



NEWSLETTER 2021

COMPUTER ENGINEERING DEPT.

GEC, GANDHINAGAR





Message From Our Principal

Dear faculty, staff & students,

To those who see with loving eyes, life is beautiful.

To those who speak with tender voices, life is peaceful.

To those who help with gentle hands, life is full.



And to those who care with compassionate hearts, life is good beyond all measure!"

I Dr. Sweta P. Dave as the Principal of the prestigious educational organization, Government Engineering college of Gandhinagar, with a compassionate heart Invites you to have an Initial peak of our organization's vision & values. Government Engineering college Gandhinagar primarily stands to nurture the shelved potential hidden in the young talent. We intend to provide a platform to the students to let out their creativity and channelize their knowledge and young inspirational energy.

At GEC Gandhinagar, the joyful experience of academics and the energetic bursts of cocurricular activities Integrate to create an all-round experience for fellow students and attendees. Our highly qualified faculties and management makes sure our fellow students become capable to stand out of the competition in the outside world. We believe in not only educating but also empowering our students to make sure they feel like the representatives of our prestigious organization and create meaning experience for them during their time period at the college.

GEC Gandhinagar brings a holistic academic as well as a practical approach for the students to become compatible and knowledgeable to the market needs. And we believe In this statement a lot, our faculties are well qualified and trained to deliver the knowledge in a playful form and not letting students just to mug up.

At last, I want to convey that we focus on the overall development of our students. We also look after the staff members and the college resources to provide students with the highest quality of academics value. I will heartily invite you to join our prestigious organization and become part of our family.

Dr. Sweta Dave
 Principal of GEC, Gn

Message From Our HOD



The Department of Computer Engineering, established in 2004, has recorded a consistent improvement in its academic, research, and placement performance till now. I am elated to tell you that the department stands on the strength of experienced and well-qualified faculty who are very dedicated to teaching and also involved in the up-gradation of knowledge. Their research experience will help to cultivate the future of our students.

The B.E. Computer engineering program includes computer operations on different languages, data generation, collection and utilization of information.

The course imparts all the basics as well as the latest knowledge pertaining to the rapidly developing field of computers. The course is designed to keep students at pace with the practical field.

The mission of the department is to produce and impart theory, principles, practice, and know-importance of computing in the information age. This is required for the critical analysis, design, evolution, and improvement of the computing system in the context of computers and industry services.

To provide students with a strong foundation in the mathematical, scientific, and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies.

Design, development, testing, and evaluating computer based systems by applying standard software engineering practices and strategies in the area of algorithms, web design, data structure, and computer network are the Program-specific outcomes.

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About GEC, Gandhinagar

- Established in 2004, Government Engineering College, Gandhinagar (GEC-Gn) takes pride in its highly motivated students. Our students are life-long assets that help this institute to continuously evolve and work towards its Vision. Approved by AICTE.
- The College is administrated by Directorate of Technical Education, Gujarat State, Gandhinagar. GEC Gn is affiliated to Gujarat Technological University.
- GEC-Gn offers its students a wide range of courses to choose from. This helps them to become multi-skilled personalities who can handle the challenges that industry and society will pose before them as future engineers. Committed, to deliver excellence in everything that it does, our institute works towards reducing the gap between industry and education.
- GEC-Gn endeavors to educate its students in a manner that offers them an opportunity
 not only to excel in academics but to be completely aware of their future industrial needs
 for professional expertise through innovative and flexible curriculum. This trains the
 students of this campus to reach their highest potential.
- The highly dedicated faculty members of GEC-Gn are experts in their professional fields.
 Their professional skills and industry linkages help the students by grooming them to become competent engineers who will contribute to the society and economy in the long run.



About Computer Engineering Department

- Department of Computer Engineering is well posed to cater the needs of the course. It is
 equipped with well-developed laboratories to satisfy the course curriculum of various
 subjects related especially to the Computer field.
- The main backbone of the course is educating knowledge of computer and its engineering. Almost all fields are computerized to have ease of handling the problems of designing, manufacturing, maintenance, servicing, researching, marketing and accounting.
- The B.E. Computer engineering program includes computer operations on different languages, data generation, collection and utilization of information.
- The course imparts all the basics as well as latest knowledge pertaining to the rapidly developing field of computers. The course is designed to keep students in pace with the practical field.
- The mission of the department is to produce and impart theory, principles, practice and know-importance of computing in the information age.
- This is requires for the critical analysis, design, evolution and improvement of computing system in context of computers and industry services. It is our objective that students should be able to pursue advanced studies in computer engineering and information technology on a competitive universal basis.
- The college has well established computer labs which are facilitated with IBM, X series Xeon & dual processor Pentium servers, Compaq server and several hundred work stations connected in LAN & WAN.



Vision And Mission of Institute

Vision

- To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and environment.
- Important elements at the beginning. However, you don't have to do this for feature stories, where you're allowed to be more creative.

Mission

- To develop human potential to its fullest extent so that intellectual and innovative engineers can emerge in a wide range of professions.
- To advance knowledge and educate students in engineering and other areas of scholarship that will best serve the nation and the world in future.
- To produce quality engineers, entrepreneurs and leaders to meet the present and future needs of society as well as environment.



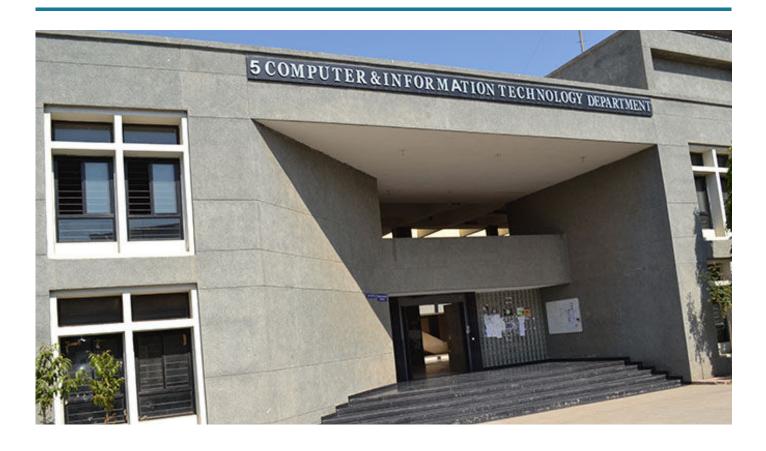
Government
Engineering
College, ,Sector-28
GIDC, Sector-28,
Gandhinagar,
Gujarat 382028



079 2321 5167



http://www.gecgh .cteguj.in/



Vision and Mission Of Department

Vision

 To achieve excellence for providing value based education in Computer Engineering through innovation, team work and ethical practices.

Mission

- To produce computer science and engineering graduates according to the needs of industry, government, society and scientific community.
- To develop partnership with industries, government agencies and R & D Organizations
- To motivate students/graduates to be entrepreneurs.
- To motivate students to participate in reputed conferences, workshops, symposiums, seminars and related technical activities.

"Education is the most powerful weapon you can use to change the world."

- Nelson Mandela.



Program Educational Outcome (PEO)

- To provide students with a strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies, R&D, consultancy and higher learning.
- To develop an ability to analyze the requirements of the software, understand the technical specifications, design and provide novel engineering solutions and efficient product designs.
- To provide exposure to emerging cutting edge technologies, adequate training & opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.
- To prepare the students for a successful career and work with values & social concern bridging the digital divide and meeting the requirements of Indian and multinational companies.
- To promote student awareness on the life-long learning and to introduce them to professional ethics and codes of professional practice

Programme Specific Outcomes

- By the completion of Computer Engineering program the student will have following Program specific outcomes.
 - Design ,develop, test and evaluate computer based systems by applying standard software engineering practices and strategies in the area of algorithms, web design, data structure, and computer network
 - Apply knowledge of ethical principles required to work in a team as well as to lead a team

Faculties of Computer Engineering Department



Dr. S.P. Dave

Let's bring a holistic academic as well as practical approach for the students to become compatible and knowledgeable to the market needs.

Dr. D.A. Parikh



An optimised learning is to solve the problem without any damage or wastage of resources.



Prof. J.S. Dhobi

Without following the solution procedure, how can anyone transform the question into the answer?

Prof. P.J. Patel



Life is the precious gift of a god. Live life in a way which differentiate you from the rest of animals. Try to understand the glory of the human life of what dignity you are supposed to live during your lifespan.



Dr. P.A. Barot

Operating system is an administrative bridge between the software and hardware.

Prof N.K. Prajapati



Hardware is a body with its strengths and weaknesses. A better body can perform better.

Faculties of Computer Engineering Department



Prof. N.S. Shroff

Making the machine to think and decide will help to improve the quality of human life.





To improve performance in less time theoretical understanding is



Prof. B.U. Ghadia

A Class is structural design of the Data-Type and procedure, while the Object is the memory occupied by the DATA Values.





Teaching is a discovery. When you discover something from students, you don't need to prove anything.



Prof. Hemani Shah

It's time that becomes the Teachers who can teach/train the machines.

Prof. Ashvin Prajapati



A Class is structural design of the Data-Type and procedure, while the Object is the memory occupied by the DATA Values.

Faculties of Computer Engineering Department



Prof. N.D. Shah

Always set a high milestone. Milestone will force you to come available/required in the market.

Prof. Nikhil Singh



It's time that becomes the Teachers who can teach/train the machines.



Prof. Hemani Shah

It's time that becomes the Teachers who can teach/train the machines.

Prof. Nitin Raval



To get employment, it is essential to learn the advanced skills



Prof. Yogendra Tank

Risk is everywhere if you notice. Once you have noticed there is no risk.

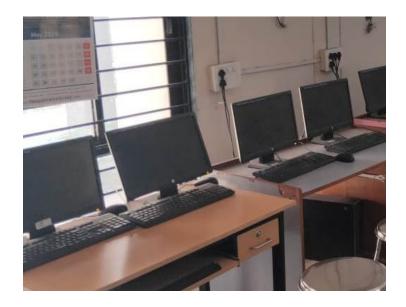
Mr. RAMIZ PARMAR



Ultimately success is up to you so believe in yourself first.

Infrastructure Details

Programming Lab



The laboratories are equipped with a number of desktop computers. software The current resources includes source open programming SDKs. The lab is used for the course subjects like C, C++ programming etc.

PG Research Lab

 The ability of a computer or other perform machine to those activities that normally are thought to require intelligence. The branch of computer science concerned with the development of machines having this ability. Early AI projects, such as playing chess and solving mathematical problems, are now seen as trivial compared to visual recognition, complex pattern decision making, and the use of natural language.



Infrastructure Details

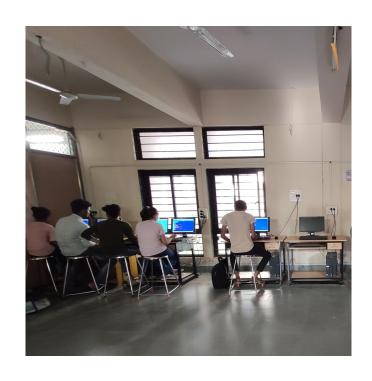
Database Lab



 A database management system (DBMS) is computer application software that provides a way to manage data. The requirement of modern days is to have automated system that manages, updates modifies and data accurately. This is achieved by a DBMS in robust, correct and non redundant way. DBMS lab aims at practicing and achieving this aim by using various software's such as SQL, ORACLE, and MS - Access etc

Application Development Lab

• Website Development includes both designing (front end user interface) and code development (back end) including database management and dynamic functionality of website as per the user actions. Although we work with various tools/languages to achieve this functionality such as - ASP.NET, PHP, JSP but we primarily focus on .NET.



Infrastructure Details

Network Lab



 Networking is a key area in the field of computers that deals with the physical connectivity of computers which is monitored by а combination of special hardware software.The and course provides curriculum from the coverage of basics to advanced applications and services, while providing a platform for hands-on practical experience and soft-skills enhancement

OOP LAB

 The laboratory is equipped with a number of desktop computers. The current software resources include a number of Object Oriented Programming SDKs, Integrated Development Environment like Eclipse, EditPlus etc. and Object Oriented Software Engineering tools



NPTEL Swayam Local Chapter - GEC-Gn

- We are pleased to inform you all that our institute is now a part of SWAYAM NPTEL Local Chapter. Our NPTEL Local chapter id is 4181.
- Swayam portal facilitates hosting of all the courses, taught in classrooms from Class 9 till post-graduation to be accessed by anyone, anywhere at any time. All the courses are interactive, prepared by the best teachers in the country and are available, free of cost to any learner. More than 1,000 specially chosen faculty and teachers from across the country have participated in preparing these courses.
- The courses hosted on SWAYAM are in 4 quadrants (1) video lecture, (2) specially prepared reading material that can be downloaded/printed (3) self-assessment tests through tests and quizzes and (4) an online discussion forum for clearing the doubts.
- Please visit https://swayam.gov.in/about for more details
- Please visit https://nptel.ac.in/Brochures/ for available courses, offered by SWAYAM NPTEL.

NPTEL Swayam Local Chapter - GEC-Gn

			Details on SWAYAM-NPTEL Lo	cal Chapters			
List of SWAYAM-NPTEL Local Chapter				Rating of Local Chapter			
Show 10 v entries						Search: 4181	
College Name	LC Id	Status	Address	State Name	SPOC Name	SPOC onboarded	Co- ordinated By
GOVERNMENT ENGINEERING COLLEGE, GANDHINAGAR	4181		NR-ANIMAL VACCINE INSTITUTE, SECTOR-28, GANDHINAGAR, GUJARAT 382028 GANDHINAGAR-382028 GUJARAT	GUJARAT	ASHVINKUMAR RAMESHBHAI PRAJAPATI	onboarded	IIT BOMBA



Petron Dr. Sweta P. Dave



(HOD/Senior Advisor) Dr. Dhaval Parikh



Prof. Ashvin Prajapati (Sem 6)

Faculty Activities

- Prof. B.U. Gadhia, Prof. N.D. Shah had attended FDP on Inculcating Universal Human Values in Technical Education organized by AICTE
- Prof V.R.Patel and Y.P.Tank had attended FDP on Inculcating Universal Human Values in Technical Education organized by AICTE
- Prof N.S.Shroff had attended FDP on PhpMySQL organized by IIT Bombay
- Dr. Pinal J. Patel attended FDP on "Security and Privacy: Trends and Directions", 28-4-2021 to 4-5-2021
- Dr. Pinal J. Patel Attended Training on Gujarat State Wide Indicator Frame work Tool (GSWIFT), 23-3-2021 to 25-3-2021
- Dr. Pinal J. Patel attended training on mobile and cloud security : challenges and directions, 3/6/2021 to 9/6/2021
- Expert Talk by Dr. Pinal J. Patel on "Hands-on Machine Learning with Python" on 24th February, 2021 sponsored by GUJCOST
- Dr. Pinal J. Patel published research paper on " brain Tumor Detection and Segmentation"

Student Activities

"SMART HACKS – 2020-21"

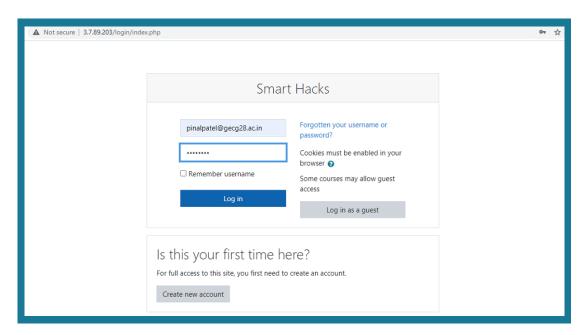
Date: 8th January, 2021Time: 10 a.m. to 10 p.m.

Head of the department:

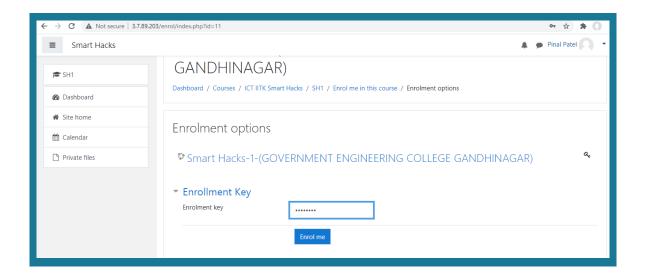
Dr. D.A. Parikh

Coordinators of this event:

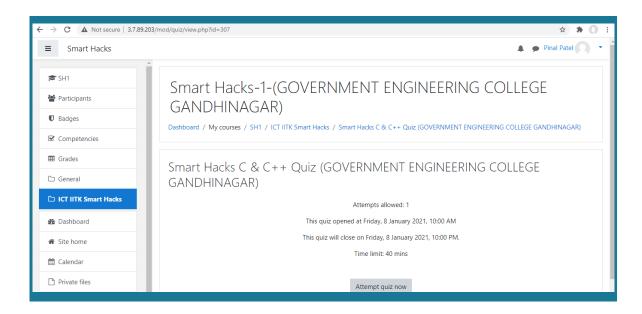
- Dr. Pinal J. Patel Assistant Professor, CE Dept. GEC Gn (pinalpatel@gecg28.ac.in)
- Prof. Ashvin Prajapati Assistant Professor, CE Dept. GEC Gn (ashvinkumar@gecg28.ac.in)
- Online Programming Quiz "SMART HACKS 2020-21" that EICT Academy- IIT, Kanpur has organised at various colleges across the country. Our prestigious institution participated in this event. It was a two-stage competition based on coding and was meant for the students. The purpose of it was to evaluate the students' competence in basic programming skills.



• "SMART HACKS - 2020-21"

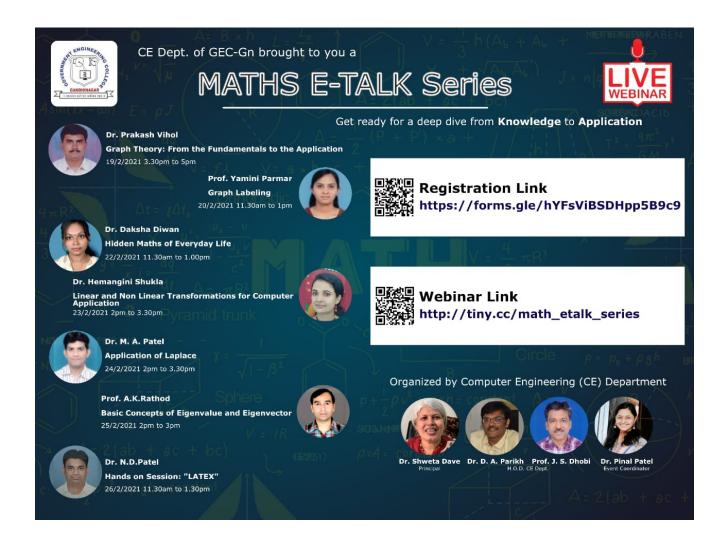






MATHS E-TALK SERIES By Dr. Pinal J. Patel (Total 7 Talks by Experts)

• Date: 19 - 26 February 2021



Student coordinator





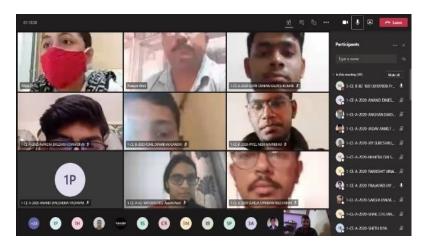


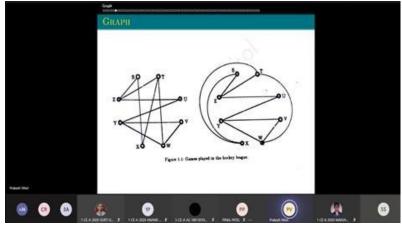
Akhil Jethva



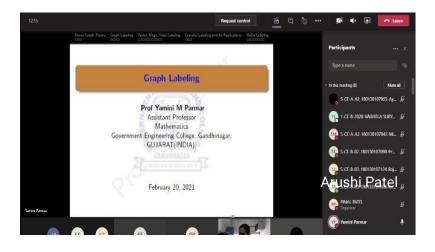
Pratik Shah

- MATHS E-TALK SERIES By Dr. Pinal J. Patel (Total 7 Talks by Experts)
 - Day 1: Graph Theory: From Fundamentals to the Application





• Day 2: Graph Labeling



MATHS E-TALK SERIES By Dr. Pinal J. Patel (Total 7 Talks by Experts)

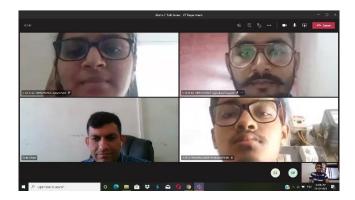
• Day 3: Hidden Maths of Evreyday



• Day 4: Linear and Non Linear Transformation for Computer



• Day 5: Application of Laplace



• Day 6: Basic Concept of Eigenvalue and Eigenvector



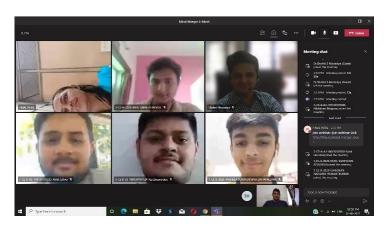
- MIND MERGER E- MEET by Dr. Pinal J. Patel (Total 7 Talks by Experts)
 - Date: 1 6 MARCH 2021



Day 1: Application of material science in computer engineering



Day 2: Hands on session: Micro strap patch antenna design using simulator



• MIND MERGER E- MEET by Dr. Pinal J. Patel (Total 7 Talks by Experts)

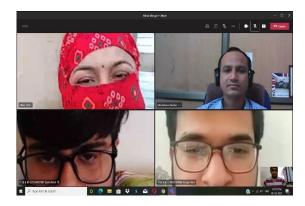
Day 3: Spectrum sensing techniques in cognitive radio



Day 4: VLSI: from introduction to application



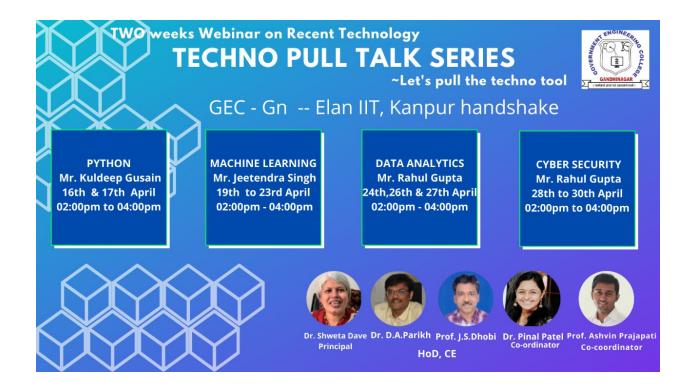
Day 5: Recent trends in wireless network

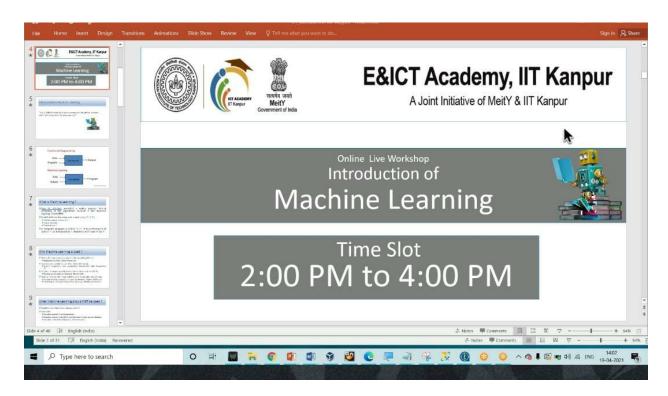


Day 6: Hands on session: Microcontroller Interfacing

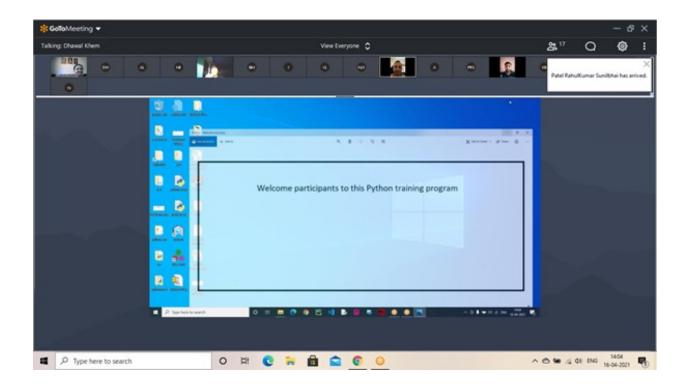


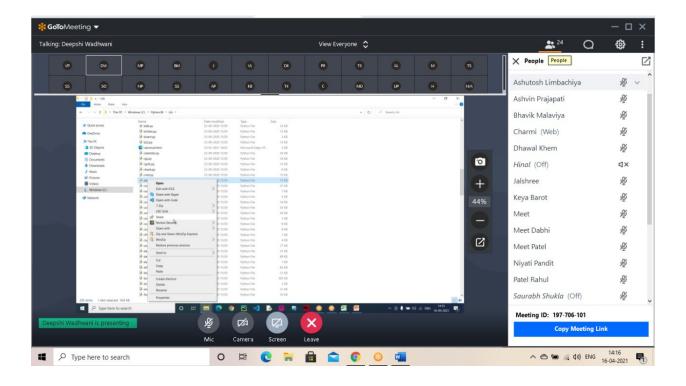
 Techno Pull Talk Series - Let's pull the techno tool (GEC-Gn - IIT Knapur Handshake) by Dr. Pinal J. Patel, Prof. Ashwin Prajapati ,Total 3 talks by experts



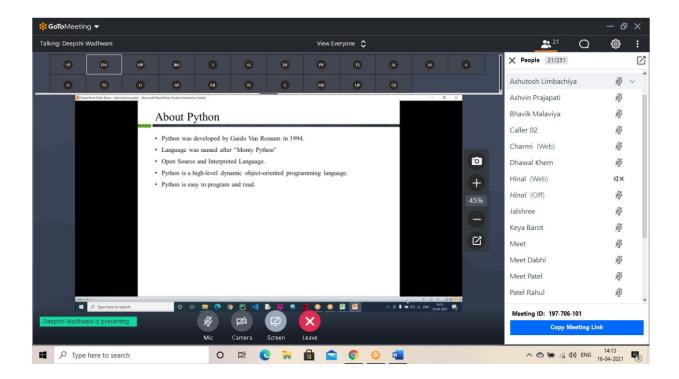


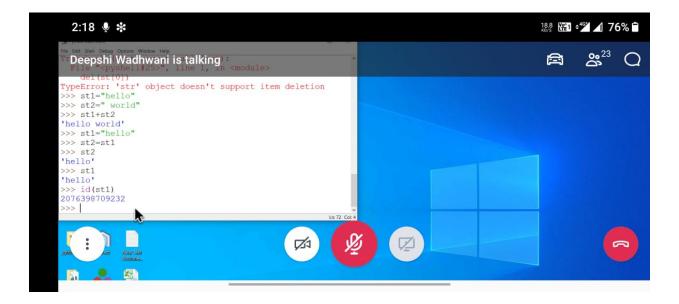
 Techno Pull Talk Series - Let's pull the techno tool (GEC-Gn - IIT Knapur Handshake) by Dr. Pinal J. Patel, Prof. Ashwin Prajapati ,Total 3 talks by experts





 Techno Pull Talk Series - Let's pull the techno tool (GEC-Gn - IIT Knapur Handshake) by Dr. Pinal J. Patel, Prof. Ashwin Prajapati ,Total 3 talks by experts





• Artificial Intelligence: All new digital future

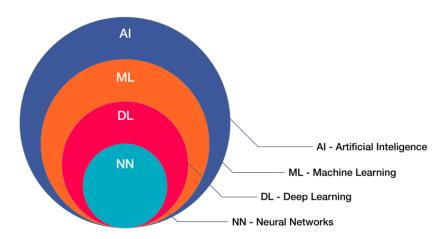


What is Artificial Intelligence?

- Artificial intelligence is a branch of computer science that aims to create intelligent machines. It has become an essential part of the technology industry.
- Research associated with artificial intelligence is highly technical and specialized. The core problems of artificial intelligence include programming computers for certain traits
- Such as:
 - Knowledge
 - Reasoning
 - Problem solving
 - Perception
 - Learning
 - Planning
 - Ability to manipulate and move objects

· Artificial Intelligence: All new digital future

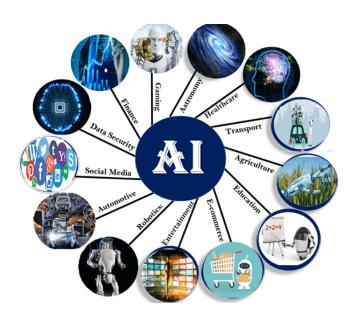
Sub fields of Al



- Like humans, AI systems aren't born perfect. They have to learn and adapt, and all of that is done just like how humans learn and adapt: by taking in information, or data, processing it, and storing it for future reference. It's like when a young kid touches a hot stove. Their brain registers the pain and makes note to not do it again. AI isn't much different.
- Digging in deeper, AI itself is actually the largest and outermost circle in a series of four concentric circles. The next circle nested within AI is ML, or Machine Learning. ML is, unsurprisingly, the learning part of AI, but ML is itself reliant on the next circle within it, or Deep Learning (DL). But it doesn't stop there, the fourth and innermost circle, and the one that every other circle is counting on, is the idea of Neural Networks.
- Every part of AI is inspired by the human mind, but Neural Networks are
 the most clear and tangible application of that thinking. A functioning
 human brain is so impressive because it is made of lots of things that
 have simple jobs, but layers them together to make big things happen.
 The brain has billions of neurons that are linked together by trillions of
 synapses. The sheer scale of the operation makes it very difficult to
 replicate, but that's exactly what scientists, mathematicians, and
 experts are trying to do through Neural Networks.

• Artificial Intelligence: All new digital future

Applications of Al



- AI in healthcare
- Al in business
- Al in education
- Al in finance
- Al in law
- · Al in manufacturing
- Al in banking
- Al in transportation
- Security

• How can AI be dangerous?



 Most researchers agree that a super-intelligent AI is unlikely to exhibit human emotions like love or hate, and that there is no reason to expect AI to become intentionally benevolent or malevolent. Instead, when considering how AI might become a risk, experts think two scenarios most likely:

- · Artificial Intelligence: All new digital future
 - 1.The AI is programmed to do something devastating: Autonomous weapons are artificial intelligence systems that are programmed to kill. In the hands of the wrong person, these weapons could easily cause mass casualties. Moreover, an AI arms race could inadvertently lead to an AI war that also results in mass casualties. To avoid being thwarted by the enemy, these weapons would be designed to be extremely difficult to simply "turn off," so humans could plausibly lose control of such a situation. This risk is one that's present even with narrow AI, but grows as levels of AI intelligence and autonomy increase.
 - 2.The AI is programmed to do something beneficial, but it develops a destructive method for achieving its goal: This can happen whenever we fail to fully align the AI's goals with ours, which is strikingly difficult. If you ask an obedient intelligent car to take you to the airport as fast as possible, it might get you there chased by helicopters and covered in vomit, doing not what you wanted but literally what you asked for. If a super-intelligent system is tasked with a ambitious geoengineering project, it might wreak havoc with our ecosystem as a side effect, and view human attempts to stop it as a threat to be met.
- As these examples illustrate, the concern about advanced AI isn't malevolence but competence. A super-intelligent AI will be extremely good at accomplishing its goals, and if those goals aren't aligned with ours, we have a problem. You're probably not an evil ant-hater who steps on ants out of malice, but if you're in charge of a hydroelectric green energy project and there's an anthill in the region to be flooded, too bad for the ants. A key goal of AI safety research is to never place humanity in the position of those ants.

- By Suryadipsinh Vaghela Computer Engineering

• AR/VR



- Today's world everyone has heard AR/VR or immersive technologies. Now Let us Understand what is AR/VR and Immersive technologies and what does it include. VR is called Virtual Reality and it emerges us in a new virtual world that is completely different from our real-life or say real world. The first VR device was Sensorama and it was the earliest stage of VR. Today VR works on HMD i.e. Head Mounting Model and we can perform things beyond our imagination using VR.
- Today VR is used by connecting the high power processor with HDM instruments which is non-portable and also there is another way that connecting your mobile phone with HDM instruments which is covenant and portable also.



- This device can only give us a streaming experience and a pre-defined view. However, connecting it with the motion trackers and AI will make it user-defined which will provide a great experience to the user. These motion tracking devices are omnidirectional treadmills, joysticks, hepatic gloves, full VR body suits such as Tesla Suit. These all devices are at the early stage of their development and one more problem with it is we humans feel motion sickness and that cannot be solved using these devices. However, a Chinese company has launched the project of a customer-centered VR treadmill called CatWalk C and they claim that it tracks all the movements of the user and will provide a great user experience of gaming and many other fields.
- AR is called Augmented Reality which can be said that mixing or augmenting virtual objects in the real life. This provides users with a great experience of the respective business. In today's world AR is more popular and widely used because it can be used within your device only whether it can be your laptop, mobile, or tablet. A general example of AR is Instagram filters which we use that is mixing of a layer with the real-world face. AR is also used in defence areas where Air Force pilots are given helmets in which they can easily detect and attack another aircraft or drone and which helps them to react easily and fast to the enemy's move. This indicates how much AR is used from we using filters for no such reason to the defence pilot operating the attacking system.
- Smart Glasses will exactly look like normal glasses we wear but they will be connected to powerful processors and sensors that will create virtual objects for us. AR glasses will include layers in which projections of the object will be made at a certain angle and that will directly hit our rating without causing any strain. It can be also mixed with movement trackers which will take our work and user experience to next level.

AR/VR

- There is a third term included in immersive technologies that is Mixed-Reality and we can say that MR is the combination of AR and VR in which a person can interact with virtual objects of the real world. MR improves working with AR and VR both and which is in an early stage of its development and Microsoft is coming with its glasses called Hololens.
- Immersive Technologies are not only affecting the Tech industry but also have a large impact on the media and graphics industry. Where you can watch the first-person view of your favourite movie character and using Al films can be created in a single room only without investing in locations. Also to give a great experience to the user a real-world graphics have to be more precise and realistic. Graphics are the only components to achieve a full in-depth immersive experience.
- This was about how AR/VR is used and what it can do now you might get a thought that it all was for users what about developers?..... The answer is to deal with AR/VR you need to know multiple technologies based on Graphics and programming Let's discuss them
- You need to know the basics of a programming language and also the libraries of that language.

1. Software Development:-

 You are going work on devices and systems where you need to connect the real world with the virtual or create a virtual world to do so you need to know Software Development as well. Also, you will be using software development kits for AR/VR, and for that knowledge of SD is important.

2. Machine Learning / Artificial Intelligence :-

 Every time your device gets any situation you want to make it react or create an object automatically for that ML/AI is the key.

AR/VR



3.SDKs for AR and VR:-

SDKs means Standard Development Kits for AR. They are pre-defined frameworks and they are like ARkit, RealityKit, etc. For VR every headset has its own so you need to learn different frameworks for different headsets

4. Game Engines:-

 Either it is AR or VR Game engines are going to be used and for that, you need to learn any of the following but based on the programming language you know there can be a better choice like Unity used C# and Unreal used C++ these are two popular engines. You can choose differently if you want.

5. Graphics and Designing:-

- This is a whole different area than development or programming. It includes 3D-Modelling, 3D Animations using apps like Blender.
- It also includes UI/UX designing which is quite different from normal UI/UX designing and which includes 3D designing also.
- Here you also need to know graphics rendering using computer graphics-based languages.
- This XR Industry is growing exponentially year by year and has a very bright future and also great inventions are to be done in the industry.

Placements Activities

- CE/IT dept did Placement Process for Simplilearn, eDelta and Velox Core.
- CE/IT dept did Placement Process for Argusoft, ICT infracon, Xceltech and Plushive.
- Started Placement Process for Sterlite, Abyojanand, Neosoft, and Infostrech.
- Started Placement Process for Teksun, Congo and Envision Infotech Solutions.
- Started Placement Process for Maruti Techlabs.
- Started Placement Process for Argusoft and The One.
- · Conducted meeting regarding placement."

Placements Awareness



1. Title of the Programme: Online Alumni Meet 2021

2. Category : Alumni meeting and Expert Talk

3. Date/s and Duration: 11th April 2021 From 09:00AM To 12:00PM

4. Venue : Virtual Meeting on Microsoft Team Platform

5. Alumni speaker / Expert :

Talk Timing	Speaker Name	Speaker Details
9.00 AM to 12.00 PM	Mr. Yash Shah GECG CE BE student (2012-2016)	Sr.Security Engineer ,BAELLE Technologies,USA
	Kum. Malti Devnani GECG IT Student (2011-2015)	Compusense Front End Developer Canada
	Mr.Kaitav Mehta GECG CE Student(2012-2016)	Data Engineer Canada

6. Program Summary:

- The Department of Computer Engineering and Information Technology had organized an alumni meeting for all batches on 11th April 2021 on the Microsoft Team Platform. The meeting started at 09.00 a.m. with a prayer. Dr D A Parikh, HOD, Department of CE/IT welcomed the gathering. He handed over to Prof. D P. Khem, Prof. C. M. Kapadia and Akul Upadhyay (Student). They compered the program.
- Expert talks on different topics were delivered by alumni experts. Below are the statistical detail of the alumni from all batches, students and faculties who had worked here are participated in the event.

Online Alumni Meeting 2021 11-4-2021, 9:00AM to 12:00PM (IST) Attendees				
Sem-4	68	28		
Sem-6	36	20		
Sem-8	16	40		
ME	5			
Alumni Joined	24			
Faculty Joined	21			
Total		258		

 The alumni students and staff shared their memories, most of them volunteered to render services for the benefit of the current students of CE/IT departments. The event was stimulating and enjoyable and simultaneously profitable as all insights came up.

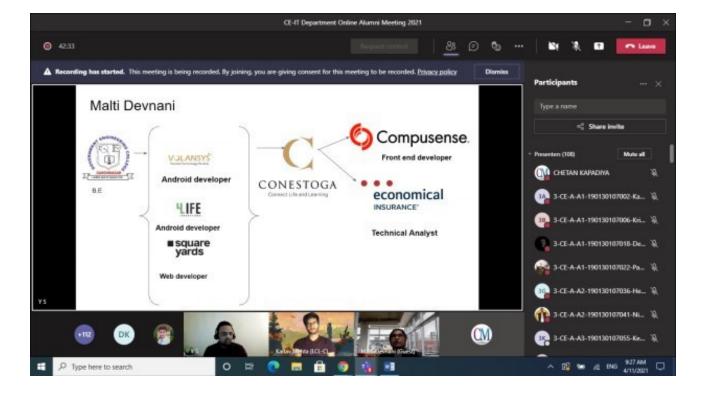
 At the end, the CE/IT alumni coordinators sincerely expressed its gratitude to the honorable Principal Madam and Head of CE/IT Department for their guidance and support to make this event a grand success and thanks to Prof. B. V. Buddhadev, Prof. J S Dhobi, all Faculties, Staff Members and Alumni for attending Alumni Meet and contributing towards making it such an unforgettable holiday.

7. Some Images of Alumni Meeting:



7. Some Images of Alumni Meeting:





7. Some Images of Alumni Meeting:





• The IDE Club Faculty Coordinators



Petron Dr. Sweta P. Dave



(HOD/Senior Advisor) Dr. Dhaval Parikh

Faculty Coordinator



Prof. Yogendra Tank (Sem 4)



Prof. Ashvin Prajapati (Sem 6)

• The IDE Club Student Coordinators



Param Radadiya (CE-Sem 5) President



Pooja Ranpara (CE-Sem 5) Vice President



Keyur Unadkat (CE-Sem 5) Secretary



Senior Student Chair Nigam Patel (IT-Sem



Senior Student Chair Akul Upadhyay (IT-Sem 7)



Documentation Head Bhakti Trivedi (CE-Sem 5)



Event Head Shubham Jitiya (CE-Sem 5)



Web Development Group Lead Akshat Shah (CE-Sem 5)



Android Development Group Lead Hiren Pokar (CE-Sem 5)



Entrepreneurship/Start -Up Group Lead Naresh Purohit (CE-Sem 5)



AI ML Group Lead Krutik Patel (IT-Sem 5)



Comp Prog. Group Lead Divyesh Vyas (CE-Sem 5)



A club by the students and for the student.

 The students felt a need of setting up a community wherein they can discuss, share and collaborate on co-curricular activities. So, The IDE Club was set up with the help of faculties and students. In this club, many activities are held every week such as webinars, discussion sessions, coding contests etc.

Vision & Mission of The IDE Club:

Vision:

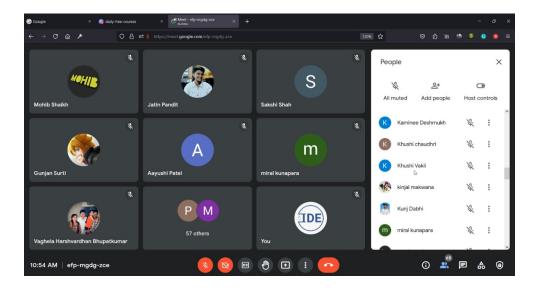
• To develop competencies in the field of technology among the students and help them get deeper dive in the field of research and entrepreneurship.

Mission:

- To enlighten the students with the topics and depth details of the leading and advancing technical concepts.
- To establish an environment where students can explore and replenish their technical abilities and skills and improve and learn unique concepts about various technologies through our club/ community.
- To motivate students to participate in various conferences, workshops, seminars and related technical activities.
- To help/motivate students for their idea and implement it into the real product.

 On 29th May 2021, we conducted the first session to discuss club activities and introduced the club coordinators. There were around 180+ attendees including students and faculties. After the session, we started a discord server for students who are willing to become members of the club. As of today, we have 200+ members on the discord server who are actively participating in club activities.

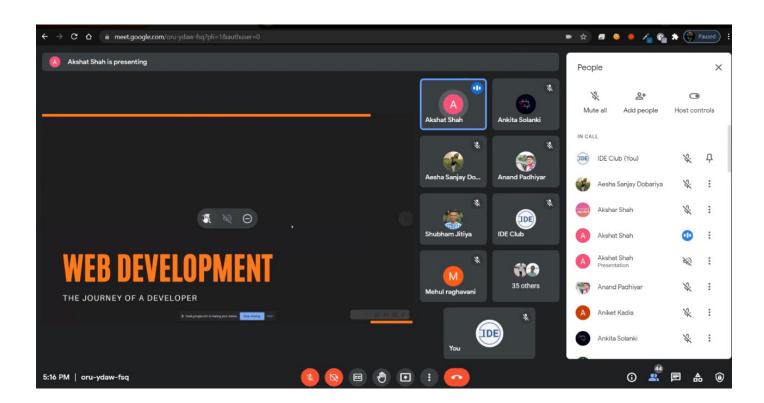




 In the first week, we conducted webinars to introduce the club groups. In these sessions, students were given a brief idea about each domain. This helped students to decide whether to join a specific group or not.

- In this club, we have created domain specific groups:
 - Web development
 - Android development
 - Entrepreneurship/Start-Up
 - Artificial Intelligence/ Machine Learning
 - Competitive Programming
- These groups are led by their respective tech leads and students under the guidance of them can learn and master the specific domain seamlessly.

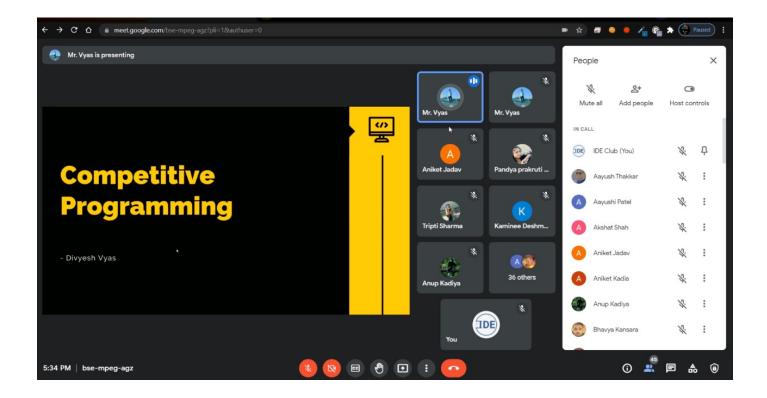
Web development



AI/ML ROADMAP



COMPETATIVE PROGRAMMING





On 11th July, we conducted a national level coding contest- CODE SPRINT

 There were students from different colleges. It was hosted on codechef to introduce students to competitive programming. Students participated enthusiastically and an atmosphere of healthy competition was set up. There were around 185 registered participants from various institutes and 31 successfully submitted the solution.

Winners list:

- Club Member

Jevin mangukiya(GECGn)

- Out side college

Sahil Madani (VGEC)

Anjali Shah (Nirma University)

- We were extremely happy to receive such a good response Join the very first contest. Jevin Mangukiya emerged as the winner from our college.
- We would like to thank principal mam for helping and allowing us to set up
 The IDE Club. We would also like to thank faculty coordinators for helping
 us in club activities

Creative Corner

ह्यंडई मोटर इंडिया फाउंडेशन द्वारा आयोजित एच-सोशल क्रिएटर २०२० के टॉप ११ फाइनलिस्ट में चुने गए वलसाड के श्री सानिध्य सूर्यकांत पटेल

वलसाड, २६ मार्च, २०२१ ऱ्ह्यंडई मोटर इंडिया लिमिटेड की सीएसआर इकाई ह्यंडई मोटर इंडिया फाउंडेशन (एचएमआईएफ) ने वैश्विक स्तर पर प्रतिष्ठित एच-सोशल क्रिएटर के दूसरे संस्करण के फाइनल का आयोजन किया, जिसमें वलसाड के एक छात्र ने अपना आइडिया पेश किया। एच-सोशल क्रिएटर एक सोशल इनोवेशन प्रोग्राम है, जिसकी शुस्थात सडक सुरक्षा, पर्यावरण, स्वच्छ भारत एवं स्वास्थ्य के क्षेत्र में इनोवेटिव आइडिया दे सकने वाली युवा प्रतिभाओं को बढावा देना है। ११ फाइनलिस्ट आइंडिया में श्री सानिध्य सूर्यकांत पटेल ने अपना आइडिया 'ड्राइवर ड्रोजीनेस मॉनिटरिंग टेक्नोलॉजी 'पेश किया इस आइडिया में एक टेक्नोलॉजी आधारित डिवाइस का इस्तेमाल किया जाता है, जो इस बात का आभास होते ही अलार्म बजा देता है कि डाइवर को झपकी आ रही है। बहुत सी सडक दुर्घटनाएं ऐसी गलतियों के कारण होती हैं। इस टेक्नोलॉजी से सड़क सुरक्षा सुनिश्चित होगी। इस आइडिया को ज्यरी के सदस्यों और 'एच-सोशल क्रिएटर अवाडरस' के फाइनल के दौरान उपस्थित रहे लोगों से काफी सराहना मिली।

હ્યુંડઈ मोटर ઈન્ડિયા ફાઉન્ડેશન द्वारा આચોજિત એચ-સોશિયલ ક્રિએટરના ટોપ ૧૧ ફાઇનલિસ્ટ પસંદ પામ્યા વલસાડનાસાનિધ્ય સર્ચકાંત પટેલ

૧૧ ફાઇનલિસ્ટ આઇડિયામાં શ્રી સાનિધ્ય સૂર્યકાંત પટેલે પોતાનો આઇડિયાજડાઇવર ડોઝીનેસ મોનિટરિંગ ટેક્નોલોજી રજ કર્યો. આ આઇડિયામાં એક ટેક્નોલોજી આધારિત ડિવાઇસનો ઉપયોગ કરવામાં આવે છે. જે એ બાબતનો આભાસ થતાં જ અલાર્મ વગાડે છે કે ડ્રાઇવરને ઝોકું આવી રહ્યું છે. ઘણા બઘા બદલાવ માટે આઇડિયા તૈયાર ખાતરી થશે. આ આઇડિયાને કરવાનો છે. જયૂરીના સભ્યો અને એચ-ક્રોશિયલ ક્રિએટર અમે ગર્વમેન્ટ એન્જિનીયરિંગ એવોર્ડસ ની ફાઇનલ કોલેજ, ગાંધીનગર, ગુજરાતના દરમિયાન ઉપસ્થિત રહેલા શ્રી સાનિધ્ય સૂર્યકાંત પટેલને લોકોમાં ભારે પ્રશંસા મળી

એમડી તથા સીઈઓ શ્રી ટોપ ૧૧ ફાઇનલિસ્ટમાં પોતાનું એસ.એસ.કિમે જણાવ્યું, પ્રોપ્રેસ સ્થાન બનાવ્યું. તમામ ફૉર હ્યુમેનિટીના પોતાના પ્રતિસ્પર્ધીઓનો ઉત્સાહ અને લોકોના સપનાઓને સાકાર કરવાની દિશામાં પોતાનો નિર્માણની દિશામાં કામ કરી ધગશથી એક શ્રેષ્ઠ દુનિયાનું રહ્યાં છીએ. એચ-સોશિયલ નિર્માણ થશે ક્રિએટરની બીજી આવૃત્તિની સાથે હ્યુંડઈ મોટર ઇન્ડિયા સોશિયલ ક્રિએટરની સ્થાપના ફાઉન્ડેશનનું લક્ષ્ય ભારતના એક એવા પ્લેટફોર્મના રૂપમાં યુવાઓ તથા ભવિષ્યની કરી છે જે યુવાઓને



માર્ગ અકસ્માત આવી ભૂલોના કરવા, તેને ડેવલપ કરવા અને કારણે થાય છે. આ તેમનું વ્યવહારિક સમાધાન ટેક્નોલોજીથી માર્ગ સુરક્ષાની લાગૂ કરવાની દિશામાં પ્રયત્ન

૨૦૨૦માં ગ્રાંડ ફિનાલેના આઇડિયા આપીને એચ-કરવામાં શ્રેષ્ઠ પરિસ્થિતિઓના સર્વશ્રેષ્ઠ પ્રયત્ન કરવાની તેમની

એચએમઆઈએફએ એચ-

લાવવાની દિશામાં પ્રોત્સાહિત ક્રિએટરની બીજી આવૃત્તિમાં ૨૦૦ એજયુકેશન શ્રી કિમે આગળ જણાવ્યું, ટેક્નિકલ સંસ્થાઓમાંથી વર્ચ્યઅલ માધ્યમથી ૫૨૦થી વધુ રજીસ્ટ્રેશન મળ્યા.

૪૦૧ એન્ટ્રીમાંથી ૧૩૫ અભિનંદન પાઠવીએ છીએ, એન્ટ્રી માર્ગ સુરક્ષા, ૧૧૬ એચ-સોશિયલ ક્રિએટર જેઓએ સામાજિક બદલાવનો પર્યાવરણ ક્ષેત્રમાં, ૧૦૧ સ્વાસ્થ્યની કેટેગરીમાં અને ૪૯ પ્રસંગ પર એચએમઆઈએલના સોશિયલ ક્રિએટર ૨૦૨૦ના એન્ટ્રી સ્વચ્છ ભારત કેટેગરીમાં આવી. તેની સાથે, તમામ પ્રતિસ્પર્ધીઓના પ્રશ્નોના જવાબ આપવા માટે એક સમર્પિત કોલ લક્ષ્યને અપનાવતા અમે નવા આઇડિયાને વિકસિત સેંટર પણ સ્થાપિત કરવામાં આવ્યું હતુ. એચ-સોશિયલ ક્રિએટર

૨૦૨૦ માટે વિજેતાઓની પસંદ કરનારા સમ્માનિત જયૂરીની સભ્યો અને હસ્તિઓની પાસે માર્ગ સુરક્ષા, સ્વાસ્થ્ય, પર્યાવરણ, ટેક્નોલોજી સસ્ટેનેબિલિટીના ક્ષેત્રમાં વર્ષોનો આગામી પેઢીને સામાજિક સમસ્યાઓનો ઉકેલ શોધવા અનુભવ એક વિશેષજ્ઞતા છે.

ह्युंडई मोटर इंडिया फाउंडेशन द्वारा आयोजित एच-सोशल क्रिएटर 2020 के टॉप 11 फाइनलिस्ट में चुने गए वलसाड के सानिध्य सूर्यकांत पटेल

लोकतेज संवाददाता, सूरत। ह्यूंडई मोटर इंडिया लिमिटेड की सीएसआर इकाई ह्युंडई मोटेर इंडिया फाउंडेशन (एचएमआईएफ) ने वैश्विक स्तर पर प्रतिष्ठित एच-सोशल क्रिएटर के दूसरे संस्करण के फाइनल का आयोजन किया, जिसमें वलसाड के एक छात्र ने अपना आइंडिया पेश किया। एच-सोशल ऋिएटर एक सोशल इनोवेशन प्रोग्राम है, जिसकी शुरुआत सड़क सुरक्षा, पर्यावरण, स्वच्छ भारत एवं स्वास्थ्य के क्षेत्र में इनोवेटिव आइंडिया दे सकने वाली युवा प्रतिभाओं को बढ़ावा देना है। 11 फाइनलिस्ट आइडिया में श्री सानिध्य सर्यकांत पटेल ने अपना आइडिया 'ब्राइवर ड्रोजीनेस मॉनिटरिंग टेक्नोलॉजीं' पेश किया इस आइंडिया में एक टेक्नोलॉजी आधारित डिवाइस का इस्तेमाल किया जाता है, जो इस बात का आभास होते ही अलार्म बजा देता है कि ड्राइवर को झपकी आ रही है। बहुत सी सड़क दुर्घटनाएं ऐसी गलतियों के कारण होती हैं। इस टेक्नोलॉजी से सड़क सुरक्षा सुनिश्चित होगी। इस आइंडिया को ज्यूरी के सदस्यों और 'एंच-सोंशल क्रिएटर अवार्ड्स' के फाइनल के दौरान उपस्थित रहे लोगों से काफी सराहना मिली। एच-सोशल क्रिएटर 2020 के ग्रैंड फिनाले के मौके पर एचएमआईएल के एमडी व सीईओ श्री एस. एस. किम ने कहा, %प्रोग्रेस फॉर ह्युमैनिटी के अपने लक्ष्य को अपनाते हुए हम लोगों के सपनों को सच करने के लिए बेहतर परिस्थितियों के निर्माण की दिशा में काम रहे हैं। एच-सोशल क्रिएटर के दूसरे संस्करण के साथ ह्युंडई मोटर इंडिया फाउंडेशन का लक्ष्य भारत के युवाओं व भविष्य की अगुआ पीढ़ी को सामाजिक बदलाव के लिए आइंडिया तैयार करने, उसे डेवलप करने और उनका व्यावहारिक समाधान लागू करने की दिशा में प्रयासरत करना है।

વલસાડનો સાંનિધ્ય પટેલ હ્યુંડઈ મોટર ઈન્ડિયા ફાઉન્ડેશન દ્વારા આચોજિત એચ-સોશિયલ ક્રિએટરનો ટોપ ૧૧ કાઇનલિસ્ટ

વલસાડઃ હ્યુંડઇ મોટર ઇન્ડિયા લિમિટેડના સીએસઆર એકમ હ્યુંડઇ મોટર ઈન્ડિયા ફાઉંડેશન (એચએમઆઈએફ)એ વૈશ્વિક સ્તર પર પ્રતિષ્ઠિત એચ-સોશિયલ ક્રિએટરની બીજી આવૃત્તિની ફાઇનલનું આચોજન કર્યું, જેમાં વલસાડના એક વિદ્યાર્થીએ પોતાનો આઇડિયા રજૂ કર્યો. એચ-સોશિયલ ક્રિએટ૨ એક સોશિયલ ઈનોવેશન પ્રોગ્રામ છે, જેની શરૂઆત સડક સુરક્ષા, પર્ચાવરણ, સ્વચ્છ ભારત તથા સ્વાસ્થ્યના ક્ષેત્રમાં ઈનોવેટિવ આઈડિયા આપનારી યુવા પ્રતિભાઓને પ્રોત્સાહન આપવાની છે. 11 ફાઇનલિસ્ટ આઇડિયામાં સાનિધ્ય સૂર્ચકાંત પટેલે પોતાનો આઇડિયા 'ડ્રાઇવર ડ્રોઝીનેસ મોનિટરિંગ ટેક્નોલોજુ' રજૂ કર્યો હતો. આ આઇડિયામાં એક ટેક્નોલોજી આધારિત ડિવાઇસનો ઉપયોગ કરવામાં આવે છે, જે એ બાબતનો આભાસ થતાં જ અલાર્મ વગાડે છે કે ડ્રાઇવરને ઝોકું આવી રહ્યું છે. ઘણા બઘા માર્ગ અકસ્માત આવી ભૂલોના કારણે થાય છે. આ ટેક્નોલોજીથી માર્ગ સુરક્ષાની ખાતરી થશે. આ આઇડિયાને જ્યૂરીના સભ્યો અને 'એચ-સોશિયલ ક્રિએટર એવોર્ડસ'ની ફાઇનલ દરમિયાન ઉપસ્થિત રહેલા લોકોમાં ભારે પ્રશંસા મળી હતી.

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