

GOVERNMENT ENGINEERING COLLEGE, MODASA

Newsletter

January – June 2021

Vol. 1 – Issue 1



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<http://www.gecmodasa.ac.in>

GECEM E-NEWS

FROM THE PRINCIPAL'S DESK



Dear Students & Faculty members,

Warm greetings to all.

It gives me an immense pleasure to start the Newsletter of the institute **GECM E-NEWS**. This newsletter will in real sense imbibe the reflections of all students and faculties of the institute. This is the first attempt and prepared in the corona pandemic conditions, where in majority of the students attend the classes in online mode, many students may not have participated. But once it becomes a regular activity, I am sure that it will cover the reflection of all in a true sense.

This corona pandemic has made many changes to live with the system. The pace towards digital transformation

increases many times because of this pandemic condition. Thanks to the digital revolution that in spite of tough days due to corona, the teaching learning process is not much affected. This can be seen that since last more than a year, the college is not running on the campus even though many activities conducted in a virtual mode. This newsletter covers news of all activities conducted during the period of January to June 2021.

The editorial team has shown an excellent example of creativity. They put an immense effort to get all information from different sources and designed this newsletter in-house. For that team e-Newsletter really deserves many congratulation. I wish all success to this new endeavor for future.

Principal

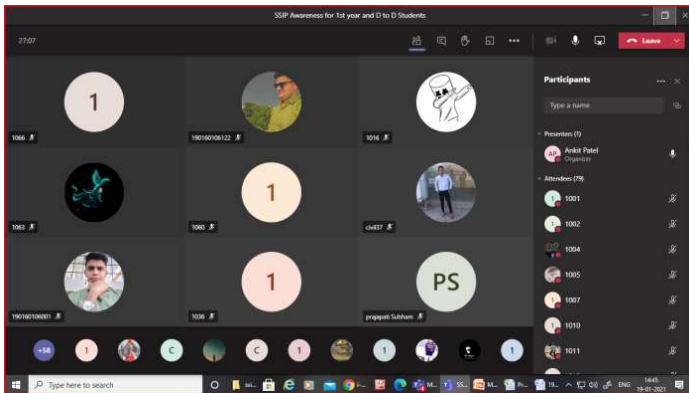
Dr. B. J. Shah

COLLEGE SAGA

SSIP CELL

Total 33 Programmes (Workshop/Seminar) were organized under SSIP. The details of 6 programmes organized in year 2021 is as under:

Civil Engineering Department organized online event on 19-01-2021 that was coordinated by Prof. Ankit Patel, and was attended by 80 participants.



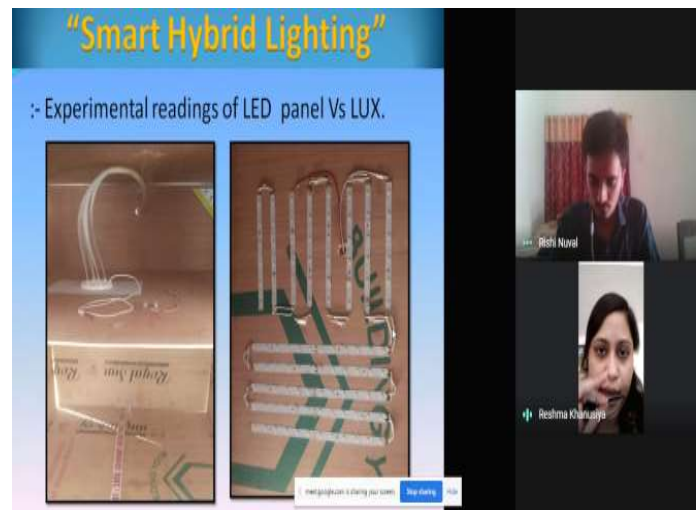
Computer Engineering Department organized offline-on-campus event on 22-02-2021 that was coordinated by Dr. Safvan Vahora and Prof. Anil Prajapati, and was attended by 120 participants.



E.C. Engineering Department organized online event on 31-01-2021 that was coordinated by Prof. Nirav Patel, and was attended by 32 participants.



Electrical Engineering Department organized online event on 19-01-2021 that was coordinated by Prof. H. S. Pandya, and was attended by 37 participants. Involved demonstration of working SSIP projects by senior students.



Information and Technology Engineering Department organized offline-on-campus event on 22-02-2021 that was coordinated by Prof. Anil Prajapati and Dr. Safvan Vahora, and was attended by 116 participants.

COLLEGE SAGA



Mechanical and Automobile Department organized offline-on-campus event on 06-02-2021 that was coordinated by Prof. P.M. Mistry and Prof. K.V. Vaghela Speaker: Mr. Nishad Joshi, and was attended by 160 participants.

SSIP **ii** DESIGN INNOVATION CENTRE

Government Engineering College, Modasa
Student Startup and Innovation Cell, GECM
Design Innovation Centre (Spoke – GECM)

Cordially invites you for the
Webinar on
"Awareness of Student Startup and Innovation Policy (SSIP) and Design Innovation Centre (DIC) at GECM"
On 6th February 2021 @ 11:15 AM on Microsoft Team
For B.E. First Year Regular and B.E. Second Year D to D students of Mechanical and Automobile Engineering, GECM

Invited Guest:


Mr. Nishad Joshi (Er.)
(Alumnus of GEC Modasa)
Dosepack India LLP. (Mediab Software Inc.)
Expert In: Mechanical Design, Robotics R&D, 3D Printing, Production Management

Organized By:
Department of Mechanical and Automobile Engineering
Government Engineering College, Modasa

Patron	DIC Spoke Coordinator	Institute SSIP Coordinator	Dept. SSIP Coordinator (Mech.)	Dept. SSIP Coordinator (Auto.)
Dr. R. J. Shah Principal GEC-Modasa	Dr. U. V. Shah Prof. and Head Mech./Auto. Dept. GEC-Modasa	Dr. S. S. Singh Professor Civil Dept. GEC-Modasa	Prof. P. M. Mistry Asst. Professor Mech. Dept. GEC-Modasa	Prof. K. V. Vaghela Asst. Professor Auto. Dept. GEC-Modasa

SSIP, GEC Modasa has organized webinar on **"OPEN INNOVATION THROUGH MIND TO MARKET"** on 10/06/2021.

Details of SSIP- POC approved projects in 2021 are as follows.

1. Civil Engineering Department : 4
2. Mechanical Engineering Department : 1
3. Computer and IT Department : 13
4. Electronics and Communication : 1
5. Electrical Engineering Department : 6
6. Automobile Engineering Department : 4

RUSA CELL

AutoCAD training program at Indo German Tool Room (IGTR) has been organized from 25/02/2021 to 10/03/2021 (14 days). The objective of this course is to teach users the basic commands and tools necessary for professional 2D drawing, design and drafting using AutoCAD / AutoCAD LT.



PLC Programming training at Indo German Tool Room (IGTR) has been organized from 26/02/2021 to 11/03/2021 (14 days). PLC Training is designed to instruct electrical control professionals on how to successfully integrate a PLC into actual day-to-day industrial electrical processes.

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It not only deals with the hardware and software, but all the surrounding systems that must be compatible to achieve a safe and reliable control system.

CREO training at Indo German Tool Room (IGTR) has been organized from 01/03/2021 to 13/03/2021 (13 days). This course aims to help product designers and engineers in developing a product design virtually. Creo is equipped with all the capabilities that are required for completing a product design. This course in Creo will help in sketching, modeling, validation of design, and visualize the product design.



SolidWorks training at Indo German Tool Room (IGTR) has been organized from 22/03/2021 to 06/04/2021. (16 days). The course aims to give students and professionals the essentials that is needed to become a certified SOLIDWORKS associate. The course will help individuals

use the software with confidence and design/draft the next innovative thing.



CATIA training at Indo German Tool Room (IGTR) has been organized from 22/03/2021 to 06/04/2021 (16 days). This course is structured in a pedagogical sequence to cover the topics of part design, assembly, drafting, wireframe & surface, and Generative Sheetmetal Design workbenches of CATIA V5. It is used in automotive and aerospace industry for product and tool designing.



MasterCAM training at Indo German Tool Room (IGTR) has been organized from 22/03/2021 to 06/04/2021 (16 days). Mastercam, CNC Software's main product, started as a 2D CAM system with CAD tools that let machinists design virtual parts on a computer screen and also guided computer numerical controlled (CNC) machine tools in the manufacture of parts.

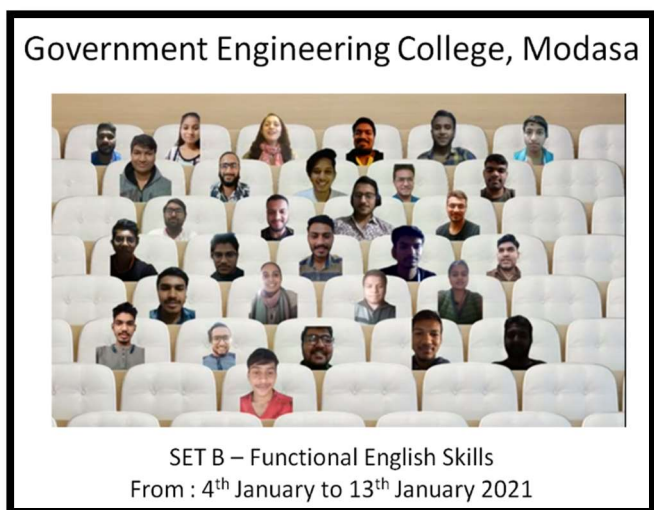
COLLEGE SAGA



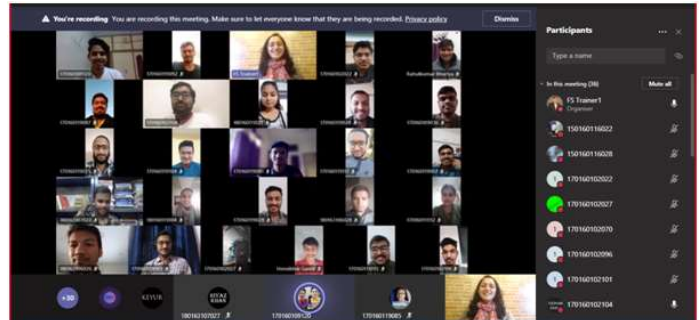
ANSYS training at Indo German Tool Room (IGTR) has been organized from 22/03/2021 to 06/04/2021 (16 days). Ansys Mechanical finite element analysis software is used to simulate computer models of structures, electronics, or machine components for analyzing strength, toughness, elasticity, temperature distribution, electromagnetism, fluid flow, and other attributes.

Finishing School

Functional English Skill - 1 organized from 04/01/2021 to 13/01/2021 (10 days) to improve the English skill of the Final Year Students for better employment opportunities.



Functional English Skill - 2 organized from 30/03/2021 to 03/04/2021 (05 days) to improve the English skill of the Final Year Students for better employment opportunities.



Gymkhana

“Azadi ka Amrit Mahotsav” : This celebration would commence 75 weeks prior to Independence Day 2022 and will extend up to Independence Day 2023. As part of this celebration Government Engineering College, Modasa had organised webinar on “આઝાદી- હક્કથી ફરજ સુધી”. This webinar was organised on 20/03/2021. This webinar is for all the students and faculty members of our institute. Shri (Er.) Jignesh Adyaru was invited as expert to share his thought. Shri Jignesh Ahyaru is a civil engineer by profession and also Editor & Writer for Gujarati literature.



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This webinar was conducted through Microsoft team and more than 100 students have participated in this session.

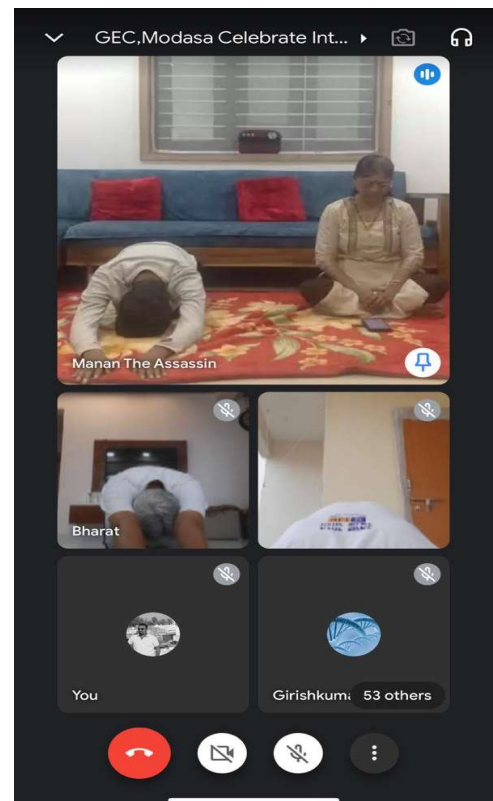
Tree Plantation: Tree plantation was organized on 24/06/2021 at the campus of GEC , Modasa. Plantation was done by Hon'ble Minister, Shri Ramanlal Patkar, Hon'ble member of parliament Shri Dipsinh Rathod & District BJP president Shri Rajendra Patel and principal & Faculties of GEC modasa.



Vaccination Camp at GEC Modasa: Vaccination camp for all staff of GEC Modasa for 1st Dose was organized on 30.03.2021 Tuesday, and for 2nd Dose on 07/05/2021 Friday. Around 100 staff members have taken the vaccination.



World Yoga Day-2021: Government Engineering College, Modasa has celebrated World Yoga Day-2021 through an online medium (google meet) on Monday 21/09/2021 from 9.00 am to 9.30 am. In this program, yoga training was given by yoga expert Smt. Diptiben Upadhyay.



GKS Activities

IIT Bombay Spoken Tutorial Program: IIT Bombay Spoken Tutorial program is an initiative by National Mission on Education through ICT (NMEICT), Ministry of Education, Govt. of India to provide a platform to learners for this training. Government Engineering College, Modasa and IIT Bombay – Spoken Tutorial program have collaborated by signing a MOU where the course is offered for Rs 25000 per year to the college and the funds for the same are granted by Directorate of Technical Education through Gujarat through Knowledge Consortium of Gujarat.

Total of 596 students from various branches of Government Engineering College, Modasa have registered for five courses namely Python, Java Programming, Open foam, Arduino and PHP & MySQL and are undergoing training.

TCSiON : NQT (National Qualifier Test) is a PAN India assessment conducted by TCSiON to gauge employability skills and industry relevance for job seekers. For this TCSiON provides Career Readiness Package of Rs 1000 for the students.

Webinar series conducted by TCSiON on 18/05/2021 and 18/06/2021 where in about 750 students of final and pre-final year participated in Industry Honour Certification (IHC).

Digitalization of Library

Library of the Institute is rejuvenated by shifting it on the ground floor of the LRC Building with nice ambience Reading room of 100 capacity and appropriate space for Digital library. Library Management Software SOUL 3.0

is implemented. Good numbers of e-resources are accessed through Institute web server.

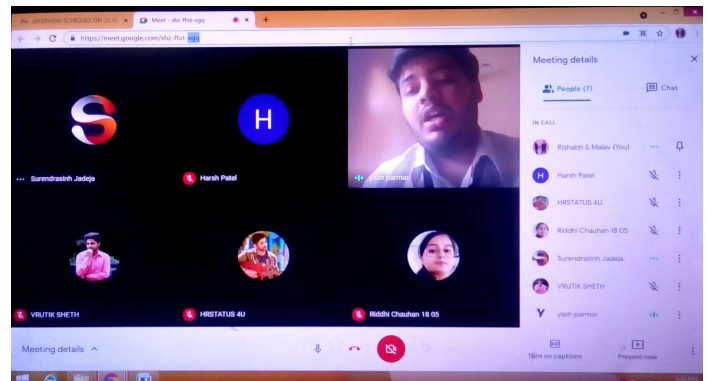
Availability of digital library content:

- Knimbus digital library
- National digital library
- Web of Science
- Number of courses: 195
- Number of e-books: 5362 (Engg & tech.)
- No of e-journals: 4430



Mega Placement Camp 2021

In the Covid pandemic conditions, GEC, Modasa hosted mega placement camp 2021 and have conducted online placement interviews of at 26 industries. More than 100 students got placement through placement camp 2021.



A Mock Exercise on Earthquake

A mock exercise on earthquake, under the supervision of the National Disaster Management Authority (NDMA) Government of India was organized on 24th March, 2021. The purpose of this exercise was to measure and validate performance of following components and their associated critical tasks:

- Incident Response System (IRS)
- Public and institutional awareness & preparedness
- Response Plans (of DDMPs/SDMP/ Departmental DMPs) at respective level.
- Knowledge about Engineered Safety Features (ESF)s and institutionalization thereof in the Departments/Districts.
- Identify the gaps in the existing Resources, Manpower, and Communications etc.
- Functioning of Emergency Operations Center (EOC).



મોડાસા સરકારી ઈજનેર કોલેજમાં ભૂકંપ સંદર્ભે મોકડીલ

મોડાસા, તા. ૨૫

ભૂકંપ સંદર્ભે એનડીઆરએફ ટીમ દ્વારા અરવલ્લી જિલ્લાની સરકારી ઈજનેર કોલેજ મોડાસા ખાતે જિલ્લા કલેક્ટર અમૃતેશ ઓરંગાબાદકર અને જિલ્લા વિકાસ અધિકારી અનિલ ધામેલીયાની ઉપસ્થિતિમાં મોકડીલ નું રીહર્સલ યોજાયું હતું.

એનડીઆરએફની ટીમ દ્વારા ફસાયેલા લોકોને બહાર કાઢવાની કામગીરી કરવામાં આવી

એનડીઆરએફની ટીમ દ્વારા રીહર્સલમાં અનેક પ્રકારની પ્રવૃત્તિઓ કરીને લોકોનો કંઈ રીતે બચાવ કરવો, ડાંગ સ્કોડ દ્વારા પછા દટાયેલા લોકોને નીકળવાની કામગીરી હાથ ધરતાં હોય છે. ઉંચાઈ પર ફસાયેલા લોકોને ત્યાંથી બહાર નીકળવાની કામગીરી, દિવાલો તોડીને લોકોની બહાર કાઢવાની કામગીરી, કોઈ ઈમારતો પડી જવાથી અંદર દટાયેલ લોકોને બહાર લાવીને ઝડપથી આરોગ્ય વિભાગે

હોસ્પિટલ પહોંચાડવાની કામગીરી હાથ ધરવામાં આવે છે.

આ રીહર્સલમાં એનડીઆરએફ ટીમના અધિકારીઓ ઉપસ્થિત રહ્યા હતા. જિલ્લા કલેક્ટરે એનડીઆરએફ ની ટીમની કામગીરીને બિરદાવતાં જણાવ્યું હતું કે ભૂકંપ આવવાથી લોકોને જીવ બચાવવા માટે પોતાના જીવના જોખમે લોકોનો આભાદ બચાવ કરે છે.

Oxygen Audit

The team of 12 faculty members of GEC, Modasa has performed district level oxygen audit duty at dedicated covid hospitals of arvali district during April-June 2021 under the coordination of the Dr. S A Vahora.



DEPARTMENT SPOTLIGHT

Applied Mechanics & Civil Engineering Department

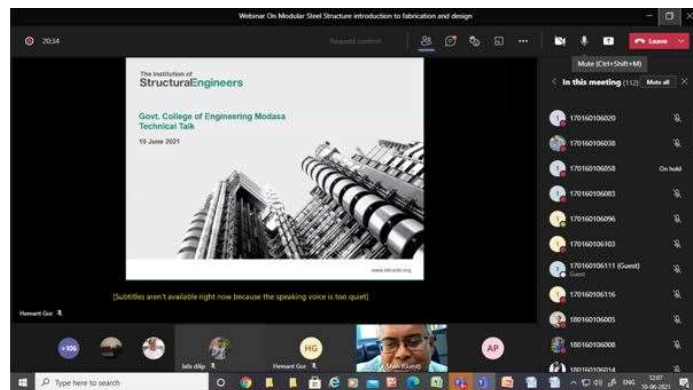
Applied Mechanics Department of Government Engineering College, Modasa had organized **GTU-DIC Sponsored 5 days online STTP** on Use of Professional Software in Structural Engineering. This online STTP organized from 03/05/2021 to 07/05/2021 had total 174 registrations from faculties and students of different engineering colleges from the state. The main attraction was to learn a new software during the most challenging period.



The Department of Civil Engineering, Government Engineering College, Modasa has organized **online project fair-2021** on 21/05/2021. The Project Presentation was organized for final year students only. 3 best projects amongst 10 shortlisted projects were awarded by expert pannel in this project fair.

Applied Mechanics Department of Government Engineering College, Modasa has organised **webinar on “Modular Steel Structure –Introduction to Fabrication and Design”**. This online Webinar organised on 10/06/2021 in association with The Institution of Engineers (India), Gujarat State Center & IEI and ISTE Students Chapter Modasa. Total 126 students were present in this webinar. The main attraction was to learn

about a new technique in modular construction and its structural details. This was delivered by an eminent expert Mr. Hemant Gor , Subject Matter Expert (SME), Petrofac International.



Electrical Engineering Department

The Electrical Engineering Department has conducted the following **expert sessions** by online webinar form:

“Prepare yourself Future Ready” on 16/04/2021, by Shri Hiren U. Thaker, Counselor and Founder, Ayana Academy, wherein 67 attendees of final year have participated.



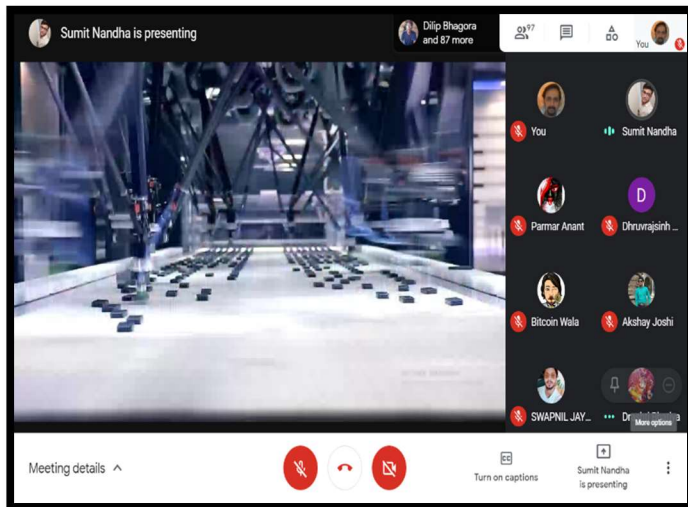
A virtual visit, demonstration and awareness program on **“Energy Conservation in day to day life”** in collaboration with GEDA, on 16/04/2021, during the same, Dr.Anil K. Patel, Managing Trustee Nisarg Community Science Center, Shri Naresh Thakor, GPCB, Prof. Girish Vekaria,PT science college delivered demonstration and

DEPARTMENT SPOTLIGHT

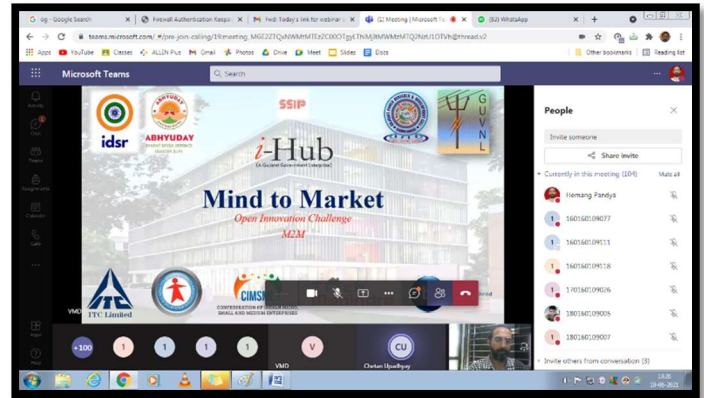
talk, wherein 138 online, 26 offline attendees have participated.



“Introduction to PLC-SCADA” on 29/04/2021, by Shri Sumit Nandha Expert trainer, Prolific Ltd., wherein 115 attendees.



“Open Innovation Through Mind To Market” on 10/06/2021, by Prof. Vihang Dholakiya, Dr.(Prof.) C. D. Upadhyay, OSD, i-Hub, , SSIP-Gujarat, wherein 107 attendees.



“Energy Conservation Awareness Program” on 15/06/2021, by Shri Chirag V. Chauhan, freelance energy auditor and founder, Elnec corp., wherein 135 attendees.



Electronics & Communication Department

The Electronics and Communication Department has conducted the following events and expert sessions through online platform:

FIVE Days Project Symposium & Expert Talk On “STM32 microcontroller on STM CUBE” for Final and Pre-Final year students of B.Tech. was organized by EC department from 24/5/2021 to 28/5/21.

Expert lecture on **“Model Based Programming On STM32F4”** by Prof. Bhavik Brahmbhatt at FIVE Days Project Symposium & Expert Talk On “STM32

DEPARTMENT SPOTLIGHT

microcontroller on STM CUBE for Final and Pre-Final year students.

Expert lecture on **“Fundamental of Embedded system & Embedded C”** by Prof. Sameer Mansuri at FIVE Days Project Symposium & Expert Talk On “STM32 microcontroller on STM CUBE for Final and Pre-Final year students.

Expert lecture on **“Hands on Micro-Python Programming”** by Prof. Priyank Patel at FIVE Days Project Symposium & Expert Talk On “STM32 microcontroller on STM CUBE for Final and Pre-Final year students.

Online expert lecture on **“Control system engineering and its types”** was conducted by Dr. Haresh A. Suthar, Asst. prof. , Parul University on 03/07/2021.

Computer Engineering & Information Technology Department

The Computer Engineering & Information Technology Department, has organized online **technical event Technothon-2021** on 30/04/2021. It was aimed to showcase the technical skills of all UG/PG students of Computer Engineering/Information Technology. Poster Presentation, Poster Presentation and Technical Quiz were organized. The entire event was conducted online thorough Microsoft Teams platform. Project Presentation was organized for final year students only. The top 10 projects from CE and 10 projects from IT were shortlisted based on the final review held on 21/04/2021. The majority of projects are from areas like the Internet of Things (IoT), Machine Learning, Artificial Intelligence, Game Development, and Cloud computing.

GOVERNMENT ENGINEERING COLLEGE, MODASA

DEPARTMENT OF
COMPUTER ENGINEERING AND
INFORMATION TECHNOLOGY

TECHNOTHON 2021

30TH APRIL, 2021

VIRTUAL EVENTS

1. PROJECT PRESENTATION
2. POSTER PRESENTATION
3. TECHNICAL QUIZ

REGISTRATION LINK

<https://tinyurl.com/u3ybyeu>

DIGITAL CERTIFICATE **BEST PRIZES FOR WINNERS**

LAST DATE OF REGISTRATION: 24-04-2021

www.gecmodasa.ac.in

Mechanical & Automobile Engineering Department

Awareness Program On “Road Safety and First Aid (108): Department of Mechanical and Automobile Engineering organized an seminar for the awareness on Road safety and First aid(108) on 17.02.2021 (Wednesday) under Design Innovation Center(DIC),Modasa,in collaboration with Regional Transport Office Modasa and 108 Emergency Department Modasa. Seminar started at 11:30 a.m. and total 34 students from both departments have participated considering the Covid-19 Guidelines provided by Gujarat Govt. Dr. U.V. Shah, Prof. & Head of the Department, Prof. P.M. Mistri (Asst. Prof. Mechanical Engg. Dept.) and Prof. K.V. Vaghela (Asst. Prof. Automobile Engg. Dept.) coordinated Sub inspector , RTO and his team and Project coordinator,108 Emergency dept and his team to make success of this seminar.

DEPARTMENT SPOTLIGHT



"Don't take rest after your first victory because if you fail in second, more lips are waiting to say that your first victory was just luck."

Dr. APJ Abdul Kalam

"The business of both parent and teacher is to enable and to help the child to educate himself, to develop his own intellectual, moral, aesthetic and practical capacities and to grow freely as an organic being, not to be kneaded and pressured into form like an inert plastic material"

Sri Aurobindo

"Every living being is an engine geared to the wheelwork of the universe. Though seemingly affected only by its immediate surrounding, the sphere of external influence extends to infinite distance."

Nikola Tesla

RESEARCH AND PUBLICATIONS

Applied Mechanics & Civil Engineering Department

Dr.B.R.Shah has published a research paper on “Mechanistic aspects of photocatalytic degradation of Lindane by TiO₂ in the presence of Oxalic acid and EDTA as hole-scavengers” in Journal of Environmental Chemical Engineering-Elsevier

Dr.S.S.Singh has published a research paper on “Assessment of ground water at various places of surat district using multivariate statistical techniques” in international research journal of engineering and technology.

Dr.S.S.Singh has published a research paper on “regional ground water modeling -A review ” in international research journal of engineering and technology.

Dr.N.G.Raval has published a research paper on “Effect of Highway Geometric Elements on Accident Rate on Two-lane State Highways of Gujarat” in International Research Journal of Engineering and Technology

Electronics & Communication Department

Prof. N J Bathani has published a research paper on “Analysis Of Conformal Quad Band Metamaterial Absorber Design On Planar And Cylindrical Surface” in Progress in Electromagnetics Research Journal ISSN NO: 937-8726, volume 103, page no. 37-47

Prof. Bhavik A. Brahmbhatt has published a research paper on ‘Tuning and experimental assessment of second order generalized integrator - frequency locked loop grid synchronization for single phase grid assisted

system’ in IOP - Material science and Engineering, ISSN No. 1757-899X, volume 1045, issue 1

Prof. Bhavik A. Brahmbhatt has published a research paper on ‘Experimental assessment of single phase grid assisted system using SOGI - FLL’ Indian journal of science and technology, ISSN No. 0974-6846, volume 14, issue 5, page no. 445-456

Prof. Nirav D. Patel has presented a research paper on ‘Investigation of Up-Link Spectral Efficiency of Massive MIMO System in Different Fading Scenario’ at “Smart Modernistic in Electronics and Communication” (ICSMEC-2021) online mega international conference.

Computer Engineering & Information Technology Department

Prof. J M Shroff has published a research paper on “Machine-Learning Techniques for Detecting Attacks in SDN: A Survey” to Journal of Applied Science and Computations ISSN NO: 0022-1945, volume VIII, Issue VI, pageno. 63-71 Jun 20, 2021

Mechanical & Automobile Engineering Department

Prof.Kunal V. Fadadu has published a book on “Professional Ethics” in Atul Prakashan with ISBN/ISSN No. 978-93-85138-43-0.

Prof.Kunal V. Fadadu has published a book on “Special Purpose Vehicle” in Atul Prakashan with ISBN/ISSN No. 978-93-85138-36-2.

Prof.Kunal V. Fadadu has published a book on “Alternative Fuel And Power Systems” in Atul Prakashan with ISBN/ISSN No. 978-93-85138-33-1.

RESEARCH AND PUBLICATIONS

Prof.Kunal V. Fadadu has published a book on “Automotive Electrical Systems” in Atul Prakashan with ISBN/ISSN No. 978-93-85138-45-4.

Prof.Kunal V. Fadadu has published a book on “Vehicle Maintenance And Garage Practice” in Atul Prakashan with ISBN/ISSN No. 978-93-85138-45-7.

Sciences and Humanities Department

Prof. D. H. Sahay has presented and published a research paper on “Various Properties of DVT grown MoSe₂ Crystals” in International Journal of All Research Education and Scientific Methods (IJARESM),

Prof. R. P. Khatri has published a research paper on “Investigation of the effect of zinc precursors onto structural, optical and electrical properties of CBD deposited ZnS thin films” in NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS

Now software can write software. The software written by AI is very different from that written by a human. It is vastly more parallel, and thousands-to-millions-of-times more compute-intensive.

**Jensen Huang, C-founder and
CEO, Nvidia**

“Aeroplanes are not designed by science, but by art in spite of some pretence and humbug to the contrary. I do not mean to suggest that engineering can do without science, on the contrary, it stands on scientific foundations, but there is a big gap between scientific research and the engineering product which has to be bridged by the art of the engineer.”

**British Engineer to the Royal
Aeronautical Society, 1922.**

The highest education is that which does not merely give us information, but makes our life in harmony with all existence”

Rabindranath Tagore

PARTICIPATIONS AND ACHIVEMENTS

PARTICIPATIONS

Applied Mechanics & Civil Engineering Department

Prof. M A. Fareediwala attended online STTP on "Use of Professional Software in Structural Engineering". during 3/5/2021 to 7/5/2021 hosted by GEC Modasa.

Electrical Engineering Department

Prof. N.B.Panchal attended FDP on "Tools and trends in online education system", during 15/03/2021 to 19/03/2021 by DTE in online mode.

Dr. H.S.Pandya attended FDP on "Inculcating Universal Human Values in Technical Education", during 22/03/2021 to 26/03/2021 by AICTE in online mode.

Electronics & Communication Department

Prof. Bhavik A. Brahmbhatt attended FDP on 'System Design Methodologies for embedded system ,IOT,AI & HPC using Intel FPGA' during 19/4/2021 to 30/4/2021 hosted Online by Indian Institute of Guwahati.

Prof. Nirav D. Patel attended FDP on 'Nurturing Innovation and Startup Ecosystem' during 21/6/2021 to 27/6/2021 hosted Online by IIT Bombay

Prof. Sameer H. Mansuri attended on 'VLSI Design, Verification and testing' during 7/6/2021 to 11/6/2021 hostel online under ATAL Online FDP

Prof. Shilpa Rana attended training on 'Universal Human Values in Education' during 22/3/2021 to 26/03/2021 hostel online under ATAL Online FDP

Computer Engineering & Information Technology Department

Prof. S A Vahora Participated in One week GUJCOST Sponsored Online FDP on Tools and Trends in Online Education System organized by Government Polytechnic, Palanpur during 15/03/2021 to 19/03/2021.

Prof. N N Maltare Participated in One week GUJCOST Sponsored Online FDP on Tools and Trends in Online Education System organized by Government Polytechnic, Palanpur during 15/03/2021 to 19/03/2021.

Prof. Manisha Valera Participated in One week FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE 22/03/2021 to 26/03/2021.

Prof. Rahul Vaza Participated in One week FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE 22/03/2021 to 26/03/2021.

Prof. Amit Parmar Participated in One week FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE 22/03/2021 to 26/03/2021.

Mechanical & Automobile Engineering Department

Prof. Mistri Piyushkumar Manubhai attended training on 'Effective Engineering Teaching in practice' during 18/2/2021 to 12/03/2021 online under NPTEL - IIT Madras.

Prof. Gamit Jigar Chhanabhai attended training on 'Effective Engineering Teaching in Practice' during 18/2/2021 to 12/03/2021 online under NPTEL - IIT Madras.

Prof. Gamit Jigar Chhanabhai attended training on 'Two Phase Flow and Heat Transfer' during 18/1/2021 to 12/02/2021 online under NPTEL - IIT Roorkee.

PARTICIPATIONS AND ACHIEVEMENTS

Prof. Kalpesh V Vaghela attended training on 'Applied Computational Fluid Dynamics for Automotive, Space and Defence Sector' During 01/3/2021 to 05/03/2021 online under ADIT, V V Nagar.

Prof. Kalpesh V Vaghela attended training on 'Muffler Acoustics for Automotive Engine Noise Control' During 01/3/2021 to 05/03/2021 online under IIT, Kanpur.

Sciences and Humanities Department

Prof. D.H. Sahay attended the "International Conference on Emerging Trends in Materials Science-2021 (ETMS-2021)" during 22/03/21 to 23/03/2021 organized by Maharashtra College of Arts, Commerce & Science, Mumbai through online mode

ACHIEVEMENTS

Prof. S. A. Chauhan from Information Technology Department is awarded Ph.D. degree on 26.05.2021 from Malaviya National Institute of Technology Jaipur



Prof. N. N. Maltare from Information Technology Department has published an Indian patent "OPINION MINING BASED PRODUCT RANKING SYSTEM (OMPRS)" on 29.01.2021 (No 202121000365)

Application Details	
APPLICATION NUMBER	202121000365
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/01/2021
APPLICANT NAME	1 . Dr. Sachin Patel 2 . Prof. Virendra Singh 3 . Dr. Dharmendra Sharma 4 . Dr. Nilesh Maltare
TITLE OF INVENTION	OPINION MINING BASED PRODUCT RANKING SYSTEM (OMPRS)
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	vsasawan@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vsasawan@yahoo.co.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/01/2021

Application Status	
APPLICATION STATUS	Awaiting Request for Examination
View Documents	
→ Filed → Published → RQ Filed → Under Examination → Disposed	

Team of 6th electrical from GEC Modasa has participated famous Google Hash Code Competition and secured 7838 International rank

Team Name - GEC Modasa Warriors

1. Malek Mohhamadsahil
2. Malek Mohammadsahil 180160109045
3. Nagda Ahemdraza 180160109048

FACULTY OUTREACH

Applied Mechanics & Civil Engineering Department

Dr. B. J. Shah delivered an expert talk on "Bridge Engineering For Infrastructure Development" on 28/06/2021 in ATAL FDP entitled "Fundamentals of Geotechnical and Structural Engineering for Infrastructure Development" conducted by Govt. Engg. College, Dahod

Dr.U.K.Khare delivered expert talk on "Ozonation Followed by Aerobic Treatment of Textile Wastewater – An Efficient method of Color and Organic Content Removal" on 28/04/2021 in the event of wastewater treatment efficiency and management organized by VGEC, Chandkheda .

Dr.A.J.Patel Delivered an Expert talk on "Research on concrete" in Three Day Workshop at Sankalchand Patel on 27/01/2021.

Dr.N.G.Raval Delivered an Expert talk on "Resent trends in the design of flexible pavement" in Three Day Workshop at Sankalchand Patel on 27/01/2021.

Electrical Engineering Department

An expert talk is delivered by **Prof. Darshan U. Thakar** on 08/04/2021. The topic of the expert talk was 'Electric Vehicles.' Total 200 plus students have registered for the webinar and at the end of the session certificates are provided to the participants.



Computer Engineering & Information Technology Department

Prof. S A Vahora delivered an expert session on "Graphics and Mouse Programming in C" on 21/02/2021 at Vishwakarma Government Engineering College, Chandkheda, Ahmedabad in the IEEE Student Branch sponsored Workshop On "Mastering C" held during 20/02/2021 to 21/02/2021 .

Prof. M M Goyani delivered an Expert Talk on "Face Recognition" in One Day Pedagogy Session at Chandubhai S Patel Institute of Technology, Changa on 02/04/2021.

Prof. M M Goyani Delivered an Expert talk on "Generative Models" at LJ Institute of Technology, Ahmedabad on 02/01/2021.

Prof. M M Goyani Delivered an Expert talk on "Object Oriented Programming" in one Week FDP at Gujarat

OUTREACH

Power Engineering and Research Institute, Mehsana on 02/02/2021.

Prof. M M Goyani Delivered Expert talk on "Introduction to Machine Learning" in one Week FDP at Gujarat Power Engineering and Research Institute, Mehsana on 04/02/2021.

Prof. M M Goyani Delivered an Expert talk on "Supervised Machine Learning Algorithms, How to set up ML Application - Hands on using Python" in Three Day Workshop at Indus University, Ahmedabad on 06/02/2021.

Prof. M M Goyani Delivered an Expert talk on "Image Processing" at Vidush Somany Institute of Technology and Research, Kadi on 18/05/2021.

Prof. Archana Gondalia delivered Webinar on "Data Entry in SSIP module on COGENT Portal" at Knowledge Consortium of Gujarat, Ahmedabad on 13/01/2021.

Anil Prajaapti delivered an Expert talk on "Cloud Computing" at SAL Institute of Diploma Studies, Ahmedabad on 22/06/2021.

STUDENT OUTREACH

This year 2020-21, six students from GEC-modasa were selected for **Vishwakarma yojna project** which also contributes to their final year project. The project involves a year full of making proposal for the urbanization of the rural village areas present in the state of Gujarat.



It works towards the development and modernization of village both in infrastructure as well as proving energy needed for a suitable lifestyle. Hence the students of civil as well as electrical department works as a team in a group of three students, to focus on the idea of how the village would be developed by their thoughtful ideas and proposal.

STUDENT'S ACHIEVEMENTS

A total of 25 students from electrical engineering department of final year were send for an industrial training on **PLC programming at INDO-GERMAN TOOL ROOM,VATVA** in the month of February,2021.



The project of below listed students have been selected



for the **market innovation challenge** through i-hub. Sponsored by GUVNL. The students got grant of Rs. 38660.

Gohel Jignesh .G., Prajapati Saurabh.R., Malek Sajjadhusen .S. (190163109009, 190163109024, 190163109012).

FORTHCOMING EVENTS

Civil Engineering Department will conduct an **ATAL FDP on "Advances in Waste Treatment Technologies"** in 4th week of August 2021 coordinated by Dr.S.S.Singh.

Applied Mechanics Department has planned an online **STTP on " Advanced Applications of Professional Software in Structural Engineering "** in September 2021 coordinated by Dr.A.J.Patel.

Department of Electrical Engineering has planned **"Energy Conservation Awareness Program"** on 15/07/2021.

Department of Electrical Engineering has planned Webinar on **"Opportunities for Academicians at i-Hub"** on 17/07/2021.

Library section of GEC, Modasa has planned **"NDLI User awareness program"** on 17/07/2021.

"The end-product of education should be a free creative man, who can battle against historical circumstances and adversities of nature."

Dr. Sarvepalli Radhakrishnan

YOU SHOULD KNOW

1. Ola to set up world's largest factory in Tamil Nadu

This will be the world's largest two-wheeler production plant and the mega-factory will be set-up on a 500-acre site. The factory will create nearly 10,000 jobs and will be the world's largest scooter manufacturing facility upon completion, reported news agency PTI. The facility will initially have an annual capacity of 2 million units. The first phase will be operational in the next few months, according to the company.

2. DST INSPIRE Faculty from Bhopal develops lightweight carbon foam that can replace lead batteries

Dr. Rajeev Kumar from CSIR-Advanced Materials and Processes Research Institute, Bhopal an recipient of the INSPIRE Faculty award instituted by the Department of Science & Technology, Govt. of India is developing porous carbon materials which have the potential to replace lead grid in lead-acid batteries. It can also be useful for heat sinks in power electronics, electromagnetic interference shielding in aerospace, hydrogen storage and electrode for lead-acid batteries and water purification systems.

3. Indian Scientists Develop Hybrid Super capacitors with Unique Electrode Material

A team of scientists has developed a low-cost supercapacitor device with excellent capacitive retention using a novel electrode material they synthesized which can pave the way for the next generation of high power-high energy storage devices. Supercapacitors have high-power density, long cycle life, and excellent capacity retention compared to their battery counterparts.

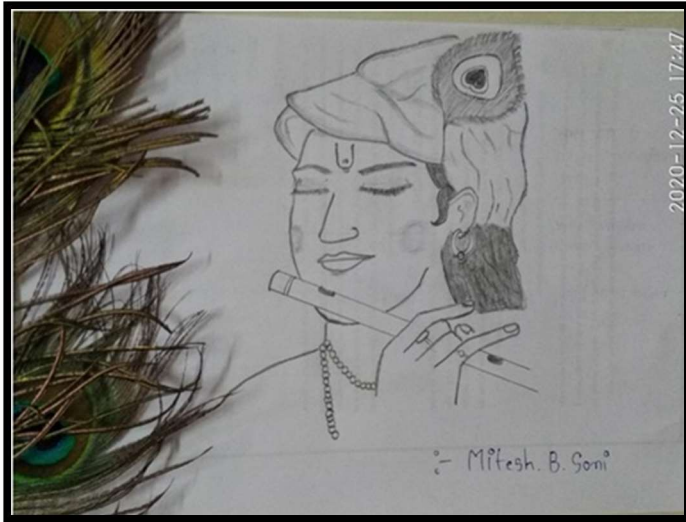
4. Eco-friendly batteries from aloe vera

Lucknow-based Aloe Ecell Pvt. Ltd, pioneered the world's first eco-friendly and non-hazardous batteries from Aloe Vera. During their research on managing waste, Nimisha Varma and Naveen Suman found that the everyday batteries are highly hazardous. These batteries are one of the biggest e-waste generators. It was then after extensive research, the two students found aloe vera extracts and other natural herbs to make the world's first eco-friendly batteries as an apt replacement for toxic metals like Lead and Mercury.

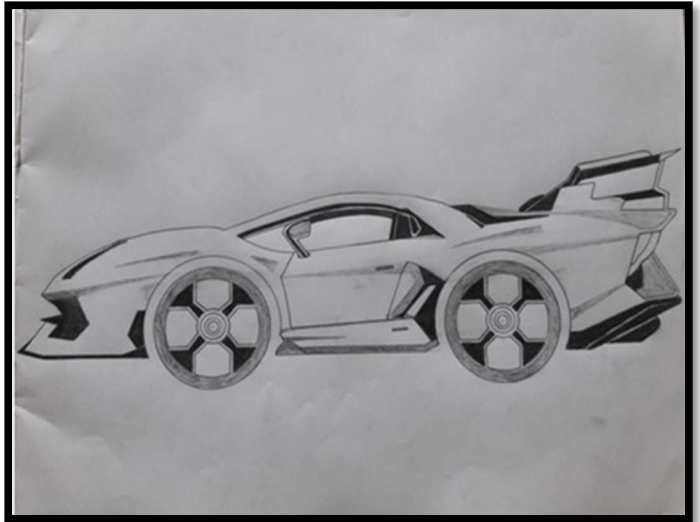
5. Khadi India to launch Organic Vedic Paint

Khadi India under Khadi & Village Industries Commission, Government of India, is soon launching Vedic Paint made out of cow dung. As per the Patrika report, the paint is consistent with national and international standards. The institute has tested on all aspects, including thickness, smoothness and brushing. It has been reviewed by national and international level government and private labs. It will be available in 2lt to 30lt packing. While talking about the production from raw material, it mentioned that by using 100 KG of cow dung, 30-40 KG paint could be manufactured. That means, if a production unit consumed 500 KG of cow dung daily, it could produce up to 200 KG of paint.

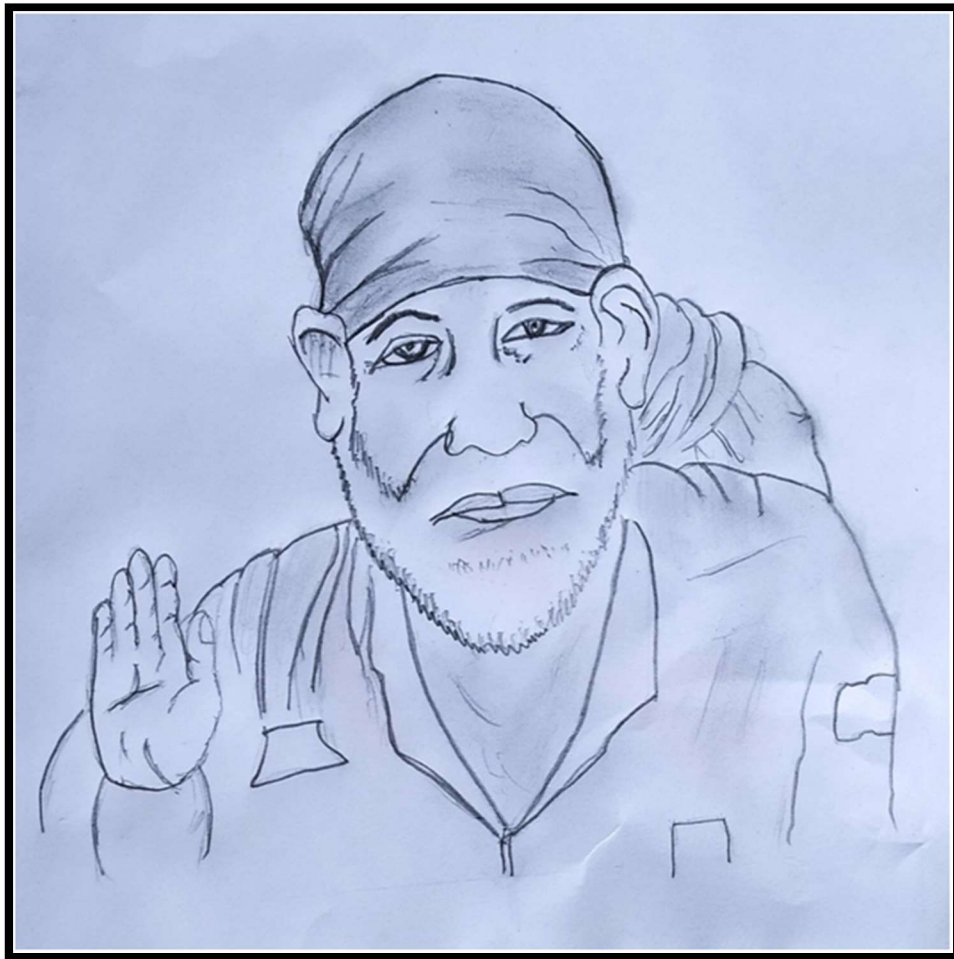
CREATIVE MINDS



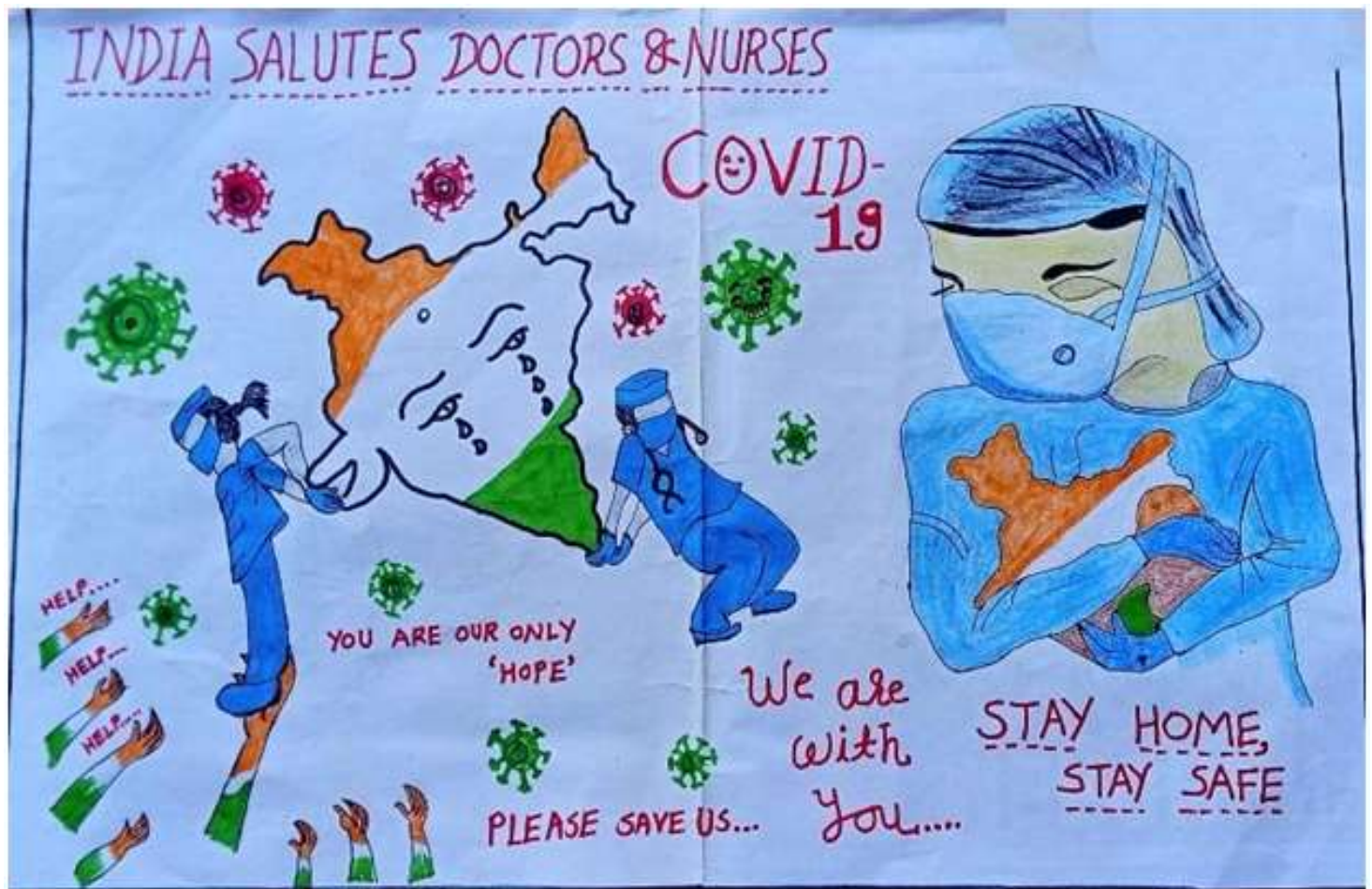
180163109003 DARJI PRAKASH



170160109106 Soni Miteshkumar



190163109018 Parmar Jaydeep Dhirubhai



190163109001 BAMBHANIYA JAYESHBHAI GOVINDBHAI

GECM E-News

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