



Alumni's Article

Innovation Of 2023 (HAL)

Humanity is tackling global challenges with inventive solutions. Progress in science and technology is aiding businesses in mitigating greenhouse gas emissions, fortifying vital infrastructure against cyber threats, and empowering teams within a rapidly evolving workforce.



A groundbreaking development lies in technology paving the way for renewable fuel production. An infographic elucidates the process of creating eFuels. Essentially, this technology transforms captured carbon dioxide (CO₂) and green hydrogen into a feedstock capable of generating eFuels, also known as electro fuels. These eFuels can slash greenhouse gas emissions by an impressive 88% when compared to conventional jet fuel.

The innovation lies in the fact that contemporary aircraft can be fueled by up to 50% sustainable aviation fuel (SAF) when blended with traditional jet fuel. Predictions from the International Air Transport Association suggest that sustainable aviation fuels will contribute around 65% of the necessary emissions reduction for the aviation sector to achieve net-zero by 2050.

While SAF is commonly derived from sources such as waste fats, oils, and greases, or other biomass, expanding the adoption and progressing towards powering planes with 100% renewable fuels necessitates additional technologies for producing diverse feedstocks. Furthermore, when aircraft burn conventional jet fuel, they release stored underground carbon dioxide into the atmosphere. In contrast, eFuels are manufactured using carbon dioxide that is already above ground, marking a more environmentally sustainable approach.

Mr. Jaimeen Chhatrawala (M.Tech, Control and Automation)
Solution Analyst, Industrial Automation,
Honeywell, Optimized solutions Limited.



- Ms Megha Bhatt, an Alumni of the Civil Engineering Department and secretary of FSAI Gujarat Chapter, in collaboration with the organisation of Civil Engineering Students (ORCES), conducted a 'Blood Donation Camp' for the students of Nirma University on August 1, 2023.



- Mr.Yash Katrodiya of 2017 Batch, Founder at Recells Technology - The Future Batteries conducted lecture on "From Idea to Impact- A Roadmap to Entrepreneurial Success" on July 17, 2023.
- Mr. Palakkumar Mehta of 2009 Batch, Associate Environmental Engineer in Gujarat Pollution Control Board (GPCB) conducted lecture on "Cracking Competitive Exams" on July 17, 2023.
- Dr. Nilanjana Banerjee of 2005 Batch, Associate Professor and Head of the Chemical and Petroleum Engineering Department (Energy Cluster) at UPES, Dehradun conducted lecture on "Net Zero - Decarbonization of Energy and Chemical Industries" on July 18, 2023.
- Mr. Daksh Bajoria of 2006 Batch, A Plastic Specialist at Riviera conducted lecture on "Growth in the core Manufacturing Sector" on July 18, 2023.
- Mr. Karan Shah of 2006 Batch, Partner at Krishna Enterprise, conducted lecture on "Options for Higher studies" on July 18, 2023.



- Mr. Parthiv Shah of 2006 Batch, Director @DoctorC, conducted lecture on "Management studies & wider corporate job market options" on July 18, 2023.
- Mr. Survashish Chattopadhyay of 2009 Batch, Associate Manager, Ops Consulting & Transformation, Accenture, conducted lecture on "Career paths after Engineering" on July 18, 2023.
- Mr. Anjani Sharma of 2014 Batch, scientists at ISRO, conducted lecture on "Scope of Chemical Engineering in Space Science and Technology" on August 28, 2023.
- Ms. Anuradha Tadeppali of 2003 Batch, Senior Manager of Deloitte Consultancy, USA, conducted lecture on "Interview preparations and soft skill development" on August 31, 2023
- Alumni members of B Tech Mechanical Engineering, Mr. Naman Kothari, and Mr. Kunj Dholiya of 2021 passout batch and Mr. Karnav Sagathiya of 2022 passout batch cracked Common Admission Test (CAT) with high percentile and secured admission into highly renowned Indian Institute of Management (IIM). Mr. Naman Kothari secured admission to IIM, Ahmedabad. Mr. Kunj Dholiya secured admission to IIM, Lucknow. Mr. Karnav Sagathiya secured admission to IIM, Calcutta.
- Alumni member of B Tech Mechanical Engineering, Mr. Sarvagya Sharma of 2021 passout batch cracked Graduate Aptitude Test in Engineering (GATE) with high percentile and secured admission into highly renowned Indian Institute of Science (IISc), Bangalore.



An expert talk on “Entrepreneurship vs Employment: Most of the Young Gen Dilemma” was conducted on 15 September, 2023 for interested students of the CSE Department. The talk was delivered by CSE alumnus Ms. Khushboo Solanki (2005 pass out IT batch), the founder of Zero Gravity Communications. The talk aimed to shed light on crucial entrepreneurial strategies and insights, making it an event of significant importance.



An expert talk on “Building effective presentations and storyboarding: A workshop” was conducted on 2 September, 23 for interested students of the CSE Department. The talk was delivered by alumnus Mr Shivang Bhagat (2015 pass out CE batch), [Senior Consultant, Healthark Insights](#).





- Two expert sessions were conducted on “Entrepreneurship” on 14 September, 2023 and 22 September, 2023 by Mr. Pratik Patel at CSE Department. It was an enlightening session that offered valuable insights into the world of entrepreneurship.

- Mr. Samir Motwani (CEO of RapidOps Solutions Pvt. Ltd., Ahmedabad) offered insightful information on current market trends during orientation on 31 July, 2023 for students of BTech 3rd Sem CSE. This helped students gain a practical awareness of the demands and expectations of the computer science sector in the actual world.



- Parth Aggarwal (AI Product Manager at Cactus Labs in Mumbai) led a session at the BTech 3rd CSE orientation on 31 September 2023. He stressed on the critical contribution that programming knowledge makes to the advancement of modern technology. He emphasized on the critical importance of these abilities for students seeking computer science education and their applicability in the quickly changing technological environment of today.
- During one of his sessions at the BTech 3rd semester Orientation (31-7-23), Mr. Kumar Vidhani (Scientist and C.T.O. at TCS Research & Development) highlighted the vital subject of data privacy, bringing light on the imperative necessity to secure sensitive and personal information in the modern digital world.



- Tech Holding came for the first time for campus recruitment in September 2023. The founder is from the first batch of CE alumni Vimal Savaliya.



- Mr. Manal Ghadawala, an esteemed alumnus of Nirma University's IC Department and a current employee at Reliance delivered an expert lecture on July 17, 2023. His lecture mainly focused on career paths in Automation and also share valuable insights on preparing for a successful journey in the industry.
- Ms. Hetvi Vyas, a proud alumnus of Nirma University's IC Department, and current employee in Flipkart's supply chain management delivered an expert lecture on July 17, 2023. Her insightful presentation focused on preparing for the corporate world and provided invaluable guidance to the aspiring engineers.



Alumni Lecture series during September 2023

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ORGANIZING
ALUMNI
LECTURE SERIES
ON
ENTREPRENEURSHIP

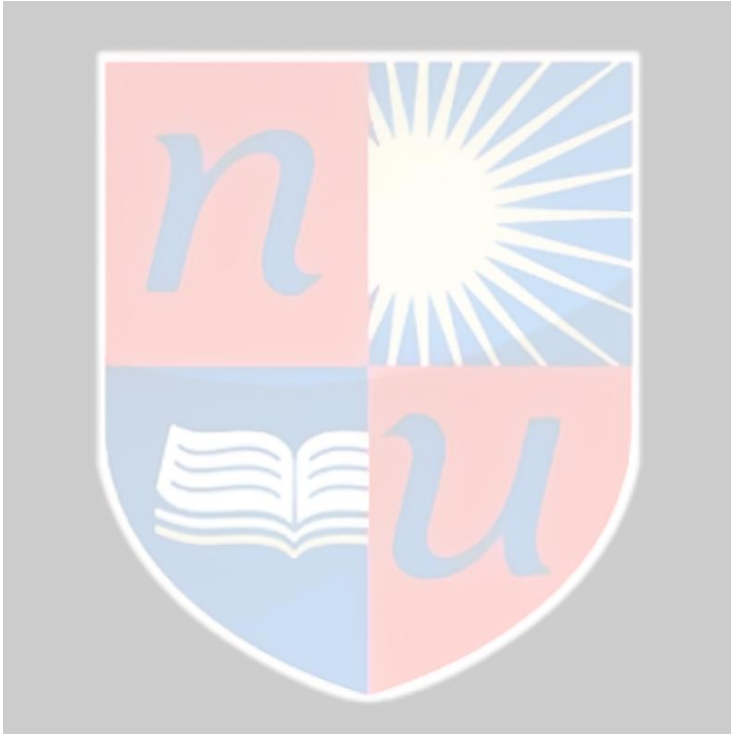
PRATIK PATEL
Managing Director
Yudiz Solutions Ltd.
Day 1
14-09-2023 (Thursday)
11:00 to 1:00

KHUSHBOO SOLANKI
Founder
Zero Gravity Communications
Day 2
15-09-2023 (Friday)
10:00 to 12:00

SHIVANG BHAGAT
Senior Consultant
Healthark Insights
Day 3
22-09-2023 (Friday)
11:00 to 1:00

Dr Tejal Upadhyay, Dr Parita Oza, and Dr Smita Agrawal
(NITAA Coordinators- CSE)
Dr. Madhuri Bhavsar
Professor & Head, CSE





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