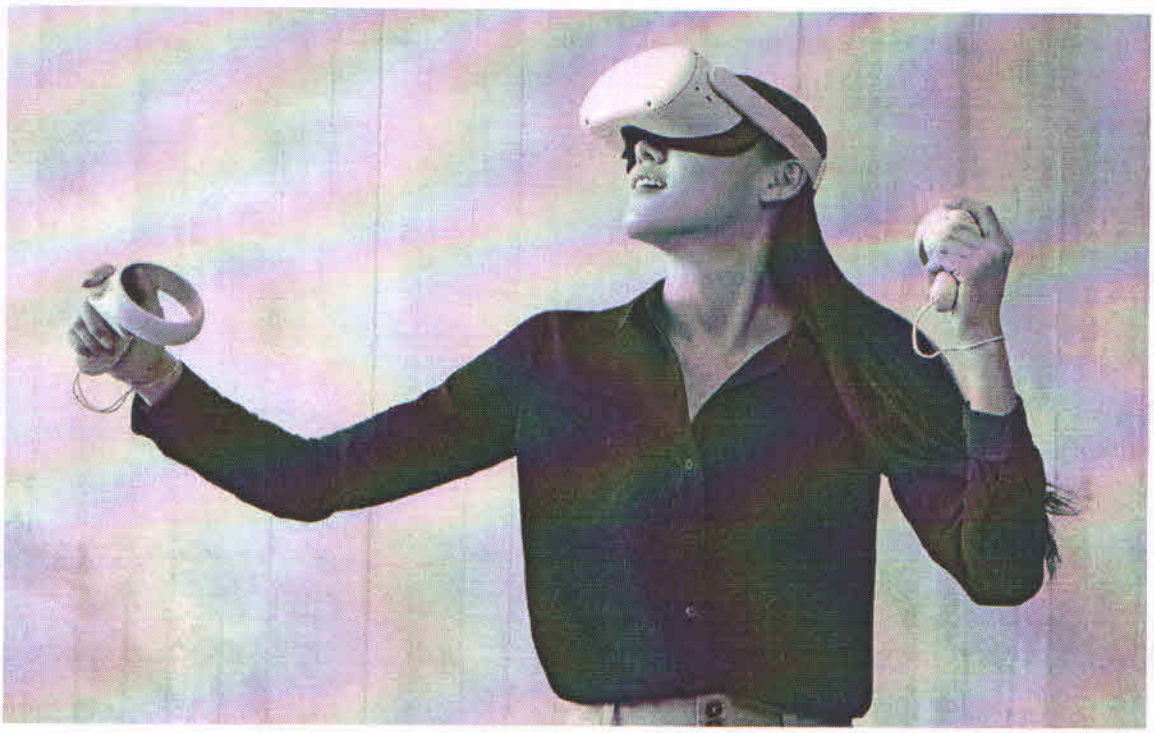
1) You will get a fully immersive (metaverse) Experience.
2) PC and Led Screen (Projector) college can order.
3) PC Configuration: Minimum 8 GB Ram (16 GB recommended) I7 10th generation 4 GB Graphics Card
4) LED Screen:1- 32-inch LED (Smart Recommended) or Projector
5) College faculty Members will get Training (1 Day)
6) Payment Must be made in 50% Advance.

Banawadi Karad





AR VR Lab Quotation



INSTITUTE OF FUTURISTIC TECHNOLOGIES

NO	Item	Priority	Price
1	Environment Design and Modelling	1	25,000
2	Module Creation with SME	2	14,500

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad

3	Testing and Revisions	3	9,500
4	VR Development & Asset Creation	4	26,000
5	AR Development and Implementation	5	17,000
6	Hardware Device Cost (Oculus)	5	60000

152,000

Note:

You will get a fully immersive (metaverse) Experience.

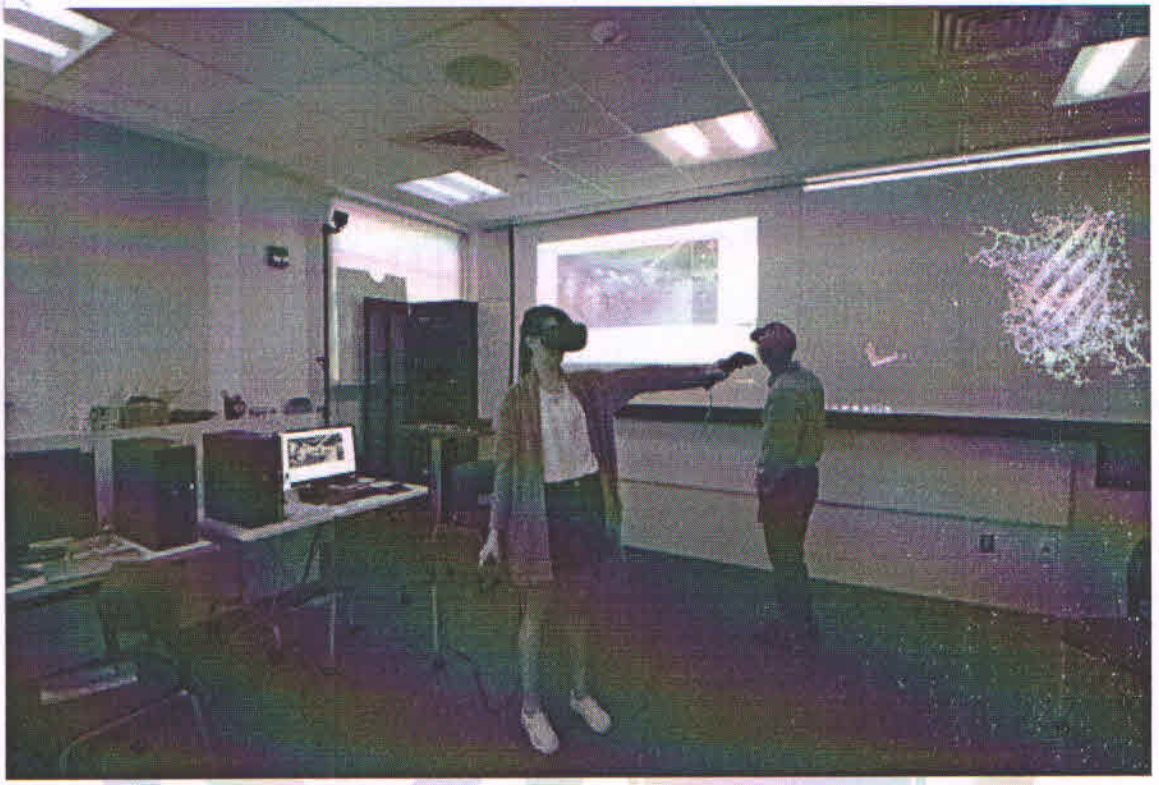
PC and Led Screen (Projector) college can order.

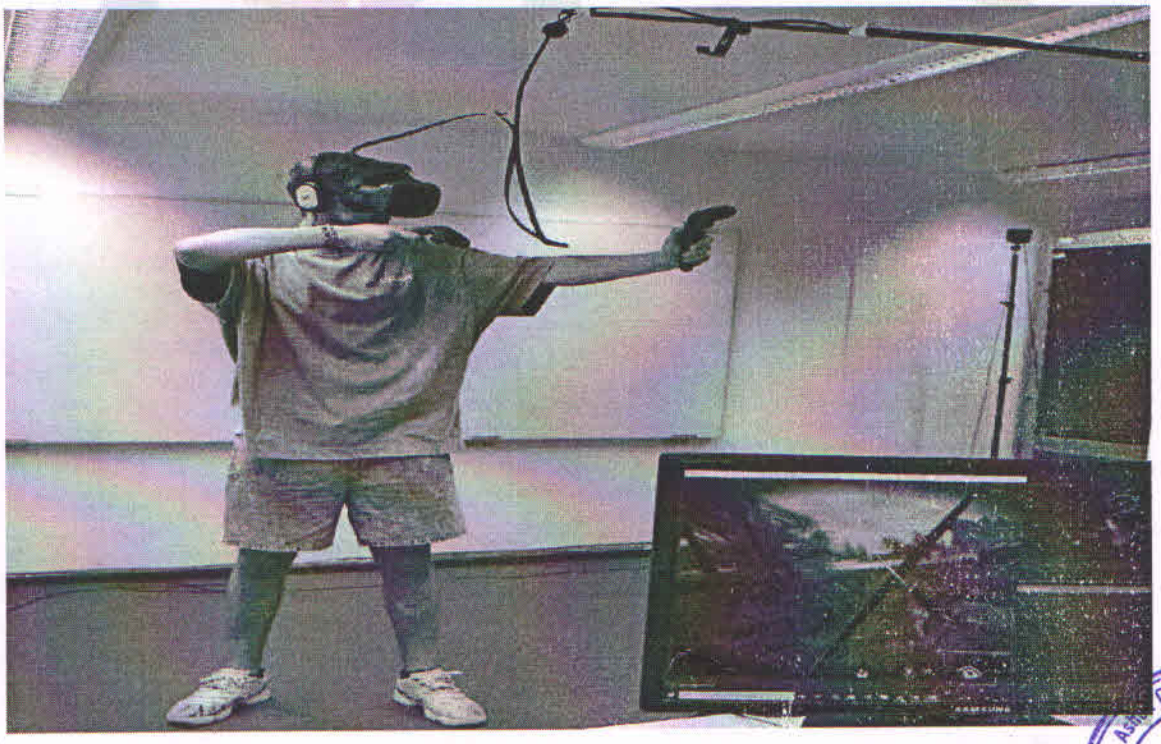
PC Configuration: Minimum 8 GB Ram (16 GB recommended) I7 10th generation 4 GB Graphics Card

LED Screen:1- 32-inch LED (Smart Recommended) or Projector

Payment Must be made in 50% Advance.

Dr. Ashok Gujar Technical Ins. Banawadi Karad Dr. Daulatrao Aher College of Engineering





Gujar Technical Institute's
Dr. D.Y. Dadarrao Aher College of Engineering, Karad
Banawadi
Karad

Criterion 6: Facilities and Technical Support (80)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
6.1.	Adequate and well equipped laboratories, and technical manpower	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)			Overall Marks for 6.1	
			B. Availability of adequate technical supporting staff (5)				
			C. Availability of qualified technical supporting staff (5)				
6.2.	Additional Facilities created for improving the quality of learning experience in Laboratories	25	A. Availability and relevance of additional facilities(10)			Overall Marks for 6.2	
			B. Facilities utilization and effectiveness (10)				
			C. Relevance to POs and PSOs (5)				
6.3.	Laboratories: Maintenance and overall ambience	10	Maintenance and overall ambience (10)			Overall Marks for 6.3	
6.4.	Project laboratory	5	Facilities & Utilization (5)			Overall Marks for 6.4	
6.5.	Safety measures in laboratories	10	Safety measures in laboratories (10)			Overall Marks for 6.5	
Total of Criterion 6:		80		Marks for Criterion 6:			

Signature (Program Evaluator 1)

Signature (Program Evaluator 2)

G.K. Gujar Memorial Charitable Trust's
Dr. Ashok Gujar Technical Institute's,
Dr. Daulatrao Aher College of Engineering, Karad.
Vidyanagar Ext. Banawadi, Tal. Karad 415124, Dist. Satara, Maharashtra INDIA

Department of Computer Science & Engineering

One Page Report

One Week Online FDP on **"AI Digital Content Creation" (11th Dec 2023 to 16th Dec 2023)**
(Under Lead College Scheme of Shivaji University Kolhapur)

Event : One Week Online FDP on **"AI Digital Content Creation".**

Resource Person: 1. Dr. Tanmay S. Dikshit, Cyber Sanskar Nashik.
2. Prof. Prachi Pisolkar, HOD, Journalism & Mass Comunication, KTHM College Nashik.

The Department of Computer Science and Engineering of DACOE Karad has organized a one-week online FDP on **"AI Digital Content Creation" (December 11–December 16) under the Lead College Scheme of Shivaji University Kolhapur** for faculty of various disciplines like engineering, arts, management, BCA, etc. The online inauguration ceremony of this course was blessed with the principal, vice principal, faculties of various colleges, and the resource person for this workshop, **Dr. Tanmay S. Dikshit, Cyber Sanskar Nashik.**

Content Creation aimed to equip educators with insights and practical skills in leveraging artificial intelligence for crafting compelling digital content. With the great efforts of the head of the CSE department, **Prof. Kakade S.P.,** coordinator, Mr. Thorat N.A., and committee members, the course was successfully conducted. A total of **89** faculties are registered from various colleges throughout the state.

- **Day 1**: Focused on Chat GPT Content Generation.
- **Day 2:** Plagiarism checker AI detection
- **Day 3:** eBook generation for Amazon Kindle
- **Day 4:** Video Content Development for Cyber Sanskar
- **Day 5:** Creating Unlimited Money-Earning Strategies
- **Day 6:** Career opportunities in AI with other professions

one-week online FDP on **"AI Digital Content Creation" (December 11–December 16) under the Lead College Scheme of Shivaji University Kolhapur** fulfills its prime objectives to bring the facilties to be familiar with the overview of ChatGPT generations, plagiarism checking, ebook generation, video content development, and various money generation strategies with AI tools.

Prepared By : **Name: Mr. Thorat N.A**	**Approved By:** **HOD CSE :**

Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering
CSE Dept.