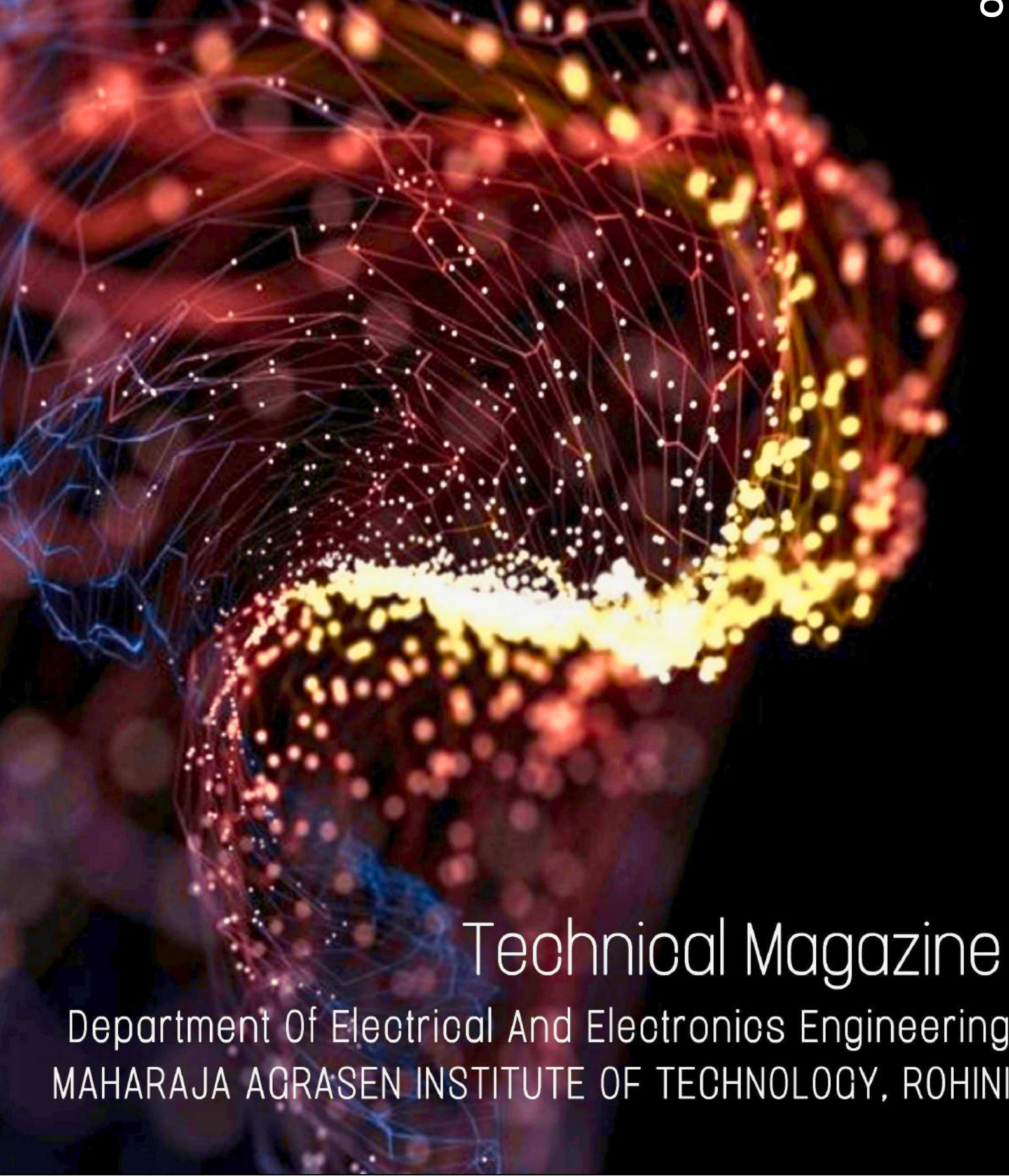


आविष्कार

October 2022



Technical Magazine

Department Of Electrical And Electronics Engineering
MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY, ROHINI

VISION

To produce technically competent human resource for electrical and electronics industry with high moral and ethical values.

MISSION

To ensure transformational impact on learning community and modernization in industry by providing quality education with orientation towards research and higher education, imbining the students with moral and ethical values.

TECHNICAL MAGAZINE COMMITTEE

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Dr. Nand Kishore Garg
Founder & Chief Advisor,
MATES

" I am extremely happy to release the LIVE WIRE Technical Magazine of the Electrical and Electronics Engineering Department, MAIT for the session between August 2021- September 2022.

This magazine, I understand has been designed to provide a broad range of information that focuses on the application of current technologies, research, developments through the latest technology innovations through the existing students and faculty members, and their practical explanations through industry experts.

I acknowledge the efforts of Prof. (Dr.) Rajveer Mittal, Head of the Department, and his Editorial Board Members in getting the magazine published.

I wish all the faculty members success and zeal to continuously work for the betterment of society. "



Sh. Vineet Kumar Gupta
Chairman, MATES

" I am gratified to know that the Department of Electrical and Electronics Engineering, MAIT has taken an initiative to publish the Technical Magazine in the month of September 2021.

This is productive as well as a great platform for the students, researchers, faculty members and industry experts to disseminate achievements in research and developments in computer science and technology.

I acknowledge the efforts of Prof. (Dr.) Rajveer Mittal, HOD. EEE, the Editorial Team, faculty members and the students of the departments for their efforts in publishing the Technical Magazine.

I also applaud the coordination and efforts by the editorial team to bring up the issue.

I wish them all a great success."



Prof. (Dr.) M.L. Goyal
Vice Chairman(Academics),
MATES.

" I am very happy that the Department of Electrical and Electronics Engineering, MAIT is releasing its Technical Magazine to commemorate technical publications and articles of faculties, Industry experts, alumni, and students for the academic year 2021-2022.

This Technical Magazine is a forum that could aptly be used to record the technical articles and research papers published by the students and faculty members. I am sure that this magazine will be informative and resourceful.

I owe my hearty appreciation to Prof. (Dr.) Rajveer Mittal, Head of the Department EEE, and her team for their sincere efforts to make the release of this magazine a reality. I wish them "The Very Best" in all their future endeavors. "



Prof. (Dr.) Neelam Sharma
Director, MAIT

" It gives me immense pleasure to know that a LIVE WIRE Magazine September 2021 is being published by the Department of Electrical and Electronics Engineering, MAIT. It is a platform to combine the efforts of Faculty, students and the editorial team to publish their technical work going on in the department.

Industrial and productive technical material forming the contents of the magazine will definitely be a developing a tool to the readers.

I applaud the efforts of Prof. (Dr.) Rajveer Mittal, Head of the Department EEE, Editorial team members and Co-ordinators of the team to publish this issue. I wish them success for future publications. "



Prof.(Dr.)Rajveer Mittal
Head of Department (EEE)

"म दुनिया में कहीं भी रहे पर यह सत्य है कि हम वास्तविक दुनिया में बड़े हुए हैं हमारा वास्तविकता से सामना वास्तव में ही हुआ है... कपड़ों में सलवटे नापड़ने देना और रिशतों में औपचारिकताका पालन करना है ऐसा हमें जमा ही नहीं ...
सुबह का खाना और रात का खाना इसके सिवा टिफिन क्या था हमें मालूम ही नहीं...
हम अपने नसीब को दोष नहीं देते... जो जी रहे हैं वह आनंद से जी रहे हैं और यही सोचते हैं... और यही सोच हमें जीने में मदद कर रही है... जो जीवन हमने जिया... उसकी वर्तमान से तुलना हो ही नहीं सकती...
हम अच्छे थे या बुरे थे नहीं मालूम पर हमारा भी एक जमाना था और सबसे महत्वपूर्ण आज निसंकोच ,
हृदय के गहन तलसे अपने साक्षात देवी- देवता तुल्य, प्रातः स्मरणीय माताजी पिताजी भाई एवं बहन को
कहना चाहता हूं कि मैं आपके अतुल्य लाड , प्यार , आशीर्वाद , लालन-पालन व् दिए संस्कारों का ऋणी हूँ और सदा रहूंगा ।
खुद ही स्कूल जाना पड़ता था क्योंकि साइकिल बस से भेजने की रीत नहीं थी,
स्कूल भेजने के बाद कुछ
अच्छा बुरा होगा ऐसा हमारे मां-बाप कभी सोचते भी नहीं थे..."

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FACULTY CORNER

AUTONOMOUS UNDER WATER VEHICLE

Ms. Supriya Sharma, Asst. Professor, EEE Department



An autonomous underwater vehicle (AUV) is a robot that travels underwater without requiring input from an operator. AUVs are a smaller subset of the wider class of underwater systems known as unmanned underwater vehicles, a classification that includes non-autonomous remotely operated underwater vehicles (ROVs) – controlled and powered from the surface by an operator/pilot via an umbilical or using remote control. An AUV is more frequently referred to as an unmanned underwater vehicle in military contexts (UUV). AUVs include underwater gliders as a subtype. The first AUV was developed at the Applied Physics Laboratory at the University of Washington as early as 1957 by Stan Murphy, Bob Francois and later on, Terry Ewart. The "Special Purpose Underwater Research Vehicle", or SPURV, was used to study diffusion, acoustic transmission, and submarine wakes. Other early AUVs were developed at the Massachusetts Institute of Technology in the 1970s. One of these is on display in the Hart Nautical Gallery in MIT. At the same time, AUVs were also developed in the Soviet Union.

The ocean is an environment that is saturated with seawater. Seawater has a high degree of viscosity, making it more difficult for the ocean to move than the atmosphere. The ocean's environment, where air pressure rises by one per ten metres of depth, is another amazing feature. When a result, as objects are destroyed, the water pressure increases to a point that it may be felt in the deep sea.

So many factors come in account in designing AUVs. It includes Solid pressure vessels to contain the electronics underwater as well handling the pressure from water. It contains sensors some of which are compasses, depth sensors, side-scan and other sonars, magnetometers, thermistors and conductivity probes. Some AUVs are outfitted with biological sensors including fluorometers (also known as chlorophyll sensors), turbidity sensors, and sensors to measure pH, and amounts of dissolved oxygen. Some of the uses of AUVs are for research work, commercial work like for oil and gas industries uses AUVs to make detailed maps of the seafloor before they start building subsea infrastructure; pipelines and subsea completions can be installed in the most cost-effective manner with minimum disruption to the environment, air crash investigations, military applications etc.

AERONAUTICAL COMMUNICATIONS

Ms. Punam Juneja, Assistant Professor, EEE Department



A conversation between two or more airplanes is referred to as aviation communication. The design of aircraft makes it exceedingly challenging for them to see anything beyond what is right in front of them. Aircraft can effectively connect with the required employees using communication techniques like wireless radio since safety is the aviation industry's top priority. Since the aviation sector is global, many different languages are used. The international Civil Aviation Organization (ICAO) has determined that English is the aviation industry's official language. Pilots are required to take an English proficiency exam since the business recognizes that some pilots may not be native English speakers. In the early days of flying, it was believed that the sky was too vast and empty for two planes to collide. However, the catastrophic accident of two aircraft over the Grand Canyon in 1956 led to the establishment of the Federal Aviation Administration (FAA). The Jet Age saw a boom in aviation, necessitating the development of communication technology. To communicate with pilots in the air, ground controls employed visual aids, which was once thought to be a highly challenging operation. Pilots could connect with people on the ground thanks to the development of portable radios that were tiny enough to be stored in aircraft. Pilots could then communicate both air-to-air and air-to-ground thanks to subsequent advances. Today, a lot of different methods are used in aviation communication. Modern radio, GPS, Internet, and video systems are all standard equipment on airplanes. Air-to-ground communication greatly improved with the invention of radar in the middle of the 1930s. Radar may be used to follow aircraft in the sky and detect their location, direction, speed, and even kind. This made it possible for pilot navigational aids and better air traffic control. It was then widely used during World War 2 for targeting for bombers. Two different radar beams might be pointed in the direction of Germany from radar sites along the British coast. An aircraft might track one radar signal until it crossed with the other, at which point it would know to drop bombs, by aligning the two radar beams to intersect over the targeted target, such as a town or industrial. Currently aviation communication is used to reduce the risk of mishappenings by telling the pilots the latest weather conditions or the availability of runways. Sometimes flights are even redirected to some other airports. It has saved many lives till date and the engineers are still trying to improve the current technology to meet the future needs. Aviation has truly been the forefront of innovation to become one of the safest and most reliable modes of transportation in the world today and a major part of this is because of the communication system which helps in planning and getting ready for every situation.

RENEWABLE ENERGY

Mr. Jitender Kumar, Assistant Professor, EEE
Department



One-third of the world's greenhouse gas emissions are attributable to the sources used to produce power, such as coal, oil, and natural gas. Elevating the level of living requires the provision of cleaner and more dependable power. India's need for energy is rising as a result of the country's current economic growth initiatives. An essential condition for a nation's economy to grow is the availability of growing amounts of energy. With the aim of providing energy across the nation, the National Electricity Plan [NEP] defined by the Ministry of Power (MoP) has created a thorough 10-year action plan. Additionally, it has created a separate plan to guarantee that power is given to the public effectively and affordably. In the World Resource Institute's 2017 report, India came in fourth place, after China (26.83%), the USA (14.36%), and the EU (9.66%), with almost 6.65% of the world's total carbon emissions. The natural equilibrium of the planet may potentially shift as a result of climate change. The United Nations Framework Convention on Climate Change (UNFCCC) and the Paris Agreement have both received submissions of intended national voluntarily determined contributions (INDCs). The latter had hoped to succeed in keeping the increase in the earth's temperature to far below 2 °C. The peak of the world's power demand is expected to occur around 2030, according to the World Energy Council.

One of the world's biggest users of coal, India imports expensive fossil fuel. Coal and oil together provide almost 74% of the world's energy needs. India imported 171 million tons of coal in 2013–2014, 215 million tons in 2014–2015, 207 million tons in 2015–2016, 195 million tons in 2016–2017, and 213 million tons in 2017–2018, according to research from the Centre for Monitoring Indian Economy. Therefore, it is crucial to develop other means of producing power.

In order to achieve sustainable growth and avert catastrophic climate change, the nation will quickly shift to renewable energy technology on a worldwide scale. In order to secure sustainable energy with reduced emissions, renewable energy sources are essential. Renewable energy technologies are already acknowledged as having the potential to greatly meet the demand for power while lowering emissions.

The nation has created a sustainable route for its energy supply in recent years. Citizens have been encouraged to save energy by using more hydropower, solar, wind, biomass, and waste energy sources. There is no doubt that clean energy is less hazardous and frequently less expensive. By 2022, India wants to produce 175 GW of renewable energy, of which 5 GW will come from small hydropower facilities, 10 GW from biopower, 100 GW from solar energy, and 60 GW from wind power. More than 270 GW has been pledged by investors, which is a huge increase over the lofty goals.

STUDENT CORNER

HUMAN - ROBOT INTERACTION

Harsh Baisoya (05514804920), Abhay kumar Upadhyay (00314804920)
Student, Department of Electrical & Electronics Engg.

The field of Human-Robot Interaction (HRI) has recently attracted a lot of interest from researchers, scientists, technological businesses, and the media. Due to this interest, it would be advantageous to give an overview of HRI to act as a tutorial for those outside the field and to encourage debate on a unifying vision of HRI inside the field. This review's objectives are to give a cohesive treatment of HRI-related issues, pinpoint major topics, and talk about difficulties that will probably have an immediate impact on the field. Although the review has a survey-style format, it is necessary to leave out numerous excellent, fascinating, and significant pieces in order to give a coherent HR. We tell the HRI tale from several angles and highlight commonalities across the cross-applications rather than attempting to survey every paper. The papers submitted as part of the applications will include a good representation of the universities, government initiatives, industry labs, and nations that support HRI, as well as a representation of the disciplines that support the field, such as human factors, robotics, cognitive psychology, and design.

A human and a robot may communicate in a variety of ways, but how close or far apart they are from one another greatly affects how they communicate. It is helpful to distinguish between applications that demand mobility, physical manipulation, or social engagement within these broad categories. Teleoperation or supervisory control are terms frequently used to describe remote engagement with mobile robots, and telemanipulation is frequently used to describe remote interaction with a real-world manipulator. A robot assistant may be used for prox-image interaction with mobile robots, while a physical interface may be used for proximity engagement. Social, emotional, and cognitive aspects of interaction are all included in social interaction.

Humans and robots engage in social interaction as partners or peers. Importantly, rather than being remote, social interactions with robots seem to be close by.

We merely provide a summary of a large amount of research on social interactions; a more thorough examination of this crucial subject will be left to future work. Here, we provide an overview of contemporary HRI.

With the intention of recognising significant technological and scientific advancements that have enabled HRI to grow as a field of its own, we start by outlining significant improvements in fields that are relevant to HRI. We contend that HRI represents a new area of scientific inquiry rather than merely a rephrasing and reformulation of earlier work. We pinpoint pivotal occasions that mark the formation of HRI as a field to back up this claim. Despite the fact that we frame the evaluation from a designer's perspective, work in the field necessitates significant interdisciplinary fusions from numerous scientific and engineering fields.

We describe the HRI problem after reviewing the major facets of the development of HRI as a field, with a focus on the interactional characteristics that a designer may control. We then go on to discuss the main application areas for modern HRI. Many of these issues are very difficult to solve and have significant societal repercussions. We classify application domains into the two previously indicated broad categories of remote and proximity contacts, and we select significant, eminent, or thought-provoking work within these two categories. Then, we go on to discuss universally applicable solution ideas and interaction-related obstacle issues. Following a quick summary of the review, we briefly mention relevant work from various disciplines that involves humans and machines interacting.

The ability to recognise sensory cues has evolved in human senses. Beyond our perception, they are essential to how we process emotions, learn, and understand. They are what shape our daily lives and can be sparked by aesthetics to lay the groundwork for how we interact with one another and the world around us. Given their senses, robots can engage in Human-Robot Interaction (HRI) with both people and their surroundings. They may be able to provide human traits, which in turn may improve the attraction and acceptability of interacting with technology. People still don't appear to trust and accept robots, nevertheless, for a variety of reasons. The capacity to tolerate the possible hazards involved in cooperating with an entity, such as a robot, is how trust is conveyed.

The decision to trust a robot might take on other dimensions even though it is a crucial component in developing connections with robots. This research investigates the affects of visual design strategies on the human ability to trust robots to start to understand how to create trust with robots and reverse the negative mindset.

Beyond their more cognitive capabilities, robots have a unique opportunity to develop their capacity for empathy, compassion, and social awareness. We investigated participants' capacity for and acceptance of trusting the Cabot U03 robot by conducting an international online survey. A variety of visual inquiries that interacted with the robot's facial screen and questioned participants' level of trust in the machine were shown to them. Several questions were designed to place participants in circumstances where they had to decide whether or not to believe a robot's responses based only on appearance. We did this by adjusting various aspects of the robot's facial and chest screens, which affected how people interacted with the robot.

Our capacity to trust robots has never been more crucial in a world where it is growing more prevalent. A fuller understanding of how design elements and their aesthetic effect may trigger what emotive processes is essential since the physical look of a robot significantly affects our judgments of trust. Robots have a remarkable ability to help people work together as a team, but a lack of faith in the robot could lead to its being used ineffectively or not at all (Floyd, Drinkwater & Aha, 2014). According to Barnes & Jentsch (2010), the ability of humans and robots to cooperate and adapt to one another is crucial for a successful relationship.

This can arise from the shape and construction of the robot, which in turn influences societal norms. Additionally, a robot's morphology might impact its usability and attractiveness (Fong, Nourbakhsh & Dautenhahn, 2003). The study discussed in this paper looks at how participants' level of trust in robots can be increased. Participants were shown various robot visualisations (of the robot's face and chest) and asked to write down their thoughts on each one as well as whether or not they trusted the robot. This made it possible for the researchers to look into how the aesthetic arrangement of design aspects can affect how each robot can be trusted. We were interested in better understanding how we design for the fundamental principles of aesthetic order in human-robotic interaction by using different design elements (i.e., colour, blurriness, and tone). We predict that uncertainty in and between the visualisations will strongly influence a participant's desire to accept the robot (i.e., The cohesiveness of messages, positive and balanced stimuli, non-invasive hues, etc). (i.e., The cohesion of messages, positive and balanced stimuli, non-invasive colours, etc.). This research demonstrates not only the impact of dangers and uncertainties caused by the visualisations on the human-robot interaction but also the potential of robot aesthetics to initiate a trusting connection.

RESEARCH PUBLICATIONS

- **Cost Minimization of Charging Stations Using PV Array**

Anmol Dureja¹ , Anshita Pandit² , Sagar Bharti³ , Poonam Juneja⁴

India is currently the third largest energy consuming country in the world. And it meets a majority of these humongous needs for energy by conventional non-renewable sources of energy. But, progress is being made to apply more renewables in the energy production sector. One such place is the EV market where the government is introducing great incentives to encourage people to buy more eco-friendly means of transportation. Now, the biggest barrier to wide-scale adaptability of EV is the lack of infrastructure. Compared to several petrol pumps for every kilometer of road, electric charging stations are a rare sight. We discuss a system to fix both of these problems by using renewables to power Charging stations decreasing the. The system uses photovoltaic solar panels to charge EV batteries and also supply excess energy to the grid during peak sunshine hours thereby covering its cost of installation and maintenance relatively quicker

than conventional solar power setups. A sepic converter is used for dc-dc conversion and a line commutated converter is preferred to act as both rectifier and inverter using a bidirectional configurator. This system has been simulated in Simulink and resultant responses have also been shown in the paper.

RFID Based Attendance System

Ajay Joshi, Aman Ahmed, Arpit Saxena

RFID is an acronym for “radio-frequency identification” RFID technology is an automatic wireless identification system that works by the help of two components: a card and a reader. Using the RFID technology, the conventional system of taking attendance can be completely transformed to be more in line with strides in digitalization. This system will help the authorities manage the attendance system in a more methodical, efficient and time saving manner. The proposed system has been implemented through a prototype that has proved the effectiveness of the concept in easing the logistics of taking attendance as a result of the automation due to the use of the RFID technology. The design of the system is simple, cost effective and agile making it a good candidate for commercial and academic purposes.



INTERNSHIP CORNER

Industrial Visit

Company CEO Name	Company Sector*	Incorporation Status*	Scale*	Product & Services*	Period of Training	Panel of Faculty	Marks	
							Reprt (40)	Viva (60)
Gov of Delhi	power transmission	Govt	Delhi	Power Transmission	4Weeks	MR.Arun Kumar Yadav		
SHRI UMESH KR.TYAGI	POWER DISTRIBUTION	Govt	DELHI	Power Transmission	6 weeks	ER. CP UPADHAYAY		
PRAVEER SINHA	POWER TANS. AND battery	PVT.LTD	DELHI	POWER TRANS.AND DIS	6WEEKS	MR.Amit kumar		
Rohan singh	battery	PVT LTD	DELHI	battery sales	6 weeks	mrs disha mourya		
gov of haryana	power transmission	Govt	haryana	power transmission	6 weeks	harish bhardwaj		
govt of U.P.	Maintainence service	shop, scada, central	transport shop and colony		4 weeks	Ranjannm Chaubey		
Hare Ram Thakur	Export and Import	PVT	DELHI	Kitchen Equipments	10 weeks	Ranjan Kumar Dubey		
vipul Patel	IT Sector	PVT	Delhi	Email Marketing in Python	2 months	vipul Patel		
	POWER TRANSMIS	GOVT.	j&k	power transmission	6weeks	E.R LATEEF		
MR.K.C. VERMA	SF6 SWITCHGEAR	GOVT.	delhi	switchgear protection	6weeks	k.c.verma		
Er. Prasanthkumar Palani	Electric Vehicle	PVT.LTD	Global	EV Tech Extensive Guide	6 weeks	Prasanthkumar Palani		
Govt. of UP	Public Transport	Govt.	UP	Public Transport	4 Weeks	Mr. Lalit		
rc bharagvan		pvt.ltd			3 weeks			
rc bharagvan	Car Manufacturing	Limited	Global	Vehicles	8 weeks	Mr. Kamal Suraj		
HOD Anil Varshay	Power Distribution	Limited	Regional	Power Distribution	6 Weeks			
Govt. of UP	Public Transport	Govt.	UP	Public Transport	4 weeks	Mr. Lalit		
Thierry Delaporte	Engineering education	PVT	Global	Software	4 weeks	Dr. Mitesh Kumar Saini		
Er. Prasanthkumar Palani	C++	PVT LTD	Global	C++	4 weeks	Prasanthkumar Palani		
Amal Sinha	electrical	semi govt	delhi	distribution of electricity	12 weeks	Surrender dagar		
HOD Anil Varshay	electrical	semi govt	delhi	distribution of electricity	4 weeks	hod anil varshay		

Enrollment No.	Student Detail (Name, Phone No. & Email ID)	Company Detail (Name, Phone No. & Fax No., Website)	Company CEO Name	Company Sector*	Incorporation Status*	Scale*	Product & Services*	Period of Training
00314804916	ADITYA SINGH KAUSHIK	DTL	MS. PADMINI SINGLA	GOVERNMENT	GOVERNMENT	LARGE	ELECTRICITY DISTRIBUTION	5 WEEKS
00714804916	ANMOL KUMAR	DMRC	MR.NAVEEN KUMAR	GOVT.	GOVT	LARGE	LOCOMOTIVE	6WEEKS
01114804916	ASHISH CHAND RAMOLA	MACROPLAST PVT. LTD.	Mr. SACHIN MISHRA	PRIVATE	Private	MEDIUM	TRANSFORMER CONSTRUCTION	4 WEEKS
01214804916	ASHISH GIDH	DRDO	DR. MANOJ SHARMA	DEFENSE	GOVT.	LARGE	DEFENSE	4 WEEKS
00714807817	RISHABH KUMAR	TRICOLITE	MS. MEERA CHAUHAN	PRIVATE	PRIVATE	LARGE	MANUFACTURING	4 WEEKS
00314807817	ASHISH BHARTI	TRICOLITE	MS. MEERA CHAUHAN	PRIVATE	Private	LARGE	MANUFACTURING	4 WEEKS
01614804916	DEEPAK	AIRPORT AUTHORITY OF INDIA	TARA CHAND	PSU	GOVT.	LARGE	VHF/L BAND RADAR NAV	6 WEEKS
00914804916	ANSHUL	INDIAN OIL CORPORATION LTD.	SHANTANU NATH	PSU	GOVT.	LARGE	DISTRIBUTION OF OIL AND	4 WEEKS
00814804916	Anshit Verma	DMRC	Mr. Mukesh Kumar	GOVT.	GOVT.	LARGE	ROLLING STOCK	6 WEEKS
01414804916	Bhavya Mendiratta	BHEL	MR. NALIN SINGHAL	GOVT	GOVT.	LARGE	POWER PLANT CONTROL SYSTEM	8 WEEKS
00514804916	AMIT MISHRA	HARYANA POWER GENERATION	RAMA RAO	GOVERNMENT	GOVT.	LARGE	ELECTRICITY	6 WEEKS
00514804916	AMIT MISHRA	HARYANA POWER GENERATION	RAMA RAO	GOVERNMENT	GOVT.	LARGE	ELECTRICITY	6 WEEKS
00114804916	ABHISHEK KHANDUJA	DRDO	Munmun Baisantry	PUBLIC	GOVT.	LARGE	BATHYMETRY	6 WEEKS
01814804916	DHANANJAY BHATIA	INDIAN OIL CORPORATION LTD.	SHANTANU NATH	PSU	GOVT.	LARGE	DISTRIBUTION OF OIL AND	6 WEEKS
00114804916	ABHISHEK KHANDUJA	DRDO	Munmun Baisantry	PUBLIC	GOVT.	LARGE	BATHYMETRY	6 WEEKS
00914807817	Shubham Kumar Mishra	TATA POWER -DDL	MR. SANJAY BANGA	PUBLIC	Electrical	LARGE	DISTRIBUTION OF ELECTRICAL	4 WEEKS
01914804916	Dhruv Bhargava	HCL	C.vijaykumar	Private	IT	LARGE	DEV OPS,	6 WEEKS

Enrollment No.	Student Detail (Name, Phone No. & Email ID)	Company Detail (Name, Phone No. & Fax No., Website)	Company CEO Name	Company Sector*	Incorporation Status*	Scale*	Product & Services*	Period of Training
02714804916	ITISH BAHRI	MINISTRY OF EXTERNAL AFFAIRS	ANIL KR DUBEY	GOVT.	GOVT.	LARGE	ELECTRICAL AND IT SYSTEMS	6 WEEKS
02214804916	GAURAV NIGAM	KYRION TECHNOLOGIES	Mr. Divanshu Vadiya	PRIVATE	IT	LARGE	AVR	6WEEKS
02614804916	HERSHITA TULLY	Milestones Switchgears Pvt. Ltd.	Ashok sharma	Private	Electrical	Large	Switchgears, control panel construction	4 weeks
02414804916	Hardik Grover	DMRC	Dr. Mangu Singh	GOVERNMENT	Transportation	LARGE	OHE,PSI,SCADA	8 weeks
03014804916	KUMAR UTKARSHA	INDIAN RAILWAYS	MR.B.S.RAO	GOVERNMENT	ELECTRICAL	LARGE	MAINTAINANCE	6 WEEKS
03614804916	Naman Gupta	DMRC	Dr. Mangu Singh	GOVERNMENT	Transportation	LARGE	E&M	6 weeks
03714804916	Neelabh Shanker Singh	Ministry of Electronics and Information Technology	Hemlata Gupta	GOVERNMENT	GOVT.	LARGE	Verilog	8 WEEKS
02814804916	Kashish Bansal	INDIAN RAILWAYS	vk yadav	GOVERNMENT	traction and distribution	LARGE	DRM	6 WEEKS
03414804916	MISHAL JHA	INDIAN RAILWAYS	VK YADAV	GOVERNMENT	traction and distribution	LARGE	DRM	6 WEEKS
03114804916	MANSI TYAGI	BSES RAJDHANI POWER LTD.	Mr. SALIL SAXENA	GOVT.	GOVT.	LARGE	SCADA,IMPLEMENTATION OF POWER	6 WEEKS
02714804916	ITISH BAHRI	MINISTRY OF EXTERNAL AFFAIRS	ANIL KR DUBEY	GOVT.	GOVT.	LARGE	ELECTRICAL AND IT SYSTEMS	6 WEEKS
02914804916	kaushal kumar	diamond industries	Amit goel	PVT	Pvt	LARGE	DPC WIRE FOR POWER	4 WEEKS
03914804916	NIKHIL SAGAR	DMRC/DELHI METRO RAILWAY CORP.	SHRI MANGU SINGH	GOVT.	GOVT.	LARGE	LOCOMOTIVE	8 WEEKS
03814804916	NIKHIL KOLI	NORTHERN RAILWAYS	MR. T.P.SINGH	GOVT.	GOVT.	LARGE	LOCOMOTIVE	6 WEEKS
02114804916	GAURAV KUMAR	NORTHERN RAILWAYS	MR. T.P.SINGH	GOVT.	GOVT.	LARGE	TRACTION DISTRIBUTION	6 WEEKS
03214804916	MAYANK NAYAK	NORTHERN RAILWAYS	MR. T.P.SINGH	GOVT.	GOVT.	LARGE	TRACTION DISTRIBUTION	6 WEEKS
04314804916	Parshant Chauhan	NORTHERN RAILWAYS	MR. T.P.SINGH	GOVT.	GOVT.	LARGE	TRACTION DISTRIBUTION	6 WEEKS
04014804916	nishant gautam	DMRC	MR. MANGU SINGH	GOVT.	GOVT.	LARGE	ROLLING STOCK	6 WEEKS
04114804916	NITIN KUMAR VERMA	ANURITI ELECTRICALS AND SWITCHGEARS	MR. ANUJ KUMAR SHARMA	PRIVATE	Private	MEDIUM	TRANSFORMER AND SWITCHGEARS	6 WEEKS

Enrollment No.	Student Detail (Name, Phone No. & Email ID)	Company Detail (Name, Phone No. & Fax No., Website)	Company CEO Name	Company Sector*	Incorporation Status*	Scale*	Product & Services*	Period of Training
06214804916	shivam garg	posoco	manish kumar singh	PUBLIC	GOVT.	LARGE	Real time security desk	6weeks
05614804916	S Hariharan	DMRC	Dr. Mangu Singh	GOVERNMENT	Transportation	LARGE	OHE,PSI,SCADA	6 WEEKS
05214804916	Reeva Dhariwal	Milestones Switchgears Pvt. Ltd.	Ashok sharma	Private	Electrical	Large	Switchgears, control panel construction	4 WEEKS
04814804916	Priyanka Bedi	NTPC, AuGPP	GURDEEP SINGH	Public	Electrical	Large	Combined cycle power plant construction	4 WEEKS
06414804916	SHUBHAM PRADEEP RAJ	DMRC	Dr. Mangu Singh	GOVERNMENT	Transportation	LARGE	E&M	6 WEEKS
05914804916	SAURABH GAUTAM	DELHI TRANSCO LTD	DALJEET SINGH	GOVERNMENT	GOVT.	LARGE	GRID NETWORK AND SCADA	4 WEEKS
05814804916	SAGAR	INDIAN ARMY	BRIG. RAMESH SHARMA	GOVERNMENT	GOVT.	LARGE	GUN CONTROL PORT. INT. 22	4 WEEKS
05714804916	SABINA KHATUN	INDIAN RAILWAYS	VK YADAV	GOVT.	LOCOMOTIVE	LARGE	LOCOMOTIVE	8 WEEKS
05514804916	Riya Singh	NHPC	Mr. Balraj Joshi	GOVT.	GOVT.	LARGE	Hydroelectric Power Plant	4 WEEKS
04714814916	PRASHANT RANJAN	EAST CENTRAL RAILWAY	RP SINGH	GOVT.	GOVT.	LARGE	LOCOMOTIVE	4 WEEKS
06114804916	SHIBU	NORTHERN RAILWAYS	MR.B.S.RAO	GOVT.	GOVT.	LARGE	LOCOMOTIVE	6 WEEKS
06014804916	SAVITA	NORTHERN RAILWAYS	MR.B.S.RAO	GOVT.	GOVT.	LARGE	LOCOMOTIVE	6 WEEKS
04614804916	PRAKHAR TYAGI	NORTHERN RAILWAYS	MR.B.S.RAO	GOVT.	GOVT.	LARGE	TRACTION DISTRIBUTION	6 WEEKS
06314804916	SHRISTI RASTOGI	MANSI ELECTRICALS AND AUTOMATION	MR. NITIN JAISWAL	PVT.	PVT.	MEDIUM	MANUFACTURING	6 WEEKS
04414804916	PARVESH KUMAR	SSTPS	MR. RAMESH KIRAL (XEN)	GOVT.	GOVT.	LARGE	HERMAL POWER PLANT	6 WEEKS
05314804916	RISHABH SHARMA	SSTPS	MR. RAMESH KIRAL (XEN)	GOVT.	GOVT.	LARGE	THERMAL POWER PLANT	6 WEEKS
04914804916	PRIYANSHU KUMAR	SSTPS	MR. RAMESH KIRAL (XEN)	GOVT.	GOVT.	LARGE	THERMAL POWER PLANT	6 WEEKS

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01014804918	Anant Gangwar, 9205304720, gan	Cisco Networking Academy (Cisco Network)	Maciek Wichary	Private	Pearson VUE	Large	IT Sector	1 month	Ravi Sharma
0034804918	Abhinav Lal, 9625085310, abhinav	punar Rahab	Rahul tripathi	Private	Running	Small	Electronics	8 weeks	Ravi Sharma
00314807819	prince kumar, 8273626922, princet	AKCONTROL	abhay kumar	private	active	medium	electronics	6 weeks	Ravi Sharma
00714807819	manish sharma, 8810247050, ms4	hrd automation	anil kumar	private	active	small	industrial automation	8 weeks	ravi sharma
01214807819	ashu kumar, 9650926365, ashukum	HERO FUTURE	RAHUL MUNJAL	PRIVATE	ACTIVE	LARGE	RENEWABLE	4 WEEKS	Ravi Sharma
00414807819	Sheikh Azharuddin, 8851631535, s	hrd automation	anil kumar	PRIVATE	ACTIVE	SMALL	industrial automation	6 WEEKS	Ravi Sharma
00814807819	Mohammad Arif, 9599604385, mo	hrd automation	anil kumar	Private	active	small	industrial automation	8 weeks	Ravi Sharma
00614807819	Ashutosh, 9625474347, mallashu	NDMC	Sukriti Likhi	Govt.	Active	Large	Electrical	6 weeks	Ravi Sharma
01714807819	Anubhav, 9717820864, imanubhav	NDMC	Sukriti Likhi	Govt.	NDMC	Large	Electrical	6 weeks	Ravi Sharma
01514807819	Sahil, 9810114734, singhsahil454@	NDMC	Sukriti Likhi	Govt.	NDMC	Large	Electrical	6 weeks	Ravi Sharma
01314807819	MD. Arsalan Khan, 8289033929, m	NDMC	Sukriti Likhi	Govt.	NDMC	Large	Electrical	6 weeks	Ravi Sharma
00114807819	Ankit meena, 7011126476, ankitme	NDMC	Sukriti Likhi	Govt.	NDMC	Large	Electrical	6 weeks	Ravi Sharma
01614807819	Ashutosh, 7550650860, ashutoshnats	NDMC	Sukriti Likhi	Govt.	NDMC	Large	Electrical	6 weeks	Ravi Sharma
00114804917	Abdul Samad, 8766244494, samad	NDMC	Sukriti Likhi	Govt.	NDMC	Large	Electrical	6 weeks	Ravi Sharma
00514807819	Vaibhav Kumar, 8076646637, vku1008@gmail	NDMC	Sukriti Likhi	Govt.	NDMC	Large	Electrical	6 weeks	Ravi Sharma
00414804918	Abhinav Pratap Singh kondar, 959	Intemshala, www.intemshala.com	Sarvesh Agarwal	Private	active	Large	Online training	8 week	Ravi Sharma
00714804918	Alankar Kumar, 8368518143, alank	Pepcoding,	Sumeet malik	Private	active	medium	Online training	10 weeks	Ravi Sharma
00814804918	Alok Abhijeet, 6204655536, alok.ab	Coursera	Jeff Maggioncalda	Private	active	Large	Online training	4 WEEKS	Ravi Sharma
01414807819	Imdadullah, 9555042688, imdadul	NPTI	Tripta Thakur	Govt.	Active	Large	Training	4 weeks	Ravi Sharma
01014807819	Sagar Bharti, 8076762375, sb148	Rokaya	Rohit Kumar	Private	Active	medium	Training	4 weeks	Ravi sharma
01614804918	Anush kumar, 8860031049, anush	NPTI	Tripta Thakur	Govt.	Active	Large	Training	4 weeks	Ravi Sharma
00914807819	Aakash Singh Azad, 8287269327, a	Elite techno groups	Mayank Arora	Private	active	medium	Online training	4 WEEKS	Ravi Sharma
01114807819	Sachin Singh, 9582991741, sachin	Udemy	Gregg Coccari	Private	Active	Large	Online training	6 weeks	Ravi Sharma

Enrollment No.	Student Detail (Name, Phone No. & Email ID)	Company Detail (Name, Phone No. & Fax No., Website)	Company CEO Name	Company Sector*	Incorporation Status*	Scale*	Product & Service*	Period of Training	Panel of Faculty
02514804918	Bhavay Arora, 9650891909, bhavayarora11@gmail.com	Tata Power Delhi	Mr. Ganesh Srinivasan	Power	Government	Large	Power Distribution	8 weeks	Ravi Sharma
04014804918	Honey Gag, 9654955007, honeygag123@gmail.com	NPTI, Delhi 9953090277	Mr Rajesh Shukla	Power and Energy	Government	Large	Power Distribution/Thermal	4 weeks	Ravi Sharma
02214804918	Ayush K Binu 8745930389 ayushk	PARVEEN INDUSTRIES	Mr Parveen Kumar Gupta	Manufacture	Private	Large	Manufacturers of Oil Equipment	2week	Ravi Sharma
03514804918	Diivy anshu Sagar 9871090890 di	BSES BRPL, Delhi	Sh. Rajesh Bansal	Power	Private	Large	Electricity Distribution	6 weeks	Ravi Sharma
02414804918	Ayushya Ujjwal 8076831163 ayushyaujjwal7@gmail.com	Youth Empowerment Foundation, Delhi	www.yefindia.org	Marketing	Private	Small	Marketing	4 weeks	Ravi Sharma
2714804918	Chinmay Bhanu Srivastava, 989	NPTI, Delhi 9953090277	Mr. Rajesh Shukla	Energy	Govt	Medium	Power	4 weeks	Ravi Sharma
01914804918	Ashutosh Singh, 9968939549, ash	DTL	Mr. Satya Gopal	Energy	Govt.	Large	Power Transmission	4 weeks	Ravi Sharma
03714804918	harsh, 8076437774, harsh947@gr	ircon international ltd.	Subhash chand	power transmission	govt.	large	Power Transmission	4 weeks	Ravi Sharma
02914804918	deep singh	coursera inc.	Jeff Maggioncalda	online training	pvt	medium	Online training	4 WEEKS	Ravi Sharma
03314804918	dev khetan	mentored tech private limited	vansh kaul	Education	pvt	medium	Online training	4 WEEKS	Ravi Sharma
02114804918	ayush	coursera	Jeff Maggioncalda	online education	private	medium	online education	4 WEEKS	Ravi Sharma
01114804918	Anant Upadhayay	coursera	Jeff Maggioncalda	online education	pvt	medium	online education	4 weeks	Ravi Sharma
01514804918	anshita pandit	trivent engineering and technology	dhruv m sawheney	engineering	pvt	medium	engineering	4 WEEKS	Ravi Sharma
02014804918	Aviral jerath	Follega	Abhinav singh	wiring and testing	pvt	small	wires and cables	3 month	Ravi Sharma
00124807819	kavita joshi	Elite techno groups	Mayank Arora	automobile	pvt	medium	electric vchiles	4 weeks	Ravi Sharma
03914804918	Himanshu kumar	Jammu and kashmir	Ms. Babla Rakwal	power & electronics	govt	large	solar energy	4 weeks	Ravi Sharma
01214804918	Anish Chakaraborty	Udemy	Gregg Coccari	online course and education	pvt	medium	online courses	7 hours	Ravi Sharma
01314804918	Anmol Dureja	Carefina pvt ltd	Tanish Maljotra	mobile Accessories	pvt	small	mobile accessories	6 month	Ravi Sharma

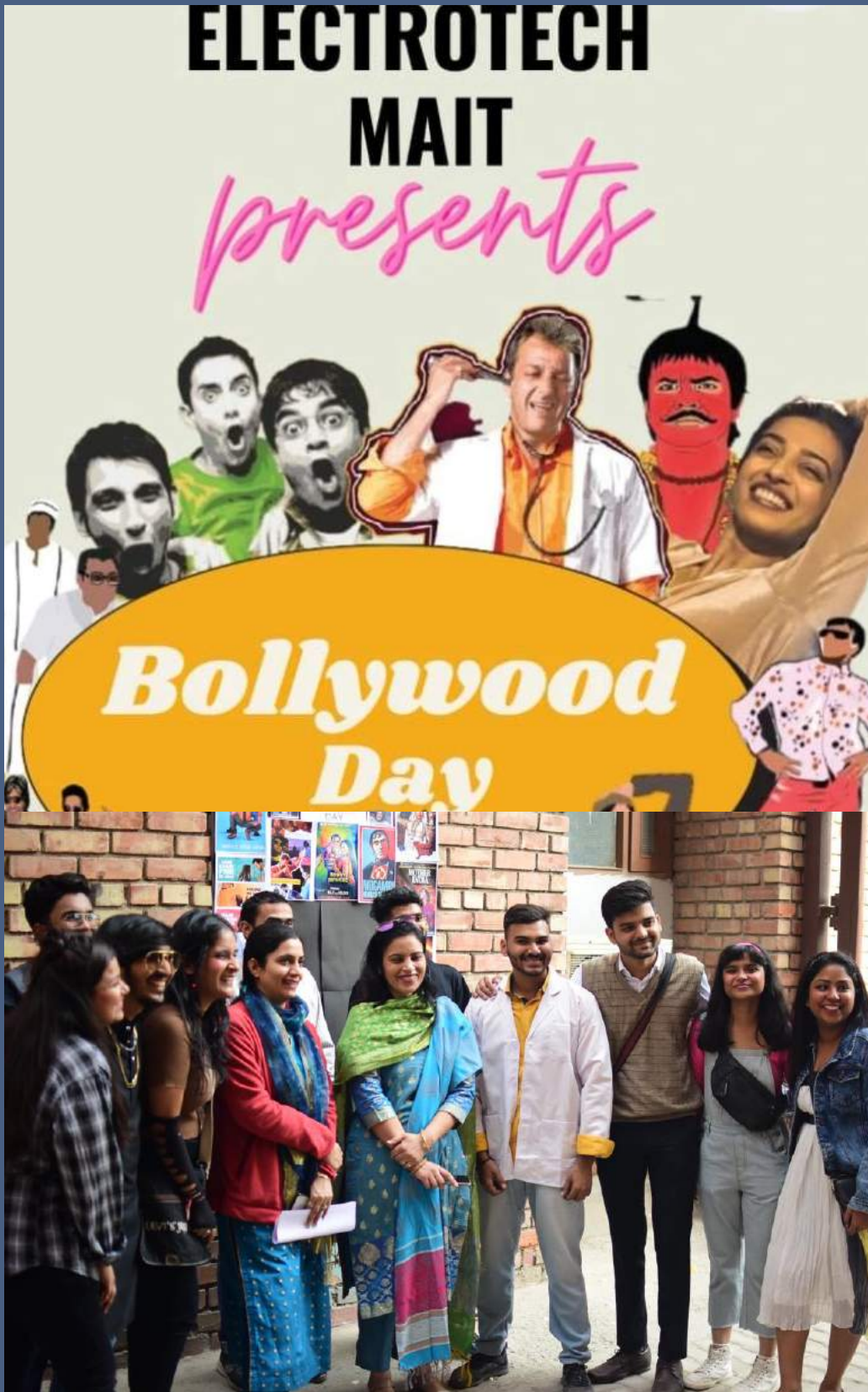
Enrollment No.	Student Detail (Name, Phone No. & Email ID)	Company Detail (Name, Phone No. & Fax No., Website)	Company CEO Name	Company Sector*	Incorporation Status*	Scale*	Product & Service*	Period of Training	Panel of Faculty
03214804918	Deepesh Maheta, 7836060637, deepesh.maheta	Indian Institute of Science	Govindan Rangrajan	Research	Public	Large	Education	4 Weeks	Mr. Ravi Sharma
04214804918	Jagjeet kalra, 9318460521, kalraja	NPTI	Tripta Thakur	Power	Govt	Large	Training	4 weeks	Mr Ravi Sharma
03814804918	Harshit Sharma, 9999537200	NPTI	Tripta Thakur	Power	Govt	large	Training	4 weeks	Mr. Ravi Sharma
04114804918	Hritik Mittal, 9990950184, rttikmit	Leonie Construction Ltd.	Ashok Sharma	Construction	Private	medium	Electrical installation	4 WEEKS	Mr. Ravi Sharma
04514804918	Komal Rajput, 7042279668, koma	Indian Oil Corporation Limited	Rachit Agarwal	Petroleum and	Government	Large	Electrical substation	8 weeks	Mr. Ravi Sharma
02814804918	Debarati pal	coursera	Jeff Maggioncalda	Education	pvt	medium	online training	4 WEEKS	Mr. Ravi Sharma
03614804918	Eishu Pal	Monkhub	Raghu Raj Shekhar (M.D)	IT	pvt	small	software and app development	8 weeks	Mr. Ravi Sharma
00214804918	Abheer Singh	Coursera, coursera.org	Jeff Maggioncalda	Education	pvt	medium	online training	4 weeks	Mr. Ravi Sharma
00614804918	Akash Singh	Udemy	Gregg Coccari	Education	pvt	medium	online courses	45 hours	Mr. Ravi Sharma
01714804918	Aryan Saini	Gabril india Limited	rahul sharma	automobile	pvt	large	automobile accessories	4 weeks	Mr. Ravi Sharma
01814804918	Ashish kumar verma	S.R Enterprises	Ashwani chauhan	consultants and	pvt	small	engineers, consultant ,	4 WEEKS	Mr. Ravi Sharma
03114804918	Deepanshu	Udemy	Gregg Coccari	Education	pvt	medium	online training	48.5 hours	Mr. Ravi Sharma
03414804918	Divyanshu Jeena	NTPC	Gardeep Singh	thermal power	pvt	large	power transmission	4 WEEKS	Mr. Ravi Sharma
04314804918	Kapil Shokeen	S.R Enterprises	Ashwani chauhan	consultants and	pvt	small	engineers, consultant ,	4 WEEKS	Mr. Ravi Sharma
04414804918	Kartik Katy ar	Pepcoding education pvt ltd	Sumeet malik	IT	pvt	small	Software development	4 weeks	Mr. Ravi Sharma

EVENTS ORGANISED

S.No.	Event Type	Event Name	Convenor	Date & Year
1	IEEE	Panel Discussion	Dr Monika Gupta	19th December 2022
2	IEEE	IEEE MAIT Orientation	Dr Monika Gupta	19th December 2022
3	Competition	Logo making competition - Unwind reminder 2.0	Ms. Poonam Juneja & Ms. Jyoti Gupta	15th December 2022
4	Industrial Visit	Panipat Thermal Power Station	Dr. Rajveer Mittal & Mr. Ashok Goyal	6th December 2022
5	IEEE	IEEE Membership Drive'22	Dr Monika Gupta	17th November 2022
6	Competition	Skills Matters For MAANG	Dr Monika Gupta	6th November 2022
7	Competition	UI/UX Design	Dr Monika Gupta	14th October 2022
8	Competition	Treasure Among Us	Dr Monika Gupta	14th October 2022
9	Competition	Tricky Circuits	Dr Monika Gupta	14th October 2022
10	Competition	Code-it-Out	Dr Monika Gupta	14th October 2022
11	IEEE	Seminar & Quiz on Machine Learning	Dr Monika Gupta	20th September 2022
12	Orientation	ElectroTech, MAIT's official society of the EEE Department	Ms. Poonam Juneja	18th September 2022
13	IEEE	Studying Abroad & Preparing your Statement of Purpose	Dr Monika Gupta	16th July 2022

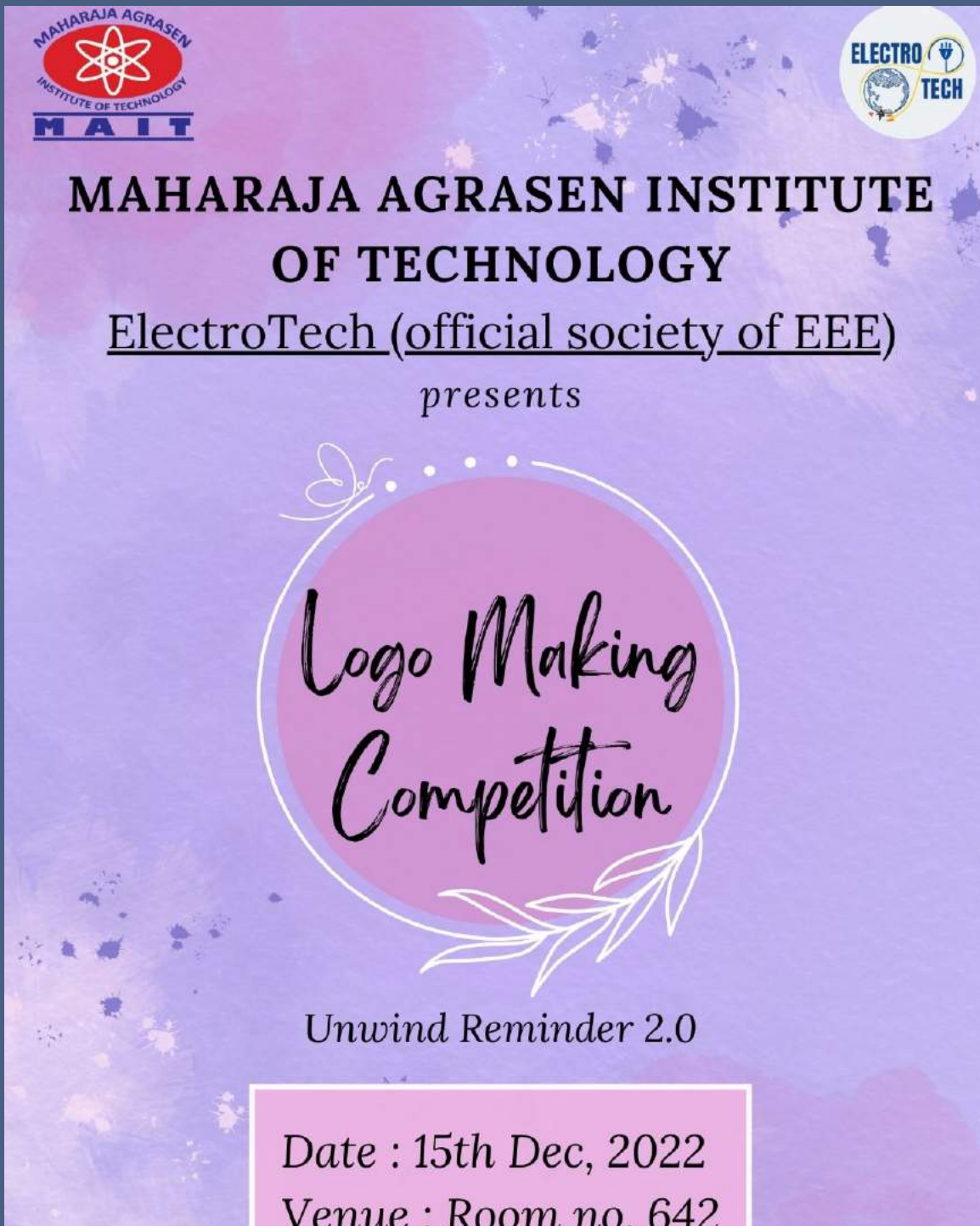
14	IEEE	IEEE Membership Drive	Dr. Monika gupta	14th May 2022
15	Workshop	Workshop on Robotics	Dr Monika Gupta	25-29 April 2022.
16	Competition	Debate competition	Ms. Poonam Juneja & Ms. Monika Bhardwaj	15th April 2022
17	Quiz	SMART 'O' QUIZ	Dr Neelu Nagpal , Ms. Supriya Sharma & Dr. Laxya	24th March 2022
18	Competition	Meme template making competition	Ms. Poonam Juneja & Ms. Ayushi Aggarwal	22th March 2022
19	Competition	Electrical quiz - Electrilla	Ms. Poonam Juneja & Ms. Supriya Sharma	20th March 2022
20	Competition	Postar making competotion	Ms. Poonam Juneja & Ms. Neha Aggarwal	13th January 2022

Bollywood Day



Logo making competition - Unwind reminder 2.0

On December 15, 2022, Electrotech of MAIT's EEE Department organized the "Logo Making Competition - Unwind Reminder 2.0." This event, blending creativity with engineering, allowed students to design logos emphasizing relaxation in the electrical engineering realm. Under the guidance of Ms. Jyoti Gupta and coordination by Poonam Juneja, participants showcased their artistic talents, highlighting the department's commitment to fostering holistic development.



The poster features a purple and pink background with a starburst pattern. It includes the MAIT logo in the top left and the ElectroTech logo in the top right. The central text reads: MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY, ElectroTech (official society of EEE), presents, Logo Making Competition, Unwind Reminder 2.0. At the bottom, a pink box contains the date and venue: Date : 15th Dec, 2022, Venue : Room no. 642.

MAHARAJA AGRASEN
INSTITUTE OF TECHNOLOGY
MAIT

ELECTRO
TECH

**MAHARAJA AGRASEN INSTITUTE
OF TECHNOLOGY**
ElectroTech (official society of EEE)
presents

Logo Making
Competition

Unwind Reminder 2.0

Date : 15th Dec, 2022
Venue : Room no. 642

Ui/Ux competition - DesignItOut

On 04 January 2023, MAIT's EEE Department, through its official society Electrotech, hosted "DesignItOut," a Ui/Ux competition. Aimed at spotlighting students' design prowess, the event, commencing at 11:30 am, revolved around Ui/Ux design themes. Under Mr. Rahul Garg's guidance and coordinated by Ms. Poonam Juneja and Prof. Rajveer Mittal, participants showcased their innovative design capabilities, emphasizing the department's commitment to diverse skill development.



The poster features a yellow background with decorative patterns. At the top left is the MAIT logo, and at the top right is the ElectroTech logo. The central text reads: MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY, ElectroTech presents, UI/UX Competition, Design It Out!. At the bottom, a dashed box contains the event details: Date : 4th January, 2023, Time : 10 a.m., Venue : Mini Auditorium, MAIT. There are also small illustrations of a person and puzzle pieces at the bottom.

MAHARAJA AGRASEN
INSTITUTE OF TECHNOLOGY
MAIT

ELECTRO
TECH

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

ElectroTech
presents

★ UI/UX ★

Competition

Design It Out!

Date : 4th January, 2023
Time : 10 a.m.
Venue : Mini Auditorium, MAIT

TECHSURGE & MRIDANG EVENT-TECHNOMIND



TECHNOMIND

Electrotech conducted this Technical Extravaganza □ TechnoMind on 5th April. It was a 3 round competition comprising of a quiz, a crossword, and finally an ambitious problem solving session. Students participated with zeal and passion, and out of 35, just 8 reached the final round! There was an extensive discussion on E-waste management with our professor Mr. Ravi, and the participants came up with great electrical, technical, and even social remedies for the issue. Choosing the winners was a real nip and tuck affair because of how well everybody performed. **Finally, Ashutosh and Vishwajeet of 3rd year emerged as the winners of this competition.** This competition helped the students to hone their electrical skills and build up their confidence. It provided them a platform to discuss issues and solutions with like □ minded people.

Poonam ma'am & Ravi Sir gave trophies, appreciation certificates and cash prizes to the winners And after the final round we got our two winners Overall the event was a great success, everyone had fun and learnt new things and Electrotech will be back with more events like this



आविष्कार



FACULTY OF EEE DEPARTMENT

VISION

TO PRODUCE TECHNICALLY COMPETENT
HUMAN RESOURCES FOR THE ELECTRICAL AND
ELECTRONICS INDUSTRY WITH HIGH MORALS AND
ETHICAL VALUES