GOVERNMENT ENGINEERING COLLEGE, MODASA

Newsletter

January – June 2022

Vol. 2 – Issue 1

सा विद्या या विमुक्तये
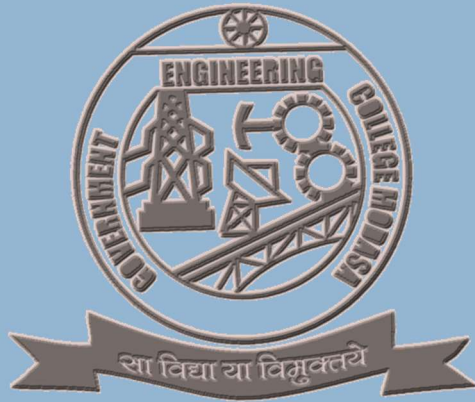
GECM E-NEWS

FROM THE PRINCIPAL'S DESK

Dear Students & Faculty members, Warm greetings to all. It gives me immense pleasure to release the 1st **volume of Institute's Newsletter GECM ENEWS** of the year 2022. Now slowly and gradually, we are coming back to our original track of physical mode of education. Last two years, we suffered a lot due to corona pandemic condition. But at the same time, we have learnt to adopt many new things, which perhaps may have taken more time to adopt otherwise. This is nature of human being that in any difficult condition, one may find the way and learns new things. Thus friends, remember that learning has to be continued in life. If we stop learning, our end is definite.

As I told you that campuses are now becoming live with students' presence. Many activities were executed in this half year in online mode as well as offline mode. It is observed that students have shown lot of interest and participation in all activities. This is really a noticeable change after pandemic condition. Ultimately participation in various such co-curricular and extra-curricular activities build many attributes of life, which helps the students to be successful in their career and life.

Lastly, we are celebrating 75th anniversary of our independence as "Azadi ka Amrut Mahotsav". This is the time to remember our martyrs, who put their whole life at stake in getting independence for our country. As directed by our Hon'ble Prime minister, Shri Narendra Modi, we commit to celebrate Azadi ka Amrut Mahotsav in each and every activity of our life. Many activities were conducted in the institute throughout this period. The Azadi, which is available to us, at the cost of many martyrs, shall not be forgotten. Hence Let's celebrate this Azadi ka Amrut Mahostav in such a way, that our small contributions may also convert into big change in the life of the people around us and thus we contribute in building patriotic nation.

With this, I congratulate the editorial team who has really put lot of efforts to make this newsletter meaningful and useful.

Best wishes.

Principal

Dr. B. J. Shah

Expert Talk by Padma Shri Dr. Kiran Seth Sir

Padma Shri Dr. Kiran Seth Sir Founder of SPIC MACAY and Retd. Professor of IIT Delhi had delivered an interactive and interesting session on "Indian Culture" on 11th April 2022 at Vishveshwarya Hall. He broadly covered about Indian culture in context of student's point of view. He also focused on the impact of classical music to increase the memory power. All the head of the department, faculties principal and more than 200 students really enjoyed the session. Welcome speech was delivered by the principal Dr. B. J. Shah.

Navi Disha- Navu Falak

COLLEGE SAGA

District Level Career Guidance Seminar

District level online cum offline career guidance seminar organized by ACPC, Ahmedabad and KCG at QEEE hall GEC, Modasa on 30th May 2022. More than 200 students were present in this seminar.

ToyFest 2022

Innoveta modelling club, Government Engineering College Modasa, organized a state level innovative and creative toys and games competition Toyfest-2022 on 7th May 2022 in online mode. This is the first time that any institute organized competition for toys and games. The purpose of this event was to make aware and motivate the students for the creation of innovative educational and entertaining toys and games which can reflect Indian culture also. The students of various institute of Gujarat had participated in the event. 20 toys/games of 20 different teams were selected for the final round. The industrial expert Mr. Harsh Gandhi (owner of Toys and games company) and a senior faculty member Prof. Binita Vyas were called to judge the final round. Three toys Toy Boat, Robotic Hand, Balloon Toy Car were selected as the winner of the competition. This event was coordinated by Dr. Mahesh A Yeolekar.

Robotic Hand
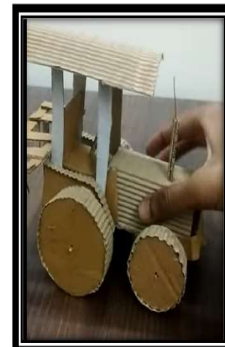
Tractor

TOY CAR

WINNER 1 (WATER BOAT)

RUSA

Four offline trainings were conducted at CIPET, Ahmedabad for UG students. They were coordinated by Dr Nisha Bora and Prof P K Gajjar.

ANSYS

In this offline training students were introduced to the Finite Element Analysis (FEA) concepts and familiarized with the tools and techniques of the ANSYS software package. This event was organized during 03/01/2022 to 23/01/2022.

CATIA

In another training in offline mode where in students were able to
(1) Create and Save various types of CATIA V5 documents.
(2) Differentiate and switch between a selection of workbenches.
(3) Perform various tasks concerning 3D Navigation and geometry selection.
(4) Create and constrain sketches.

(5) Describe the functional capabilities and general usage of: Part Design.
This event was organized during 23/03/2022 to 06/04/2022.

Master CAM

In third offline training the course aimed at giving exposure to and enhancing the knowledge and skills of students involved in. This event was organized during 23/03/2022 to 06/04/2022.

Solid Works
SOLIDWORKS training was used to develop mechatronics systems from beginning to end. At the initial stage, the software was used for planning, visual ideation, modeling, feasibility assessment, prototyping, and project management. It was used for design and building of mechanical, electrical, and software elements. This event was organized during 23/03/2022 to 06/04/2022.

Gymkhana

International Yoga Day
The Government engineering College, Modasa has observed the International Yoga day on 21st June 2022 on the campus. Where in 600 plus students and faculties actively participated in the yoga sessions. The event commenced with virtual address of Hon'ble P.M. Shree Narendra Modiji's inspiring speech. Yoga guru Dr. Diptiben Upadhyay of Patanjali Center, Modasa , Dr. Haribhai Patel, dentist and Shri Navinbhai Patel, Ramani blood bank, owner conducted sessions. Sessions were interesting and thoroughly enjoyed by one and all. Principal Dr. B J Shah sir addressed the crowd and explained the importance of yoga in day to day life. Sir also instructed to form Yoga club of institute. Dr. U. V.

Shah, Gymkhana Vice president presented the vote of thanks. Yoga gurus were presented memento for their valuable contribution.

Hostel

Hostel CUP 2022

The Hostel Cup 2022 was held in campus in the month of March to encourage and bring together hostel students. Total 90 students participated in various events. The key highlight was tennis, cricket match played on the college ground.

India has been, has long been, an exporter of talent to tech companies. But it is in India that's now undergoing its own revolution.

Sundar Pichai

Chief Executive Officer of Alphabet Inc. and its subsidiary Google

Applied Mechanics & Civil Engineering Department

Technical Visit of NHSRCL Project (Bullet Train) (Geotechnical Investigation Laboratory) at Anand Station

A Technical visit of National High-Speed Rail Corporation Limited (NHSRC- Bullet Train Project) was carried out on 26th March 2022 for the students of B. E. Semester - VI and VIII along with Faculty members. 52 students participated in the visit. During the visit, students learnt about the importance of soil parameters and their test procedures. All important tests like triaxial shear test, consolidation test and other advanced soil extraction, preservation of samples were studied. This visit was coordinated by Dr. A. J. Patel. Assistant Professor of Applied Mechanics Department.

A Technical visit of the Control Room of Bus Rapid Transit System (BRTS)

A Technical visit of the Control Room of Bus Rapid Transit System (BRTS) was carried out on 13/5/2022 for the students of M.E. Semester - 2 (Transportation Engineering) at Ahmedabad alongwith faculty members. 13 students had participated in the visit. Various advanced techniques of intelligent transportation systems (ITS) implemented in BRTS were studied. Rigorous interaction was made with Janmarg officials in the research area of ITS application in Mass Transit System.

A Technical visit to the Hot Mix Plant of RKC Infrastructure

A Technical visit to the Hot Mix Plant of RKC Infrastructure, Ahmedabad was carried out on 13/5/2022 for the students of M.E. Semester - 2 (Transportation Engineering) along with faculty members. 13 students had participated in the visit. Advanced testing procedures for various materials used in the highway was demonstrated by the company representative. The test procedure of advanced highway material like RAP, PMB and others were studied. The component parts of Hot Mix Plant and its functions were demonstrated. The process starting from collection of material to dispatch of mixed bituminous was explained by the company representative.

DEPARTMENT SPOTLIGHT

Success Story Shared by Alumni to the PG Students

On 11th April 2022 three students of 2001 batch

1) Mr. Harish Jakhmola,

2) Srirama Bhamidipati

3) Mayank Patel

along with their Mentor Prof.B.H.Pandit (Ex HOD of Civil Engineering Department) had visited their alma mater to see the college after 20 years. They shared their struggles and achievements of past 20 years. They have motivated the PG students of transportation engineering of GECM to explore their research topics. They have offered to guide the students in future endeavor. They paid their respect to the past faculty and Staff. This visit was coordinated by Prof. B. A. Vyas as she was their HOD in 2001.

Expert Talk

Dr. M. M. Ghoyani was invited as an expert to deliver a lecture on "Artificial Neural Network" for civil engineering students of 6th semester. The lecture was arranged on 11th April 2022. It was enlightening and informative interaction with more than 100 students that gave them clarity and insight.

Informative talk for Elective subject and Internship requirements for 7th semester students

Informative talk was arranged on 18th June 2022 to discuss about different elective subject offered by Civil Engineering and Applied Mechanics department. Dr.A.J.Patel, Dr.S.S.Singh and Prof.B.A.Vyas gave brief idea about elective subjects and also guided them for selection process. During this session queries regarding 3 week internship at field were resolved by the faculty

Electronics & Communication Department
Workshop on "Hands-on Embedded system and IOT"

Gujcost sponsored Design Lab., Design Innovation Centre,GTU-Spoke, Government Engineering College, Modasa and Electronics and Communication Engineering Department organized One day workshop On "Hands-on Embedded system and IOT" on 8th April,2022 in EC Department, GEC Modasa. The workshop was divided into 3 sessions. The first session was conducted by Jigar

Jhalaiya, Embedded system Engineer, Alpha Tech Automation , Ahmedabad. He introduced key concepts on Embedded system and IOT; features of Ardiuno, IDE, capabilities as well as current limitations of Ardiuno programming. Two hands-on sessions were conducted in the Embedded system Lab., building upon the knowledge and concepts learnt from the previous session. The two sessions were conducted by Jigar Jhalaiya. The participants coded a basic LED toggling using a Push Switch, Read ADC value of ultrasonic sensor in Arduino microcontroller using C programming language. In Last session, cartype Robot was programmed in Arduino microcontroller using 4 Nos. 300RPM DC motor, Bluetooth module(HC-04), and android app.

## Final year internship evaluation and poster presentation

The EC department GEC Modasa has organized a poster presentation event for final year students on 10th May 2022. Total 59 students took part in the competition and presented their internship work, learnings and experience in the form of posters. The students also appeared for their 3rd and final monthly evaluation conducted by department.

Fare well to graduating students of batch 2022

The graduating batch of 2022 EC department were given fare well by the department on completion of internship external viva on 10th. The Students gathered in large numbers and were enthralled for new beginning. They shared their fond memories and thanked faculties and department for the love and support received throughout their carrier.
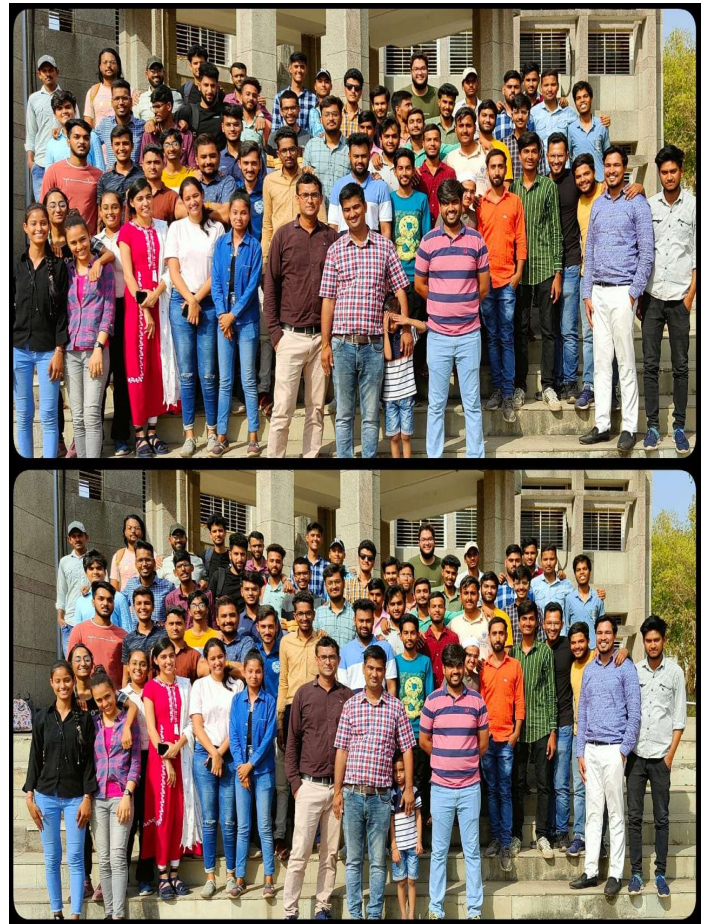
Electrical Engineering Department

Mega Science Expo Visit

A Mega Science Expo was held at Gujarat University, Ahmedabad. Students of electrical department, from all semesters had visited this Mega Expo "Vigyan Sarvatra Pujyate Science Exhibition" along with the faculty coordinator on 25th February 2022 to see the Science exhibitions.

DEPARTMENT SPOTLIGHT

Webinar as a celebration of Engineer's Day on " Internet of Things"

A Webinar was organized and conducted as a celebration of Engineer's Day on " Internet of Things" on 5/03/2022 from 02.00 p.m. to 4.00 p.m.. There were 75 participants. Principal Dr B J shah sir admired the activities. This is part of industry institute interaction webinar series which is delivered by industry experts on recent trends in industry.

Workshop

Electrical Engineering Department and Department of Electronics and Communication have jointly organized "Embedded and IOT hands-on workshop" in collaboration with Prolific Systems & Technologies Private Limited, Ahmedabad with a view to provide hands-on skill based on the topic on 8th April 2022.

Elective Awareness Programme

An Elective Awareness programme was organized by Department of Electrical Engineering, on 28th April 2022. All students of semester 7 were invited to inform them about significance, scope of the subjects, their pre-requires. About 130 students participated in the session wherein the faculty members encompassed the relevance of the above aspects.

Internship Awareness Programme

An Internship Awareness programme was also organized by Department of Electrical Engineering, on 28th April 2022, to make students aware regarding significance, process, allotment of mentors, list of industries, report writing, log preparation, presentation etc topics. It was discussed with total 130 students who have actively participated in the discussion.

Computer Engineering & Information Technology Department

Alumni Meet 2022

Department of Computer Engineering & Information Technology had organized an Alumni Meet'22 on 02, January for former students at the institute. More than 200 alumni were registered for this meet. Telephonic confirmation was taken from all alumni. The meet was started at 10.30am with registration and breakfast at department building. Token of memory was given to all alumni present in the meet. Alumni were happy to meet their friends and faculties. They enjoyed taking selfie at selfie zone. There were interactive games and singing event for them. They were delighted to learn about the progress of the department in past few years. They promised to support the placement.

Student Development Program on Design and Innovation for Software Development

The Department of Computer Engineering & Information Technology had arranged 5 day student development program on "Design & Innovation Practice for Software Development" for pre-final year student. This program aimed to enhance the innovation skill through sharpening their Technical and Soft skills. Expert sessions on IT oriented technical concepts and aptitude/logical reasoning were conducted by the professionals. This program will help them to get into reputed IT organizations too. The duration of the program was 18-22,April-2022 and it was conducted under the Design Innovation Center (DIC) program of the Gujarat Technological University as our institute is Spoke under GTU as Hub.

સરકારી ઈજનેરી કોલેજ, મોડાસામાં ૫ દિવસીય સ્ટુડન્ટ ડેવલપમેન્ટ પ્રોગ્રામ યોજાયો

ગાંધીનગર મેટ્રો, તા.૨૩

સરકારી ઈજનેરી કોલેજ, મોડાસા ખાતે કમ્પ્યુટર એન્જિનિયરીંગ અને ઇન્ફોર્મેશન ટેકનોલોજી વિભાગ દ્વારા ત્રીજા વર્ષના વિદ્યાર્થીઓ માટે ૫ દિવસનો સ્ટુડન્ટ ડેવલપમેન્ટ પ્રોગ્રામ તા.૧૮ થી ૨૨ એપ્રિલ દરમિયાન યોજાયો. વિદ્યાર્થીઓને કોમ્પ્યુટર/આઇટી ક્ષેત્ર ની જરૂરિયાત અનુરૂપ તૈયાર કરવાના ઉદ્દેશ્ય થી આ પ્રોગ્રામનું આયોજન કરવામાં આવ્યું હતું. વિદ્યાર્થીઓની ટેકનિકલ અને નોન ટેકનિકલ સ્કીલ ડેવલપ કરવા માટે નિષ્ણાતો દ્વારા સેશન લેવામાં આવ્યા હતા. વિદ્યાર્થીઓ નું છેલ્લા વર્ષના અભ્યાસ દરમિયાન જ કંપનીમાં પ્લેસમેન્ટ થઈ જાય તે માટે તૈયાર કરવામાં આવ્યા હતા. તદુપરાંત દેશ વિદેશની ખ્યાતનામ યુનિવર્સિટી ઓ માં ઉચ્ચ અભ્યાસ કરી શકે તે દિશામાં પ્રયત્ન કરવામાં આવ્યો હતો. ૧૧૫ વિદ્યાર્થીઓએ આ પ્રોગ્રામમાં ભાગ લીધો હતો. પ્રિન્સિપાલ શ્રી ડો. બી. જે.શાહ અને વિભાગ ના વડા પ્રો.એમ.બી.ચૌધરીએ વિદ્યાર્થીઓ ને પોતાને સ્કીલ ફૂલ અને પ્રોબ્લેમ સોલવર બનવા માટે પ્રેરિત કર્યા હતા. આ પ્રોગ્રામ ડિઝાઈન ઈનોવેશન સેન્ટર, ગુજરાત ટેકનોલોજી કલ યુનિવર્સિટી, અમદાવાદ દ્વારા સ્પોનસર કરવામાં આવ્યો હતો.

Farewell 2022

Department of Computer Engineering & Information Technology, had organized Farewell for 2022 pass out batch on 30.04.2022. They attended their four years from 2018 to 2022.

Workshop on Computer System Design Interoperability and related Peripherals

This 3-day workshop from 04/04/2022 to 06/04/2022 in the area of Computer Engineering and Information Technology was under the title "Computer System Design, Interoperability and related Peripherals" for the 2nd year students. This workshop aimed to provide knowledge about computer hardware, peripherals, interfacing, compatibility, and troubleshooting. Through both theory and hands on sessions. Expert sessions were conducted by the invited professionals.

Seminar on Animal Welfare

A seminar on Animal Welfare was organized by Department of Computer Engineering & Information Technology, on 07.04.2022 to unfold understanding of animal rights among engineers.

Inauguration of Squadron Club

Squadron Club inauguration was organized on 8th March 2022 at CE-IT Department, GEC Modasa. One of the core member Prachi gave a welcome speech to all the present members. It was followed by the speech of respected Principal sir and HOD sir. They shared about the announcement of some events like logo and slogan making competition. The event was followed by the speech of Anil sir and Rahul sir, they shared a wonderful speech and poem on Women's day. Some of the students also presented their gratitude to women by their speech. And one of the student shared his experience on living in a hostel is much fun. Students performed Garba at the campus to exhibit their joy.

ATLAS event under Squadron club

This event was organized in such way that students can have fun by participating in the various activities like Design Making, Meme making, Video editing, Standup Comedy and Treasure Hunt on 13th April 2022. The main aim of organizing this event was to make like-minded students come together and make something creative. The game like Treasure Hunt can teach students how to work in a team effectively and efficiently. The standup comedy gave students a stage to show their talent in front of other students.
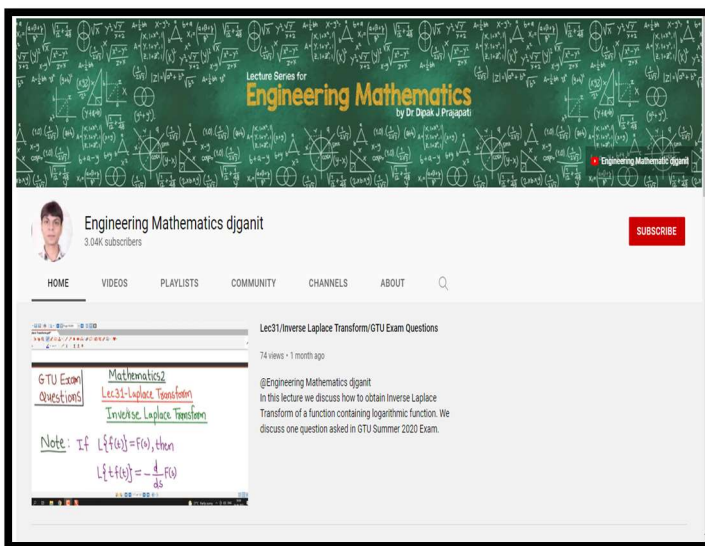
Science and Humanities Department

Youtube Channel for Learning Maths

Dr Dipak J Prajapati has started his Youtube channel Engineering Mathematics djganit (https://m.youtube.com/c/djganit) for students and have uploaded 650 video lectures of all mathematics subjects of GTU on this channel so that students can learn engineering mathematics anywhere anytime.

Like anyone else, a lot of what I do and how I think has been shaped by my family and my overall life experience. Many who know me say I am also defined by my curiosity and thirst for learning. I buy more books than I can finish. I sign up for more online courses than I can complete. I fundamentally believe that if you are not learning new things, you stop doing great and useful things. So family, curiosity, and hunger for knowledge all define me.

Satya Nadella

CEO Microsoft

RESEARCH AND PUBLICATIONS

Applied Mechanics & Civil Engineering Department

Prof. B. J. Shah has published a research paper on "Dynamic Analyses of Triceratops under Hurricane-driven Metocean Conditions in Gulf of Mexico" in the journal of Ocean Engineering, Volume 256, 15 July 2022, 111511.

Prof. B. R. Shah has published a research paper on "Reductive Transformation of Aqueous Pollutants using Heterogeneous Photocatalysis: A Review" in Institution of Engineers Series A, ISSN No. 2250-2157, Jan 2022.

Electronics & Communication Department

Prof. N. J. Bathani has published a research paper on "Analysis of Electrically Low Profile Wideband Microwave Absorber for C Band Applications" in Progress In Electromagnetics Research, ISSN NO: 1937-8726 pp 53-63, Feb 2022

Prof. N. D. Patel has presented a research paper on "Determination of the Channel Capacity of MIMO System in Correlated Rician Fading Scenario" to Innovations in Science and Technology ISBN 978-93-5547-101-7 (Print), ISBN 978-93-5547-110-9 (eBook), Feb 2022.

Prof. N. D. Patel has published a research paper on "The Novel Approach of Down-Link Spectral Efficiency Enhancement using Massive MIMO in Correlated Rician Fading Scenario" in 3rd International Conference on Computing Science, Communication and Security (COMS2-2022), ISSN 1865-0929 ISSN 1865-0937 (electronic) ISBN: 978-3-031-10550-0, Online ISBN: 978-3-031-10551-7 pp 54-68, Feb 2022

Computer Engineering & Information Technology Department

Prof. S. A. Vahora has published a research paper on "A Review On Alzheimer Disease Prediction Methodology" in Second International Conference on Artificial Intelligence and Smart Energy (ICAIS) ISBN NO: 978-1-6654-0052-7, Feb, 2022.

Prof. M. M. Goyani has published a research paper on "Robus Content Based Image Regrieval using ICCV, GLCM and DWT-MSLBP Descriptors" in The Computer Science Journal ISSN NO: 2300-7036, March, 2022.

Prof. M. M. Goyani has published a research paper on "A survey on event detection based video summarization for cricket" in Multimedia Tools and Applications ISSN NO: 1573-7721, April, 2022

Prof. N. N. Maltare has published a research paper on "Rainfall Data-Based Time Series Forecasting Using Rolling Forecasting Model for Indian Geographic Area" in Information and Communication Technology for Competitive Strategies (ICTCS 2021) ISBN NO: 978-981-19-0098-3, June, 2022.

Prof. S. A. Vahora has published a research paper on "Comprehensive Analysis of Crowd Behavior Techniques: A Thorough Exploration" in International Journal of Computing and Digital System (IJCDS) ISSN NO: 2210-142X, March, 2022

Prof. R. N. Vaza has published a research paper on "Developing a novel methodology for virtual machine introspection to classify unknown malware functions" in Peer-to-Peer Networking and Applications ISSN NO: 1936-6442, January, 2022

Prof. V. A. Rathod has published a research paper on "A survey on Sentimental Analysis and Topic Modeling" in International Journal of Scientific Research in Science, Engineering and Technology ISSN NO: 2395-1999, March, 2022.

Engineering refers to the practice of organizing the design and construction [and, I would add operation] of any artifice which transforms the physical world around us to meet some recognized need.

G.F.C. Rogers

A great bridge is a great monument which should serve to make known the splendour and genius of a nation; one should not occupy oneself with efforts to perfect it architecturally, for taste is always susceptible to change, but to conserve always in its form and decoration the character of solidity which is proper.

Jean Peronnet

PARTICIPATIONS

Applied Mechanics & Civil Engineering Department

Prof. B. J. Shah has participated in "International Conference on Academic Institution" as pre event of Vibrant Gujarat 2022 during 05/01/2022 to 06/01/2011 hosted by Govt. of Gujarat.

Prof. M. M. Bhunga has attended "Induction Training programme Phase II" during 17/01/2022 to 28/01/2022 hosted by NITTTR, Bhopal.

Prof. M. M. Bhunga has participated in "FDP on Design Engineering Level -1" during 14/02/2022 to 18/02/2022 organized by GTU DIC.

Prof. M. M. Bhunga has participated in "Design of Confined Masonnary Building for Earthquake Disaster Risk Mitigation in India" during 06/06/2022 to 10/06/2022 organized by GIAN & LDCE.

Electrical Engineering Department

Prof. S. V. Banker has participated in "Inculcating Universal Human Values in Technical Education" during 21/02/2022 to 25/02/2022 organized by AICTE.

Prof. S. V. Banker has participated in "LabVIEW" during 21/03/2022 to 25/03/2022 organized by NITTR Bhopal.

Electronics & Communication Department

Prof. N. D. Patel has participated in "NBA Accreditation and Teaching and Learning in Engineering (NATE)" training program by SWAYAM NPTEL during 24/01/2022 to 15/04/2022 organized by SWAYAM NPTEL.

Prof. K. R. Patel has participated in "Signal Processing Techniques and Its Application training program by SWAYAM NPTEL" during 24/01/2022 to 15/04/2022 organized by SWAYAM NPTEL.

Prof. P. V. Patel has participated in "Electronics & ICT academies , NIT patna and MNIT jaipur arranged FDP on AI and ML learnings of IoT/EDA supported by ministry of Electrnics and Information Technology." during 07/03/2022 to 17/03/2022.

Prof. N. J. Bathani has participated in "Electronics & ICT academies , NIT patna and MNIT jaipur arranged FDP on AI and ML learnings of IoT/EDA supported by ministry of Electrnics and Information Technology." during 07/03/2022 to 17/03/2022.

Computer Engineering & Information Technology Department

Prof. A D Chaudhary has participated in "Machine Learning, ML (NPTEL)" organized by IIT, Kharagpur, during 21/02/2022 to 15/04/2022.

Prof. S. G. Patel has participated in "Software Testing (NPTEL)" organized by IIT, Kharagpur, during 24/01/2022 to 18/02/2022.

Prof. S. G. Patel has participated in "Ethical hacking (NPTEL)" organized by IIT, Kharagpur, during 24/01/2022 to 15/04/2022.

Prof. J. B. Baria has participated in "Online Privacy (NPTEL)" organized by IIT, Kharagpur, during 24/01/2022 to 15/04/2022.

Prof. J. B. Baria has participated in "Blockchain and its Applications (NPTEL)" organized by IIT, Kharagpur, during 24/01/2022 to 15/04/2022.

Prof. P. R. Gamit has participated in "Ethical hacking (NPTEL)" organized by IIT, Kharagpur, during 24/01/2022 to 15/04/2022.

Prof. H. R. Prajapati has participated in NPTEL MOOC Course on "Kinematics of Mechanisms and Machines" during 24/01/2022 to 18/03/2022 organized by IIT Kharagpur.

Prof. H. R. Prajapati has participated in NPTEL MOOC Course "Gear And Gear Unit Design: Theory and Practice" during 21/02/2022 to 15/04/2022 organized by IIT Kharagpur.

Prof. H. R. Prajapati has participated in training Program on "Robotics and Automation" during 20/12/2021 to 24/12/2021 organized by GEC, Modasa Under AICTE ATAL FDP.

Mechanical & Automobile Engineering Department

Prof. J. C. Gamit has participated in NPTEL MOOC Course on "Patent Drafting for Beginners" during 24/01/2022 to 18/02/2022 organized by NPTEL - IIT Madras.

Prof. J. C. Gamit has participated in NPTEL MOOC Course on "Experimental Methods in Fluid Mechanics"" during 24/01/2022 to 15/04/2022 organized by NPTEL - IIT Madras.

Prof. J. C. Gamit has participated in NPTEL MOOC Course on "IC Engines and Gas Turbines" during 24/01/2022 to 15/04/2022 organized by NPTEL - IIT Madras.

Prof. J. C. Gamit has participated in NPTEL MOOC Course on "Patent Law for Engineers and Scientists" during 24/01/2022 to 15/04/2022 organized by NPTEL - IIT Madras.

Sciences and Humanities Department

Prof K. B. Naik has participated in "Induction Phase-2 training" organized by NITTTR, Bhopal during 21/02/2022 to 04/03/2022.

Prof D. H. Sahay has participated in "Nanotechnology and Nanomaterials for Various Technological Applications" organized by NITTTR, Bhopal during 28/03/2022 to 01/04/2022.

Prof D. H. Sahay has participated in "Metallurgy For All" organized by Metallurgy Department, Government Engineering College, Gandhinagar, Gujarat during 21/02/2022 to 25/02/2022.

ACHIEVEMENTS

Prof. S. B. Jha from Civil Engineering Department Completed his Ph.D. on 24th June 2022.

Prof. N. D. Patel from Electronics and Communication Engineering Department Received Best Research Paper Award at 3rd International Conference on Computing Science, Communication and Security (COMS2-2022),

Prof. P. V. Patel from Electronics and Communication Engineering has participated in khelmahakumbh 2021 from institute held in March 2022. He secured 3rd rank at district level badminton singles and doubles event.

Prof. V. J. Upadhyay has published Patent, Application Number- 202021049148, Journal Number- 18/2022, Journal Date: 06/05/2022 -Indian Patent Office.

Prof. Nilesh N. Maltare Completed NPTEL online certification course "Industrial Internet of Things" hosted by IIT Kharagpur and secure top 1% rank .

Prof. Viral R. Patel Completed NPTEL online certification course "Industrial Internet of Things" hosted by IIT Kharagpur and secure top 1% rank .

PARTICIPATION AND ACHIEVEMENTS

Prof. Upendra R. Bhoi Completed NPTEL online certification course "Industrial Internet of Things" hosted by IIT Kharagpur and secure top 1% rank .

Prof. J. C. Gamit Recognized as an "NPTEL Star" - "NPTEL BELIEVERS" by NPTEL . Recognized as NPTEL BELIEVERS for being certified in 4 exams in which he have appeared.

Prof. J. C. Gamit Recognized as NPTEL ENTHUSIASTS for appearing in atleast 8 exams in July 2020-Jan 2022 and passed in 75% of the courses appeared.

Prof. J. C. Gamit Recognized as an NPTEL DISCIPLINE STARS for completing more than 50 weeks of learning and final score in subjects>=55 in mechanical engineering.

Bamaniya Ranjitkumar Bhalabhai (180160106005) has scored 352 in GATE 2022 (BE Civil).

Daksh Ashokbhai Chauhan has scored 350 in GATE 2022 (BE Civil).

Prajapati Smit (180160106098) has scored 350 in GATE 2022 (BE Civil).

Rathod Kuldipsinh Kiritsinh (200160106052) won 3rd Prize in creative and innovative toys and games competition (TOYFEST-2022) Toy Name is "Balloon Toy Car" to show application of Bernoulli's Principle.

Chaitanya Choudhary (180160109022) has qualified UPSC CDS exam for army and AFCAT exam for Air force (BE Electrical).

Ojha Saurabh Virendrakumar (190160102039) has scored 382 points out of 400 points and obtained 1st Rank and won Gold medal in junior men Air Rifle Championship organized by Ahmedabad District Rifle Association.

Aditya Dalwadi (190163116004) is admitted in IIT Madras for M. Tech. Course (BE Computer).

GOVERNMENT ENGINEERING COLLEGE, MODASA

DEPARTMENT OF COMPUTER ENGINEERING & INFORMATION TECHNOLOGY

WISHES

CONGRATULATIONS

ADITYA DALWADI

Admitted in IIT Madras for M.S.Programme

OUTREACH

FACULTY OUTREACH

Applied Mechanics & Civil Engineering Department

Prof. B. J. Shah has delivered Expert Lecture to guide the young aspirant and sharing the best practices to maintain the etiquettes during the interview under training program organized by GTU Centre for Career Counselling and Advancements (CCCA) from 3d January to 19th January 2022.

Prof. A. J. Patel has delivered Expert Lecture on "Utilization of different types of waste in construction Industry" in GUJCOST Sponsored two days workshop on Recent Advances in Waste Technology" on 16th March 2022.

Prof. S. B. Jha has delivered Expert Lecture on "How to crack competitive and GATE exam" organized on 28th April 2022 at PDPU.

Prof. B. A. Vyas was invited as an Expert to judge the state level ToyFest-2022 event conducted on 7th May 2022 at GEC, Modasa. by the Innoveta club.

Computer Engineering & Information Technology Department

Prof. S. A. Vahora has delivered an Expert session on "Transfer Learning with Hans-on Sessions" on 11th April 2022 at AICTE-ISTE approved one week short term training programme on "Towards Data Science: Applications of Explainable AI and Deep Learning" organised by LDRP Institute of Technology and Research, Gandhinagar, Gujarat, India.

Prof. S. A. Vahora has delivered an Expert session at one day workshop on "COVID 19 Detection from Chest X ray using Deep learning" on 03rd March 2022 organised by V.V.P. Engineering College, Rajkot.

Prof. M. M. Goyani has delivered an Expert Talk on "Weight Optimization Algorithms" on 28th March 2022 at Gujarat Power Engineering & Research Institute, Mehsana.

Prof. M. M. Goyani has delivered Expert Talk on "Data Visualization" on 6th April 2022 at Sakalchand Patel College of Engineering, Visnagar.

Prof. M M Goyani has delivered Expert Talk on "Advanced Topics on Theory of Compuation" on 9th April 2022 at Chandubhai S. Patel Institute of Technology, Changa.

Prof. M M Goyani has delivered Expert Talk on "Path from AI to Machine Learning: Regression & Classification" on 10th May 2022 at LDRP Intitute of Technology and Research, Gandhinagar.

Prof. A A Prajapati has delivered Expert Talk on 'Machine Learning" on 30th June 2022 at faculty development program organised by United world School of Computational Intelligence (USCI), Karnavati University, Gandhinagar.

Science and Humanities Department

Prof. M A Yeolekar has delivered an expert talk on "Mysterious Mathematics" for the engineering students on 8th April, 2022 at L. D. College of Engineering.

Prof. D J Prajapati has delivered an online webinar on "Harmonic Elimination in Multilevel Inverter using Newton Raphson Method " at Parul University on 16th May 2022.

ENCOMAA- Government Engineering College, Modasa is organizing seminar on **"American-Indian Education Program and Exchange Program"** on 18th July 2022.

The Government Engineering College, under the **Azadi ka Amrut Mahotsav will** observe a **Plantation Drive** on the campus on 28/07/2022. Wherein plantation drive will take across the campus and show our commitment college will plant 75 big trees (Ashok , Neem , Pipal ,Banyan) around the ground.

Electrical Engineering Department is organizing a Workshop on **"EFFECTIVE TECHNICAL WRITING FOR DOCUMENTATION"** for semester 7tth students to make them aware about formal documentation, report writing and presentation skills on 12th July 2022 at A. P. J. Abdulkalam Hall, Electrical Engineering Department.

Electric Transportation in India: Policies, Trends, Development

The Central Pollution control panel (CPCB, 2010) of India estimated that 75% of cities within the country are in danger for increase of stuff (PM10 and PM2.5) pollution, and 50% are approaching the critical level for carbon monoxide gas (CO) and gas (NOX).

According to the International Energy Agency (IEA, 2020a), the worldwide fuel demand will grow by 5.7 million barrels per day (MB/D) during 2019-2025. Consistent with the Ministry of Petroleum and fossil fuel (World Health Organization, 2018), much of this demand will originate from India, which consumed 193.745 million metric tons (MMT) of petroleum products in 2017–2018. India relies on imports for roughly 81.7% of its petroleum requirements and ranks third in terms of energy consumption after the USA and China (Energy Policy In India)

To protect the environment and reduce oil consumption, scientists and plenty of governments have proposed EVS as a reliable alternative to petrol and diesel-run vehicles.

Electric vehicles (EVS) have the potential to unravel interrelated problems like pollution, depletion of non-renewable energy sources, increasing oil prices, rising pollution, depletion of non-renewable energy sources, increasing oil prices, rising oil imports, and demands for "green" development.

Present status:

India has the fourth-largest industry within the world. The industry is expanding with a compound annual rate (CAGR) of seven.01%; it encompassed 4.02 million units (except for 2 wheelers or motorcycles) in 2018 (Bhattacharjya et al., 2018). Consistent with present statistics, India's vehicle production is quite 25 million units, and there are over 210 million licensed vehicles on India's road network. Bikes have the utmost share (79%), followed by passenger vehicles (14%). The remaining 7% consists of business vehicles that include three-wheelers and lightweight commercial vehicles (IBEF, 2017a). In terms of passenger cars and commercial vehicle sales, this industry represents Asia's third-largest area of economic process at 9.5%, the fastest among major global markets (India economic news, 2018).

India has been falling behind other countries within the deployment of electrical vehicle (EV), because it has no explicit policy or strategy. This contrasts with the USA, China, Norway and Germany, who have offered substantial subsidies and incentives to upgrade to EVS, to attenuate pollution and fuel consumption.

However, the trends of electrical vehicle possession in India, particularly electric two-wheelers (E2W), are largely incremental. As an example, in 2018, the quantity of E2W vehicles crossed 475,000 units, although only 114,000 units were sold under the Faster Adoption And Manufacturing Of Hybrid And Electric Vehicles (FAME) scheme (Fig. 3). The amount of electrical four wheelers (E4W) was nearly 7,000 units, active filters are often helpful in EV chargers to encounter the matter of harmonic-distortion (NITI Aayog, 2018a).

Electric Vehicles Deployment Status:

 The Government of India recently proposed to switch 100% of vehicles in India with EVS by 2030. However, with just 308 network EV charging stations within the whole nation, this goal warrants more support (Plug in India, 2020). Additionally, the relevant policies and infrastructure are complex and inadequate. Hence, the deployment of an open EV charging framework will help the country achieve this goal and benefit its environment. Moreover, worldwide experience suggests upgrading grid thanks to quite loaded distribution channels and extra electricity capacity is way required to support charging infrastructure for EVS. In India, adding banks of chargers could also be easier and fewer expensive by managing and upgrading distribution transformers.

Industry experts assessed that the request for EV batteries would exceed 1,300 GWH/Y by 2030. India's declaration to accumulate 800 GWH/Y from batteries would expand this market prediction by 60%. It might likewise make India one among the most important markets for EV batteries (Bloomberg new energy among the most important markets for EV batteries (Bloomberg new energy finance, 2017). The present charging deployment status of India compared with other countries is shown in Fig. 3 (Statista website, 2019).

Future trends towards Indian EV market:

In the future, e-ROBO-taxis with autonomous driving mechanisms and shared mobility may enter the Indian market in upcoming years (Smartcities India, 2019). An intelligent transit to facilitate vehicle-to-vehicle and vehicle-to-infrastructure communications are going to be installed in EVs for safety and traffic management. However, there's no study within the literature conducted by relevant authorities in India that has information on the longer term trends, largely because of poor penetration of EVs.

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By Prof.(Dr.) V. J. Upadhyay And Dr. H. S. Pandya, Electrical Department.

CREATIVE CORNER

उस एहसास को वो कभी ज़िन्दा नहीं होने देती
बेटिया माँ बाप को कभी बुढा नहीं होने देती

जहा कभी भी जाऊ मेरे साथ साथ चलती है
अकेलेपन का एहसास तितलियां नहीं होने देती

आज भी ख्वाब में सात समंदर हो के आता हु
दादी की कहानिया मुझे बड़ा नहीं होने देती

देश के खातिर हँसकर बेटे कुर्बान कर देती है
मुल्क की माँ ऐ आँखों को गिला नहीं होने देती

कुर्सी के लिए, कई बस्तिया जला देती है मगर
सियासत की आग चूल्हे में रोटियां नहीं होने देती

कुछ देर साथ चल के हौसला भी बिस्तर में लेट गया
आरजुऐ भी ऐसी की ख्वाब कोई पूरा नहीं होने देती

तमन्नाओ की कई दीवारे टूट के बिखरी पड़ी है
तेरी याद है जो इस जिस्म को मलबा नहीं होने देती

लोरिया गा गा के आवाज नब्ज़ में जम जाती है फिर भी
माँ है की औलाद की नींद को किरकिरा नहीं होने देती

- Dr. Mahesh Goyani, Assistant Professor, Computer Engineering Department

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CREATIVE CORNER

એક ગામ હતું , ત્યાં એક છોકરો રહેતો હતો . એનું નામ હતું દેવ . એનું એક નાનકડું સપનું હતું ઈન્ડિયન નેવી જોઈન કરવાનું . ને બીજી બાજુ એક શહેર હતું , ત્યાં એક છોકરી રહેતી હતી . એનું નામ હતું દામીની . ને એનું એક લક્ષ્ય હતું , એને આર્કીટેકચર બનવું હતું .. દેવ ને નેવી જોઈન કરવા માટે આગળ ભણવાની જરૂર પડે એમ હતી , એટલે એ ગામમાંથી શહેરમાં આવ્યો ને એક રૂમમાં ભાડેથી રહેવા લાગ્યો ને એ જ સ્કૂલમાં જોઈન થયો જેમાં દામીની ભણતી હતી . બન્ને એકબીજાને મળ્યાં , દેવ અને દામીની બન્ને એકબીજાના ખાસ મિત્ર બની ગયા .. કેમ કે દામીની એ આજ પહેલા એવું કોઈ પાત્ર નહોતું જોયું જે એના સપનાં માટે આટલું સમર્પિત (dedicated) હોય , કંઈ પણ કરવા માટે તૈયાર હોય . ને દેવ એ આજ પહેલા કોઈ છોકરી ને એના લક્ષ્ય માટે આટલી (possesive) હોય એમ નહોતી જોઈ કેમકે એ તો નાનકડાં ગામમાં રહેતો હતો ને . દિવસે દિવસે બન્નેવ ની મિત્રતા ગાઢ થતી ગઈ , પણ એટલાં માં દિવસ આવ્યો ફેરવેલ નો .. ફેરવેલ ના દિવસે સ્કૂલ માં ફેરવેલ કોસ્ટ્યુમ પાર્ટી હતી . દેવ નેવી ના યુનીફોર્મ માં હતો . પેરેન્ટસ્ પણ ઈનવાઈટેડ હતાં પણ દેવ નાં પેરેન્ટસ્ નહોતા આવ્યા , ને એટલે એ થોડોક ઉદાસ હતો .. ને એટલાં માં એની નજર દામીની પર પડ , " દામીની એ લાઈટ બ્લૂઈશ ગ્રીન કલર ની સાડી પહેરી હતી , એનાં વાળ ખૂલ્લા હતાં એમાં વળી એની એ લટ છટકીને ગાલ પર આવી ને એને જાણે ગલી પતી ના કરતી હોય એમ વારંવાર લપસી આવતી હતી , ને છેવટે એણે એ લટ ને કાન પાછળ એકદમ સ્લો મોશન માં લઇ જઈને ક્લીપ ભરાવી દીધી , ને એમાં એની એ નાનકડી બિંદી ને એ નોઝરીંગ તો જાણે એણે જીવ લેવા માટે જ પહેરી હતી . ને એને જોઈ ને દેવ જાણે એની ઉદાસી નું કારણ જ ભૂલી ગયો .. ને એની પાસે જઈને કાનમાં કહ્યું કે , " દામુ આ તારા વાળ ની ક્લીપ મને આપ ને , કેમકે તારા એ વાળ તુજ આઝાદ પંખી માફક ખુલ્લા જ સરસ લાગે છે .. આ દ્રશ્ય દામીની ના પપ્પા જોઈ રહ્યા હતા , પણ એમણે કશું કહ્યું નહીં કેમકે ફેરવેલ ના બીજા દિવસે પરીક્ષાઓ ચાલું થવાની હતી .. પણ આ બન્ને તો એકબીજાની આંખોમાં જાણે ખોવાયેલા હતા , ને દામીની એ ક્લીપ કાઢી ને દેવ ને આપી .. દેવ ના માટે આ ક્લીપ જાણે એનું લક થઈ ગઈ , કેમકે એનાં આવ્યાં પછી જ પેલી પાર્ટી માં એનાં ફેસ પર સ્માઈલ આવી હતી ને .. ને એ એને પરીક્ષામાં પણ સાથે રાખતો , દિવસો વીત્યા પરીક્ષા પૂરી થઈ .. ને દામીની ને એની કલીપ યાદ આવી , કેમ કે એ એની મમ્મી ની છેલ્લી નિશાની હતી , તો એણે દેવ પાસે થી એ ક્લીપ પાછી લેવા જીદ કરી ..પણ થોડા દિવસોમાં દેવની ફિઝીકલી પરીક્ષા હતી નેવી ના એન્ટ્રન્સ માટે તો એને એનું લક સાથે જોઈંતું હતું .. એમ છતાં ઘણું કગરાવ્યાં પછી દેવ માની ગયો ને આવ્યો દામીની ને ક્લીપ આપવા , બન્ને દામીની ના ઘર નજીક ના કોઈ ગાર્ડન માં મળવાનાં હતાં . ને ત્યાં એમને દામીની ના પપ્પા જોઈ ગયા .. ને પછી , પછી એમણે દેવ ને ત્યાં ને ત્યાં જ ઢોર મારમાર્યો , ને એમાં ને એમાં દેવ ને આંખ પર ને પગે બહું જ લાગ્યું .. દામીની એ ઝઘડો કર્યો એનાં પપ્પા જોડે ને દેવ ને સંભાળવા એની રૂમ પર જતી રહી , એક બે દિવસ માં દેવ ઠીક તો થઈ ગયો , પણ નેવી ની ફીઝીકલ એન્ટ્રન્સ પરીક્ષામાં માં ફેલ થઈ ગયો .. એ બહુ જ દુ:ખી થઈ ગયો , ને એના દુ:ખ નું કારણ દામીની પોતે હોવાનું વિચારી , દામીની પણ દુ:ખી થઈ ગઈ .. બન્ને હાર માની ને બેસી ગયા હતા ને સાથે આત્મહત્યા કરવાનો વિચાર કરતા હતા , ત્યાં એમની નજર દામીની ના આર્કીટેકચર એન્ટ્રન્સ નાં ફોર્મ પર પડી , ને દામીની ને થયું કે દેવ ને જીવવા માટે નું એક કારણ જ આપી દઉં ને એણે દેવ ને કહ્યું , " નેવી એક જ થોડી આર્મી છે , તું એરફોર્સ અથવા તો આર્મી પણ જોઈન કરી શકે છે ને , અને ત્યાં સુધી આપણે મારું લક્ષ્ય સાથે પૂરું કરીએ ને , તું પણ મારી સાથે આર્કીટેકચર કર .." આ સાંભળીને દેવનાં માં જાણે જીવવા નો જોશ આવી ગયો , આમાં ફેલ થયો તો શું છે , હું બીજી પરીક્ષા આપીશ , ને તારી સાથે તારાં નહીં આપણા લક્ષ્યને પામવા માટે આપણે જોડે મહેનત કરીશું .. થોડાંક વર્ષો પછી , દેવ એ ફરી આર્મી ની એન્ટ્રન્સ આપી , પણ એ ફરી ફિઝીકલ માં ફેલ થયો , પણ આ વખતે દેવ દુ:ખી ના થયો .. એણે દામીની સાથે આર્કીટેકચર બનવાની મહેનત ચાલુ રાખી , ને થોડાક વર્ષો માં બન્ને બહુ જ સફળ આર્કીટીયર બન્યા , બન્નેવ એ પોતાનું ઘર લીધું , પોતાના પરિવાર વાળાઓને મનાવ્યા ને લગ્ન પણ કર્યાં .. થોડાંક વર્ષો માં બન્ને નું એટલું મોટું નામ થયું કે , ઈન્ડિયન આર્મી માંથી આર્કીટીયર ની ડીઝાઈન બનાવવા માટે એમને મેઈલ આવ્યો .. ને એ દિવસે દેવ ને સમજાયું કે જો મહેનત ચાલુ રાખશો ને તો નામ , લક્ષ્ય , પ્રેમ , પૈસા ને સપનાંઓ બધું જ પૂરૂં થઈ જશે .. જો એ દિવસે દામીની એ રોક્યો ન હોત ને તો કદાચ બન્ને આત્મહત્યા કરી દેતા ને આમાંનું કશું જ ના થતું , પણ કહેવાય છે ને કે .. મહેનત ને પ્રેમ નું પરિણામ જરૂર થી મળે છે , તમારે બસ કરતાં રહેવાનું હોય છે ..

- Nayi Pratik, 190160106051, Civil Engineering Department

→ When I feel, "I am so alone in my life." Then....

:⤳ हाँ मुझको एक ऐसे साथ की जरूरत है।

जो मुझे कभी टूटने ना दे
जिंदगी से मुझे रूठने ना दे....
हर कीद छोड़ दे साथ मेरा
वो अपना हाथ छूटने ना दे....

हाँ मुझको एक ऐसे साथ की जरूरत है.....

जो मुझे कहे घबराना मत
जो कहे मुझसे हार जाना मत
दु:ख मिलेंगे तुमको हजारों अभी
आँखों में आँसू कभी लाना मत.....

हाँ मुझको एक ऐसे साथ की जरूरत है....

जो मेरे हारने पर भी मेरा हाथ थाम ले
मेरे दिलको दर्द बिना कहे पहचान ले
हो जाऊँ गुमनाम मैं इस दुनिया में
लेकिन वो बहुत प्यार से मेरा नाम ले....
हाँ मुझको एक ऐसे साथ की जरूरत है.....

:⤳ But I feel Relax When krishna said,

" कोई भी रिश्ता अपनी मर्जी से
नहीं जुड़ता क्योंकि
आपको कब, कहाँ, किससे मिलना है, सिर्फ
उपरवाला तय करता है "

⤳ @Mahaveer
Sinh_12

- Mahaveer Makwana , 200160109003, Electrical Engineering Department

Essay: "દેશ પ્રત્યે આપણું કર્તવ્ય"

દેશનો નાગરિક હોવાને કારણે મારી ફરજ બને છે, કે હું દેશના નિયમો અને કર્તવ્યોને નિષ્ઠાપૂર્વક નિભાવવા જોઈએ . એક નાગરિક દેશનો પ્રબળ સ્થાન છે. આ સ્તંભ ઉપર જ દેશ ટકી રહ્યો છે.

દરેક નાગરિકની જવાબદારી છે, કે તે તેના સમુદાયના માટે યોગ્ય ફરજો બજાવે અને આપણે જવાબદાર નાગરિક હોય ત્યારે તે સૂચિત થાય છે, કે તમે તમારી ફરજ ને પૂરતા પ્રમાણમાં જાણો છો અને સમુદાય અથવા સમાજ દ્વારા સામાન્ય રીતે આવશ્યક સંખ્યાબંધ વસ્તુઓ માટે સ્વયંસેવક બનવા જોઈએ.

ફરજો એ છે કે કાર્યો અથવા પ્રવૃતિ છે કે જે દરેક વ્યક્તિએ દેશના વિકાસ માટે દૈનિક ધોરણ કરવી જોઈએ દરેક ભારતીય નાગરિકની જવાબદારી છે, કે તેઓ નિષ્ઠાપૂર્વક પોતાની ફરજ નિભાવે અને તેઓ પણ દેશની આવશ્યક માંગ છે.

• દેશ પ્રત્યે મારું કર્તવ્ય

દેશનો નાગરિક એ છે, કે જેણે ફક્ત પોતાને જ નહીં પરંતુ તેના પૂર્વજોએ પણ લગભગ આખું જીવન તે દેશમાં વિતાવ્યું છે તેથી તેમની પાસે પણ દરેક રાષ્ટ્ર માટે અમુક ફરજો છે, જ્યાં જુદા જુદા સભ્યો સાથે રહે છે. તેમ છતાં દરેક ઘરના વડા ઘરના સારા અને શાંતિપૂર્વક જીવન માટે સૌથી મોટા સભ્ય દ્વારા બનાવેલા તમામ નિયમો અને નિયમોનું પાલન કરે છે ,તે જ રીતે આપણા દેશ પણ આપણા ઘર જેવો જ છે, જેમાં વિવિધ ધર્મના લોકો સાથે રહે છે. તેમ છતાં તેમણે દેશના વિકાસ માટે સરકારે બનાવેલા કેટલાક નિયમો અને કાયદાઓનું પાલન કરવાની જરૂર છે. દેશની ફરજો પ્રત્યે વફાદાર રહેવું જોઈએ.

➢ ખેલાડી : ખિલાડી એ તેમના દેશ માટે તેમની રમતો નિષ્ઠાપૂર્વક રમવી જોઈએ અને તેઓ દેશના ઘણા વિકસતા યુવાનો માટે રોલ મોડલ હોવાને કારણે કોઈપણ પ્રકારના ભ્રષ્ટાચાર અથવા મેચ ફિક્સિંગ જેવી ઘટનામાં સાથ આપવો જોઈએ નહીં. રમતવીર એ પોતાના દેશ માટે સારો એવો ફાળો આપવો જોઈએ અને પોતાના દેશનું નામ આગળ વધારવું જોઈએ.

➢ સામાન્ય નાગરિક: સામાન્ય નાગરિકો તેમના દેશ માટે વિવિધ રીતે ખૂબ જ વફાદાર હોય છે તેઓએ તેમની નિષ્ઠાવાન ફરજો સમજવી જોઈએ અને તેમના દેશને યોગ્ય દિશામાં દોરવા માટે એક સારા નેતાની પસંદગી કરવી જોઈએ. તેઓએ પોતાના ઘર અને આસપાસના વિસ્તારોને સુગંધ અને સ્વચ્છ બનાવવું જોઈએ, જેથી તેઓ સ્વસ્થ સુખી અને રોગોથી મુક્ત રહે તેવું કરવું જોઈએ. તેઓ શિસ્ત બાદ નિયમ વિષયક અને હંમેશા તેમની નોકરી પર એક મિનિટ મોડા ના આવે ત્યાં જ હોવા જોઈએ. જ્યાં તેઓ કોઈ પણ વ્યવસ્થા એમાં કામ કરે છે.

CREATIVE CORNER

➤ *ડોક્ટર* : દર્દીઓ માટે ડોક્ટર એ ભગવાન તરીકે માનવામાં આવે છે. કારણ કે તેઓ તેમનું નવું જીવન આપે છે. કેટલાક લોભી ડોક્ટરોને કારણે ઉચ્ચ તકને કે ઉપચાર દેશમાં ઉપલબ્ધ હોવા છતાં આપણા દેશમાં વિકાસ થયેલ નથી. ખૂબ જ ગરીબ હોવાથી તે તેમનો ઈલાજ કરાવી શકતા નથી અને જે નવી ટેકનોલોજી આવેલ છે તે ખૂબ જ ખર્ચાળ હોવાથી ગરીબ લોકો તેમના ઉપયોગ કરી શકતા નથી, અથવા તે મધ્યમ વર્ગના લોકો પણ તેનો ઉપયોગ કરી શકતા નથી કેટલી સરકારી તબીબો ડોક્ટર હોસ્પિટલમાં તેમની ફરજો સારી રીતે નિભાવતા નથી અને વધુ પૈસા કમાવવા માટે ઘણી જગ્યાએ તેમના વ્યક્તિગત રીતે જાય છે. દેશની અંદર સસ્તી કિંમત તમામ ખર્ચાળ સારવાર ઉપલબ્ધ કરવાની તેમની જવાબદારીઓએ તેઓને સમજવી જોઈએ ઉચ્ચ અભ્યાસ પછી તેઓ વિદેશ ન જવું જોઈએ. તેમ છતાં તેમના દેશમાં સારા વિકાસ માટે કામ કાર્ય કરવું જોઈએ.

➤ *શિક્ષક* : શિક્ષકનો મુખ્ય કર્તવ્ય છે કે તેમના વિદ્યાર્થીઓને ભવિષ્યમાં દેશના સારા અને સફળ નાગરિકો તરીકે બનાવીને તેમના દેશને સારું ભવિષ્ય આપવાનો મુખ્ય સ્ત્રોત તરીકે ની ભૂમિકા ભજવે છે. તેઓએ દેશ પ્રત્યેની તેમની ફરજો સમજી લેવી જોઈએ, અને તેમના વિદ્યાર્થીઓ વચ્ચે ક્યારેય ફરક ન બતાવવો જોઈએ દેશને સારા નેતાઓ અને ઉજવળ ભવિષ્ય આપવા માટે તેમણે તેમના બધા વિદ્યાર્થીઓને સમાન રીતે શીખવવું જોઈએ.

➤ *રાજકારણ* : દેશની સ્થિતિ તેના રાજકારણીય પર આધારિત રાજકારણો દેશમાં વિકાસમાં વિવિધ મહાન ભૂમિકા ભજવે છે. જ્યારે ભ્રષ્ટાચાર રાજકારણીય દેશનો નાશ કરી શકે છે. તેથી રાજ કારણીઓએ દેશ પ્રત્યેની તેની ફરજો ને સમજવી અને નિભાવી જોઈએ.

➤ *કર્મચારી :* શહેર રાજ્ય અને રાષ્ટ્રીય સ્તરે વિવિધ દેશમાં સુરક્ષા શાંતિ અને જાળવવા પોલીસને ફાળવવામાં આવે છે. તેઓ લોકોની આશા છે .તેથી તેઓ લોકોની સાથે સાથે દેશ પ્રત્યે પણ વફાદાર હોવા જોઈએ.

➤ *ઉદ્યોગપતિ :* પોતાના દેશ પ્રત્યેના ઉદ્યોગપતિ ની ફરજ એ છે,કે દેશોમાં અર્થવ્યવસ્થામાં સુધારો તેમ જ ગરીબી ઓછી થાય તે માટે દેશમાં વધુ રોજગારી ઊભી કરવી જોઈએ વિદેશમાં નહીં તેને ભ્રષ્ટાચાર જેવા ક્રૂર કાર્યમાં તેમણે સામેલ થવું જોઈએ નહીં અને પોતાના દેશમાં આગળ વધારવા માટે કાર્ય કરવું જોઈએ અને પોતાનો ફાળો આપવો જોઈએ

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