THE AIT TIMES

FUTURE MOBILITY AND NET ZERO

VOLUME 1 | ISSUE 2 | JUNE 2023

AMITY INSTITUTE OF TECHNOLOGY

A JOINT INITIATIVE WITH

TATA TECHNOLOGIES

INDUSTRY PARTNER

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Volume 1, Issue 2

June 2023

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FUTURE MOBILITY AND NET ZERO

Highlights:

- Interview with Mr. Saurabh Mohan Saxena
- Summer School
- Air Force Museum Visit
- Release of First Edition of Newsletter
- Students' Achievements
- NGO Visit

INSIDE THIS ISSUE:

Message From Head Of Institution

Dear Readers,

Warm Greetings !!!

I am happy to present you with the second issue of the quarterly newsletter of Amity Institute of Technology - The AIT Times with the happenings in this quarter. There have been many accomplishments and activities during the even semester 2022–2023. During the last quarter, the visit to the Air Force Museum (in Delhi) was quite informative and a great learning experience for the students. A seminar on Career Opportunities in Automobiles was organized at Greater Noida World school to make the school students aware about various emerging technologies and career options in automotive domain. A webinar on future mobility was also organized for engineering students to keep them up to date on the most recent technical advancements.

I am proud to share that one of our students - Shivi Singh, B. Tech. (Aeronautical Engineering) got selected in Air Force and United Airlines. Another student Gyanvi Bhardwaj, B. Tech. (Automobile Engineering) got selected with Honda Motorcycle at a salary package of 8.5 Lakh per annum. Three students of M. Tech. (Electric Vehicle Technology) were recruited by JLN Phenix and one student by EDS Technology. We are grateful to all our recruiters for their ongoing assistance in recruiting Amity students. The institute is continuously striving to achieve excellence in all areas including teaching - learning research and development. I congratulate all the students, faculty and staff members for their hard work and achievements and assure them of my continued support.

The institute has been progressing continuously in the last few years and we are putting our best efforts to take it forward.

I appreciate and congratulate the student editorial team for their sincere efforts for the release of 2nd issue of the newsletter.

I invite all the readers to contribute by sharing technical articles on emerging technologies to make the newsletter more meaningful and create an impact on society.

My best wishes to all the readers.

Prof. Vivek Kumar

Head, Amity Institute of Technology

Message from the Editorial Desk

It gives us, the editorial team, immense pleasure to take part in publishing the second edition of our Departmental Quarterly Newsletter. As much hard is starting the legacy, equally hard is continuing it.

We proudly announced the release of the first edition of " The AIT Times" in this quarter and was circulated in all departments.

This quarter was full of many activities which helped the students to explore more in their fields. The visit to Air Force Museum was a very informative trip for all the aeronautical students. Th webinar and seminar from experts helped clarify many doubts in that field. Finally a NGO Visit was also held which developed empathy and new learning among the students.

The students made the department proud by participating in many competitions and leaving their mark behind.

We thank all those who supported us in publishing this newsletter and wish that all our readers will look forward for the many more editions of our quarterly newsletter to come.

- Gnanvitha Kosaraju (B.Tech ANE 2021-25)

Jaya Kushwah (B.Tech ANE 2021-25)

A. Sai Visvakesh (B.Tech ANE 2022-26)

Interview with Mr. Saurabh Mohan Saxena

MR SAURABH MOHAN SAXENA: Industry Leader in Mobility Ecosystem with 26 years of Versatile work experience globally with Top Fortune MNCs & Indian Corporates like GM, Fiat Chrysler, Tata, Delphi Automotive, and ZF-Hero in the field of Visionary Leadership, Corporate Planning & Strategy, Business Development, IT/ITES, Sales & Marketing, Channel Management, Business Operations, Purchasing, Supply Chain & Logistics, Plant & Warehouse Management, Innovation & Product Engineering, Projects, Program Management, Quality, Manufacturing Engineering, Facility, Utility & Administration Management.

Currently, he is the Global Managing Director, of AHODS Technologies, Director – of Krisheel Growth Ventures, Member: The Hydrogen Association of India, Member BoS – AIT, Amity University, Advisory Boards of multiple MSMEs & enterprises. He also worked as Ex COO ZF-Hero Chassis Systems, Ex Sr. Management positions at Top Indian Corporations & various Fortune 50 Auto MNCs.

He spoke in-depth on **"Lead Role of Bharat in Green Hydrogen"** with **Prof. Vivek Kumar**, Head of Institute, Amity Institute of Technology, Amity University, Noida.

The National Green Hydrogen Mission's features were highlighted by Prof. Vivek to open the conversation.

India has set goals to achieve Net Zero by 2070 and energy independence by 2047. India's Energy Transition is focused on maximising the usage of renewable energy across all economic sectors to meet this goal. A potential substitute for facilitating this shift is green hydrogen. In addition to replacing fossil fuels in industry and providing clean transportation, hydrogen can also be used for decentralised power generation, aviation, and maritime transportation. The Union Cabinet authorised the National Green Hydrogen Mission on January 4, 2022, with the following goals:

⇒Making India a leading producer and supplier of Green Hydrogen in the world

⇒Creation of export opportunities for Green Hydrogen and its derivatives

⇒Reduction in dependence on imported fossil fuels and feedstock

⇒Development of indigenous manufacturing capabilities

⇒Attracting investment and business opportunities for the industry

⇒Creating opportunities for employment and economic development

⇒Supporting R&D projects

The mission outcomes projected by 2030 are:

⇒Development of green hydrogen production capacity of at least 5 MMT (Million Metric Tonne) per annum with an associated renewable energy capacity addition of about 125 GW in the country

⇒Over Rs. Eight lakh crores in total investments

⇒Creation of over Six lakh jobs

⇒Cumulative reduction in fossil fuel imports over Rs. One lakh crore

⇒Abatement of nearly 50 MMT of annual greenhouse gas emissions

Q: The green hydrogen mission has received the approval of the central government, with starting expenses of approximately 19744 crores. The mission aims to make India independent in energy sources and leverage its economy, focusing on carbon emission reduction.

So, what is green hydrogen and how is it classified as Green, Blue and so on?

A: The question is fundamental and basic, as it pertains to green hydrogen goals. Hydrogen is one of the lightest atomic numbers found in the world, with 1 atomic number in the atmosphere. It is the most abundant element in the universe, and our sun, universe, and planetary system are all powered by hydrogen. For the last 100 years, fossil fuels have been the primary source of energy, leading to pollution and greenhouse gas emissions. Hydrogen is the cleanest fuel available, as it has no carbon content and can be used as a fuel.

Hydrogen is the most abundant element on Earth, which is stored in ecosystems like clouds and water. Green hydrogen, obtained through solar power and chemical reactions, is the cleanest source of hydrogen. India's Prime Minister has raised the hydrogen mission, and the technology is being developed in the automotive sector.

Green hydrogen is the next economy to be developed, with a growth rate of 5 trillion and is a geopolitical game. The world is running on energy, and the raw material used in small world is fixed for the same.

There are other types of hydrogen, including grey hydrogen. Green hydrogen is a patent technology that can be used to create a clean and sustainable energy source.

Grey hydrogen, produced using coal, emits greenhouse gas emissions. Blue hydrogen uses carbon capture techniques to capture carbon, making it blue. India has set a goal of achieving net zero by 2070 and is constantly working to make this possible. India can become a leader in this field, as it is the largest exporter and domestic market due to its high population and energy consumption. The budget allocated for this project is 19000 crore, and various corporations should work on developing it further to become a hydrogen hub. This will make India not depend on any one source of energy, save forex, and eliminate greenhouse gas emissions.

Q: Thank you, Mr Saurabh, my next question is, in which industries we are using hydrogen. Secondly, we say that hydrogen is a fuel of the future what are your comments on this?

A: Hydrogen is a growing topic in various industries, including petrochemicals, steel, cement, and food. However, it is currently not being used as a fuel. The Indian government has started a petrol pump in Delhi, mixing 4% hydrogen, which was previously used by cars. This will become a future fuel due to the increasing effects of greenhouse gases from fossil fuels, which pollute the environment and raise concerns about melting glaciers, flooding, and climate change. Hydrogen is the cleanest fuel available and abundant in nature.

India's solar allowance and proximity to the equatorial belt make it a prime location to connect with the entire planet. India's solar allowance and abundant sunshine make it an attractive option for producing hydrogen. The UAE minister is also interested in green hydrogen, as he was bullish on the idea of a car running on hydrogen. This topic has gained attention and is expected to become a future fuel for many countries.

Q: What is the cost of production of hydrogen and how do we compare with petroleum products? And what will be the cost of production in the next 5 or 10 years, will it decrease, and would it be beneficial or comparable? Please comment on this.

A: The world is currently dominated by fossil fuel systems, making it difficult to replace them

them with a new one. Countries have set goals for a longer duration, like 2045, to reduce carbon content and completely eliminate them. Hydrogen is an ideal solution to eliminate pollution, but its high cost makes it uneconomical for businesses. The government has introduced subsidies, and it is now time to invest in a holistic hydrogen economy. Companies like Tata and Ambani are investing in this, while e-horse companies like e-Horse India are working on research to reduce the value of hydrogen fuels. By achieving this goal within five years, the cost of hydrogen as a fuel will be affordable and sustainable. Middle Eastern countries where the business is based on oil, but looking up into the upcoming electric vehicles and usage of other fuels, they have started investing in these to develop themselves. Everyone has now accepted the birth of the hydrogen economy. Recently during the speeches of the presidents of the largest democracies, there was a mention of "Green hydrogen." So, this was a very satisfactory thing that amidst many global topics, hydrogen was also regarded as an important topic. It was already an investment of multi-trillions and now there is a need to give up the old ways and adjust to the new ways. We have the new generation to execute it, we have good institutes to do research on it, there is an investment in the infrastructure by the government, and the market is available to implement this.

Government investment shows the initiative for future advancement. In all the startups, patents, and accepted patents, the first thing we want to achieve is to remove all the possible constraints like storing hydrogen- since hydrogen is highly flammable.

Q: Yes, what will be the other challenges of introducing hydrogen as a fuel and how can they be converted into opportunity

A: I have always believed that Indian culture, the shlokas and all, are the equations of life. They taught us to worship the Sun which is the ultimate source of energy, be it fission-fusion or anything else. So important is how we use it. So, it is important to research all the constraints. Also, hydrogen is not yet used on a large scale and then flammability is 4 times that of petrol and diesel. Hence it is important to set safety standards, usage patterns and applications.

We are mostly talking about using hydrogen in transportation but it can also be invested in the industry to produce "Green Steel", or "Green Cement". This is supported by the government in terms of funds required. Companies and institutes can collab along with the participation of the public using technology to safely use hydrogen. We have already run the trails and are running ahead of our goals. And using this medium, i would like to convey that we have prepared the technique such that the common man can easily use it in their cars and reduce their cost. I am happy to know that institutes are aggressively working on this and we are discussing this topic here so that everyone can listen.

Q: Thank you, sir. Recently, big companies such as Reliance Industries have also initiated the development of "Green Hydrogen". Also, Adani Industries has initiated a 50-billion-dollar investment which majorly includes green hydrogen. And Tata Motors, these three companies have developed its own techniques and ideas. So, could you also brief us about your technique, in what way they can be used and how would it benefit us?

A: We as professionals want to make energy affordable to any common man. At starting the price is higher but then it eventually decreases such that anyone can afford it. Similarly, we are aiming to develop a future fuel and we have been working on this for a long time. And now we can proudly say that we can provide hydrogen as fuel to the common man. They can use this as their fuel without any storage which hence decreases the fuel cost. Normal fuels that we currently use such as petrol or diesel, are a source of pollution. But in case hydrogen is mixed even in small amounts, it decreases the emission and the fuel cost by a large percentage. It cuts carbon emissions and saves fuel. And now we are trying that they make it affordable such that they can buy them like CNG kits. And in technology, hydrogen can also be used as back-up energy for mobile towers. We have experimented a lot on this, and I am really happy to say that they were successful where emissions were cut to a remarkable level. This is a service we want to provide to our country so that the people can inhale clean air and the technology can be easily available and affordable. The calculations state that it will have a major socio-economic health impact which has been mentioned by the UN too. We want that India leads this campaign of Hydrogen such that when other countries would be thinking of implementing it, our prime minister could announce that we have already done it. That is what AHODS stands for Advanced Hydrogen on Demand to reduce pollution and use fossil fuels in today's date.

Q: A very good initiative sir. Another question raised by listeners is if it is produced in high pressure or low pressure. What, are the challenges faced by hydrogen storage?

A: It is produced at low pressure only because since Hydrogen is flammable, it cannot be produced at high pressure. It has risky consequences. The major problem with storing Hydrogen is that it is flammable and light gas. The transportation of high amount of hydrogen or liquifying the gas - both are very challenging tasks. Hence many trials are going on for this. The various properties of hydrogen make it a difficult task to store it. It causes embrittlement when reacting with steel and hence redesigning the storage tank is going on to make it easier. Many companies are researching in this area if Hydrogen can be stored in various forms- compounds, paste or nanomaterial apart from the traditional way of storing after liquefying..

Q: Also, we would like to know about the electrolyser you mentioned before. How it can be used and how can it be improved in the future?

A: Hydrogen can be used to generate electricity by inserting it into fuel cells or the other way is to take energy and then produce hydrogen. Lots of technology goes into it to separate it from oxygen by using membranes. Very few companies produce them but they are always high in demand and quite expensive too. So, there are challenges but parallelly research and various works are going on to reduce the cost to democratize the product.

Q: My last question is that what do you expect from the Uttar Pradesh government to provide you as a startup company to produce "Green Hydrogen"?

A: The Chief Minister has always been supportive of the state's progress. I would just convey that AHODS startup will help in the future economy. It is a place where the population is high and therefore, much investment is coming in. We look forward to land, investments, and support in Uttar Pradesh from the Hon'ble Chief Minister. So, I would request that they include innovative and *atmnirbhar* AHODS in Uttar Pradesh Hydrogen Policy-making and support us in as many ways as possible. And we can probably put this state on the map of Hydrogen fuel like Abu Dhabi and all are in the fuel map. We do have support, but fast implementation is required in terms of finance, land or policy. And we believe it can be done with our support, support from the state, people and country. Many leaders came to IIT during International Energy Week and appreciated our product which was a Hydrogen driven vehicle. So as Toyota is making on a large scale, we are trying on a small scale. And with support from the government, we too can make it to the world level.

Q: Hope all your trials get successful. Best wishes to you sir and your AHODS Technology. We wish for you all to succeed. And we believe that India will become a world leader in terms of Green Hydrogen in near future. .).

Alumni Speak

I am writing this testimonial to express my heartfelt gratitude and appreciation for my experience as a B.Tech Automobile Engineering student at Amity institute of technology, Amity University. From the moment I stepped onto the campus, I knew I had made the right choice in pursuing my engineering education at Amity.

The faculty at AIT is undoubtedly one of the greatest assets of the institution. The professors are not only highly knowledgeable in their respective fields but also genuinely passionate about teaching and guiding students. They go above and beyond to ensure that we grasp the fundamental concepts and apply them to real-world scenarios. The interactive teaching methods, practical demonstrations, and industry-oriented approach have tremendously enhanced my understanding of the subject matter.

The state-of-the-art laboratories and workshops equipped with the latest technology and machinery have provided us with an excellent platform to apply theoretical knowledge into practice. The university also organizes frequent industrial visits and internships, giving us valuable opportunities to gain hands-on experience and interact with industry professionals. These experiences have not only boosted my confidence but also broadened my perspective on the industry and its challenges. The dedicated placement team works tirelessly to ensure that students are well-prepared for job interviews, and they provide valuable guidance and support throughout the placement process. As a result, I have had the privilege of securing an internship at a renowned automobile company Tata Technologies during my third year, which gave me the confidence to land a job at Honda Motorcycles & Scooters India Pvt Ltd. As an Executive Trainee.

I am proud to be a part of the Amity family and would highly recommend AIT to any aspiring engineering student seeking a comprehensive and enriching educational experience.

Gyanvi Bharadwaj
2019-2023 Batch
Executive Trainee
Honda Motorcycles & Scooters India PVT LTD.
8.5 Lakhs PA

"I am grateful for the opportunities offered by Amity University, Noida (AIT) to enhance my knowledge. As I recently got Graduated with a degree in Aeronautical Engineering, the complete program structure, environment, and industry-relevant exposure make this institution a dream college for every student who aspires to be successful in their career. I have established my leadership, time management, technical and team skills and have also been able to advance these skills.

Within the University, being in an Institute that has already a collaboration with the Tata Technologies leads us to enhance our knowledge in the area of what the industry requires us all to know after graduation which includes the internship, revised syllabus and industry ready guidance."

Prince Kumar Chauhan
2019-2023
Designation: Associate Engineer (Component)
United Airlines Business Services Pvt.Ltd
Package: 6.5LPA

I have recently graduated from Amity University with a degree in Automobile Engineering. Throughout my academic journey, I was fortunate to have incredibly supportive and understanding teachers who played a vital role in my success. One aspect that greatly contributed to my practical knowledge was the collaboration between the university and Tata Technologies. Through this partnership, I had access to benchmarking labs, where I gained hands-on experience in the field. Moreover, the syllabus, prepared by industry experts, ensured that I was well-versed in the latest technologies, including electric vehicles. Proud to be a part of Amity.

Venkatesh Trivedi
2019-2023
DESIGNATION – GET – service
Suzuki motorcycle India limited
Package – 5.5L

Summer School

The list of students who participated in Summer School:

Sr. No.	AUSS Enrollment No.	Student Name	course	Class
1	AUSS2023002	Mr Rishi Narula	Automobile Engineering	XIth
2	AUSS2023015	Mr Samarth Dalvi	Automobile Engineering	XIIth
3	AUSS2023025	Ms Anushka Majumdar	Automobile Engineering	XIth
4	AUSS2023048	Mr Yash Sharma	Automobile Engineering	XIth
5	AUSS2023121	Mr Ashrith Mahankali	Automobile Engineering	XIth
6	AUSS2023227	Mr Veer Singh	Automobile Engineering	XIIth
7	AUSS2023234	Mr Ojus Goyal	Automobile Engineering	XIIth
8	AUSS2023283	Mr Mutnani Deep	Automobile Engineering	XIth

A two weeks summer school programme in Automobile Engineering was offered to the school students of Class X to XII from 5th June 2023 to 16th June 2023 at Amity Institute of Technology. The summer school programme provided an opportunity to school students to explore the horizon of opportunities through insightful practical learning that invokes a path of self-discovery among students. Total Eight students from different places participated in the summer school programme in Automobile Engineering.
The programme was based on the core theme of automobiles, introducing the anatomy and the functioning of all major components of the modern automobile. With an introduction to the engine and its accessories, the course deals in detail with the description of automobile components like the engine, clutch, transmission, final drive, axles, wheels, suspension, steering, and electrical systems among others. Concepts of modern automobile controls and electric vehicle technology were also included. The students visited all the competency centres at Amity Institute of Technology, which are developed by TATA Technologies Ltd
The Summer School was led by two staff co-ordinators 1. Dr. Anil Kumar and 2. Dr. Gaurav Ninawe of Amity Institute of Technology, and sessions were conducted by eleven faculty members according to the schedule provided
As a continued part of our focus on physical activity and wellbeing, students had a session of sports and yoga activities. This included activities such as horse riding, team-building games, shooting and different outdoor sports. Group activities enabled the group to create a sense of community, eased anxiety about the transition to university system and allowed students to forge new friendships.

Student's Feedback:

Mr. Rishi Narula : In this course, I have learned about the basics of engines, chassis, and different components of automobiles. The faculty made it very easy to learn about the course. I have also participated in various activities and tasks at the campus.

Mr. Ashrith Mahankali: I have a very nice experience with Amity University Summer School. I have enjoyed the summers school as the teaching method of the faculties are unique and good. I have learned many new things by joining this summer school programme. The opportunity for staff to meet, work with and get to know these students was invaluable.

Activities held during the Summer School

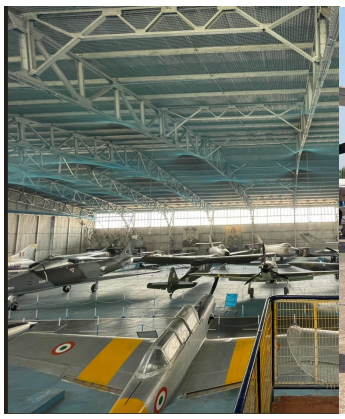
Air Force Museum Visit

Event Date:13/04/2023. The Air Force Museum is a place where one can learn about the history and achievements of the Indian Air Force. The various aircrafts, weapons, uniforms, medals, and other artifacts that showcase the Air Force's role in defending the nation and advancing aerospace technology can be seen there. The museum also offers educational programs, tours, events and exhibits for visitors of all ages and interests. The objective of this visit was to learn about the history and achievements of the Air Force and its role in national defence and global security. Exploring the exhibits and artifacts that showcase the evolution of aviation technology and the stories of the people who served in the Air Force. The visit started near about 9:30 AM in the morning and all faculty and students reached Air Force Museum about 10:30 AM. After reaching there, passes were collected from reception, Air Force Museum. After entering the museum all students along with the faculty members visited the outer zone and had a look at aircrafts, helicopter. After visiting the outer zone all students were allowed to move freely in the museum and collect details of the aircrafts kept there. At 1:50 PM all students gathered at the meeting point and clicked the group photograph. Then, the bus left the museum at 2:10 PM and reached Amity campus at 3:10 PM.

Faculty Coordinator: Dr. Himanshu Mishra, Dr. Bedatri Moulik

Student Coordinators: Nakul Kaushik and Tanushri Saini

Group photo at the Air Force Museum



Technical Seminar at Greater Noida World Public School

Mr. Anil Kelapure conducting the Seminar

Event Date: 18/04/23: Seminar was attended by around 145 students of class 11th and 12th and 8 teachers. Prof Vivek presented a brief introduction of Amity Institute of Technology, collaboration with Tata Technologies, state of the art competency centres developed by Tata Technologies, projects developed by students and placement and internship opportunities available to the students. He encouraged students to participate in various technical competitions and advised them to visit Amity campus on any convenient day. He also offered to provide technical guidance to interested students to develop science projects.Mr Anil Kelapure, discussed the need and history of Automotives, their development, Industry 4.0, emerging technologies including Machine Learning and Artificial Intelligence. He interacted with students about electric vehicles, hydrogen fueled vehicles and connected cars. His talk was well received and appreciated by the students and teachers. The students were very inquisitive and asked many questions related to career options after 12th class and emerging technologies.

Resource person : Mr Anil Kelapure, Programme Director (Automobile), Tata Technologies.

"Read books and attend seminars– they are decades of wisdom reduced to invaluable hours."
-Mark Victor Hansen

Release of First Edition of Departmental Newsletter

Event Date: 19/04/2023; Announcing the launch of Amity Institute of Technology's first e-newsletter. This newsletter will provide our readers with the latest updates about the institute, its departments, and their achievements. It will also share news and stories from our alumni, faculty members, and students. We believe that this newsletter will be a great platform for keeping our readers informed about all the new developments and upcoming events at Amity Institute of Technology. The event began at 1:30 PM, with all staff members, students, our guest present. The event began with Prof. Vivek Kumar Head, Amity Institute of Technology announcing the launch of inaugural e-newsletter " THE AIT TIMES ". This was followed by the arrival of guest, Prof. (Dr.) K.M. Soni, Dy Dean – Engineering & Technology who inaugurated the first e-newsletter. Prof. Vivek Kumar gave the brief overview of the newsletter. At the conclusion of the address, everyone commended the editorial team's efforts in making this e-newsletter a success. Prof. Vivek Kumar also discussed the upcoming release of the e-newsletter. The event concluded with a photo session.

Guest: Prof. (Dr.) K.M. Soni Professor, ECE Department- ASET, Deputy Dean, Engineering & Technology, Incharge, Ph.D. Dept. – AUUP

Editorial team: Gnanvitha Kosaraju, Jaya Kushwah, Smriti Mathur, A. Sai Visvakesh

Official Release of the First Edition of Newsletter

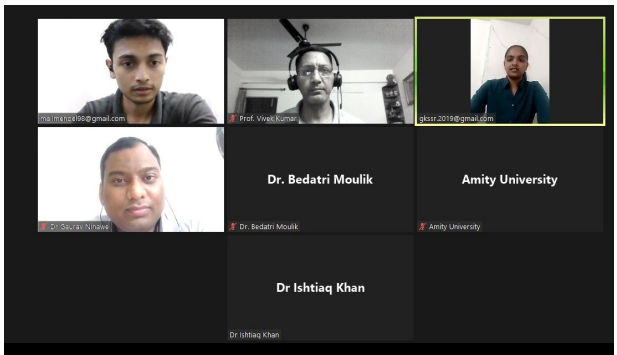
Webinar on "Future on Mobility and Career Opportunities"

Event Date: 21/04/2023: Dr. Ishtiaq Khan is working in TATA Technologies from last 19 years. He has Project Management experience in Automobile and Aerospace Industries. He has worked in Germany, UK, France and Italy for large Automotive and Aerospace Programs and has been granted 6 patents from US, Europe and India. He has also done Ph D in Mechanical Engineering. His experience includes Automobile, Aerospace, Internet of things, Additive Manufacturing, Robotics, Augmented Reality, Software Application Development, Android Mobile Applications, Data Analytics, Machine Learning etc. This online webinar on "**Future on Mobility and Career Opportunities"** was conducted aiming to educate the school students regarding the future in the field of mobility and how it provides the career opportunities to them. The webinar started with digital lamp lighting and proceeded with the interaction session held by the speaker. Many learning aspirants came up with their doubts which were clarified by the speaker and the faculty coordinators. The webinar included information regarding the various opportunities in the field and how the field of mobility will keep on evolving in the future.

Faculty members attended: Prof. Vivek Kumar, Mr. Anil Kelapure, Dr. Gaurav Ninawe, Dr. Bedatri Moulik

Student Coordinator: Noel Ibrahim, Gnanvitha Kosaraju

"Webinars have always been great for understanding what is new within the industry and is a great service for continuing education. It helps to become better at the job."
-Mark Spencer

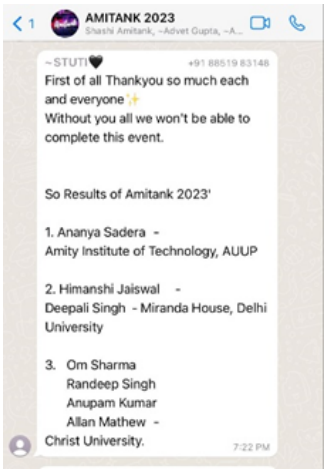


Online Conduction of the Webinar

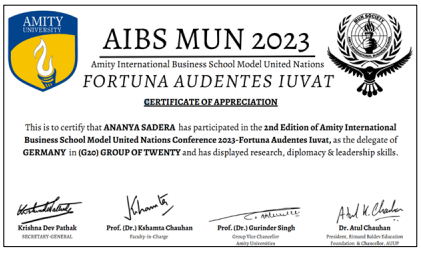
Students' Achievements

Noel Abraham Cherian:
Completed course prescribed NPTEL course as well as obtained certification for the same with silver ranking.

Ananya Sadera:
First Prize in Amibizz (which was a part of Amity Youth Fest) (organised by the department of Entrepreneurship)



Ananya Sadera:
AIBSMUN (organised by Amity International Business School)



Ananya Sadera:
Participated in 'Speak for India' and won a zonal level certificate on behalf of our college.

Anoushka Verma:
Participated in Amity Youth Fest "Met Gala" create a costume dated 31st March 2023.

Anoushka Verma:
2nd Runner Up in "Sing Your Moment" dated 23rd February 2023.

Anoushka Verma:
Participated in Amity Youth Fest "Nrityansh" classical dance dated 31st March.

Tanushri Saini:
Campus Ambassador
TATA Technologies Ltd.
Date: July 2022 - Present

Sukrit Kumar:
Participation, Designing and presentation in SAE Aerothon 2022

Sukrit Kumar:
Participant in "Sing Your Moment" dated 23rd February 2023.

Sukrit Kumar:
Online Micro Internship at Tata

Nakul Kaushik:
Participated in SAEINDIA AeroTHON 2023 Phase-1 Completion
Organised by SAEINDIA

Tanushri Saini:
Participated in SAEINDIA AeroTHON 2023 Phase-1 Completion
Organised by SAEINDIA

NGO Visit by Vesuvius Club

Vesuvius: the performing arts (AIT's cultural club) organised a visit to the slum community of Raipur Khadar village to raise awareness about education among women. Six students along with faculty took part in the program, and the residents of the slum were educated on the value of education in life. Around 30 families were assembled in one location, and at the end of the awareness session, the families were given food donated by the teachers and students of Amity University. Books, pens, pencils, erasers, and chocolates were presented to the children. The joy on those people's faces brought us tremendous satisfaction in knowing that we were able to aid the needy despite our small contribution .

Experiences shared by the students:

Ananya Sadera: We have been learning sharing is caring since our childhood but yesterday when we visited the slum area I actually learned the meaning of this phrase. We shared our knowledge with the women out there telling them the importance of education and encouraging them to study and further help their children become educated so that the future of the coming generation is bright. We also distributed books and pen as a token of love from our sides. It was very fun interacting with the people out there . Looking forward to such more visits.

Anoushka Verma: This was my first time seeing a slum. It was a fascinating and rewarding experience. While speaking with them on the occasion of International Women's Day, I felt pleased and warm. We spoke with children and women and saw their way of life. I talked to them about the value of education and safety. Notebooks and pens were distributed as well. It was a wonderfully healthy, pleasant, and uplifting visit, and I would certainly attend again in the future.

Akshara Bhardwaj: The experience of the visit was excellent. Along with the youngsters and their families, we all had a great day. It was a wonderful experience to meet with local ladies and educate them about the value of education. I'll never forget the smiles on their faces when we offered them joy. I'm honoured to have taken part in such a spectacular occasion. In the future, I would dearly love to return.

Faculty Coordinators: Anil Kumar

Students participated: Jaya Kushwah, kadam Payal Kailas, Mehak Virmani, Anoushka Verma, Ananya Sadera, Akshara Bhardwaj

"It is not how much we give but how much love we put into giving."
-Mother Teresa

The visit to the Slum community of Rajpur Khadar Village

Upcoming Events

⇒ **International Conference on Future Mobility and Net Zero** : The International Conference on Future Mobility and Net Zero is being organized by Amity Institute of Technology in September 2023. The conference aims to bring researchers, academicians and industry experts on one platform to share their knowledge and findings about future mobility aspects on EVs, drones, smart materials, and digital manufacturing for sustainable mobility. It will be held on 28th – 29th September 2023

⇒ **Vesuvius Club:** Organizing events like Techers' Day and Freshers' Day

⇒ Apart from this, other clubs– Piston Craft Club, Aerobotics Club, AEE Club, SAE Club will also hold activities from their respective clubs/chapters.

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ABOUT AMITY INSTITUTE OF TECHNOLOGY

Amity Institute of Technology, established in close collaboration with Tata Technologies Limited, is committed to provide excellent education to enthusiastic students for becoming a well-qualified industry ready engineer in the field of Automobile Engineering, Aeronautical Engineering, Unmanned Aerial Vehicles (UAVs), and Electric Vehicles. AIT is a globally recognized Institute for imparting outstanding education for developing all the required competencies in our next-generation engineers. For doing so, AIT has established 6 Competency Centres namely Technology Centre, Innovation Centre, Learning Centre, Virtual Reality Centre, Teardown and Bench Marking Centre, Drone Centre, and Advance Manufacturing Centre. Our state-of-the-art Competency Centres consist of Industrial Robots, Conveyor Assembly Line, Manufacturing Execution System, Teardown and Benchmarking, Vehicle cut section, Automobile Components and systems, 3D Printers, Aircraft Simulator, Aircraft Components and systems along with the other core labs. The Technology competency centre is equipped with software such as MATLAB, Ansys, MSC Nastran, MSC Patran, MSC Apex, Catia V5, CREO etc. to train the students as per industry standards.

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