



Galgotia College of
Engineering & Technology

AABSHAR

(waterfall)
"Sign Of Peace"

आबशार
آبشَر

Electrical Engineering Student Association
(EESA) proudly announces the launch of
EE department's magazine AABSHAR



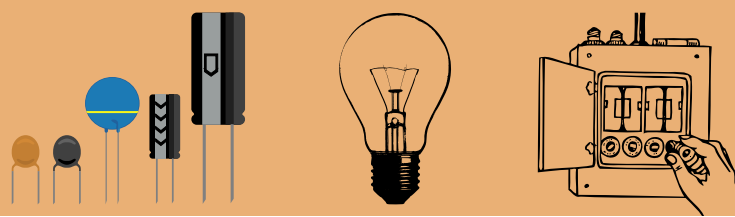
MAY 2022

VOLUME 5

EESA



EESA also referred to as the Electrical Engineering Student Association has completed 4 years. EESA is the dedicated society of the Electrical Engineering Department and in the past expedition of our society, we have pushed our members off their limits and showed them the right guidance to show the skills required to achieve the goals they had the potential for. In addition to that we every year launch an annual magazine marking the extra-curricular done by the members of our esteemed society throughout the year.



OUR MENTORS



MR. SUNIL GALGOTIA



MR. DHRUV GALGOTIA



DR. BRIJESH SINGH

04**TABLE OF CONTENT****06**

CEO's Message

14

Editorial board

07

Director's Message

15

EESA Secretariat

08

HOD's Message

16

EESA student body

09Mission & Vision of
Department**17**From Chief Editor's
Pen**10**Program's educational
objective**18**From General
Secretarie's Pen**11**Introduction to
Faculty**19**

From Secretary's Pen

13

About Aabshaar

20AI (Artificial Intelligence)
Good Or Bad

05**TABLE OF CONTENT**

24 National Education Policy

26 India has examination system, not an education system

28 IOT, A Revolution

31 Power of sub-conscious

33 Eyes on AI

36 Some things and some people are lost for good

39 5 new trend & innovation

42 Nature's Message

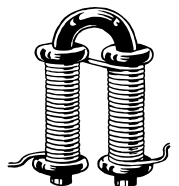
45 Projects

48 Drawings

54 Extra Curricular Activities

68 EESA Greetings

71 Toppers of session 2020-2021



**MR. DHRUV GALGOTIA**

"WITHOUT CONTINUAL GROWTH AND PROGRESS, SUCH WORDS AS IMPROVEMENT, ACHIEVEMENT, AND SUCCESS HAVE NO MEANING"

~ BENJAMIN FRANKLIN

GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY HAS ALWAYS TAKEN A KEEN INTEREST IN RETAINING HIGH ACADEMIC STANDARDS AS WELL AS IN THE HOLISTIC EVOLUTION OF STUDENTS, DELIVERING THEM NUMEROUS OPPORTUNITIES FOR SELF-DEVELOPMENT.

IT GIVES ME IMMENSE CONTENTMENT TO NOTE THAT THE DEPARTMENT OF ELECTRICAL ENGINEERING IS BRINGING OUT THE FOURTH VOLUME OF ITS DEPARTMENTAL MAGAZINE "AABSHAAR". I AM SURE THIS MAGAZINE WILL ENCOURAGE THE STUDENTS TO EXPRESS THEIR INNOVATIVE IDEAS AND HARNESS THEIR LITERARY SKILLS OF THE STUDENTS.

I EXTEND MY BEST WISHES TO ALL ASSOCIATED WITH THE PUBLICATION OF THIS MAGAZINE.



DR. BRIJESH SINGH

GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY HAS ALWAYS ASPIRED TO CULTIVATE AN ECOSYSTEM CONDUCIVE TO PERTINENT TO LEARNING AND TEACHING WHILE ALSO ENCOURAGING STUDENTS TO EXPLORE THEIR TALENTS TO THE FULLEST.

I AM DELIGHTED TO KNOW THAT THE DEPARTMENT OF ELECTRICAL ENGINEERING IS RELEASING THE THIRD VOLUME OF ITS DEPARTMENTAL MAGAZINE "AABSHAAR". I AM SURE THIS MAGAZINE WILL REFLECT THE ACADEMIC AND CULTURAL ACTIVITIES OF THE DEPARTMENT AND WILL PROVIDE A PLATFORM FOR THE STUDENTS TO REALIZE THEIR LITERARY ATTRIBUTES.

MY BEST WISHES ARE WITH THE EDITORIAL BOARD.

HOD'S MESSAGE



DR. MD. DANISH EQUBAL
HOD

WITHOUT LABOR, NOTHING PROSPERS.
THERE ARE NO SECRETS TO SUCCESS. IT IS THE RESULT OF
PREPARATION, HARD WORK, AND LEARNING FROM FAILURE.

THE DEPARTMENT OF ELECTRICAL ENGINEERING FOCUSES ON
STUDENTS ACHIEVING ACADEMIC EXCELLENCE WHILE ALSO
FACILITATING THE GROWTH OF STUDENTS THROUGH
EXTRACURRICULAR ACTIVITIES.

KEEPING THIS IN MIND, THE DEPARTMENTAL MAGAZINE
“AABSHAAR” IS PUBLISHED EACH YEAR TO EXPLORE THE CREATIVE
TALENTS OF THE STUDENTS AND DISSEMINATE THEIR INNOVATIVE
THOUGHTS AND IDEAS. THIS MAGAZINE ALSO PROVIDES AN
INSIGHT INTO THE ACADEMIC, CULTURAL, SPORTS, LITERARY AND
OTHER ACCOMPLISHMENTS OF THE STUDENTS.

WORKING IN TEAMS INCREASES COLLABORATION. AND THE
SHARING OF IDEAS AND CAN GO A LONG WAY IN GIVING TEAMS A
PRODUCTIVITY BOOST. HOWEVER, WITH MULTIPLE INDIVIDUALS
COMPRISING THE TEAM, IT IS IMPORTANT TO KEEP THEM ALL
MOTIVATED. THIS ENSURES THERE ARE NO WEAK POINTS IN
GROUP EFFORTS.

I CONGRATULATE THE ENTIRE TEAM FOR THEIR EFFORTS IN
PUBLISHING THIS MAGAZINE.

MISSION OF DEPARTMENT

“ TO BECOME A PIONEER DEPARTMENT IN PRODUCING COMPETENT, INNOVATIVE, AND SOCIALLY RESPONSIBLE ELECTRICAL ENGINEERS. ”

VISION OF DEPARTMENT

“

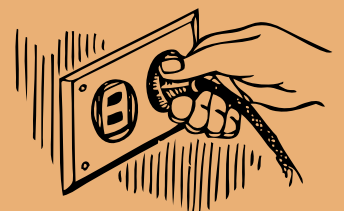
- TO PROVIDE A QUALITY EDUCATION THROUGH CONTINUOUS UP-GRADATION OF FACILITIES AND MENTORING CONDUCIVE TO THE DEPARTMENT.
- TO PROMOTE RESEARCH AND INNOVATIVE PRACTICES FOCUSSING ON THE NEEDS OF INDUSTRY.
- TO TRANSFORM STUDENTS INTO SOCIALLY COGNIZANT PROFESSIONALS AND ENTREPRENEURS WITH AMICABLE INTERPERSONAL AND COMMUNICATION SKILLS.

”

10**PROGRAM'S EDUCATIONAL
OBJECTIVES**

GRADUATES SHALL BE ABLE TO:

- EXHIBIT TECHNICAL COMPETENCE IN ELECTRICAL ENGINEERING AND ALLIED FIELDS AND ATTAIN FEASIBLE SOLUTIONS BEST SUITED TO THE INDUSTRY NEEDS.
- ADAPT TO THE LATEST GLOBAL TECHNOLOGIES AND OPTIMALLY UTILIZE RESOURCES TO DEVELOP AND CREATE SOLUTIONS FOR ENGINEERING PROBLEMS.
- PERFORM AS SKILLED PROFESSIONALS AND ENTREPRENEURS THROUGH GOOD COMMUNICATION SKILLS AND ETHICS.



INTRODUCTION TO FACULTY



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HOD



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Professor



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Ms. Lipika Datta
Assistant Professor



Mr. Manoj Saini
Assistant Professor



Mr. Surrendra Kumar Pal
Assistant Professor

ABOUT AABSHAAR



AABSHAAR is originally an Urdu word that defines waterfall. As the waterfall symbolizes " Sign of Peace ", so does our magazine and that is why it was named after it. I believe that the magazine provides us a platform to work with different people as a team to bring out the best of our results. Active engagement in collaborative projects can create a synergy among all of us that often surpasses what can be learned individually. Through this medium, we learn together and grow together. Also, the ability to work together in teams is a skill needed in today's workforce.



EDITORIAL BOARD



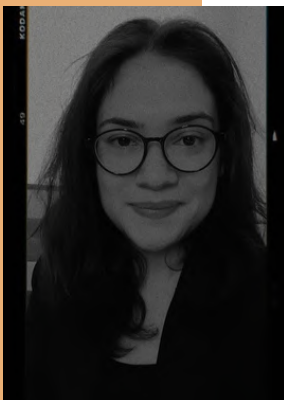
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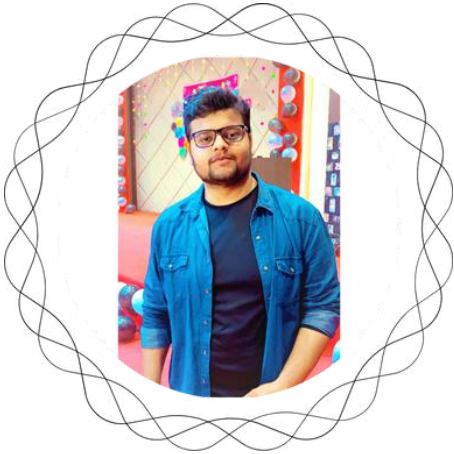
Mr. Thakur Ankit
Krishnakumar
STUDENT CO-ADVISOR

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CHIEF EDITOR

Ms. Bhavya Tiwari
EDITOR

15

STUDENT BODY OF EESA



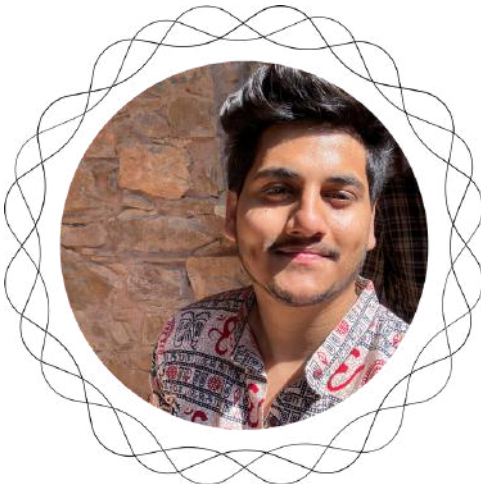
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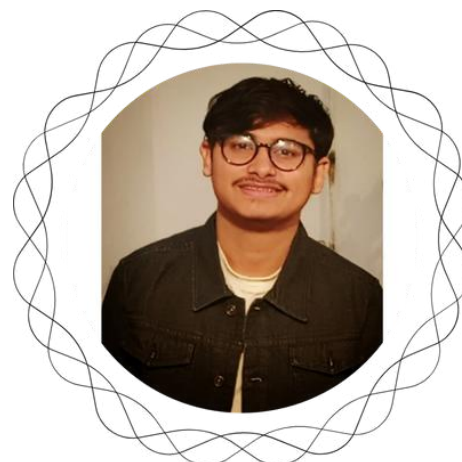
**GAGANDEEP SINGH
GENERAL SECRETARY**



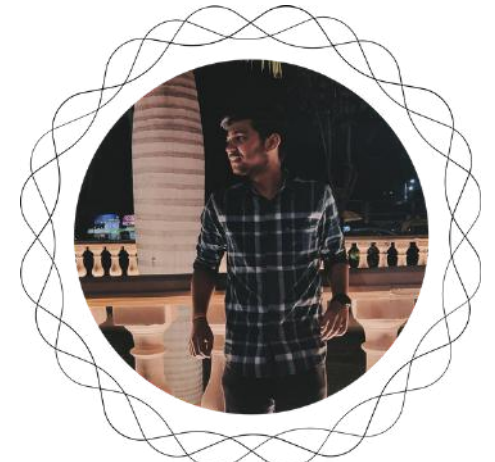
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**NIKHILL UPADHYAY
(SOCIAL MEDIA HEAD)**



**MOHD. SHUJA RIZVI
CREATIVE HEAD)**



**TUSHAR SINGH
(CULTURAL HEAD)**

FROM CHIEF EDITOR'S PEN



THE BEAUTIFUL LINES QUOTED BY SWAMI VIVEKANAND, "TAKE UP ONE IDEA. MAKE THAT ONE IDEA YOUR LIFE - THINK OF IT, DREAM OF IT, LIVE ON THAT IDEA. LET THE BRAIN, MUSCLES, NERVES, EVERY PART OF YOUR BODY, BE FULL OF THAT IDEA, AND JUST LEAVE EVERY OTHER IDEA ALONE. THIS IS THE WAY TO SUCCESS." THIS MAGAZINE WAS THAT ONE IDEA FOR US. WE FACED MANY CHALLENGES WHILE MAKING THIS MAGAZINE BUT THE HARDSHIP OF EVERYONE RESULTED IN A MASTERPIECE.

THE NAME OF THE MAGAZINE "AABSHAAR" WHICH MEANS WATERFALL, SIGNIFIES PEACE. THE PEACE THAT BRINGS HARMONY WITH EVERYTHING AROUND US. IT GIVES US A PERFECT LESSON THAT, "WATERFALL WOULDN'T SOUND SO MELODIOUS IF THERE WERE NO ROCKS IN THEIR WAY", IN A SIMILAR WAY WE HAVE TO FACE THE CHALLENGES IN OUR LIVES AND LEARN FROM THEM. PEACE CAN BE ACHIEVED BY INTERNAL HARMONY.

WATERFALL ALSO SYMBOLIZES THE PROCESS OF LETTING GO, THE PROCESS OF CLEANSING, AND THE CONTINUOUS FLOW OF ENERGY AND LIFE. WATER GENERALLY HAS A SPECIAL PLACE AS IT IS CONSIDERED TO HAVE SPIRITUAL CLEANSING POWERS AND IS SACRED. THE WATERFALL SYMBOL IN PARTICULAR CAN MEAN THAT SEVERE DISAPPOINTMENT WILL MAKE YOU WISER. WATERFALLS OFTEN RELATE TO A GREAT RELEASE OF EMOTION, REJUVENATION, AND RENEWAL OF SPIRIT.

I'M PROUD TO BE THE CHIEF EDITOR OF OUR MAGAZINE AND ALL THIS WAS POSSIBLE BECAUSE OF THE UNCONDITIONAL SUPPORT OF OUR PRESIDENT, STUDENT ADVISORS, FACULTY MEMBERS, GENERAL SECRETARY, AND A TEAM OF EXCELLENT EDITORS.

GAGANDEEP SINGH
GENERAL SECRETARY
EESA



" LIFE IS NOT THE WAY YOU SUPPOSE IT TO BE, IT'S THE WAY IT IS. THE WAY YOU COPE IS WHAT MAKES THE DIFFERENCE."

THE WORLD WE LIVE IN TODAY LOOKS DRASTICALLY DIFFERENT FROM THE ONE WE KNEW JUST A FEW MONTHS BACK. THE TRANSITION HAS NOT BEEN EASY BUT AGAIN OUR UNDAUNTED EFFORTS HELPED US TO RISE ABOVE THE ADVERSITIES AND WE ENTERED INTO A NEW WORLD OF HOPE, OPTIMISM AND ZEAL FOR A NEW BEGINNING. I AM VERY PROUD OF OUR DEPARTMENTAL SOCIETY OF ELECTRICAL ENGINEERING - EESA, WHICH SUCCESSFULLY TRANSITIONED TO ONLINE MODE. WE WERE CONTINUOUSLY AIMING TO PROVIDE EACH OF OUR MEMBERS WITH SKILL-BASED, TECHNICAL, CULTURAL & SEVERAL SUCH PROGRAMS, ENSURING THAT THEY ARE BEING CHALLENGED TO LEARN EVERY DAY. I CAN STILL REMEMBER THE MUCH-AWAITED DAY OF THE INAUGURATION CEREMONY, ON 11TH NOVEMBER 2020, WHEN I WAS GIVEN THE POST OF GENERAL SECRETARY IN ELECTRICAL ENGINEERING STUDENT ASSOCIATION (EESA), OUR DEPARTMENTAL SOCIETY. THIS YEAR MARKED THE 3RD GRACEFUL YEAR OF OUR DEPARTMENTAL SOCIETY. I WOULD LIKE TO THANK OUR HEAD OF DEPARTMENT & ALL OTHER FACULTY MEMBERS FOR BESTOWING ME WITH THIS OPPORTUNITY. ON BEHALF OF THE ENTIRE SOCIETY, I WOULD LIKE TO THANK OUR MEMBERS FOR THEIR GREAT EFFORTS. EVEN AFTER REOPENING THE COLLEGE WE WILL REMAIN CENTERED ON ENSURING THE HEALTH SAFETY AND WELL-BEING OF THE MEMBERS. I AM DELIGHTED TO CELEBRATE THE LAUNCH OF OUR DEPARTMENT'S MAGAZINE AABSHAAR "SIGN OF PEACE" I WOULD LIKE TO EXTEND A VERY WARM WELCOME TO THE READERS OF AABSHAAR. I TAKE THIS OPPORTUNITY TO THANK ALL OF WHOM HAVE VOLUNTEERED TO CONTRIBUTE TO THE SUCCESS OF THE MAGAZINE. MY SINCEREST GRATITUDE TO OUR PRESIDENT & HOD DR. DANISH EQUBAL AND ALL OTHER FACULTY MEMBERS FOR THEIR UNCONDITIONAL SUPPORT AND GUIDANCE. I ALSO EXTEND KUDOS TO THE MAGAZINE COMMITTEE FOR BRINGING OUT THEIR NEW VOLUME OF THE MAGAZINE.

GAGANDEEP SINGH
GENERAL SECRETARY, EESA

FROM SECRETARY'S PEN

EVERY HUMAN BEING HAS BEEN BLESSED WITH DIFFERENT ABILITIES, TALENTS, AND CAPABILITIES. WE DIFFER FROM EACH OTHER IN THAT WE HAVE DIFFERENT INTERESTS AND INCLINATIONS. THESE TALENTS DEFINE A PERSON. OUR MAGAZINE PROVIDED US A PLATFORM, TO UNLEASH OUR TALENTS AND PRESENT OURSELVES OUT THERE CONFIDENTLY. IT GAVE THE OPPORTUNITY TO ALL OF US WITH OUR OWN PERSONAL DIFFERENT TALENTS AND PASSIONS TO COME TOGETHER AND GIVE THE BEST OF WHAT WE ARE CAPABLE OF. AS THE NAME ITSELF SUGGESTS, OUR MAGAZINE SYMBOLIZES SIGN OF PEACE, THE MOTIVE OF OUR MAGAZINE IS TO EXPLORE THE CREATIVE THOUGHTS OF INDIVIDUALS AND GIVE THEM THE OPPORTUNITY TO PRESENT THEMSELVES CONFIDENTLY. WHAT MAKES OUR MAGAZINE DIFFERENT IS, IT IS NEVER ABOUT THE COMPETITION HERE, INSTEAD WE BELIEVE THAT EACH ONE OF US HAS THEIR OWN SPECIALITY AND TO BRING OUT THE BEST, WE NEED TO FOCUS ON WHAT CAN BE DONE BY COMING TOGETHER AND CONTRIBUTING WHATEVER WE CAN DO TO PUT OUT THE BEST. BEING A MEMBER OF THE CLUB IS TRULY AN HONOR. I WOULDN'T HAVE LEARNED SO MUCH OTHERWISE. I LEARNED THAT HOW LITTLE CONTRIBUTIONS AND DETAILS CAN BRING A CHANGE FOR EVERYONE'S BENEFIT. IN TODAY'S TIME, ALL OF US ARE GOING THROUGH A LOT. WHAT KEEPS ALL OF US SANE IS UNITY & THE BELIEF IN DOING SOMETHING IMPACTFUL. EVEN THE LITTLE PERSONAL ACHIEVEMENTS ARE CREDIBLE, KEEPING IN MIND WHAT ALL OF US ARE GOING THROUGH. I AM DELIGHTED TO CELEBRATE THE LAUNCH OF OUR DEPARTMENT'S MAGAZINE AABSHAAR "SIGN OF PEACE" I WOULD LIKE TO EXTEND A VERY WARM WELCOME TO THE READERS OF AABSHAAR. I TAKE THIS OPPORTUNITY TO THANK ALL OF WHOM HAVE VOLUNTEERED TO CONTRIBUTE TO THE SUCCESS OF THE MAGAZINE. MY SINCERE GRATITUDE TO OUR PRESIDENT & HOD DR.DANISH EQUBAL AND ALL OTHER FACULTY MEMBERS FOR THEIR UNCONDITIONAL SUPPORT AND GUIDANCE.

IMPACT OF RUSSIA UKRAINE WAR ON TECHNOLOGY



THE MORE YOU SWEAT IN PEACE, THE LESS YOU BLEED IN WAR

-CHINESE GENERALISSIMO CHIANG KAI-SHEK

MORE THAN ANY OTHER INDUSTRY PERHAPS, TECHNOLOGY HAS A GLOBAL WORKFORCE. ACCORDING TO A 2018 REPORT, 71% OF TECH WORKERS IN SILICON VALLEY WERE REPORTEDLY BORN ABROAD. IT'S NO COINCIDENCE THAT TECH COMPANIES HAVE ALWAYS BEEN AT THE FOREFRONT OF CALLING FOR LESS RESTRICTIVE IMMIGRATION LAWS TO ALLOW FOR THE ARRIVAL OF SKILLED WORKERS FROM ABROAD.

IT IS THEREFORE QUITE CLEAR TO UNDERSTAND HOW THE RUSSIAN INVASION IN UKRAINE IS HAVING A STRONG IMPACT, NOT ONLY ECONOMIC, ON THOSE WHO WORK IN THIS SECTOR, AS SHOWN BY THE INVESTIGATION OF THE ONLINE NEWSPAPER "THE INFORMATION".

MANY COMPANIES, NOT JUST ELON MUSK'S SPACEX, HAVE IN RECENT YEARS OUTSOURCED MANY ACTIVITIES TO THE UKRAINIAN COUNTRY, WHICH HAS LOW-COST SKILLED LABOUR AND OFFERED ADVANTAGEOUS CONDITIONS FOR COMPANIES THAT MOVED THEIR OPERATIONS THERE. THERE ARE SAID TO BE MORE THAN 150,000 COMPUTER ENGINEERS IN THE COUNTRY.

A SIGNIFICANT FACTOR IS THAT ALTHOUGH UKRAINE DOES NOT HAVE A LARGE TECHNOLOGY INDUSTRY ON ITS TERRITORY, IT WOULD PLAY A VERY SIGNIFICANT ROLE IN THE PRODUCTION OF SEMICONDUCTORS, THE SHORTAGE OF WHICH HAS ALREADY BEEN PUTTING MANY PRODUCTION SECTORS IN CRISIS FOR MONTHS.

THE COUNTRY PRODUCES HALF THE WORLD'S NEON GAS, WHICH IS USED IN THE PRODUCTION OF MICROCHIPS. THE CONFLICT THEREFORE THREATENS TO GREATLY INCREASE THE GLOBAL SHORTAGE OF CHIPS.

THE WAR IS CLEARLY ALSO HAVING A MAJOR IMPACT ON THE TECHNOLOGY SECTOR, BOTH BECAUSE OF THE IMPORTANCE OF THE SECTOR IN UKRAINE, WHERE IT ACCOUNTS FOR ALMOST 4% OF THE TOTAL GDP.

MANY COMPANIES WITH SIGNIFICANT MARKET SHARE AND WIDESPREAD USE WITHIN US CORPORATIONS HAVE VARIOUS LEVELS OF CONNECTIONS WITH RUSSIA. FOR EXAMPLE, SOME WERE FOUNDED IN RUSSIA AND OTHERS ARE HEADQUARTERED ELSEWHERE BUT HAVE A DEVELOPMENT PRESENCE WITHIN RUSSIA AND OTHER PARTS OF EASTERN EUROPE.

UK-INCORPORATED KASPERSKY LAB, FOR EXAMPLE, IS A MAJOR AND WELL-ESTABLISHED PLAYER IN THE ANTIVIRUS/ANTIMALWARE SPACE. IT MAINTAINS ITS INTERNATIONAL HEADQUARTERS AND HAS SUBSTANTIAL RESEARCH AND DEVELOPMENT CAPABILITIES IN RUSSIA, EVEN THOUGH ITS PRIMARY R&D CENTER WAS MOVED TO ISRAEL IN 2017.

IT'S ALSO THOUGHT THAT EUGENE KASPERSKY, THE COMPANY'S FOUNDER, HAS STRONG PERSONAL TIES TO THE PUTIN-CONTROLLED GOVERNMENT. KASPERSKY HAS REPEATEDLY DENIED THESE ALLEGATIONS, BUT QUESTIONS ABOUT THE MAN AND HIS COMPANY REMAIN AND WILL BE FURTHER SCRUTINIZED, PARTICULARLY AS THE CONFLICT DEVELOPS.

MANY GLOBAL TECHNOLOGY GIANTS IN THE SOFTWARE AND SERVICES INDUSTRIES HAVE USED RUSSIAN AND EASTERN EUROPEAN DEVELOPERS IN THE PAST BECAUSE OF THEIR HIGH-QUALITY AND VALUE-PRICED WORK COMPARED TO THEIR US AND WESTERN EUROPE-BASED COUNTERPARTS. AND MANY HAVE INVESTED HUNDREDS OF MILLIONS OF DOLLARS IN HAVING A DEVELOPER AS WELL AS RESELLER CHANNEL PRESENCE IN RUSSIA.

WORLD GOVERNMENTS DO NOT NEED TO LEVY IRAN-STYLE ISOLATIONIST SANCTIONS AGAINST RUSSIA FOR A SNOWBALL EFFECT TO START WITHIN US CORPORATIONS THAT USE RUSSIAN SOFTWARE OR SERVICES.

21

THE ESCALATION INTO FULL-BLOWN CONFLICT IN UKRAINE WILL MAKE C-SEATS WITHIN GLOBAL ENTERPRISES EXTREMELY CONCERNED ABOUT USING SOFTWARE THAT ORIGINATES FROM RUSSIA OR HAS BEEN PRODUCED BY RUSSIAN NATIONALS. THE MOST CONSERVATIVE COMPANIES WILL PROBABLY "RIP AND REPLACE" MOST OFF-THE-SHELF STUFF AND GO WITH OTHER SOLUTIONS, PREFERABLY AMERICAN ONES.

THE RUSSIAN MOBILE APPS? BYOD MOBILE DEVICE MANAGEMENT (MDM) POLICIES WILL WALL THEM OFF FROM BEING INSTALLED ON ANY DEVICE THAT CAN ACCESS A CORPORATE NETWORK. AND IF SANCTIONS ARE PUT IN PLACE BY WORLD GOVERNMENTS, WE CAN EXPECT THEM TO DISAPPEAR ENTIRELY FROM THE MOBILE DEVICE STORES.

CONCLUSION:

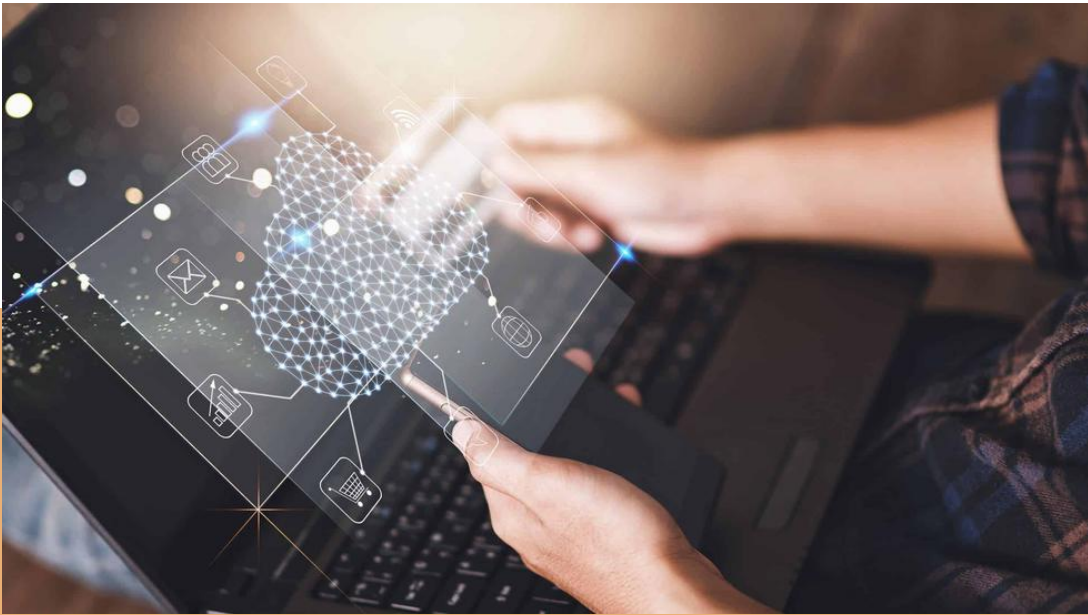
"WAR IS NOT THE FIRST RESORT BUT THE LAST RESORT, AND THE WORLD SEES THE CONSEQUENCES OF BRINGING IT TO THE PRIORITY LIST"

IN CONCLUSION, TECHNOLOGY IS A GAME-CHANGING TOOL AND ONE THAT IS HERE TO STAY, WITH ITS UPS AND DOWNS.

-VAIBHAV UJJWAL (2ND YEAR)

22

TECHNOLOGY GOING TO SAVE US OR KILL?



TECHNOLOGY CAN SAVE THE WORLD'S ENVIRONMENT, THEY ARE DEVELOPING PLASTIC-EATING MICROBES, AND WE ARE USING NEW MACHINES TO REMOVE TRASH FROM OCEANS AND RIVERS, ALONG WITH THAT WE NEED TO FUND THE RESEARCH OF BIOFUELS, AND RENEWABLE ENERGY SO WE CAN FIND MORE EFFICIENT WAYS TO MAKE ELECTRICITY. ELECTRIC CARS ONLY WORK IF WE ARE POWERED BY RENEWABLE ENERGY, YOU CAN NOT JUST ARGUE EVERYONE SHOULD SWITCH TO ELECTRIC VEHICLES NOW. ALSO, PEOPLE HAVE DISCOVERED LITHIUM BATTERIES WHICH ARE WAY MORE EFFECTIVE THAN OUR CURRENT ONES. SELF-DRIVING CARS CAN SAVE LIVES BY ELIMINATING CAR ACCIDENTS, CLONING CAN BE USED IN THE MEDICAL FIELD TO CREATE ORGANS FOR PEOPLE WHO NEED THEM. WE CAN ALSO 3D PRINT THINGS FOR MEDICAL STUFF TOO. THE TECHNOLOGY EXISTS OUT THERE, BUT IT NEEDS TO IMPROVE AND BE WIDELY USED TO MAKE A DIFFERENCE. ALSO PEOPLE GO DONATE TO TEAMTREES OR TEAMSEAS! IT MAKES A DIFFERENCE. TECHNOLOGY IS MERELY A TOOL, ACCOMPANIED BY THE HUMAN CONSCIOUSNESS CAN MAKE A CHANGE

NO MATTER WHAT HAPPENS, I WILL NEVER, NOT IN A THOUSAND TRAGIC OUTCOMES, EVER REGRET LOVING MY CHILDHOOD WITHOUT TECHNOLOGY.,

BANE, WE LOST THE CHARM OF LIFE, HUMANS ARE EVOLVED FROM APES , BUT NOW I THINK WE ARE ON REVERSE MODE TO BECOME INTELLIGENT APES.

THE GREATEST INVENTION OF TECHNOLOGY IS WHEEL, WHERE DID TAKE US. THIS EARTH CAN LIVE TRILLION YEARS AND MORE WITH OUT HUMANS THOUGH HUMANS CANNOT LIVE WITH OUT EARTH EVEN A DAY.

WHERE HAS TECHNOLOGY TAKEN US. IS IT BETTER BOMBS, BETTER WEAPONS, BETTER RESOURCE TO DESTROY A CIVILISATION , BETTER TECHNOLOGY TO PEEP INTO OTHERS LIFE, BETTER COMFORT TO MAKE YOURSELF USELESS TO UNFORESEEN SITUATIONS. TECH HAS GIVEN US BP , STRESS, HEART ATTACKS , IRREGULAR SLEEP, UNHEALTHY FOOD , CONCRETE JUNGLE , FARM LANDS CONVERTED TO INDUSTRIAL AND RESIDENTIAL GROWTH , RISK ASSESSMENT APPS, DESTROYING MICRO ENTREPRENEURS, MORE AND MORE SUPER SPECIALITY HOSPITALS , PAIN , EGO , HATRED, BOUNDARIES, APPS WHICH KEEP YOU AND YOUR LOVED ONE ONLINE AND NOT NEXT TO YOU. THE LIST GOES ON , EVEN THE CLOUD IS NOT ENOUGH FOR ALL TO BE MENTIONED.

EVEN TECHNOLOGY NEEDS TO BE CONTROLLED AND NOT LEFT TO DO ANYTHING . 50 YEARS BACK HUMANS WERE HEALTHY WITH LIMITED WORK , GOOD FOOD , HEALTHY HABITS, JOINT FAMILIES, CONTROLLED EXPENSE AND INCOME BETTER GDP. HUMANS HAD TIME TO THINK AND INVENT BETTER TOOLS AND MACHINES FOR LIVING.

I WOULD SAY WE ARE IN REVERSE GEAR TO APES. THE EVOLUTION HAS STOPPED , DIDN'T YOU READ THE EARTH IS NOT A SAFE PLACE IN FEW YEARS SO LOOKING FOR OTHER PLANETS , DID MOTHER EARTH DO IT OR HUMANS IN THE NAME OF TECHNOLOGY AND COMFORT .

TECH COULD BE A BOON, YET IT'S ON US HUMANS TO DECIDE WHERE TO DRAW THE LINE !

-ABHINAV TRIPATHI(2ND YEAR)

24

GLOBAL POPULATION IS BECOMING OVER POPULATED?



ANYONE WITH EVEN A PASSING INTEREST IN THE GLOBAL ENVIRONMENT KNOWS ALL IS NOT WELL. BUT JUST HOW BAD IS THE SITUATION? OUR NEW PAPER SHOWS THE OUTLOOK FOR LIFE ON EARTH IS MORE DIRE THAN IS GENERALLY UNDERSTOOD.

THE RESEARCH PUBLISHED TODAY REVIEWS MORE THAN 150 STUDIES TO PRODUCE A STARK SUMMARY OF THE STATE OF THE NATURAL WORLD. WE OUTLINE THE LIKELY FUTURE TRENDS IN BIODIVERSITY DECLINE, MASS EXTINCTION, CLIMATE DISRUPTION AND PLANETARY TOXIFICATION. WE CLARIFY THE GRAVITY OF THE HUMAN PREDICAMENT AND PROVIDE A TIMELY SNAPSHOT OF THE CRISES THAT MUST BE ADDRESSED NOW.

THE PROBLEMS, ALL TIED TO HUMAN CONSUMPTION AND POPULATION GROWTH, WILL ALMOST CERTAINLY WORSEN OVER COMING DECADES. THE DAMAGE WILL BE FELT FOR CENTURIES AND THREATENS THE SURVIVAL OF ALL SPECIES, INCLUDING OUR OWN.

OUR PAPER WAS AUTHORED BY 17 LEADING SCIENTISTS, INCLUDING THOSE FROM FLINDERS UNIVERSITY, STANFORD UNIVERSITY AND THE UNIVERSITY OF CALIFORNIA, LOS ANGELES. OUR MESSAGE MIGHT NOT BE POPULAR, AND INDEED IS FRIGHTENING. BUT SCIENTISTS MUST BE CANDID AND ACCURATE IF HUMANITY IS TO UNDERSTAND THE ENORMITY OF THE CHALLENGES WE FACE.

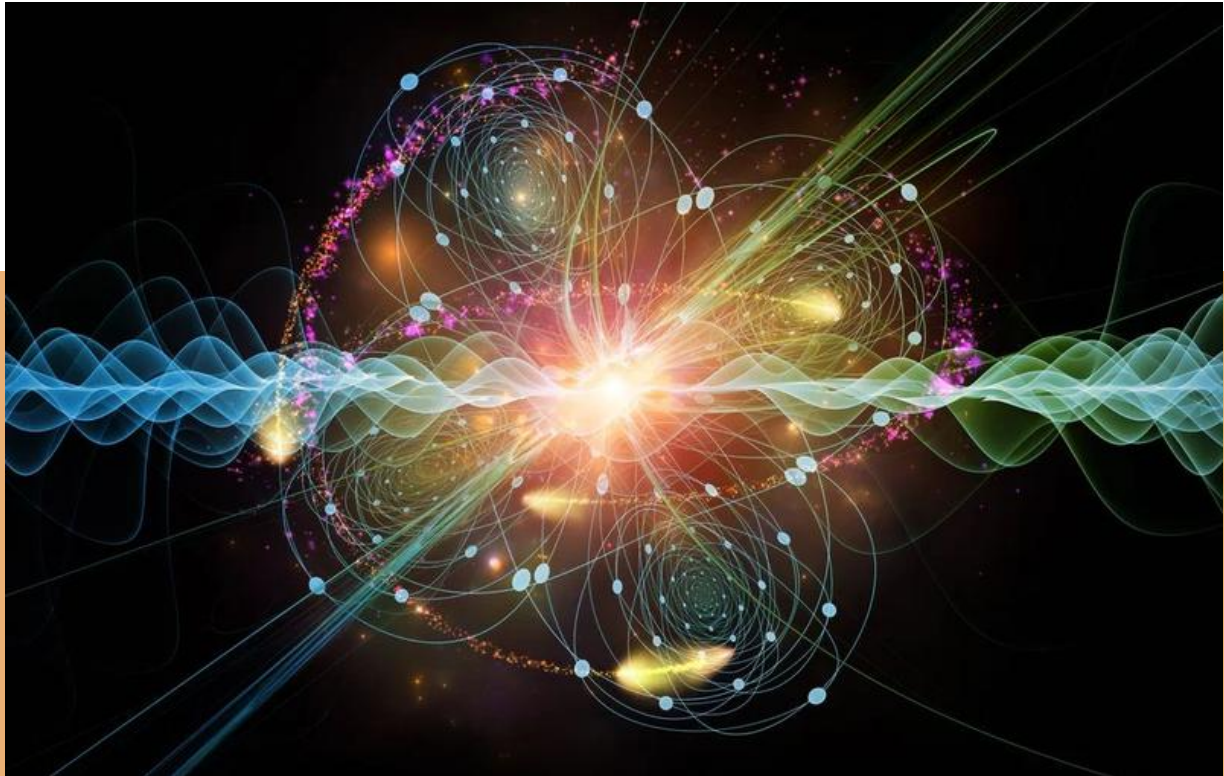
25

OUR RESEARCH ALSO REVIEWED THE CURRENT STATE OF THE GLOBAL ENVIRONMENT. WHILE THE PROBLEMS ARE TOO NUMEROUS TO COVER IN FULL HERE, THEY INCLUDE:

- A HALVING OF VEGETATION BIOMASS SINCE THE AGRICULTURAL REVOLUTION AROUND 11,000 YEARS AGO. OVERALL, HUMANS HAVE ALTERED ALMOST TWO-THIRDS OF EARTH'S LAND SURFACE
- ABOUT 1,300 DOCUMENTED SPECIES EXTINCTIONS OVER THE PAST 500 YEARS, WITH MANY MORE UNRECORDED. MORE BROADLY, POPULATION SIZES OF ANIMAL SPECIES HAVE DECLINED BY MORE THAN TWO-THIRDS OVER THE LAST 50 YEARS, SUGGESTING MORE EXTINCTIONS ARE IMMINENT
- ABOUT ONE MILLION PLANT AND ANIMAL SPECIES GLOBALLY THREATENED WITH EXTINCTION. THE COMBINED MASS OF WILD MAMMALS TODAY IS LESS THAN ONE-QUARTER THE MASS BEFORE HUMANS STARTED COLONISING THE PLANET. INSECTS ARE ALSO DISAPPEARING RAPIDLY IN MANY REGIONS
- 85% OF THE GLOBAL WETLAND AREA LOST IN 300 YEARS, AND MORE THAN 65% OF THE OCEANS COMPROMISED TO SOME EXTENT BY HUMANS
- A HALVING OF LIVE CORAL COVER ON REEFS IN LESS THAN 200 YEARS AND A DECREASE IN SEAGRASS EXTENT BY 10% PER DECADE OVER THE LAST CENTURY. ABOUT 40% OF KELP FORESTS HAVE DECLINED IN ABUNDANCE, AND THE NUMBER OF LARGE PREDATORY FISHES IS FEWER THAN 30% OF THAT A CENTURY AGO.

SO ALL IN ALL, THIS CONCERNS US THE MOST AND HONESTLY WORLD CAN BE A BETTER PLACE IF HUMANS DON'T LOSE THE CONSCIOUSNES ON THE WAY OF EVOLUTION.

-SHIPRA SINGH(2ND YEAR)



THE ALTERNATIVE ENERGY DEVELOPMENT BOARD (AEDB) ESTABLISHED IN 2003 IS THE ONLY FEDERAL GOVERNMENT AGENCY. THE MAIN PURPOSE OF THE AEDB IS TO ENCOURAGE AND ENDORSE THE EXPANSION OF RENEWABLE ENERGY IN PAKISTAN THROUGH FAMILIARIZING ALTERNATIVE AND RENEWABLE ENERGY (AER) AT A FAST PACE. MANAGERIAL CONTROL OF THE AEDB WAS SHIFTED TO THE MINISTRY OF WATER AND ENERGY IN 2006. THE PAKISTANI GOVERNMENT HAS DIRECTED THE AEDB TO: (1) IMPLEMENT PRIVATE SECTOR POLICIES, PROJECTS, AND PLANS IN THE FIELD OF AER, (2) PROMOTE AND ASSIST THE AER GENERATION AND DEVELOPMENT IN ORDER TO ACHIEVE SUSTAINABLE ECONOMIC DEVELOPMENT, (3) PROMOTE TECHNOLOGY TRANSFER AND ESTABLISH AER LOCAL TECHNOLOGICAL PRODUCTION BASES, (4) PROMOTE ALTERNATIVE ENERGY-BASED ENERGY SERVICES, AND (5) DEVELOP COMMERCIAL-SCALE ALTERNATIVE ENERGY PROJECTS (AEDB LAW 2010)

ENERGY DEVELOPMENT IS THE EFFORT TO PROVIDE SUFFICIENT PRIMARY ENERGY SOURCES AND SECONDARY ENERGY FORMS FOR SUPPLY, COST, IMPACT ON AIR POLLUTION AND WATER POLLUTION, MITIGATION OF CLIMATE CHANGE WITH RENEWABLE ENERGY.

TECHNOLOGICALLY ADVANCED SOCIETIES HAVE BECOME INCREASINGLY DEPENDENT ON EXTERNAL ENERGY SOURCES FOR TRANSPORTATION, THE PRODUCTION OF MANY MANUFACTURED GOODS, AND THE DELIVERY OF ENERGY SERVICES. THIS ENERGY ALLOWS PEOPLE WHO CAN AFFORD THE COST TO LIVE UNDER OTHERWISE UNFAVOURABLE CLIMATIC CONDITIONS THROUGH THE USE OF HEATING, VENTILATION, AND/OR AIR CONDITIONING. LEVEL OF USE OF EXTERNAL ENERGY SOURCES DIFFERS ACROSS SOCIETIES, AS DO THE CLIMATE, CONVENIENCE, LEVELS OF TRAFFIC CONGESTION, POLLUTION AND AVAILABILITY OF DOMESTIC ENERGY SOURCES. ALL TERRESTRIAL ENERGY SOURCES EXCEPT NUCLEAR, GEOTHERMAL AND TIDAL ARE FROM CURRENT SOLAR INSOLATION OR FROM FOSSIL REMAINS OF PLANT AND ANIMAL LIFE THAT RELIED DIRECTLY AND INDIRECTLY UPON SUNLIGHT, RESPECTIVELY. ULTIMATELY, SOLAR ENERGY ITSELF IS THE RESULT OF THE SUN'S NUCLEAR FUSION. GEOTHERMAL POWER FROM HOT, HARDENED ROCK ABOVE THE MAGMA OF THE EARTH'S CORE IS THE RESULT OF THE DECAY OF RADIOACTIVE MATERIALS PRESENT BENEATH THE EARTH'S CRUST, AND NUCLEAR FISSION RELIES ON MAN-MADE FISSION OF HEAVY RADIOACTIVE ELEMENTS IN THE EARTH'S CRUST; IN BOTH CASES THESE ELEMENTS WERE PRODUCED IN SUPERNOVA EXPLOSIONS BEFORE THE FORMATION OF THE SOLAR SYSTEM.

THERE ARE VARIOUS WAYS TO HAVE SUSTAINABLE METHODS OF ENERGY AS PER THE DEVELOPMENT IN THE ENERGY SCIENCE.

-BHAVYA TIWARI(2ND YEAR)



CONVENTIONAL ENERGY RESOURCES ARE NOT CLIMATE SUSTAINABLE. CURRENTLY, ENGINEERS AND SCIENTISTS ARE LOOKING FOR SUSTAINABLE ENERGY SOLUTIONS INFLUENCED BY CLIMATE CHANGE. A WIDE VARIETY OF SUSTAINABLE NATURAL ENERGY RESOURCES ARE AVAILABLE, BUT THEY REQUIRE TECHNICAL SOLUTIONS FOR THEIR IMPLEMENTATION. THE GENERAL TREND IN ENERGY RESEARCH IS BASED ON RENEWABLE RESOURCES, AMONGST WHICH SOLAR ENERGY STANDS OUT, BEING THE MOST MATURE AND WIDELY ACCEPTED. IN THIS PAPER, THE CURRENT STATE OF THE SUSTAINABLE ENERGY SYSTEM HAS BEEN ANALYSED. THE MAIN PURPOSE IS TO PROVIDE ADDITIONAL CONTEXT TO ASSESS FUTURE SCENARIOS. THE STUDY OF PAST CONTRIBUTIONS ALLOWS SUSTAINABILITY PLANNING AND INCREASING THE WELFARE OF FUTURE SOCIETY. THE AIM IS TO HIGHLIGHT GLOBAL TRENDS IN RESEARCH ON SUSTAINABLE SOLAR ENERGY FROM 1995 TO 2020 THROUGH A BIBLIOMETRIC ANALYSIS OF 4260 PUBLICATIONS. ACCORDING TO THEIR LINKAGES, THE ANALYSED ARTICLES ARE DISTRIBUTED IN NINE CLUSTERS: SUSTAINABILITY ASSESSMENT, SUSTAINABLE ENERGY SOLUTIONS, ENVIRONMENTAL PAYBACK TIME ANALYSIS, SUSTAINABILITY OF SOLAR ENERGY IN DIFFERENT SCENARIOS, ENVIRONMENTAL SUSTAINABILITY, SOLAR ENERGY APPLICATIONS, SUSTAINABLE ENERGY OPTIMISATION, ENERGY TRANSITION AND ENERGY AND SUSTAINABLE SCENARIOS.

THE MOST REPEATED KEYWORDS ARE SUSTAINABILITY, RENEWABLE ENERGY, AND SOLAR ENERGY. ENERGY RESEARCH AND THE EXPLORATION OF NEW RENEWABLE SOLAR RESOURCES ARE STILL NECESSARY TO MEET SUSTAINABLE ENERGY'S FUTURE CHALLENGES.

THE MAIN PROBLEM WITH RENEWABLE ENERGY SOURCES LIES IN MAKING THEM COMPETITIVE AND EFFICIENT, IN COMPARISON WITH CONVENTIONAL ENERGY SOURCES, KEEPING IN MIND THEIR ENVIRONMENTAL SUSTAINABILITY. IN THIS COMMUNITY, THE DOCUMENTS THAT ARE PUBLISHED RELATE ENVIRONMENTAL SUSTAINABILITY WITH SOLAR ENERGY PRODUCTION. CURRENTLY, THERE IS NO AGREED UPON METHOD IN THE SCIENTIFIC COMMUNITY TO ASSESS SUSTAINABILITY, ONLY INDICES THAT ALLOW ITS ASSESSMENT FROM DIFFERENT PERSPECTIVES. ONE OF THE MOST WIDELY USED CONCEPTS IN THIS COMMUNITY FOR THE ASSESSMENT OF ENVIRONMENTAL SUSTAINABILITY IS THE EMERGENCY. THIS WORD WAS DEFINED IN 1996 BY HOWARD T. ODUM AS THE SUM OF ALL ENERGY INPUTS REQUIRED DIRECTLY OR INDIRECTLY IN A PROCESS, TO PROVIDE A GIVEN OUTPUT, WHERE THE INPUTS ARE EXPRESSED IN THE SAME FORM, USUALLY SOLAR ENERGY.

-YASH VARDHAN SINGH(2ND YEAR)

EYES ON AI



WITH THE CONTINUOUS DEVELOPMENT IN SCIENCE AND TECHNOLOGY, IT IS HARD TO ESTIMATE HOW FAR AND WHAT ELSE WE WILL BE ABLE TO ESTABLISH. ACCORDING TO EXPERTS, THE FUTURE OF THE WORLD SEEMS TO BE DOMINATED BY ARTIFICIAL INTELLIGENCE. AND THE TIME IS ASSUMED TO BE NOT FAR WHEN ALMOST EVERY ASPECT OF OUR LIFE INVOLVES AI ASSISTANCE IN SOME WAY OR THE OTHER.

SINCE I AM USING THE TERM 'ARTIFICIAL INTELLIGENCE AND MANY OTHERS TOO USE THIS TERM IN THEIR DAILY LIFE OR AT LEAST HAVE COME ACROSS THIS TERM, BUT DO WE WHAT THE TERM EXACTLY STANDS FOR? THE ABILITY OF A COMPUTER SYSTEM OR A MACHINE TO OPERATE AND PROCESS INFORMATION LIKE A HUMAN BEING IS CALLED ARTIFICIAL INTELLIGENCE OR SIMPLY AI. IT CAN LEARN, ANALYZE, COPY, AND ADAPT TO NEW INFORMATION AND PERFORM WITHOUT MUCH EXTERNAL OPTIMIZATION. EXPERTS BELIEVE THAT AI IN THE FUTURE WILL BE ABLE TO MAKE HUMAN LIFE MUCH EASIER BY PROVIDING A SOLUTION TO ALMOST ALL CHALLENGES.

HUMANS WILL ALSO BE MADE AWARE OF POTENTIAL THREATS FROM BEFOREHAND BY ARTIFICIAL INTELLIGENCE USE. ONE OF THE FASTEST-GROWING FIELDS OF TECHNOLOGY AND INVENTION IS THAT OF AI. AI HAS ESTABLISHED ITS POSITION IN SEVERAL MARKETING ACTIVITIES. AND THE AUTOMATION OF MARKETING PROCESSES HAS INCREASED THE DEMAND FOR AI IMPLEMENTATION IN THE INDUSTRY RECENTLY AS WELL. AI HAS ALSO BROUGHT OPPORTUNITIES TO MARKETERS TO EXPAND THEIR BUSINESS AND PROVIDED USER INTERFACE INSIGHT.

ARTIFICIAL INTELLIGENCE CAN BE CATEGORIZED INTO FOUR CATEGORIES, AND THIS CATEGORIZATION WAS BROUGHT UP BY AREND HINTZE.

1. THE FIRST TYPES OF AI ARE THOSE MACHINES THAT CAN REACT TO CERTAIN SITUATIONS, BUT THESE MACHINES DON'T HAVE ANY SORT OF MEMORY AND HENCE CANNOT LEARN OR USE PAST EXPERIENCE. COMPUTER CHESS GAMES ARE A SIMPLE EXAMPLE OF THIS FIRST TYPE OF AI.

2. THE SECOND TYPES OF AI ARE THOSE MACHINES THAT ARE CAPABLE OF USING PAST MEMORY TO FORM FUTURE ONES. AN EXCELLENT EXAMPLE OF THIS SECOND TYPE OF AI IS SELF-DRIVING CARS.

3. THE THIRD TYPE OF AI AT PRESENT ONLY EXISTS IN THEORY, AND AS PER THE IMAGINATION, IT WILL BE ABLE TO HAVE HUMANE EMOTIONS LIKE BELIEFS, DESIRES, OPINIONS, INTENTIONS, ETC.

4. THE MOST SOPHISTICATED FORM OF AI IF EVER COMES TO EXIST WOULD BE THIS FOURTH TYPE OF AI. THIS FOURTH TYPE OF AI MACHINE WILL BE ABLE TO HAVE A SENSE OF SELF-AWARENESS, EMOTIONS, AND CONSCIOUSNESS. IF THIS TYPE OF AI EVER COMES TO EXIST, THEN IT WOULD BE A REAL REVOLUTION.

AI HAS GREAT IMPORTANCE IN HEALTHCARE USE. DIFFERENT COMPANIES ARE TRYING TO DEVELOP DIFFERENT QUICK DIAGNOSIS TECHNOLOGY WITH THE HELP OF AI. FOR THE BUSINESS SECTOR, ARTIFICIAL INTELLIGENCE CAN SAVE A LOT OF TIME AND EFFORT. ROBOTIC AUTOMATION IS A TYPE OF APPLICATION THAT IS USED TO COMPLETE HUMAN BUSINESS TASKS.

IN THE EDUCATION SECTOR, AI TECHNOLOGY MEETS THE NEEDS OF THE STUDENTS. AI-ENABLED THE AUTOMATED GRADING SYSTEM FOR SAVING A LOT OF TIME IN THE RESULTS. AI IS A GREAT WAY OF INCREASING MANUFACTURING AS WELL.

IN VARIOUS OTHER FIELDS AS WELL, THE CONTRIBUTION OF ARTIFICIAL INTELLIGENCE IS HUGE. HENCE IT IS CLEAR THAT ARTIFICIAL INTELLIGENCE IS ALL SET TO BE THE FUTURE OF THE ENTIRE WORLD. THE WORLD SEEMS EXCITING AND INTRIGUING WITH ARTIFICIAL INTELLIGENCE.

SHIVANGI VARSHNEY(2ND YEAR)

SOME THINGS AND SOME PEOPLE ARE LOST FOR GOOD



I HAD A DREAM,
WHERE I FELT A GENIAL BEAM.
AND I WAS BLESSED BY TITS WARMTH BUT SUDDENLY I
SCREAMED,
I SAW MYSELF SURROUNDED BY TREES, WOODS, AND ICE.
NOT A PERSON, PLACE, OR CITY COULD FIND MY EYES,
AND EVEN THOUGH ALL OF IT WAS APPALLING BUT IT SEEMED
NICE.

I LOOKED AROUND TO GATHER SOME HOPE,
AND KEPT FEELING ANXIOUS TILL I COULD COPE.
THEN AMIDST THE FULGENT BEAM, I COULD SEE SOMEONE
COMING NEAR TO ME,
A GIRL WHO LOOKED CHARMING, ELEGANT, AND FREE.
SHE GREETED ME WITH A HOPEFUL AND EXCITED APPEARANCE,
AND PROMISED ME "TOGETHER WE'LL FIND THIS COLD FOREST'S
FENCE".

SHE TOLD ME SHE HAD BEEN STUCK HERE LONG,
AND THAT'S HOW SHE HAD LOST ALL THE FEARS ALONG.

WE THEN PROMISED WE WON'T LEAVE EACH OTHER ALONE, AND
FIND THE ESCAPE TO THIS PLACE AND TOGETHER BE GONE.
SEARCHING THE EVADE FOR QUITE A FEW DAYS,
WE CAME ACROSS A MAN WHO LOOKED WEIRD IN SOME WAYS.
HE ASKED US AND OFFERED TO HELP,
SAID EITHER HE'LL FREE ONLY ONE OF US OR GIVE BOTH OF US
THE MAP TO OUT THIS HELL.

34

I ELECTED THE MAP BECAUSE I KNEW I WASN'T ALONE,
BUT WITHOUT A THOUGHT, SHE DISSED US AND VOTED TO FREE
HER OWN.

AT THAT MOMENT I JUST STARED AT HER AND COULD SPEAK
NOTHING,
AND KEPT ASKING MYSELF HOW COULD SHE EVEN DO THAT
THING.

ALL THE PROMISES, TRUST, AND MY HEART FELL APART,
CAUSE SHE CHOOSES JUST HERSELF AND DIDN'T GIVE ME ANY
PART.

WHEN I ASKED HER ABOUT IT, SHE YELLED AT ME ASKING WHY AM
I CREATING A FUSS,
BUT SHE DIDN'T REALIZE THAT SHE BETRAYED MY TRUST, SHE
BETRAYED US.

I KNEW AT THAT MOMENT THAT PEOPLE WITH GOLD ON THE
APPEARANCE PART,
COULD EASILY HAVE A SELFISH HEART.

AND THEN SHE WAS GONE WITH THAT MAN,
AND AGAIN ALONE, THROUGH THE FOREST, I RAN.

A FEW SECONDS LATER I TOOK A HALT,
AND REALIZED THAT IT WAS MY OWN FAULT.

I REALIZED THAT I SHOULDN'T HAVE TRUSTED SOMEONE SO BAD,
CAUSE PEOPLE IN THIS WORLD DON'T ALWAYS MAKE US GLAD.

I FELT SO HEAVY THAT I WOKE UP FROM THE DREAM,
MAYBE THAT PAIN IN MY HEART WANTED TO SCREAM.

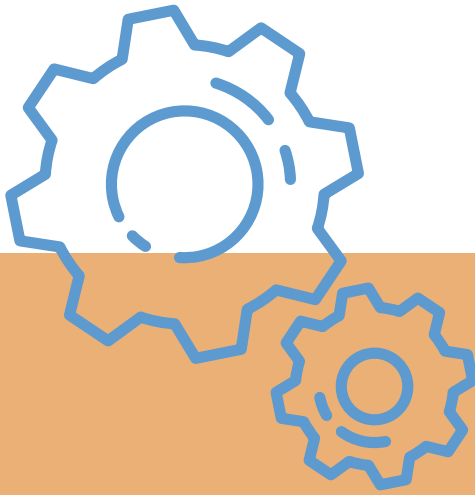
THAT MORNING I LEARNED HOWEVER BAD WE NEED ANY HELP,
RATHER THAN ON PEOPLE, WE SHOULD COUNT ON OURSELVES.

AND ALL THOSE PEOPLE WHO LOOK GOOD ON THE OUTSIDE,
COULD WITH NO DOUBT HAVE SO MANY SIDES.

SO EVEN IF SOMEDAY YOU ALL FIND YOURSELVES LOST IN ANY
WOODS,

JUST TELL YOURSELF YOU STILL HAVE YOU AND SOME THINGS AND
SOME PEOPLE ARE LOST FOR GOOD.

5 NEW TRENDS AND INNOVATIONS



5 NEW TRENDS AND INNOVATIONS IN ELECTRICAL ENGINEERING:

1. PREFABRICATED PRODUCTS

THE NEED FOR PREFABRICATED PRODUCTS IS GROWING AS THERE IS STILL A LABOR SHORTAGE IN THE INDUSTRY. USING PREFAB PRODUCTS ON LARGE JOBS WITH IDENTICAL LAYOUTS SUCH AS HOTELS OR HOSPITALS CAN SAVE AN ELECTRICAL ENGINEER VALUABLE TIME ON A PROJECT.

PREFABRICATED PRODUCTS ALLOW THE ELECTRICAL ENGINEER TO FOCUS ON MORE TECHNICAL WORK, RATHER THAN DOING REPETITIVE ELECTRICAL WORK THAT CAN BE COMPLETED OFFSITE.

USING PREFAB PRODUCTS ALSO INCREASES ELECTRICIAN SAFETY ON THE JOB.

2. THE SMART GRID

“THE GRID” IS A NETWORK OF TRANSMISSION LINES THAT DELIVER ELECTRICITY FROM POWER PLANTS TO THE PUBLIC. ANYTIME YOU PLUG SOMETHING IN, OR TURN ON A LIGHT, YOU ARE UTILIZING THE GRID. THE GRID HAS BEEN ADVANCING IN RECENT YEARS AND IS GOING TO CONTINUE TO DO SO.

THIS NEW GRID IS CALLED A “SMART” GRID, WHICH IS THE ADVANCEMENT OF THE CURRENT GRID, AND ENABLES TECHNOLOGY TO COMMUNICATE WITH THE NETWORK TO GET MORE DETAILS FROM THE INFORMATION.

ELECTRICAL ENGINEERS WILL PLAY A CRUCIAL ROLE IN TRANSITIONING INTO A SMARTER GRID. FOR FUTURE CONSTRUCTION PROJECTS, CONSIDER INSTALLING UTILITIES WITH THESE SMART GRID TECHNOLOGIES, AS YOU’LL BE ABLE TO GATHER MORE INFORMATION FROM THEM AND HELP TO TRANSITION THE GRID AS WELL.

3.INTERNET OF THINGS (IOT)

WHAT IS THE INTERNET OF THINGS? IN A SIMPLE SENSE, IT IS THE COLLECTION OF SMART DEVICES OR OBJECTS THAT CONNECT TO THE INTERNET. THESE OBJECTS LINK TO A NETWORK AND COLLECT AND EXCHANGE DATA. OBJECTS INCLUDE SMARTPHONES, WEARABLE TECHNOLOGY, SIMPLE SENSORS, AND ANY OTHER TECHNOLOGY THAT HAS INTERNET CAPABILITY. THE MORE THESE DEVICES “TALK” TO EACH OTHER, THE MORE DATA CAN BE COLLECTED. ELECTRICAL CONTRACTORS WILL BE SEEING AN INCREASE IN IOT DEVICES BEING USED IN THE CONSTRUCTION INDUSTRY AND WILL HAVE THE ABILITY TO COLLECT DATA FROM THESE SOURCES. IN THE FUTURE, ELECTRICAL CONTRACTORS WILL SEE A HIGHER DEMAND FOR INSTALLING THESE SYSTEMS INTO BUILDINGS AND MAKING SURE THEY ARE FUNCTIONAL. THIS SERVICE GOES BEYOND JUST INSTALLING SENSORS AND INCLUDES AN ONGOING PERFORMANCE OF MONITORING AND MAINTAINING THE SYSTEM. LEARNING HOW TO WORK WITH IOT AND BEING COMFORTABLE WITH THESE DEVICES WILL BE VERY BENEFICIAL FOR ELECTRICAL ENGINEERS WHO CAN ALSO BEGIN TO UTILIZE THESE INTERNET-CONNECTED TOOLS THEMSELVES DURING CONSTRUCTION PROJECTS.

4.ROBOTICS

ROBOTS CAN SIGNIFICANTLY IMPROVE WORKING CONDITIONS AND SAFETY RISKS FOR ELECTRICAL ENGINEERS. THERE ARE MANY WAYS TO IMPLEMENT TECHNOLOGY INTO THE CONSTRUCTION INDUSTRY; HERE ARE A FEW SPECIFIC EXAMPLES FOR ELECTRICAL ENGINEERS. THE USE OF DRONES IN THE INDUSTRY HAS SKYROCKETED IN RECENT YEARS. DRONES WILL SURVEY A SITUATION AND NOTIFY THE ELECTRICIAN OF ISSUES BEFORE THEY GO IN. THE DRONE HELPS TO KEEP THE ELECTRICIAN SAFE AND KEEPS THEM INFORMED. FOR EXAMPLE, WHEN WORKING WITH DOWNED POWERLINES, DRONES CAN GO IN AND SURVEY THE SITE TO MAKE SURE THERE ARE NO UNSAFE CONDITIONS BEFORE THE ELECTRICAL ENGINEERS GO IN TO FIX THEM.

5.AUGMENTED REALITY

AUGMENTED REALITY IS AN IMMERSIVE TECHNOLOGY THAT OVERLAYS IMAGES AND INFORMATION ONTO REAL LIFE, TO BRIDGE THE GAP BETWEEN THE DIGITAL WORLD AND THE PHYSICAL ONE, IN REAL-TIME. AR DIFFERS FROM VIRTUAL REALITY, WHICH IS AN ENTIRELY ARTIFICIAL ENVIRONMENT THAT THE SOFTWARE CREATES. THE CONSTRUCTION INDUSTRY, SPECIFICALLY ELECTRICAL ENGINEERS, CAN BENEFIT FROM THE USE OF THIS TECHNOLOGY TO EASE THE CONSTRUCTION PROCESS. THERE ARE PRODUCTS OUT THERE LIKE MICROSOFT'S HOLOLENS THAT PARTNER WITH TRIMBLE TO BRING AUGMENTED REALITY INTO THE INDUSTRY.

THIS FUNCTIONS AS A TOOL TO PROVIDE INFORMATION ABOUT THE JOB WHILE CONTRACTORS ARE WORKING IT. FOR EXAMPLE, HEADSETS CAN OVERLAY IMPORTANT INFORMATION FOR A TECHNICIAN'S USE IN THEIR CURRENT WORKING ENVIRONMENT. AR CAN IMPROVE WORKING CONDITIONS AND THE WORKING ENVIRONMENT BY PROVIDING REAL-TIME INFORMATION TO BE MORE ACCURATE ON THE JOB. IT IMPROVES EFFICIENCY AND PRODUCTIVITY BY SPEEDING UP PROCESSES INVOLVED IN ELECTRICAL ENGINEERING.

THE COMPOUND EFFECT



WE ALL COME INTO THIS WORLD THE SAME: NAKED, SCARED, AND IGNORANT. AFTER THAT GRAND ENTRANCE, THE LIFE WE END UP WITH IS SIMPLY AN ACCUMULATION OF ALL THE CHOICES WE MAKE. OUR CHOICES CAN BE OUR BEST FRIEND OR OUR WORST ENEMY. THEY CAN DELIVER US TO OUR GOALS OR SEND US ORBITING INTO A GALAXY FAR, FAR AWAY. THINK ABOUT IT. EVERYTHING IN YOUR LIFE EXISTS BECAUSE YOU FIRST MADE A CHOICE ABOUT SOMETHING. CHOICES ARE AT THE ROOT OF EVERY ONE OF YOUR RESULTS. EACH CHOICE STARTS A BEHAVIOUR THAT OVER TIME BECOMES A HABIT. CHOOSE POORLY, AND YOU JUST MIGHT FIND YOURSELF BACK AT THE DRAWING BOARD, FORCED TO MAKE NEW, OFTEN HARDER CHOICES. DON'T CHOOSE AT ALL, AND YOU'VE MADE THE CHOICE TO BE THE PASSIVE RECEIVER OF WHATEVER COMES YOUR WAY. IN ESSENCE, YOU MAKE YOUR CHOICES, AND THEN YOUR CHOICES MAKE YOU. EVERY DECISION, NO MATTER HOW SLIGHT, ALTERS THE TRAJECTORY OF YOUR LIFE—WHETHER TO GO TO COLLEGE, WHO TO MARRY, TO HAVE THAT 24 THE COMPOUND EFFECT LAST DRINK BEFORE YOU DRIVE, TO INDULGE IN GOSSIP OR STAY SILENT, TO MAKE ONE MORE PROSPECTING CALL OR CALL IT A DAY, TO SAY I LOVE YOU OR NOT. EVERY CHOICE HAS AN IMPACT ON THE COMPOUND EFFECT OF YOUR LIFE.

OUR CHOICES ARE OFTEN SHAPED BY OUR CULTURE AND UPBRINGING. THEY CAN BE SO ENTWINED IN OUR ROUTINE BEHAVIOURS AND HABITS THAT THEY SEEM BEYOND OUR CONTROL. FOR INSTANCE, HAVE YOU EVER BEEN GOING ABOUT YOUR BUSINESS, ENJOYING YOUR LIFE, WHEN ALL SUDDEN YOU MADE A STUPID CHOICE OR SERIES OF SMALL CHOICES THAT ULTIMATELY SABOTAGED YOUR HARD WORK AND MOMENTUM, ALL FOR NO APPARENT REASON? YOU DIDN'T INTEND TO SABOTAGE YOURSELF, BUT BY NOT THINKING ABOUT CHOICES 25 YOUR DECISIONS—WEIGHING THE RISKS AND POTENTIAL OUTCOMES—YOU FOUND YOURSELF FACING UNINTENDED CONSEQUENCES. NOBODY INTENDS TO BECOME OBESE, GO THROUGH BANKRUPTCY, OR GET A DIVORCE, BUT OFTEN (IF NOT ALWAYS) THOSE CONSEQUENCES ARE THE RESULT OF A SERIES OF SMALL, POOR CHOICES.

ARE YOU TELLING YOURSELF THAT YOU'RE STARTING SO LATE THAT YOU'RE ALREADY WAY BEHIND THE EIGHT BALL AND CAN NEVER CATCH UP? THAT'S JUST ANOTHER TIRED TAPE IN YOUR HEAD; IT'S TIME TO TURN IT OFF. IT'S NEVER TOO LATE TO REAP THE BENEFIT OF THE COMPOUND EFFECT. SUPPOSE YOU'VE ALWAYS WANTED TO PLAY THE PIANO BUT FEEL IT'S TOO LATE BECAUSE YOU'RE ABOUT TO TURN FORTY. IF YOU START NOW, BY THE TIME YOUR RETIREMENT AGE, YOU COULD BE A MASTER, AS YOU'LL HAVE BEEN PLAYING FOR TWENTY-FIVE YEARS! THE KEY IS TO START NOW. EVERY GREAT ACT, EVERY FANTASTIC ADVENTURE, STARTS WITH SMALL STEPS. THE FIRST STEP ALWAYS LOOKS HARDER THAN IT ACTUALLY IS.

THE EARLIER YOU START MAKING SMALL CHANGES, THE MORE POWERFULLY THE COMPOUND EFFECT WORKS IN YOUR FAVOR. SO NOW PUT THE COMPOUND EFFECT TO WORK AND SEE THE BEAUTY OF WHAT BIG THINGS CAN HAPPEN JUST BY A LITTLE CHANGE IN HABITS, START BY THINKING YOUR WAY OUT OF THE INSTANT GRATIFICATION TRAP

- GAGANDEEP SINGH(3RD YEAR)

40

PROJECTS

PROJECT NUMBER 1

TITTLE - TESLA COIL "THE WIRELESS ELECTRICITY"

MADE BY PRAKHAR SHUKLA AND SHASHWAT CHAUDHARY

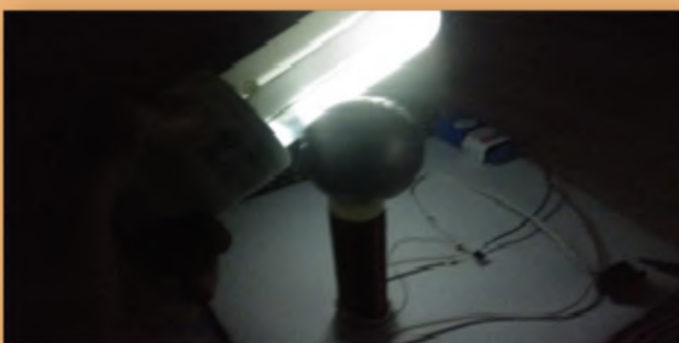
PROJECT DETAILS

THE MAIN OBJECTIVE WAS TO DEMONSTRATE WIRELESS POWER TRANSMISSION USING SOLID-STATE TESLA COILS. TESLA COILS ARE REMARKABLE DEVICES ABLE TO GENERATE HIGH VOLTAGE, HIGH-FREQUENCY WAVEFORMS WITH LITTLE CONTROL CIRCUITRY. MOST OF THE BUILDERS OF TESLA COILS ARE INTERESTED IN PRODUCING ELECTRIC ARCS AND VISIBLE EFFECTS SUITABLE FOR DISPLAYS AND GENERAL AMUSEMENT, NOT IN PRODUCING POWER SUPPLIES AND POWER EFFECTS UNITS THAT MAY HAVE SIGNIFICANT PRACTICAL IMPORTANCE. IT HAS DEMONSTRATED THAT TESLA COILS CAN BE DESIGNED FOR WIRELESS POWER TRANSMISSION.

APPLICATION-

- TESLA COIL CIRCUITS WERE USED COMMERCIALY IN SPARK-GAP RADIO TRANSMITTERS FOR WIRELESS TELEGRAPHY UNTIL THE 1920S, AND IN ELECTROTHERAPY AND PSEUDO-MEDICAL DEVICES SUCH AS VIOLET RAY.
- TODAY, ALTHOUGH SMALL TESLA COILS ARE USED AS LEAK DETECTORS IN SCIENTIFIC HIGH VACUUM SYSTEMS AND IGNITERS IN ARC WELDERS, THEIR MAIN USE IS ENTERTAINMENT AND EDUCATIONAL DISPLAYS.
- TESLA COILS ARE BUILT BY MANY HIGH-VOLTAGE ENTHUSIASTS, RESEARCH INSTITUTIONS, SCIENCE MUSEUMS, AND INDEPENDENT EXPERIMENTERS.
- ALTHOUGH ELECTRONIC CIRCUIT CONTROLLERS HAVE BEEN DEVELOPED, TESLA'S ORIGINAL SPARK GAP DESIGN IS LESS EXPENSIVE AND HAS PROVEN EXTREMELY RELIABLE.

IMAGES OF PROJECT



41

PROJECT NUMBER 2

TITLE- PASSWORD PROTECTED LOCKING SYSTEM

MADE BY- DEEKSHA SINGH, GOPAL SENGAR AND MANAV MEHRA

PROJECT DETAILS-

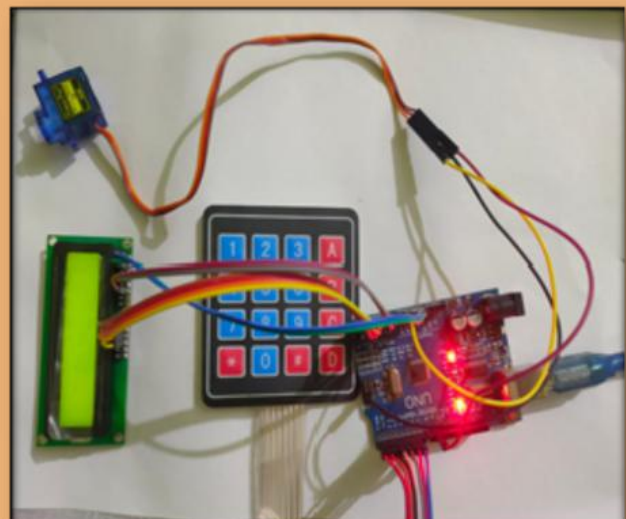
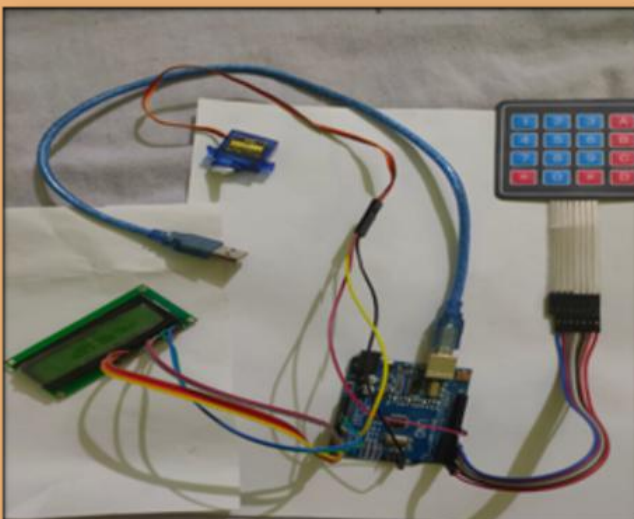
THE INTERNET OF THINGS (IOT) DESCRIBES THE NETWORK OF PHYSICAL OBJECTS—"THINGS"—THAT ARE EMBEDDED WITH SENSORS, SOFTWARE, AND OTHER TECHNOLOGIES FOR THE PURPOSE OF CONNECTING AND EXCHANGING DATA WITH OTHER DEVICES AND SYSTEMS OVER THE INTERNET. IOT WANTS TO CONNECT ALL POTENTIAL OBJECTS TO INTERACT EACH OTHER ON THE INTERNET TO PROVIDE SECURE, COMFORT LIFE FOR HUMAN. INTERNET OF THINGS (IOT) MAKES OUR WORLD AS POSSIBLE AS CONNECTED TOGETHER.

"PASSWORD PROTECTED LOCKING SYSTEM" IN THIS PROJECT FEW COMPONENTS ARE USED (ALREADY MENTIONED & DESCRIBED) THAT CAN BE CONNECTED AND THEN PROGRAMMED TO PRODUCE A SYSTEM THAT PROVIDES SECURITY TO THE THINGS WHERE IT IS INSTALLED.

APPLICATION-

- THIS SIMPLE CIRCUIT CAN BE USED AT RESIDENTIAL PLACES TO ENSURE BETTER SAFETY.
- IT CAN BE USED AT ORGANIZATIONS TO ENSURE AUTHORIZED ACCESS TO HIGHLY SECURED PLACES.
- THE SYSTEM IS USED TO PROTECT HOMES FROM THIEVES.
- ONLY A VERIFIED PERSON HAS ACCESS.
- THIS SYSTEM CAN ALSO BE INSTALLED AT THE LOCKERS.

IMAGES OF PROJECT



42

PROJECT NUMBER 3

TITLE- IMPLEMENTING OPEN CV ON AI DRONE USING RASPBERRY PI MODULE

MADE BY- MUNTAHA ROUF, ARCHANA YADAV, BIPUL SHARMA, VISHAL GUPTA

PROJECT DETAILS-

DRONES, AS WE KNOW IN THIS MODERN ERA, PLAY A VITAL ROLE IN AUTOMATING OPERATIONS AND MAKING LIFE SIMPLER, PARTICULARLY IN HILLY AND DANGEROUS CLIMATES WHERE HUMANS ARE UNABLE TO REACH. WE LOOKED AT A VARIETY OF APPLICATIONS FOR AI DRONE TECHNOLOGY IN THIS RESEARCH. . RESEARCHERS IN THIS SECTOR MUST STILL OFFER DATABASES FOR EXISTING APPLICATIONS AND CREATE DATABASES FOR NEW TECHNOLOGY USING THIS SORT OF AI TECHNOLOGY. FURTHER MORE, SINCE THE INTRODUCTION OF AI, THE NUMBER OF DRONES BASED ON NEW HARDWARE AND SOFTWARE HAS INCREASED EXPONENTIALLY, AND THE RAPID ADVANCEMENT IN THE GROWTH OF NEW APPLICATIONS AND DIFFERENT TYPES OF DRONES IS UNSTOPPABLE, AS IS THE INCREASING POWER AND ACCURACY OF SOFTWARE WITH EMBEDDED NEURAL NETWORK AND COMPUTER VISION.

APPLICATION-

AUTOMATED DRONES CAN BE USED IN OIL & GAS FACILITIES FOR SECURITY, SURVEILLANCE, EMERGENCY RESPONSE AND INFRASTRUCTURE INSPECTION.

IMAGES OF PROJECT



43

EXTRA CURRICULAR ACTIVITIES

"TECHNOFRENZY"

THE FIRST-EVER EVENT OF THE CLUB WAS ORGANIZED BY THE NEWLY APPOINTED SECRETARIAT AND COORDINATORS OF THE EESA CLUB UNDER THE GUIDANCE OF OUR PRESIDENT AND VP. THE EVENT WAS ORGANIZED ON THE 18TH OF OCTOBER IN 2021 BY THE EESA CLUB OF EE DEPARTMENT

THIS WAS AN EVENT INITIATED FOR ENCOURAGING OUR NEW MEMBERS OF THE DEPARTMENT FOR A FRESH START TO THEIR TENURE. THE MEMBERS OF THE SECOND YEAR, AS WELL AS THE THIRD YEAR, GAVE THEIR ALL TO MAKE THIS A SUCCESSFUL EVENT.

TECHINCAL AS WELL AS FUN GAMES WERE PART OF THIS EVENT.



"BRAINLY"



"VIRTUAL WAR"



"FANTASTIC FRIDAZE"

"PICS-ART"



44

PHOTO GALLERY OF TECHNOFRENYZ



7	BIT-CLUB	2
8	SIVA	1
9	ROCKSTAR	2
10	TUMBLR	1
11	B.C.A.P.E.R	1
12	PHANTOM	1
13	SHARDA	1
14	TECHNOGEEKS	1
15	ANURAG	1
16	RIYAN	1



45

EVENT 2

"UTSAV-E-DIYALI"

AN EVENT UTSAV-E- DIYALI WAS ORGANISED ON 28TH OCTOBER, 2021 ON THE OCCASION OF DIWALI BY EESA AND ZION CLUB OF EE DEPARTMENT AND EEE DEPARTMENT RESPECTIVELY TO CELEBRATE THE VICTORY OF GOOD OVER EVIL

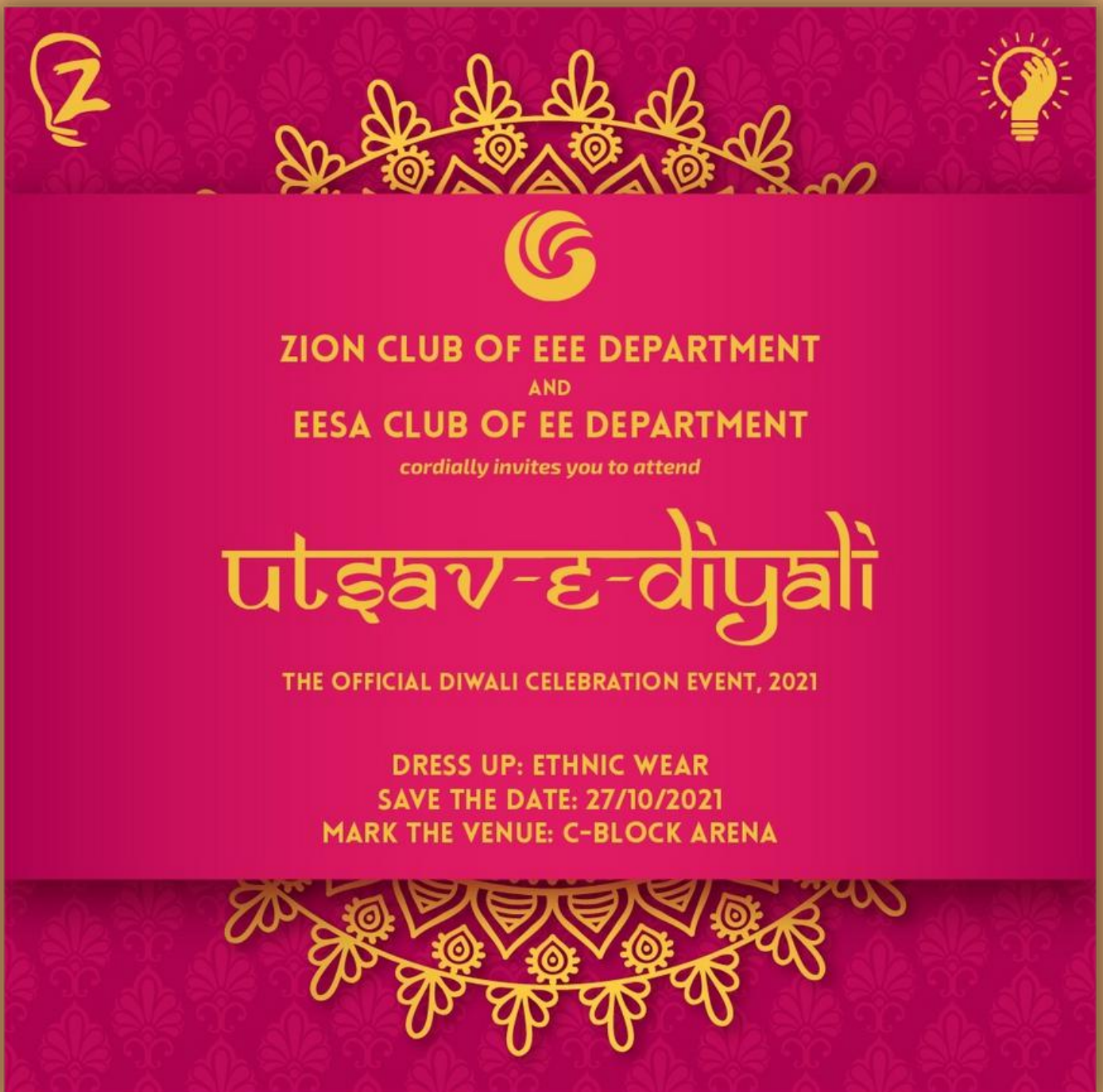


PHOTO GALLERY OF UTSAV-E-DIYALI



47

EVENT 4

"INTRA-DEPARTMENT SPORTS"

INTRA DEPARTMENT FOOTBALL AND BADMINTON WERE ORGANIZED BY OUR DEPARTMENT CLUB. THREE TEAMS OF FOOTBALL IN THE FIRST, SECOND, AND THIRD YEARS WERE FORMED. SEVERAL PARTICIPANTS FOR BADMINTON WERE THERE AS WELL FROM ALL THREE YEARS OF EE DEPARTMENT. ALL THE MATCHES WERE HELD ON 5TH OF DECEMBER 2021

PHOTO GALLERY OF FOOTBALL



PHOTO GALLERY OF BADMINTON



49

EVENT 3

"HOPE FOR HOMELESS"

"I DON'T WANT TO LIVE IN THE KIND OF WORLD WHERE WE DON'T LOOK OUT FOR EACH OTHER. NOT JUST THE PEOPLE CLOSE TO US, BUT ANYBODY WHO NEEDS A HELPING HAND. I CAN'T CHANGE HOW ANYBODY ELSE THINKS, OR WHAT THEY CHOOSE TO DO, BUT I CAN DO MY BIT."

— CHARLES DE LINT

INSPIRED BY THE QUOTE, THERE CAME THE IDEA OF DOING A BLANKET DONATION DRIVE EVERYONE DONATED TO THE CAUSE WITH THEIR OPEN HEARTS STUDENTS & FACULTIES BOTH.

THE DONATIONS WERE MADE ON 17TH OF DECEMBER 2021, AFTER THE COLLEGE HOURS.

A small contribution from you can make a change in someone's life !!



Pay using this
QR Code



HOPE FOR HOMELESS DONATION DRIVE ABOUT US!

We EESA, the departmental club of EE Dept. of GCET took an initiative to be the helping hands of those in need. With the aspiration to help the needy people we are doing a blanket donation drive.

 **eesa_club**

CONTACT US:

GAGANDEEP SINGH (8840618954)

HIMANSHU SINGH YADAV (8318218118)

PHOTO GALLERY OF HOPE FOR HOMELESS



51

DEPARTMENTAL FEST

"E TARANG"

E TARANG IS THE DEPARTMENTAL FEST CELEBRATED EVERY YEAR BY THE ELECTRICAL DEPARTMENTS OF EE AND EEE IN COLLABORATION. THIS TIME IT WAS A TWO-DAY FEST FILLED WITH FUN GAMES AND VARIOUS PERFORMANCES BY CLUB MEMBERS.

E TARANG'22 WAS HELD IN THE MONTH OF FEBRUARY 24TH AND 25TH



EVENT 3

NAME OF THE EVENT- PHOTOGRAPHY (TECHNOLENS)

DATE OF EVENT- 25TH FEBRUARY 2022

NAME OF THE COORDINATORS- UDAY VARSHNEY

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT IN
COLLABORATION WITH ZION CLUB OF EEE DEPARTMENT.

WINNERS: GAURAV SINGH.



53**EVENT 4**

NAME OF THE EVENT- DANCE FACE-OFF (BOOGIE WOOGIE)

DATE OF THE EVENT-- 24TH AND 25TH FEBRUARY 2022.

NAME OF THE COORDINATORS- VAISHNAVI SRIVASTAVA AND SHIPRA SINGH

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT IN COLLABORATION WITH ZION CLUB OF EEE DEPARTMENT.

WINNER- POOJA ROUT.



54**EVENT 5**

NAME OF THE EVENT-CHESS TOURNAMENT

DATE OF THE EVENT-25TH FEBRUARY 2022

NAME OF THE COORDINATORS- YUVRAJ SINGH

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT IN
COLLABORATION WITH ZION CLUB OF EEE DEPARTMENT.

WINNERS- CHESS WERE PUNEET SHRIVASTAVA, VAISHNAV
SHRIVASTAV, AND ANMOL AGARWAL.

THE WINNERS OF THE CHESSTOURNAMENT ARE

AS FOLLOWS: 1 – HARSH SRIVASTAVA. 2 – SUBHABRATA HORE. 3
– ANSHIT BAKSHI.



55**EVENT 6**

NAME OF THE EVENT- VOLLEYBALL

DATE OF THE EVENT – 25TH FEBRUARY 2022.NAME OF COORDINATORS- YUVRAJ SINGH(EEE) AND RITURAJ.

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT IN COLLABORATION WITH ZION CLUB OF EEE DEPARTMENT.

THE WINNER TEAM PLAYERS OF THE VOLLEYBALL TOURNAMENT WERE: (PRIYANSHU, AKHAND PRATAP YADAV, ANIRUDDH RATHI, JAYANT SINGH, RITESH, ABHAY)



56**EVENT 7**

NAME OF THE EVENT - RAISE YOUR MIC (SINGING CONTEST).

DATE OF THE EVENT-28TH MAY 2021

NAME OF COORDINATORS-ARCHIT SHARMA, TUSHAR SINGH AND MHD.SHUJA RIZVI

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT IN COLLABORATION WITH ZION CLUB OF EEE DEPARTMENT.

WINNERS- FROM THE FIRST YEAR, THERE WERE TWO WINNERS – AKSHAT JAIN WHO SECURED FIRST POSITION, AND GEETIKA BHATNAGAR WHO SECURED THE THIRD POSITION. FROM THE SECOND YEAR, AKSHITA AWASTHI SECURED THE SECOND POSITION.



57

EVENT 8

NAME OF THE EVENT – TREASURE HUNT.

DATE OF THE EVENT – 24TH FEBRUARY 2022.

ABOUT THE EVENT – A SCAVENGER HUNT WAS ORGANIZED BY THE EESA CLUB (EE) AND ZION CLUB (EEE) IN THE C – BLOCK ARENA AT 12:00 PM.

NAME OF THE COORDINATORS- VAISHNAVI SRIVASTAVA, SAGAR SINGH

THE WINNERS GROUP OF THE SCAVENGER HUNT IS THE ECE GROUP: (SRISHTI YADAV, SRESHTA, SHUBHAM MISHRA, VIKRANT CHAUHAN, VISHAL SINGH)



58

EVENT 9

NAME OF THE EVENT – TUG OF WAR. (TEACHERS AND STUDENTS)

DATE OF THE EVENT – 25TH FEBRUARY, 2022.

ABOUT THE EVENT – A TUG OF WAR TOURNAMENTS WILL HAD BEEN ORGANIZED BY THE EESA CLUB (EE) AND ZION CLUB (EEE) IN THE CDE – BLOCK GROUND , 11:30 AM ONWARDS, THE DATES AND THE NAME OF THE COORDINATOR ARE MENTIONED
COORDINATORS: ARCHIT SHARMA



59

EVENT 10

NAME OF THE EVENT – CRICKET.

DATE OF EVENT - 25TH FEBRUARY, 2022.

ABOUT THE EVENT- CRICKET TOURNAMENT WAS ORGANIZED BY THE EESA CLUB (EE) AND ZION CLUB (EEE) IN THE FOOTBALL COURT AT 2:00 PM ONWARDS, THE DATES AND THE NAME OF THE COORDINATOR ARE MENTIONED.

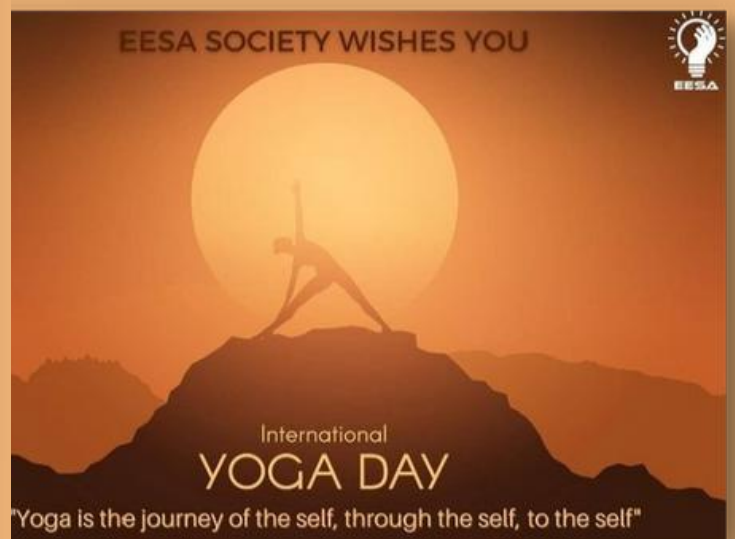
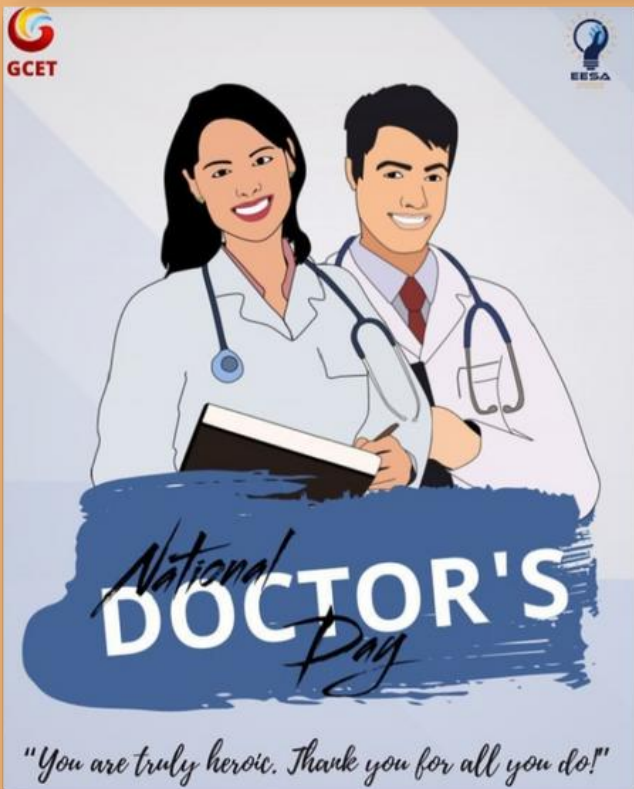
CRICKET

THE WINNERS OF CRICKET TOURNAMENT ARE THE CIVILIANS.

NAME OF THE COORDINATORS - YUVRAJ SINGH(EEE) AND NIKHIL.



EESA GREETINGS



EESA GREETINGS

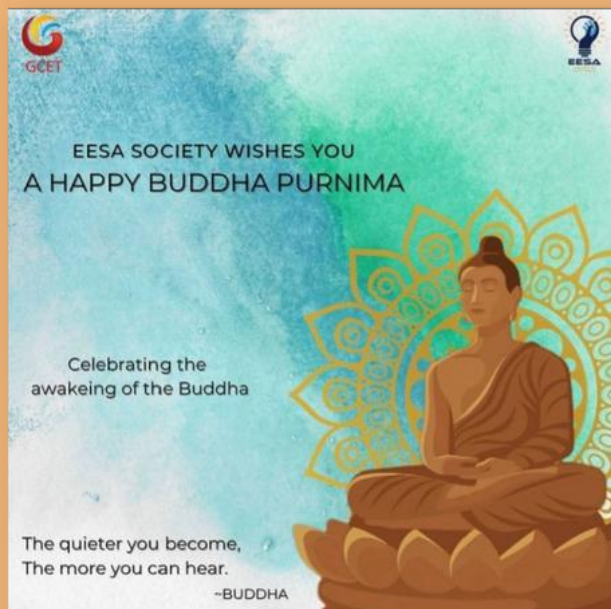


PHOTO GALLERY



PHOTO GALLERY



64

TOPPERS OF SESSION 2020-2021

SECOND YEAR TOPPERS

THIRD YEAR TOPPERS



(773/950)
SHUBHANG TRIPATHI



(736/950)
TUSHAR SINGH

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