# GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY



# AABSHAAR

"आबशार"

آبشار

Sign of Peace



"The Department of Electrical Engineering and the Electrical Engineering Students Association (EESA) proudly presents the department's magazine AABSHAAR"

JUNE 2021 VOLUME 4

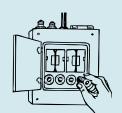
#### EESA



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

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#### CEO'S MESSAGE



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.

#### DIRECTOR'S MESSAGE



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

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- 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.

# 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



Dr. Md. Danish Equbal HOD



Dr. V S Gupta Professor



Dr. Sunil Kumar Chaudhary Professor



Dr. Pinky Yadav **Associate Professor** 



Dr. Mohammad Shahid Dr. Amit Kumar Sharma **Associate Professor** 



**Associate Professor** 



Mr. Deepak Joshi Assistant Professor



Ms. Surbhi Singh Assistant Professor



Mr. Thakur Ankit Krishnakumar Assistant Professor



Mr. Sudhanshu Mittal Assistant Professor



Mr. Dinesh Prasad Assistant Professor



Ms. Lipika Datta Assistant Professor



Mr. Manoj Saini Assistant Professor



Mr. Surrendra Kumar Pal Assistant Professor



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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DILIP CHAUDHARY

#### 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

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.

RITUPRIYA YADAV

MASTERPIECE.

(JOINT SECRETARY, CHIEF EDITOR)

**EESA** 

#### FROM GENERAL SECRETARY'S PEN



" 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. 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.

MANAV MEHRA
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 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.

Deeksha singh DEEKSHA SINGH SECRETARY, EESA

# AI (ARTIFICIAL INTELLIGENCE) GOOD OR BAD



SUCCESS IN CREATING AI WOULD BE THE BIGGEST EVENT IN HUMAN HISTORY. UNFORTUNATELY, IT MIGHT ALSO BE THE LAST, UNLESS WE LEARN HOW TO AVOID THE RISKS. ~STEPHEN HAWKING

ARTIFICIAL INTELLIGENCE IS ONE OF THE EMERGING TECHNOLOGIES WHICH TRIES TO SIMULATE HUMAN REASONING IN AI SYSTEMS. JOHN MCCARTHY INVENTED THE TERM ARTIFICIAL INTELLIGENCE IN THE YEAR 1950.

HE SAID, 'EVERY ASPECT OF LEARNING OR ANY OTHER FEATURE OF INTELLIGENCE CAN IN PRINCIPLE BE SO PRECISELY DESCRIBED THAT A MACHINE CAN BE MADE TO SIMULATE IT. AN ATTEMPT WILL BE MADE TO FIND HOW TO MAKE MACHINES USE LANGUAGE, FORM ABSTRACTIONS, AND CONCEPTS, SOLVE KINDS OF PROBLEMS NOW RESERVED FOR HUMANS, AND IMPROVE THEMSELVES.' FROM SIRI TO SELF-DRIVING CARS. ARTIFICIAL INTELLIGENCE (AI) IS PROGRESSING RAPIDLY. WHILE SCIENCE FICTION OFTEN PORTRAYS AI AS ROBOTS WITH HUMAN-LIKE CHARACTERISTICS, AI CAN ENCOMPASS ANYTHING FROM GOOGLE'S SEARCH ALGORITHMS TO IBM'S WATSON TO AUTONOMOUS WEAPONS. ARTIFICIAL INTELLIGENCE TODAY IS PROPERLY KNOWN AS NARROW AI (OR WEAK AI), IN THAT IT IS DESIGNED TO PERFORM A NARROW TASK (E.G. ONLY FACIAL RECOGNITION OR ONLY INTERNET SEARCHES OR ONLY DRIVING A CAR).

HOWEVER, THE LONG-TERM GOAL OF MANY RESEARCHERS IS TO CREATE GENERAL AI (AGI OR STRONG AI). WHILE NARROW AI MAY OUTPERFORM HUMANS AT WHATEVER ITS SPECIFIC TASK IS, LIKE PLAYING CHESS OR SOLVING EQUATIONS, AGI WOULD OUTPERFORM HUMANS AT NEARLY EVERY COGNITIVE TASK.

#### **USING AI FOR GOOD:**

"I IMAGINE A WORLD IN WHICH AI IS GOING TO MAKE US WORK MORE PRODUCTIVELY, LIVE LONGER, AND HAVE CLEANER ENERGY."~FEI-FEI LI

AI HAS MANY IMPORTANT APPLICATIONS TO HELP ACCELERATE PROGRESS TOWARDS ACHIEVING THE SUSTAINABLE DEVELOPMENT GOALS (SDGS). AI MAKES NEW SERVICES POSSIBLE IN MANY DOMAINS IMPORTANT FOR THE SDG. FOR EXAMPLE:

- 1. IN HEALTHCARE FOR SDG3, AI IS BEING USED TO HELP OFFER REMOTE HEALTH CHECKS AND FOLLOW-UP TOOLS. AI CAN ANALYZE LARGE AMOUNTS OF DATA TO BRING TOGETHER INSIGHTS FROM ACROSS LARGE POPULATIONS OF PATIENTS, IMPROVING DIAGNOSIS AND PREDICTIVE ANALYSIS. AI HAS BEEN APPLIED WITH SOME SUCCESS TO MODELS FOR DIAGNOSING COVID FROM LUNG SCANS AND IMAGERY OR TO DIAGNOSE THE COVID COUGH FROM OTHER TYPES OF COUGHS. AI AND BIG DATA HAVE THE POTENTIAL TO IMPROVE HEALTHCARE SYSTEMS BY OPTIMIZING WORKFLOWS IN HOSPITALS, PROVIDING MORE ACCURATE DIAGNOSES, OPTIMIZING CLINICAL DECISION-MAKING, AND BRINGING BETTER TREATMENTS AND HIGHER-QUALITY CARE AT A LOWER COST.
- 2. IN EDUCATION FOR SDG4, AI IS BEING USED TO MONITOR PUPILS' ATTENTION OR TO CARRY OUT EMOTIONAL SURVEILLANCE TO DETERMINE HOW COMFORTABLE CHILDREN ARE LEARNING CERTAIN SUBJECTS, IDENTIFYING STUDENTS WHO ARE STRUGGLING BEFORE THEIR TEST RESULTS BECOME AVAILABLE. IN MANY COUNTRIES, AI IS BEING USED TO DEVELOP PERSONALIZED TESTING TOOLS, IDENTIFY AREAS OF WEAKNESS, AND HELP STUDENTS IMPROVE.

- 3. IN TRANSPORT, AI IS HELPING FACILITATE FULLY AUTONOMOUS VEHICLES AND AUTONOMOUS DRIVING SYSTEMS (ADS), WHICH STEADILY IMPROVE THEIR DRIVING AND NAVIGATION SKILLS THROUGH SELF-LEARNING PROGRAMS, AS WELL AS FOR REAL-TIME TRAFFIC MANAGEMENT THROUGH URBAN SPACES.
- 4. IN FINANCE, AI COMMONLY PROVIDES INSIGHTS AND ASSISTANCE WITH ACCOUNTING AND INVESTMENT WORK, INCLUDING AUTOMATING ROUTINE TASKS AND UNCOVERING NEW DATA PATTERNS THAT COULD HELP WITH MICRO-INVESTMENTS TO COMBAT POVERTY (SDG1) OR INTRODUCE NEW FINANCIAL SERVICES AND INFRASTRUCTURE (SDG9).

#### AI DANGER:

"AI DOESN'T HAVE TO BE EVIL TO DESTROY HUMANITY – IF AI HAS A GOAL AND HUMANITY JUST HAPPENS TO COME IN THE WAY, IT WILL DESTROY HUMANITY AS A MATTER OF COURSE WITHOUT EVEN THINKING ABOUT IT, NO HARD FEELINGS."~ELON MUSK

MOST RESEARCHERS AGREE THAT A SUPERINTELLIGENT 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:

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 SUPERINTELLIGENT SYSTEM IS TASKED WITH AN 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.

#### **CONCLUSION:**

"AI IS NEITHER GOOD NOR EVIL. IT IS A TOOL. IT IS A TECHNOLOGY FOR US TO USE." ~OREN ETZIONI

IN CONCLUSION, AI IS A GAME-CHANGING TECHNOLOGY AND ONE THAT IS HERE TO STAY. HOWEVER, WE NEED TO BE WARIER ABOUT CREATING COMPUTERS THAT REFLECT THE WORST IN HUMANITY IN TERMS OF RACISM, SEXISM, AND OTHER FORMS OF BIAS. WE ALSO NEED TO PREPARE FOR THE FUNDAMENTAL IMPACT OF AI ON SOCIETY. SOCIETY HAS BEEN THROUGH SUCH UPHEAVAL IN THE PAST, BUT THE MORE PREPARED WE ARE, THE BETTER WE WILL BE ABLE TO COPE.

-MOHD. SHUJA RIZVI (2ND YEAR)

#### NATIONAL EDUCATION POLICY

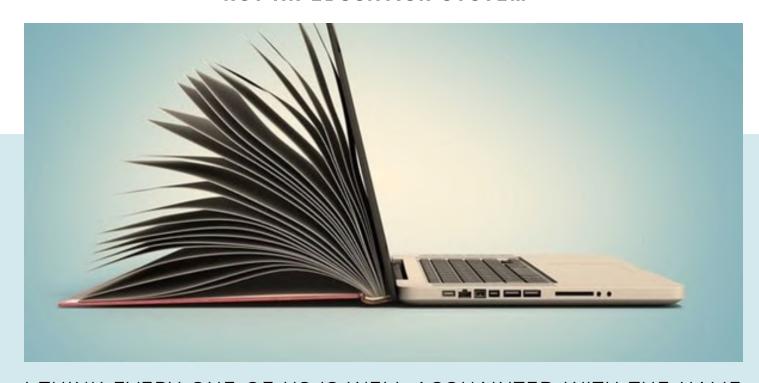


THE NATIONAL EDUCATION POLICY 2020 ANNOUNCED BY THE MINISTRY OF HUMAN RESOURCE DEVELOPMENT HAS PROPOUNDED WITH THE MISSION OF REDEFINING SYSTEM OF THE COUNTRY TO EDUCATION CATER REQUIREMENTS OF THE 21ST CENTURY INDIA. THE POLICY, INTER ALIA, WORKS TO REMOVE PROBLEMS OF PEDAGOGY, STRUCTURAL ASYMMETRIES, ACCESS AND INEQUITIES, COMMERCIALIZATION. THE NEP 2020 IS THE FIRST OMNIBUS POLICY AFTER THE ONE ISSUED IN 1986, AND IT HAS TO CONTEND WITH MULTIPLE CRISES IN THE SYSTEM. IT IS NO SECRET THAT PRIMARY SCHOOLS RECORD SHOCKINGLY POOR LITERACY AND NUMERACY OUTCOMES, DROPOUT LEVELS IN MIDDLE AND SECONDARY SCHOOLS ARE SIGNIFICANT, AND THE HIGHER EDUCATION SYSTEM HAS GENERALLY FAILED TO MULTI-DISCIPLINARY PROGRAMS. **ASPIRATIONS** FOR STRUCTURAL TERMS, THE NEP'S MEASURES TO INTRODUCE EARLY CHILDHOOD EDUCATION FROM AGE 3, OFFER SCHOOL BOARD EXAMINATIONS TWICE A YEAR TO HELP IMPROVE PERFORMANCE, MOVE AWAY FROM ROTE LEARNING, RAISE MATHEMATICAL SKILLS EVERYONE, SHIFT TO A FOUR-YEAR UNDERGRADUATE COLLEGE DEGREE SYSTEM, AND CREATE A HIGHER EDUCATION COMMISSION OF INDIA REPRESENT MAJOR CHANGES. PROGRESS ON THESE CRUCIALLY DEPENDS ON THE WILL TO SPEND THE PROMISED 6% OF GDP AS PUBLIC EXPENDITURE ON EDUCATION.

THE POLICY ALSO SAYS THAT WHEREVER POSSIBLE, THE MEDIUM OF INSTRUCTION IN SCHOOLS UNTIL AT LEAST CLASS 5, BUT PREFERABLY UNTIL CLASS 8 AND BEYOND, WILL BE THE HOME LANGUAGE OR MOTHER TONGUE, OR REGIONAL LANGUAGE. THIS IS A LONG-HELD VIEW, IN A LARGE AND DIVERSE COUNTRY WHERE MOBILITY IS HIGH, THE STUDENT SHOULD HAVE THE OPTION TO STUDY IN THE LANGUAGE THAT ENABLES A TRANSFER NATIONALLY. ENGLISH HAS PERFORMED THAT ROLE DUE TO HISTORICAL FACTORS. THERE ARE SOME GOOD ELEMENTS TO THE NEP 2020 THAT WILL GENERATE LITTLE FRICTION AND NEED ONLY ADEQUATE RESOURCING. PROVISION OF AN ENERGY-FILLED BREAKFAST, IN ADDITION TO THE NUTRITIOUS MID-DAY MEAL, TO HELP CHILDREN ACHIEVE BETTER LEARNING OUTCOMES, IS ONE. THE CREATION OF 'INCLUSION FUNDS' TO HELP SOCIALLY AND EDUCATIONALLY DISADVANTAGED CHILDREN PURSUE EDUCATION IS ANOTHER. WHERE THE POLICY FAILS TO SHOW HOWEVER, IS ON UNIVERSALIZATION OF ACCESS, BOTH IN SCHOOLS AND HIGHER EDUCATION; THE RIGHT TO EDUCATION NEEDS SPECIFIC MEASURES TO SUCCEED. MOREOVER, FEE REGULATIONS EXIST IN SOME STATES EVEN NOW, BUT THE REGULATORY PROCESS IS UNABLE TO REIN IN PROFITEERING IN THE FORM OF UNACCOUNTED DONATIONS. THE IDEA OF A NATIONAL HIGHER EDUCATION REGULATORY COUNCIL AS AN APEX CONTROL ORGANIZATION IS BOUND TO BE RESENTED BY STATES. SIMILARLY, A NATIONAL BODY FOR APTITUDE TESTS WOULD HAVE TO CONVINCE THE STATES OF ITS MERITS. AMONG THE MANY IMPERATIVES, THE DEADLINE TO ACHIEVE UNIVERSAL LITERACY AND NUMERACY BY 2025 SHOULD BE A TOP PRIORITY AS A GOAL THAT WILL CRUCIALLY DETERMINE PROGRESS AT HIGHER LEVELS.

-BIPUL SHARMA (4TH YEAR)

## INDIA HAS AN EXAMINATION SYSTEM, NOT AN EDUCATION SYSTEM



I THINK EVERY ONE OF US IS WELL ACQUAINTED WITH THE NAME OF THE MOVIE 'THREE IDIOTS'. THIS MOVIE WOULDN'T HAVE BEEN SUCH A BLOCK-BLUSTER IF IT DID NOT STRIKE A CHORD DEEP WITHIN OUR HEARTS. THE INDIAN EXAMINATION SYSTEM IS FAULTY IN THE SENSE THAT A NUMBER OF BOARDS HAVE FAILED TO CREATE INQUISITIVE AND CREATIVE MINDS, RATHER THEY HAVE CREATED PASSIONATE MUGGERS. THE FACT IS THAT A PASSIONATE MUGGER TOPS THE CLASS AND THE ONE WHO WANTS TO SEE THE LOGIC BEHIND EVERYTHING IS LEFT BEHIND AND BEARS ALL THE CRITICISM. THIS CONVERTS A REASONING MIND INTO A DUMB TOPPER.

'EXAMINATION', WHEN THIS TERM WAS FIRST COINED, MEANT ONLY THE TESTS FOR EVALUATING A STUDENT'S KNOWLEDGE. BUT THE PRESENT SYSTEM OF EDUCATION IGNORES AN INDIVIDUAL'S SET OF SKILLS. TODAY, A STUDENT LEARNS NOTHING BEYOND THE SYLLABUS AND THE TEACHER BECAUSE OF THE SO-CALLED DEADLINE, RUNS WITH THE COURSE, AND SOMETIMES EVEN THE FULL COURSE IS NOT WELL EXPLAINED BECAUSE THEY ARE SHORT OF TIME. THEY ONLY TELL WHAT IS IMPORTANT TO GET MARKS. THE MINDSET OF TODAY'S STUDENTS IS JUST TO MUG UP THE SYLLABUS AND IGNORING THE ACTUAL CONCEPT BEHIND IT.

NO ONE EVER CARES ABOUT KNOWLEDGE. NOWADAYS, MARKS MATTER, NOT KNOWLEDGE. INSTEAD OF TEACHING THE STUDENT, HOW TO SCORE WELL IN EXAMS, THE STUDENT MUST BE TAUGHT THINGS IN A PRACTICAL MANNER. FOR EXAMPLE, WE KNOW THE VALUE OF PIE (Π) IS 3.142..., BUT MANY OF US DO NOT KNOW WHAT PIE ACTUALLY IS OR FROM WHERE THAT VALUE CAME. THAT IS WHERE THE FAULT LIES. EXAMINATIONS ARE JUST MEMORY TESTS AND NOTHING MORE. HERE, I AM NOT JUST TALKING ABOUT ANY PARTICULAR SCHOOL OR A PARTICULAR INSTITUTION. IT'S THE STORY OF THE WHOLE EDUCATION SYSTEM OF INDIA.

SO, THE REASON WHY I CRITICIZE THE SYSTEM IS THAT IT'S TOTALLY BASED ON MARKS. YOU GET FEWER MARKS, YOU ARE A FAILURE AND IF U GET MORE MARKS YOU ARE A TOPPER. IF MARKS OR THE DEGREE COULD DECIDE THE FATE OR THE WORTH, THEN THE WORLD WOULD HAVE BEEN WITHOUT THE ICONS LIKE EINSTEIN. STEVE JOBS, CO-FOUNDER OF APPLE COMPUTERS INC. DROPPED OUT OF HIS COLLEGE AFTER SIX MONTHS ONLY, BILL GATES FOUNDER OF MICROSOFT, ALSO DROPPED OUT OF HARVARD UNIVERSITY IN HIS INITIAL YEARS. THEY FAILED IN THEIR EDUCATION JOURNEY BUT WENT ON WITH THEIR LIVES TO REVOLUTIONIZE THE WHOLE WORLD.

-ARCHIT SHARMA (2ND YEAR)

## IOT (INTERNET OF THINGS): A REVOLUTION



"THE INTERNET IS NO LONGER A WEB THAT WE CONNECT TO. INSTEAD, IT'S A COMPUTERIZED NETWORKED, AND INTERCONNECTED WORLD THAT WE LIVE IN. THIS IS THE FUTURE, AND WHAT WE ARE CALLING THE INTERNET OF THINGS." ~BRUCE SCHNEIER

THE INTERNET OF THINGS (IOT) IS AN EMERGING PARADIGM THAT ENABLES THE COMMUNICATION BETWEEN ELECTRONIC DEVICES AND SENSORS THROUGH THE INTERNET IN ORDER TO FACILITATE OUR LIVES. IOT USES SMART DEVICES AND THE INTERNET TO PROVIDE INNOVATIVE SOLUTIONS TO VARIOUS CHALLENGES AND ISSUES RELATED TO VARIOUS BUSINESS, GOVERNMENTAL AND PUBLIC INDUSTRIES ACROSS THE WORLD. IOT IS PROGRESSIVELY BECOMING AN IMPORTANT ASPECT OF OUR LIFE THAT CAN BE SENSED EVERYWHERE AROUND US. ON THE WHOLE, IOT IS AN INNOVATION THAT PUTS TOGETHER AN EXTENSIVE VARIETY OF SMART SYSTEMS, FRAMEWORKS AND INTELLIGENT DEVICES AND SENSORS.

MOREOVER, IT TAKES ADVANTAGE OF QUANTUM AND NANOTECHNOLOGY IN TERMS OF STORAGE, SENSING, AND PROCESSING SPEED WHICH WERE NOT CONCEIVABLE BEFOREHAND. EXTENSIVE RESEARCH STUDIES HAVE BEEN DONE AND AVAILABLE IN TERMS OF SCIENTIFIC ARTICLES, PRESS REPORTS BOTH ON THE INTERNET AND IN THE FORM OF PRINTED MATERIALS TO ILLUSTRATE THE POTENTIAL EFFECTIVENESS AND APPLICABILITY OF IOT TRANSFORMATIONS. IT COULD BE UTILIZED AS PREPARATORY WORK BEFORE MAKING NOVEL INNOVATIVE BUSINESS PLANS WHILE CONSIDERING SECURITY, ASSURANCE, AND INTEROPERABILITY.

A GREAT TRANSFORMATION CAN BE OBSERVED IN OUR DAILY ROUTINE LIFE ALONG WITH THE INCREASING INVOLVEMENT OF IOT DEVICES AND TECHNOLOGY. ONE SUCH DEVELOPMENT OF IOT IS THE CONCEPT OF SMART HOME SYSTEMS (SHS) AND APPLIANCES THAT CONSIST OF INTERNET-BASED DEVICES, AUTOMATION SYSTEMS FOR HOMES, AND RELIABLE ENERGY MANAGEMENT SYSTEMS. BESIDES, ANOTHER IMPORTANT ACHIEVEMENT OF IOT IS THE SMART HEALTH SENSING SYSTEM (SHSS). SHSS INCORPORATES SMALL INTELLIGENT EQUIPMENT AND DEVICES TO SUPPORT THE HEALTH OF HUMAN BEINGS. THESE DEVICES CAN BE USED BOTH INDOORS AND OUTDOORS TO CHECK AND MONITOR THE DIFFERENT HEALTH ISSUES AND FITNESS LEVELS OR THE NUMBER OF CALORIES BURNED IN THE FITNESS CENTER ETC. ALSO, IT IS BEING USED TO MONITOR CRITICAL HEALTH CONDITIONS IN HOSPITALS AND TRAUMA CENTERS AS WELL. HENCE, IT HAS CHANGED THE ENTIRE SCENARIO OF THE MEDICAL DOMAIN BY FACILITATING IT WITH HIGH TECHNOLOGY AND SMART DEVICES. MOREOVER, IOT DEVELOPERS AND RESEARCHERS HAVE BEEN ACTIVELY INVOLVED TO UPLIFT THE LIFESTYLE OF THE DISABLED AND SENIOR AGE GROUP PEOPLE. IOT HAS SHOWN A DRASTIC PERFORMANCE IN THIS AREA AND HAS PROVIDED A NEW DIRECTION FOR THE NORMAL LIFE OF SUCH PEOPLE. AS THESE DEVICES AND EQUIPMENT ARE VERY COST-EFFECTIVE IN TERMS OF DEVELOPMENT COST AND EASILY AVAILABLE WITHIN A NORMAL PRICE RANGE, HENCE MOST OF THE PEOPLE ARE AVAILING THEM. THANKS TO IOT, AS THEY CAN LIVE A NORMAL LIFE.

ANOTHER IMPORTANT ASPECT OF OUR LIFE IS TRANSPORTATION. IOT HAS BROUGHT UP SOME NEW ADVANCEMENTS TO MAKE IT MORE EFFICIENT, COMFORTABLE, AND RELIABLE. INTELLIGENT SENSORS, DRONE DEVICES ARE NOW CONTROLLING THE TRAFFIC AT DIFFERENT SIGNALIZED INTERSECTIONS ACROSS MAJOR CITIES. IN ADDITION, VEHICLES ARE BEING LAUNCHED IN MARKETS WITH PRE-INSTALLED SENSING DEVICES THAT ARE ABLE TO SENSE THE UPCOMING HEAVY TRAFFIC CONGESTIONS ON THE MAP AND MAY SUGGEST YOU ANOTHER ROUTE WITH LOW TRAFFIC CONGESTION. THEREFORE, IOT HAS A LOT TO SERVE IN VARIOUS ASPECTS OF LIFE AND TECHNOLOGY. WE MAY CONCLUDE THAT IOT HAS A LOT OF SCOPES BOTH IN TERMS OF TECHNOLOGY ENHANCEMENT AND FACILITATE HUMANKIND.

IOT HAS ALSO SHOWN ITS IMPORTANCE AND POTENTIAL IN THE ECONOMIC AND INDUSTRIAL GROWTH OF A DEVELOPING REGION. ALSO, IN THE TRADE AND STOCK EXCHANGE MARKET, IT IS BEING CONSIDERED AS A REVOLUTIONARY STEP. HOWEVER, THE SECURITY OF DATA AND INFORMATION IS AN IMPORTANT CONCERN AND HIGHLY DESIRABLE, WHICH IS A MAJOR CHALLENGING ISSUE TO DEAL WITH. INTERNET IS THE LARGEST SOURCE OF SECURITY THREATS AND CYBER-ATTACKS HAVE OPENED VARIOUS DOORS FOR HACKERS AND THUS MADE THE DATA AND INFORMATION INSECURE. HOWEVER, IOT IS COMMITTED TO PROVIDING THE BEST POSSIBLE SOLUTIONS TO DEAL WITH SECURITY ISSUES OF DATA AND INFORMATION. HENCE, THE MOST IMPORTANT CONCERN OF IOT IN TRADE AND THE ECONOMY IS SECURITY. THEREFORE, THE DEVELOPMENT OF A SECURE PATH FOR COLLABORATION BETWEEN SOCIAL NETWORKS AND PRIVACY CONCERNS IS A HOT TOPIC IN IOT, AND IOT DEVELOPERS ARE WORKING HARD FOR THIS.

#### POWER OF YOUR SUB-CONSCIOUS



DO YOU KNOW THAT YOU HAVE INFINITE KNOWLEDGE WITHIN YOU? WHAT DO YOU NEED TO DO TO UNLOCK IT?

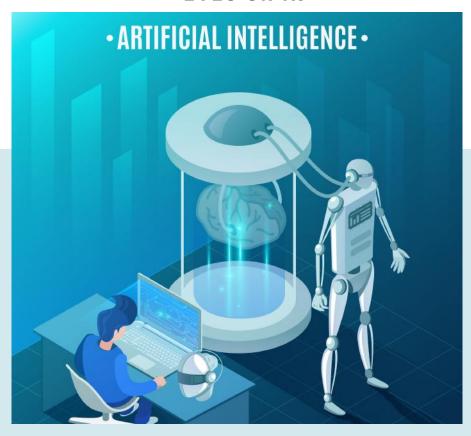
ALL YOU NEED TO DO IS TO RESURRECT YOUR MENTAL VISION TO BEHOLD THE INFINITE TREASURE HOUSE THAT HAS BEEN FORSAKEN FOR AGES BY THE PEOPLE OF OUR GENERATIONS. IT IS BEING SAID THAT "A PIECE OF MAGNETIZED IRON LEVITATES ABOUT 12 TIMES ITS OWN WEIGHT WHEREAS THE SAME PIECE OF IRON WILL NOT LIFT UP A FEATHER." SIMILARLY, THERE ARE TWO TYPES OF PEOPLE ONE WHO IS COMPLETELY MAGNETIZED WITH FAITH AND CONFIDENCE AND OTHERS DEMAGNETIZED BY FEARS AND DOUBT. YOU CAN BE THE TYPE OF MAGNETIZED PERSON WHEN PUT TO USE THE SECRET OF AGES. YOU MAY NOW WONDER WHAT IS THE SECRET OF AGES! THAT HAS BEEN KEPT HIDDEN FROM YOU FOR GENERATIONS. THE ANSWER TO THIS IS EXTRAORDINARILY SIMPLE: IT'S THE SUB-CONSCIOUS MIND THAT HAS BEEN FORSAKEN BY GENERATIONS FOR AGES AND IT'S ALSO THE SECRET OF THE TREMENDOUS EVOLUTION HUMANKIND.

THE POWER OF OUR SUBCONSCIOUS KNOWS NO LIMITATIONS. ONCE YOU CONTACT AND RELEASE THIS HIDDEN POWER OF YOUR SUBCONSCIOUS MIND, YOU CAN BRING MORE WEALTH, MORE HEALTH, MORE KNOWLEDGE, MORE JOY, MORE PEACE TO YOUR LIFE. IT'S NOT SOMETHING WHICH YOU CAN ACQUIRE WITH HARD WORK OR BY ANY OTHER MEANS YOU ALREADY POSSESS IT, WHAT YOU NEED TO DO IS LEARN TO UTILIZE IT, LEARNING ABOUT THE DUALITY OF MIND, A DEEP DIVE INTO THE UNFATHOMABLE SEA OF THE INFINITE TREASURY, LEARN ABOUT ITS HEALING METHODS. THE SUBTLE TRUTH ABOUT THE LAW OF THE SUBCONSCIOUS MIND IS THAT IT WORKS ALIKE FOR BOTH GOOD AND BAD BASED ON THE THINGS THAT YOU FEED IT. IT DOESN'T INTERPRET ANY IDEA AS SOON AS IT ACCEPTS THE IDEA IT STARTS PRODUCING EFFECTS OF IT SO WHEN YOUR HABITUAL THINKING IS SUBLIME AND CONSTRUCTIVE EVERYTHING IN THE RIGHT DIRECTION WILL START HAPPENING FORTH.

CONCLUSION: WHAT YOU CAN THINK IS WHAT YOU CAN BECOME. "IF YOU ARE A SEEKER OF TRUE PEACE LIKE ME THEN IT'S INEVITABLE, YOU'LL FIND IT ONE DAY OR ANOTHER NO MATTER HOW UNJUSTLY YOU'VE BEEN TREATED YOU WON'T BE DISTRACTED FROM THE PATH OF TRUE PEACE AS LONG AS YOU FEED RIGHT IDEAS TO YOUR SUB-CONSCIOUS."

GAGANDEEP 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.

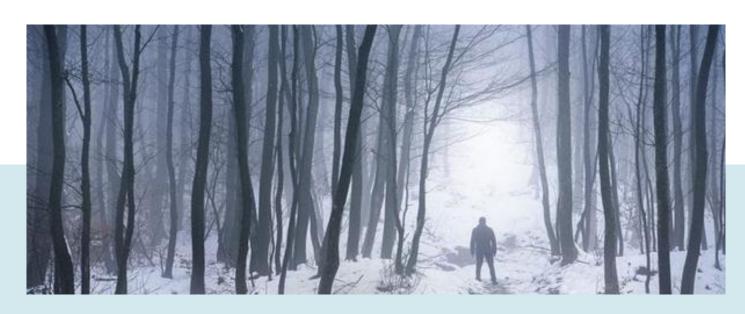
AI HAS GREAT IMPORTANCE IN HEALTHCARE USE. DIFFERENT COMPANIES ARE TRYING TO DEVELOP DIFFERENT QUICK DIAGNOSIS TECHNOLOGY WITH THE HELP OF AI. FOR THE BUSINESS SECTOR, ARTIFICIAL INTELLIGENCE CAN SAVE A LOT OF TIME AND EFFORT. ROBOTIC AUTOMATION IS A TYPE OF APPLICATION THAT IS USED TO COMPLETE HUMAN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

PRAKHAR SHUKLA(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 US TO HELP,

SAID EITHER HE'LL FREE ONLY ONE OF US OR GIVE BOTH OF US THE MAP TO OUT THIS HELL.

I ELECTED FOR 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 OUR OWN
SELF.

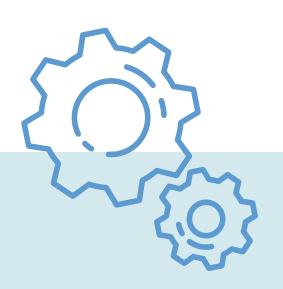
AND ALL THOSE PEOPLE WHO LOOK GOOD ON THE OUTSIDE, COULD WITH NO DOUBT HAVE SO MANY SIDES.

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.

HIMANSHU SINGH YADAV (2ND YEAR)

#### **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 ELECTRICAL ENGINEERS WHO CAN ALSO BEGIN TO UTILIZE THESE INTERNET-CONNECTED THEMSELVES DURING CONSTRUCTION PROJECTS.

#### 4.ROBOTICS

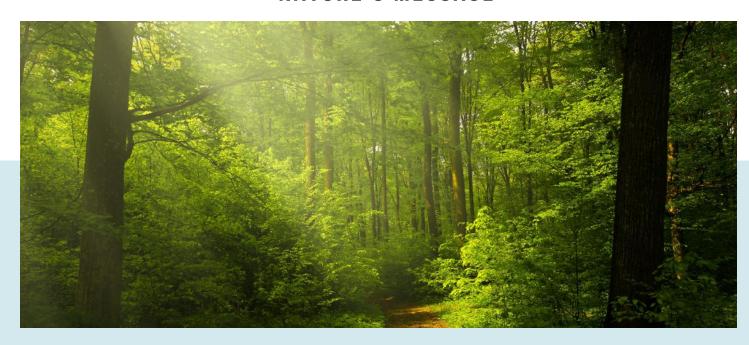
ROBOTS CAN SIGNIFICANTLY IMPROVE WORKING CONDITIONS AND SAFETY RISKS FOR ELECTRICAL ENGINEERS. THERE ARE MANY WAYS TO IMPLEMENT TECHNOLOGY INTO THE CONSTRUCTION INDUSTRY; HERE ARE A FEW SPECIFIC EXAMPLES FOR ELECTRICAL ENGINEERS. THE USE OF DRONES IN THE INDUSTRY HAS SKYROCKETED IN RECENT YEARS. DRONES 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.

#### NATURE'S MESSAGE



NATURE IS SENDING US A MESSAGE WITH THE CORONAVIRUS PANDEMIC AND THE ONGOING CLIMATE CRISIS, ACCORDING TO THE UN'S ENVIRONMENT CHIEF, INGER ANDERSEN.

ANDERSEN SAID HUMANITY WAS PLACING TOO MANY PRESSURES ON THE NATURAL WORLD WITH DAMAGING CONSEQUENCES AND WARNED THAT FAILING TO TAKE CARE OF THE PLANET MEANT NOT TAKING CARE OF OURSELVES.

LEADING SCIENTISTS ALSO SAID THE COVID-19 OUTBREAK WAS A "CLEAR WARNING SHOT", GIVEN THAT FAR MORE DEADLY DISEASES EXISTED IN WILDLIFE, AND THAT TODAY'S CIVILIZATION WAS "PLAYING WITH FIRE".

THEY SAID IT WAS ALMOST ALWAYS HUMAN BEHAVIOR THAT CAUSED DISEASES TO SPILL OVER INTO HUMANS. TO PREVENT FURTHER OUTBREAKS, THE EXPERTS SAID, BOTH GLOBAL HEATING AND THE DESTRUCTION OF THE NATURAL WORLD FOR FARMING, MINING, AND HOUSING HAVE TO END, AS BOTH DRIVE WILDLIFE INTO CONTACT WITH PEOPLE.

THEY ALSO URGED AUTHORITIES TO PUT AN END TO LIVE ANIMAL MARKETS – WHICH THEY CALLED AN "IDEAL MIXING BOWL" FOR DISEASE – AND THE ILLEGAL GLOBAL ANIMAL TRADE.

ANDERSEN, EXECUTIVE DIRECTOR OF THE UN ENVIRONMENT PROGRAMME, SAID THE IMMEDIATE PRIORITY WAS TO PROTECT PEOPLE FROM THE CORONAVIRUS AND PREVENT ITS SPREAD. "BUT OUR LONG-TERM RESPONSE MUST TACKLE HABITAT AND BIODIVERSITY LOSS," SHE ADDED.

"NEVER BEFORE HAVE SO MANY OPPORTUNITIES EXISTED FOR PATHOGENS TO PASS FROM WILD AND DOMESTIC ANIMALS TO PEOPLE," SHE TOLD THE GUARDIAN, EXPLAINING THAT 75% OF ALL ENGINEERING INFECTIONS DISEASE COMES FROM WILDLIFE.

"OUR CONTINUED EROSION OF WILD SPACES HAS BROUGHT US UNCOMFORTABLY CLOSE TO ANIMALS AND PLANTS THAT HARBOR DISEASES THAT CAN JUMP TO HUMANS."

SHE ALSO NOTED OTHER ENVIRONMENTAL IMPACTS, SUCH AS THE AUSTRALIAN BUSHFIRES, BROKEN HEAT RECORDS, AND THE WORST LOCUST INVASION IN KENYA FOR 70 YEARS. "AT THE END OF THE DAY, [WITH] ALL OF THESE EVENTS, NATURE IS SENDING US A MESSAGE," ANDERSON SAID.

"THERE ARE TOO MANY PRESSURES AT THE SAME TIME ON OUR NATURAL SYSTEMS AND SOMETHING HAS TO GIVE," SHE ADDED. "WE ARE INTIMATELY INTERCONNECTED WITH NATURE, WHETHER WE LIKE IT OR NOT. IF WE DON'T TAKE CARE OF NATURE, WE CAN'T TAKE CARE OF OURSELVES. AND AS WE HURTLE TOWARDS A POPULATION OF 10 BILLION PEOPLE ON THIS PLANET, WE NEED TO GO INTO THIS FUTURE ARMED WITH NATURE AS OUR STRONGEST ALLY.

"HUMAN INFECTIOUS DISEASE OUTBREAKS ARE RISING AND IN RECENT YEARS THERE HAVE BEEN EBOLA, BIRD FLU, MIDDLE EAST RESPIRATORY SYNDROME (MERS), RIFT VALLEY FEVER, SEVERE ACUTE RESPIRATORY SYNDROME (SARS), WEST NILE VIRUS AND ZIKA VIRUS ALL CROSS FROM ANIMALS TO HUMANS. "THE ANIMALS HAVE BEEN TRANSPORTED OVER LARGE DISTANCES AND ARE CRAMMED TOGETHER INTO CAGES. THEY ARE STRESSED AND IMMUNOSUPPRESSED AND EXCRETING WHATEVER PATHOGENS THEY HAVE IN THEM," HE SAID. "WITH PEOPLE IN LARGE NUMBERS IN THE MARKET AND IN INTIMATE CONTACT WITH THE BODY FLUIDS OF THESE ANIMALS, YOU HAVE AN IDEAL MIXING BOWL FOR [DISEASE] EMERGENCE. IF YOU WANTED A SCENARIO TO MAXIMIZE THE CHANCES OF [TRANSMISSION], I COULDN'T THINK OF A MUCH BETTER WAY OF DOING IT. "CHINA HAS BANNED SUCH MARKETS, AND CUNNINGHAM SAID THIS MUST BE PERMANENT. "HOWEVER, THIS NEEDS TO BE DONE GLOBALLY. THERE ARE WET MARKETS THROUGHOUT.

GOPAL SINGH SENGAR(3RD YEAR)

#### **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 COMMERCIALLY 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**





#### **PROJECT NUMBER 2**

TITLE- PASSWORD PROTECTED LOCKING SYSTEM

MADE BY- DEEKSHA SINGH, GOPAL SENGAR AND MANAV MEHRA

PROJECT DETAILS-

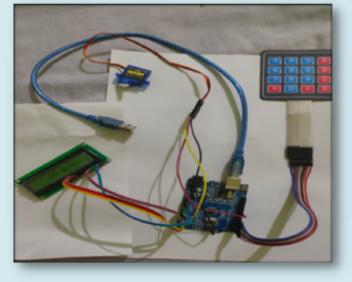
THE INTERNET OF THINGS (IOT) DESCRIBES THE NETWORK OF PHYSICAL OBJECTS—"THINGS"—THAT ARE EMBEDDED WITH SENSORS, SOFTWARE, AND OTHER TECHNOLOGIES FOR THE PURPOSE OF CONNECTING AND EXCHANGING DATA WITH OTHER DEVICES AND SYSTEMS OVER THE INTERNET. IOT WANTS TO CONNECT ALL POTENTIAL OBJECTS TO INTERACT EACH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

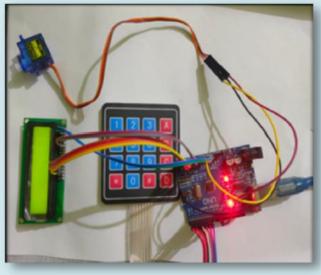
"PASSWORD PROTECTED LOCKING SYSTEM" IN THIS PROJECT FEW COMPONENTS ARE USED (ALREADY MENTIONED & DESCRIBED) THAT CAN BE CONNECTED AND THEN PROGRAMMED TO PRODUCE A SYSTEM THAT PROVIDES SECURITY TO THE THINGS WHERE IT IS INSTALLED.

#### **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**





#### **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**



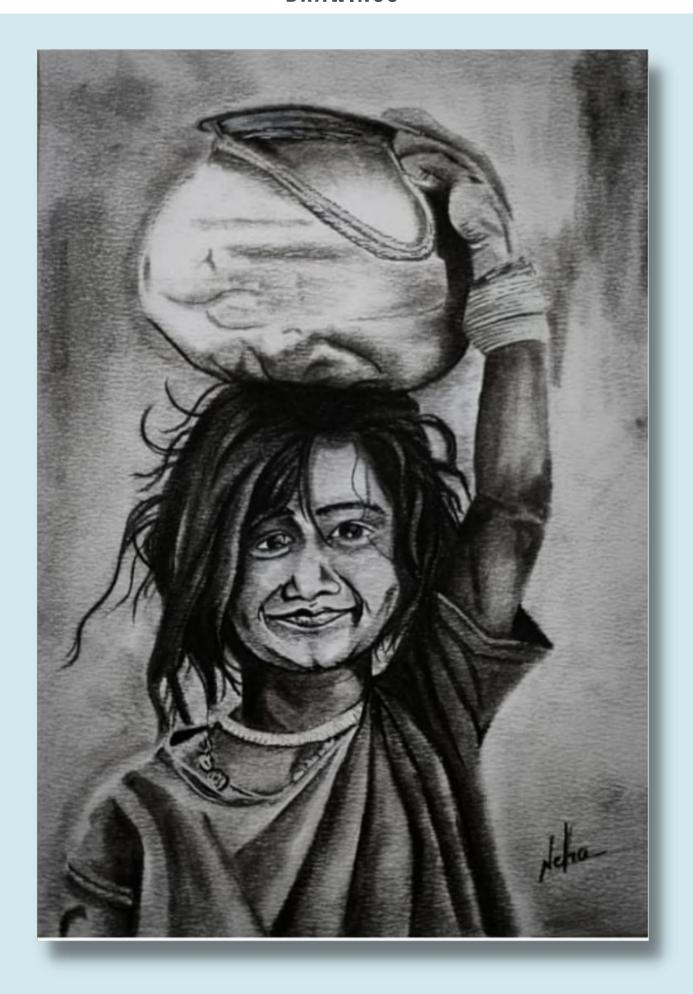














# EXTRA CURRICULAR ACTIVITIES EVENT 1

NAME OF THE EVENT-WEBINAR

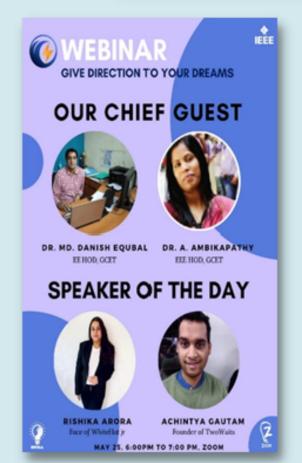
DATE OF THE EVENT-25TH MAY 2021

NAME OF COORDINATORS-SHRISTI SINGH AND PRAKHYA KAUSHIK

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT AND

PARTICIPATED BY STUDENTS OF EE AND OTHER DEPARTMENTS









## **EVENT 2**

NAME OF THE EVENT-SHUTTER UP

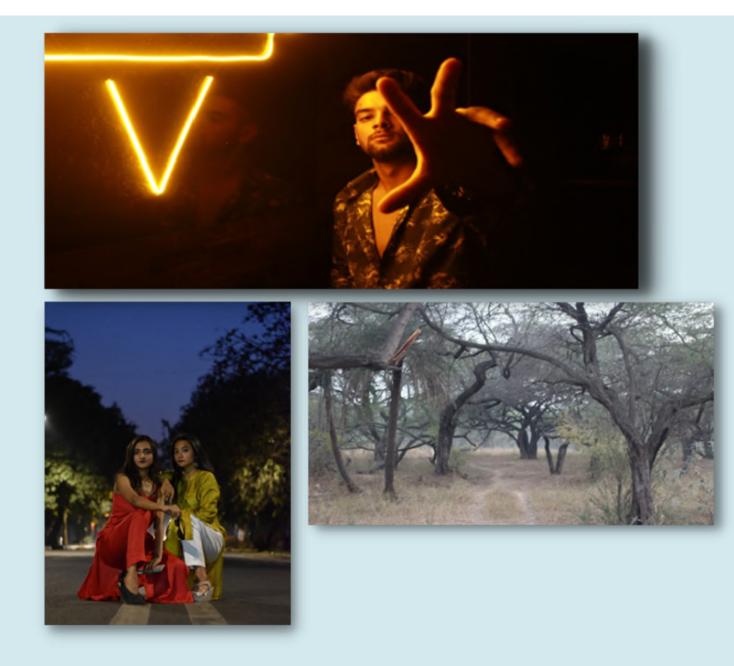
DATE OF THE EVENT- 25TH MAY 2021

NAME OF THE COORDINATORS- YASHVEER SINGH AND RISHAV

KUMAR

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT AND PARTICIPATED BY STUDENTS OF EE AND OTHER DEPARTMENTS WINNERS- ABHISHEK SINGH, OM YADAV, AND MAYANK SINGH

#### BEST OF PHOTO EDITING COMPETITION:

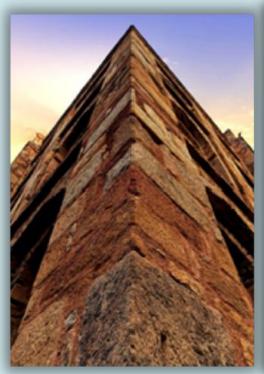


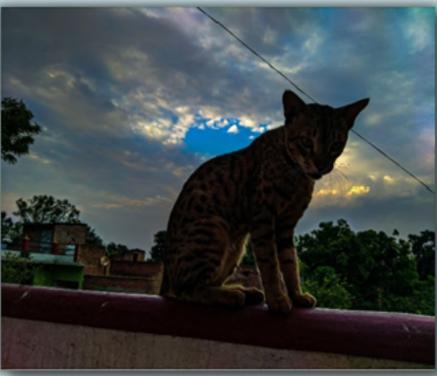
## EVENT 2

#### BEST OF THEME PHOTOGRAPHY COMPETITION:









#### **EVENT 3**

NAME OF THE EVENT- START-UP SUMMIT

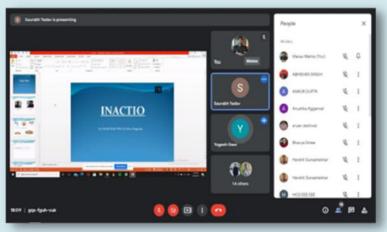
DATE OF EVENT- 26TH MAY 2021

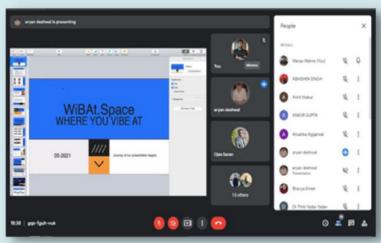
NAME OF THE COORDINATORS- OJAS SARAN AND PULKIT

KUSHWAHA

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.
WINNERS-VAIBHAV UJJWAL AND ARYAN DESHWAL









## **EVENT 4**

NAME OF THE EVENT- FACE-OFF

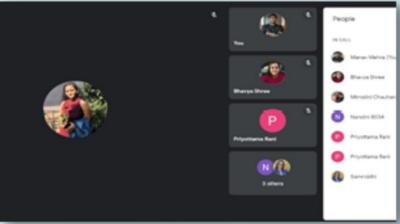
DATE OF THE EVENT-26TH MAY 2021

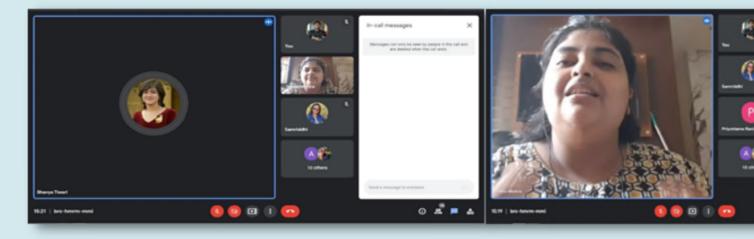
NAME OF THE COORDINATORS-PRIYOTTAMA AND SAMRIDDHI

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT

WINNER- ANNA SHARMA.







59 EVENT 5

NAME OF THE EVENT-E4G: GAMING ZONE

DATE OF THE EVENT-27TH MAY 2021

NAME OF THE COORDINATORS- GYANENDRA YADAV, AYUSH DUBEY, AND PRAKHAR SHUKLA.

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.

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

THE WINNING TEAM OF PUBG WAS TEAM AXD AND THE MEMBERS OF THE TEAM WERE RISHI RAJ DUTTA, PRIYOM BORAH, KRISHNAMONI GOGOI, ANCHIT DAS, SWAPNIL CHETIA.









#### **EVENT 6**

NAME OF THE EVENT- ARTISTRY UTOPIA

DATE OF THE EVENT- 27TH MAY 2021

NAME OF COORDINATORS- PRASHANT BHATI & SAURABH

TRIPATHI

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.

WINNERS- SOLINA BASAK (MANDALA), PRATISHTHA SINGH(JAPANESE MYTHOLOGY), AND DEVOJEET MODAL(LANDSCAPE)













#### EVENT 7

NAME OF THE EVENT – CODE WAR

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.

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.



#### **EVENT 8**

NAME OF THE EVENT-GET SET HUNT.

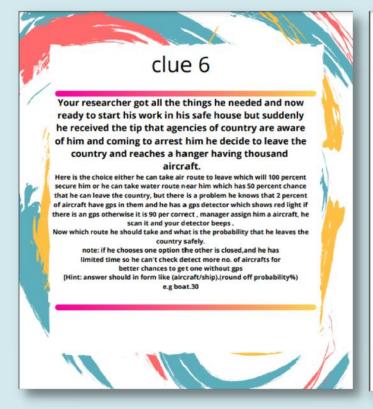
DATE OF THE EVENT-29TH MAY 2021

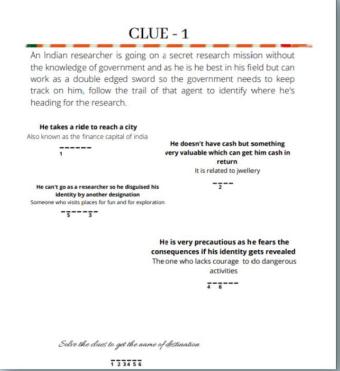
NAME OF COORDINATORS- GAGANDEEP SINGH, HIMANSHU SINGH YADAV AND SAGAR SINGH.

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.

WINNERS- ROHIT SAINI, SUNIDHI YADAV, YASCHICA CHAUHAN AND MANVENDRA MEHROTRA.







#### EVENT 9

NAME OF EVENT- SITCOM TRIVIADATE OF EVENT- 29TH MAY 2021

NAME OF THE COORDINATORS- NAMAN GUPTA PULKIT

KUSHWAHA

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT WINNERS- THE WINNING TEAM CONSISTS OF THREE MEMBERS-MANVI NEGI, PRATEEK GOYAL, MIRNALINI CHAUHAN





#### **EVENT 10**

NAME OF EVENT- CINEMAGIC

DATE OF EVENT- 30TH MAY 2021

NAME OF THE COORDINATORS- NIYANTA PANDEY PULKIT KUSHWAHA

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.

WINNERS- THE WINNING TEAM CONSISTING OF THREE MEMBERS FROM THE FIRST YEAR WERE SHAHFAD SIDDIQUI, SPARSH VERMA, SIDDHANT SHARMA AND ONE MEMBER FROM SECOND YEAR, PRATEEK GOYAL.



#### **EVENT 11**

NAME OF THE EVENT- LIGHTINING HUNT

DATE OF EVENT- 31ST MAY 2021

NAME OF THE COORDINATORS- PALAK RAJ GUPTA AND

SAMRIDDHI

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.

WINNERS- ANUSHKA AGGARWAL, MIRNALINI CHAUHAN, ABHISHEK PANDEY.



### **EVENT 12**

NAME OF THE EVENT- VOGUE & CUNNING DATE OF THE EVENT-31ST MAY 2021

NAME OF COORDINATORS-SUVRAT BAJPAI, SHRUTI CHAUHAN, AND ARCHIT SHARMA

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.

WINNERS OF FACE PAINTING- KUNAL, ARJUN, AND BHAVYA TIWARI.

WINNERS OF REELS- WERE NANDINI, SUNIDHI YADAV, AND SHIPRA SINGH.







## **EVENT 13**

NAME OF THE EVENT- DIWALI CELEBRATION

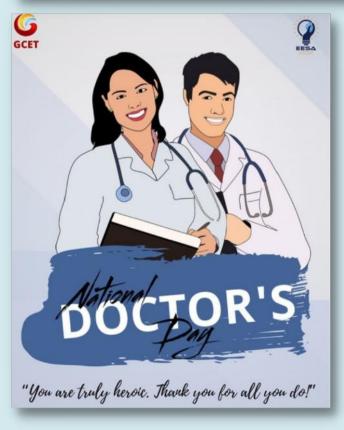
DATE OF THE EVENT- 12TH NOV 2020

ORGANIZED BY EESA SOCIETY OF EE DEPARTMENT.

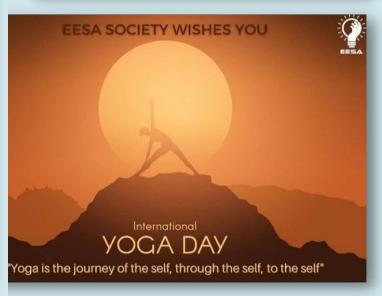


## **EESA GREETINGS**









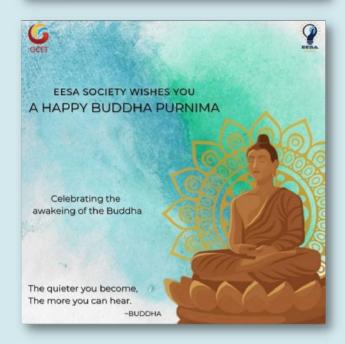
## **EESA GREETINGS**





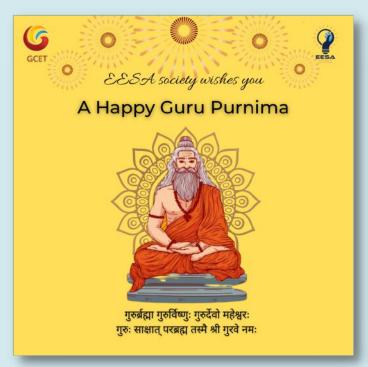


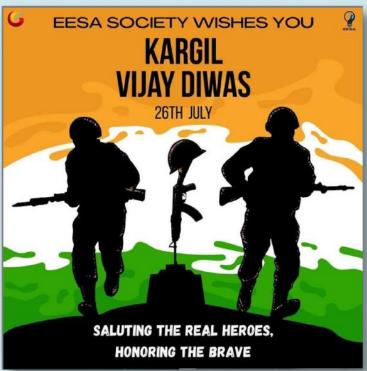




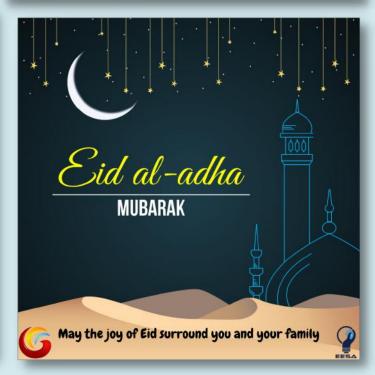


## **EESA GREETINGS**









## TOPPERS OF SESSION 2020-2021

#### THIRD YEAR TOPPERS



(777/950) RITUPRIYA YADAV



(767/950) YASH KUMAR PANDEY



(762/950)
PRIYA UPADHYAY

## **SECOND YEAR TOPPERS**



(773/950)
SHUBHANG TRIPATHI



(744/950) KAJAL CHAUHAN



(736/950) TUSHAR SINGH

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