



Launching of acem JOURNAL VOL-7

On 10th September, 2022, Advanced College of Engineering and Management (acem) launched its Journal 'acem Vol-7' for the purpose to provide avenue for academic research discourses that contribute knowledge to the world of engineering. This launching ceremony was organized at acem amidst the exquisite presence of chief guest Prof. Dr. Dharma Kanta Baskota, Vice Chancellor (VC), Tribhuvan University (TU) and special guest Dr. Sunil Babu Shreshta, VC, Nepal Academy of Science and Technology (NAST).

knowledge through the research studies. Dr. Sunil Babu Shreshta, VC of NAST prioritized the indispensability of journals and rendered his opinion on research-oriented teaching.

On behalf of acem, the chairman of the college Mr. Ramesh Kumar Silwal welcomed the distinguished guests and expressed his gratitude to the management team for the launching of the journal. He asserted that acem is an excellent forum for the engineering students and faculties to disseminate experimental findings to specific audiences. Er.

Laxmi Bhakta Maharjan, Editor-in-Chief of acem and the vice principal of acem acknowledged that the research articles reinforce current and future students' deep learning in which students construct new knowledge by meaning making and applying their knowledge and skills in a complex real-life context.

The launching ceremony was concluded with the vote of thanks by Er. Lochan Lal Amatya, the then

principal of acem. Along with expressing thanks, Er. Amatya shared that acem has realized its role to shape the future of its faculties and students and thus encourages research studies and publication of the research output through acem.



Chief guest of the program Prof. Dr. Dharma Kanta Baskota, VC of TU highlighted the significance of journals and affirmed that an effective means to spread knowledge demands a good research journal and acem has proved to promote transferring of the



A Journey to the Top of the World

Mr. Mingma Nurbu Sherpa successfully made it to the highest peak of the world, Mt. Everest in the morning of 14th of May at 7:27 a.m. Mr. Sherpa represents the 2074 Batch of Computer Engineering Department of Advanced College of Engineering and Management (acem). As a mark of his notable presence, Mr. Sherpa did not just flutter the national flag of Nepal, he also waved a banner with the lively words of 'Advanced College of Engineering and Management' etched strikingly in it. The entire family of acem is proud of him & of his glorious achievement.

Launching acem's New Logo



ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT

With two decades of experience in academic excellence, Advanced College of Engineering and Management (acem) has launched its brand-new logo.

The visually appealing emblem of acem has shades of blue, red, and gold. The variation in colors not just reflects 'unity in diversity' of acem, but also intends to remain consistent with the fundamental colors that have represented acem since the days of its inception.

The logo consists of two distinct parts: graphic and text. Artistically, the center of the logo glints with the initial 'A' of acem in vivid gold; the advancing upward arrow of the triangle symbolizes a rigorous process of progress and excellence. Moreover, the rich blue picturesque curve passing halfway through indicates the letter 'C'; the dynamic connections and communication across the globe.

The mid-way curve and the circle that passes through and beyond in a single frame represents the letter 'E'. And encircling all the pivotal symbolic letters is a round sphere that represents 'acem' in a universal platform. By blending a globe and a triangle, acem's emblem signifies the upgraded academic performance and flourishing technological development of our institution on an international platform. The logo appears simple, limiting its design elements to the bare minimum. This design, primarily highlights to convey acem's core message concisely.

Honorable Ambassadors in acem's Premises



His Excellency Mr. Hanan Goder, honorable ambassador of Israel to Nepal visited acem on May 24, 2022. acem family welcomed His Excellency with honor and delight. During the visit, His Excellency shared dynamic perspectives on enhancing education in Nepal alongside a few pivotal areas.



July 1, 2022, Her Excellency Ms. Kanta Rijal, Honorable Ambassador to Israel from Nepal visited acem alongside Dr. Sunil Babu Shrestha, Vice-Chancellor of Nepal Academy of Science and Technology (NAST), Prof. Dr. Bhim Shrestha, President of Shalom Club Nepal along with reputed members of Shalom Club Nepal itself.

Session on 'Innovation in Education'



September 22, 2022: Advanced College of Engineering and Management (acem) successfully organized a session in collaboration with Dr. Adiv Gal, the co-founder of the Center of Education for Environmental Sustainability, Kibbutzim College, Israel. The workshop was conducted in the premises of the college in the vivid presence of acem faculty and staff. Entitled under the topic "Teaching Methods that combine 'head'-cognition, 'hand' - action and 'heart' emotion", this one hour and thirty minutes session was focused on teaching methods and their applications.

Congratulations Team EWB Nepal

A globally recognized organization Engineers Without Borders (EWB) has already commenced its chapter in Nepal as well. EWB Nepal is an initiative of Advanced College of Engineering and Management, acem. The very first meeting of EWB Nepal, acem chapter, was held at acem on 3rd of April, 2022.



acem congratulates the entire team of EWB Nepal and furthermore wishes best for its future endeavors that are primarily highlighted to closely engage with the local communities across the country. In other words, EWB aims to work with a vigorous group of people of the society with the help of suitable engineering projects. The EWB Nepal team is composed of a wide range of experienced scholars, scientists, entrepreneurs, engineers, professors, technical experts, social activists and yes, the change makers who believe in 'sustainable development and the change it creates henceforth.'

acem Signed MOU with New IT Venture Corporation (NITV)



June 9, 2022, Kathmandu: Advanced College of Engineering and Management (acem) signed a

Introducing our New Principal



We are delighted to welcome Professor Dr. Durga Prasad Sangroula as the Principal of Advanced College of Engineering and Management (acem) with effect from 18th October, 2022. Our heartfelt congratulations and best wishes to Professor Dr. Sangroula.

Dr. Durga Prasad Sangroula served as Professor for about 32 years at the Institute of Engineering (IOE), Tribhuvan University. He received MSc (with honors) in 1989 with Water Resources Engineering from Leningrad Polytechnic Institute of the former USSR. In 1999, he obtained MSc in Hydropower Development and Management from Norwegian University of Science and Technology (NTNU) and later Dr. Sangroula received his Ph.D. from the NTNU itself. His field of specialization is water resources and sedimentation engineering.

During his tenure at the IOE, Pulchowk Campus, Professor Dr. Sangroula served as Deputy Head of the Civil Engineering Department for 4 years and also as a Campus Chief of IOE, Pulchowk campus for 2 years. He has also been involved as a short-term consultant for the reputable organizations like World Bank and Asian Development Bank. Moreover, he has attended several national and international seminars and has presented more than a dozen papers. Professor Dr. Sangroula has also published two text books on Hydraulics and Fluid Mechanics.

We heartily welcome Professor Dr. Durga Prasad Sangroula to the acem family as the Principal!

Memorandum of Understanding, MOU, with New IT Venture Corporation (NITV), an ISO 9001:2015 Certified Leading Software Development, Consulting & System Integrator Company. Er. Lochan Lal Amatya, the then Principal of acem signed the MOU on behalf of acem, while HR Manager Ms. Sarita Acharya signed on behalf of NITV Nepal Limited.

To be precise, NITV aims to achieve the goal of harnessing trendsetting web and mobile technologies. Moreover, NITV has been associated with all the major broadcasting houses of the country and have also extended their services in the international arena.

PEA in collaboration with acem presents

Scope of engineering from the perspective of industry

2-3:30 pm | February 06, 2022

zoom

Moderator

Shreemita Maharjan

Prativa Pandey

Laxman Pokharel

Dileep Agrawal

Asgar Ali

Sojan Prajapati

PEA Association Pvt. Ltd. | ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT

Webinar on ‘Scope of Engineering from the Perspective of Industry’

On 6th of February, 2022, Advanced College of Engineering and Management, acem, in association with PEA organized a virtual panel discussion session on the topic of ‘Scope of Engineering from the Perspective of Industry’. This vigorously dynamic program discussed the major questions like ‘expanding horizon of Engineering, how does industry perceive this advanced science of engineering and how and when engineering meets the industries. Executives, experts and scholars from acem and reputed sectors joined the discussion panel.

A SUCCESS STORY

Advanced College of Engineering and Management (acem) delightedly shares that Mr. Ankit Khanal, a 3rd Year student of Computer Engineering has been appointed as a member of the IAF/IAA/IISL Advisory Committee on History Activities (ACHA), one of the permanent and administrative committees of the International Astronautical Federation. This is an incredible milestone as Mr. Khanal is the first Nepalese to be a member of the Administrative Committee of the IAF. A huge congratulations to Mr. Khanal on this significant achievement.

The committee that Mr. Khanal has been appointed to primarily advise the IAF, IAA and IISL on desirable activities in the field of history of international space cooperation which could be pursued to help preserve and increase awareness of the history of international space cooperation, as well as the history of the three organizations. The Committee identifies potential projects, possible tasks, means of execution (workshops, seminars or study groups) and of publication, scheduling and participants.

The proposal is forwarded to the IAF Bureau, IAA and/or IISL for decision and implementation. The committee assists the IAF, IAA and/or IISL in the realization of any approved study project.

About IAF:

The International Astronautical Federation (IAF) is the world’s leading space advocacy body with 433 members in 72 countries, including all leading space agencies, companies, research institutions, universities, societies, associations, institutes, and museums worldwide.

As organizer of the annual International Astronautical Congress (IAC), the world’s premier global space event, and other thematic events, the IAF actively encourages the development of astronautics for peaceful purposes and supports the dissemination of scientific and technical information related to space.



Student's Article

Brain Gate Technology



Shubham Raj Paudel
Batch: 2077
BEI-IV

INTRODUCTION

Brain Gate technology is a branch of science that describes how computers and the human brain can interact. It is a system of brain implants. The implanted sensor monitors brain activity in the patient and converts the user's intention into computer commands or the subject's desired movement. Brain gate is a brain implanted technology that was first introduced in 2003. Brain Gate was originally developed by researchers in the Department of Neuroscience at Brown University in conjunction with bio-tech company Cyberkinetics. Cyberkinetics later spun off the device manufacturing to Blackrock Microsystems, who now manufactures the sensors and the data acquisition hardware. It is a brain-computer interface (BCI) for people who have lost control of their limbs due to any accidental cause, such as spinal cord injury or Amyotrophic Lateral Sclerosis (ALS). It is an interfacing of the brain with a computer for productive and independent life of paralyzed people, to help them control a computer using their thoughts.

COMPONENTS OF BRAIN GATE TECHNOLOGY

Chip: A four-millimeter square silicon chip studded with about 100 hair-thin microelectrodes is embedded in the primary motor cortex, the brain region responsible for movement control. The chip, about the size of a baby aspirin, contains 100 electrode sensors, each thinner than a human hair. The sensors detect tiny electrical signals generated when a user imagines.

The connector: It is attached firmly to the skull of the patient and it passes the signals received by the chip to the converter. Most handicapped people are satisfied if they can get a rudimentary connection to the outside world. Brain Gate enables them to achieve far more than that. By controlling the computer cursor, patients can access Internet information, TV entertainment, and control lights and appliances with just their thoughts.

Converter: The signal travels to a shoebox-sized amplifier where it is converted to Digital data and bounced by fiber-optic cable to a computer.

Computer: The computer learns to associate patterns of brain activity with specific imagined movements up, down, left, and right, and to link those movements to a cursor.

WORKING OF BRAIN GATE TECHNOLOGY

When a person thinks about moving the computer cursor, electrodes on a silicon chip implanted in the person's brain detect neural activity from an array of neural impulses in the brain's motor cortex. Through connection wires, impulses are transferred from the chip to a pedestal protruding from the scalp.

The pedestal removes unwanted signals or noise before transferring the signal to an amplifier. The signal is captured by the acquisition system and transmitted to a computer via a fiber optic cable. The signal is then translated into an action by the computer, causing the cursor to move.

The brain gate system is a neuro-motor prosthetic device made up of a hundred silicon microelectrodes, each one-millimeter-long and thinner than a human hair. The electrodes in the array are spaced less than half a millimeter apart and are attached to a 13cm ribbon cable that connects it to a computer.

The BrainGate neural interface system is a proprietary, experimental Brain-Computer Interface (BCI) that consists of an internal sensor that detects brain cell activity and external processors that convert these brain signals into a computer-mediated output under the person's control. The sensor is implanted on the surface of the motor cortex, the area of the brain responsible for voluntary movement.

The electrodes penetrate about 1mm into the surface of the brain, where they pick up electrical signals known as neural spiking, the language of the brain, from nearby neurons and transmit them to a titanium pedestal about an inch above the patient's scalp via thin gold wires. The pedestal is linked to computers, signal processors, and monitors via an external cable.

ADVANTAGES

The Brain Gate technology operates with very little and simple training. One of the most amazing aspects of this system is that patients can communicate by thinking of what they want to say, which is then translated through text or a robotic voice and works nearly 100% of the time.

Speech, eye movements, or noise have no effect on the user's ability to operate the device. As a result, it can be used in an interactive setting without requiring the person using the device to speak or have their actions influenced by noise around them.

Paralyzed humans can directly and successfully control external devices, such as a computer cursor using these neural command signals.

The speed, accuracy, and precision are comparable to a non-disabled person there is no training necessary (just the ability to think of an action).

CHALLENGES

It is difficult to synchronize the speed of thinking of a person and cursor/robotic arm movement.

To make the system wireless that will help people be more productive and independent needs work.

Information transfer rate is limited.

CONCLUSION

The 'BrainGate' device can provide paralyzed or motor-impaired patients a mode of communication through the translation of thought into direct computer control. Normal humans may also be able to utilize BrainGate technology to enhance their relationship with the digital world provided they are willing to receive the implant.

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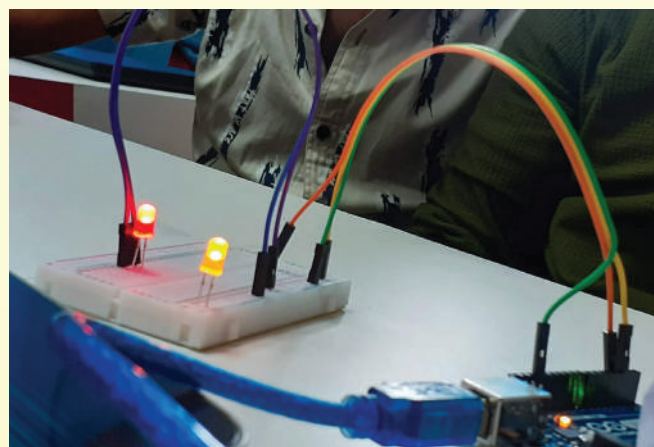
Workshop by Research and Innovation Unit of acem

An in-house research unit of acem RIU, Research and Innovation Unit, primarily focuses on minimizing the gap between industry and academia. With an objective to provide an open platform for engineering students, to leverage their academic skills in order to solve the real challenges of Industry, various workshops and training have been conducted by this unit. Here are some of the pivotal moments captured during the workshops of RIU.

Workshop on '3D Printing' & 'Design Thinking'



Training by 'Department of Electrical Engineering'



A glimpse of a week long Arduino Training conducted by the Department of Electrical Engineering in the month of Ashad, 2079.

Session on "Cognitive Biases in Decision Making"

On 12th October 12, 2022: Advanced College of Engineering and Management (acem) organized a session on 'Cognitive Biases in Decision Making' in collaboration with Dr. Ori Orhof, an Industrial and Management Engineer and a Project Manager from Israel amid a significant presence of His Excellency Mr. Hanan Goder, ambassador of Israel to Nepal, Her Excellency Ms. Kanta Rijal, ambassador of Nepal to Israel. The program also witnessed an enthusiastic participation of prominent personalities alongside acem's faculties and staff.

HE Mr. Honan Goder, ambassador of Israel to Nepal, expressed his gratitude to the acem family for the successful execution of the program and also highlighted that the topic of 'Cognitive Biases' is applicable for an individual to overcome the errors that are caused by faulty decisions. HE Mr. Goder affirmed that informative events of this kind help to enlighten not just the decision makers but also strengthens the bond between Nepal and Israel. Her Excellency, Ms. Kanta Rijal, ambassador of Nepal to Israel, congratulated the organizing team for such a fruitful session. Her Excellency asserted that the core of Dr. Ori's presentation was not just instructive but also highly practical. HE Ms. Rijal also mentioned her last visit to acem and appreciated the initiatives and activities carried

out by the college.

Chairman of acem, Mr. Ramesh Kumar Silwal provided his commendable remarks for Dr. Ori's session and appreciated the valuable time provided by the honorable ambassadors HE Mr. Goder and HE Ms. Rijal. "Dr. Ori's sessions always leave an impact upon us. I hope we will receive an opportunity to attend another enlightening session from him in the near future." Mr. Silwal added.

Dr. Ori Orhof was the key presenter of the session. He largely focused upon the multiple categories of Cognitive Biases, highlighting primarily on various ways where an individual is trapped due to his/her own calculation in decision making. Dr. Ori stated that even the enlightened minds may become the victim of their own cognitive biases. Henceforth, an individual should adopt a gradual process of thoughts that can help balance out their own irrational tendencies.

Er. Lochan Lal Amatya, the then principal of acem, welcomed the speaker, special guests, and acem family with warm regards. He stated this effective topic of Cognitive Bias will undoubtedly help the participants to analyze the situation before taking any faulty decisions as well as to also understand the results of human actions especially in engineering.



'Information Session-Know Germany' in association with Goethe-Zentrum Kathmandu



Advanced College of Engineering and Management (acem) organized a program 'Know Germany' in partnership with the Goethe-Zentrum Kathmandu (GZK) on July 6, 2022 in the premises of acem. The session highlighted the hybrid model of German course to be conducted in acem. The major attraction was Chief Guest of the session, Ms. Laura Lugbauer from the Consular Department of the Embassy of the Federal Republic of Germany in Nepal. Expert team of GZK, Mr. Sebastian Woitsch, Director Mr. Benjamin Matern, Head of Language Department, Mr. Subash Thapaliya, Language teacher, and Ms. Marie Sophie Schild, an official of GZK contributed largely to the program. Ms. Laura Lugbauer, representing the Embassy of the Federal Republic of Germany expressed her gratitude to the acem family and also voiced the support of the embassy towards acem. Ms. Lugbauer informed that Germany will always cooperate with Nepal to enhance its education,

technology amid others. Mr. Sebastian Woitsch, Director of the GZK, shared a short history behind the name Goethe and how it reflects the diverse culture and arts of the nation. "Goethe is a leading language center and is a part of an incredible network of more than 200 institutes of the world," he stated.

Mr. Benjamin Matern in coordination with Mr. Subash Thapaliya and Ms. Marie Sophie Schild helped the audiences to explore Germany, its advanced education, culture, turbulent past, historic places, wonderful festivals, unique civilization and obviously the rich language in a truly artistic manner.

Mr. Kapil Dev Regmi, Executive Director of acem, appreciated the valuable time of Ms. Lugbauer as well as the German scholars during the 'vote of thanks'. In brief words, Mr. Regmi shared his experience of Germany and the importance of German language while at the country.



Connecting acem beyond the border

Mr. Kapil Dev Regmi, Executive Director of Advanced College of Engineering and Management (acem) in a meeting with Professor Dr. Frank-Martin Belz, Director of TUM (Technical University of Munich) SEED Center and also the Chair of Corporate Sustainability. The abbreviation SEED stands for "Sustainable Energies, Entrepreneurship and Development in the Global South". The meeting was focused on collaboration of acem with Technical University of Munich, Germany.

Activities

Advanced Robotics Club Organized 'Technorion Nepal, 2022'

November 12, 2022, Kathmandu: Advanced Robotics Club (ARC), one of the renowned clubs of Advanced College of Engineering and Management (acem) organized a science and technology festival 'Technorion Nepal-2022' chaired by Professor Dr. Durga Prasad Sangroula, Principal of acem; Dr. Sunil Babu Shrestha, Vice Chancellor of Nepal Academy of Science and Technology (NAST) was the 'chief guest' of the program. The program was also graced by the presence of Mr. Ramesh Kumar Silwal, Chairman of acem, Er. Tuk Prasad Poudel, Chairman of Sanima Bank Limited and Executive Chairman of Sanima Hydro and Engineering Private Limited, Prof. Dr. Sushil Bahadur Bajracharya, Assistant Dean of Institute of Engineering (IOE), Tribhuvan University, Ms. Palpasa Tuladhar Kansakar, Deputy Manager of Nepal Telecom in the midst of distinguished personalities and intellectuals from reputed sectors including Mr. Milan Adhikari, President of ARC.



Technorion Nepal was organized as a mark of a decade-long journey completed by Advanced Robotic Club (ARC). To celebrate its glorious 10th anniversary, the day was dedicated to acknowledge the innovative ideas of the young minds from all over the country.



Dr. Sunil Babu Shrestha, Vice Chancellor of NAST, prioritized the importance of AI & Robotics in the digital world of the 21st century. He expressed his gratitude to the ARC and acem team for the program. "I am delighted to witness such a high level program organized by the ARC team. As global trends show the roles of technology

growing ever greater, I am glad to see students upgrading themselves as technology is everywhere, from the front lines in a diverse array of areas, including aeronautics, medicine/welfare, disaster mitigation, disaster

investigation and rescue." He mentioned while sharing his experience of Japan and its technology.

Mr. Ramesh Kumar Silwal, Chairman of acem, welcomed the distinguished guests and expressed his appreciation to the ARC team for organizing the program. Putting the focus on 'Robotics', Mr. Silwal asserted that the digital revolution has already changed how people live, work, and communicate. And it's only just getting started.



Professor Dr. Durga Prasad Sangroula, Principal of acem and the Chairman of the 'Technorion Nepal, 2022' expressed his gratitude to the entire panel of chief guests, special guests, acem team and participants for gracing the program with their valuable presence. He congratulated the ARC team for successfully organizing the program and encouraged them to conduct similar events in the future as well.



Er. Tuk Prasad Poudel, Chairman of Sanima Bank Limited and Executive Chairman of Sanima Hydro and Engineering Private Limited affirmed that informative events of this kind help to enlighten not just the participating students but also the scholars and technical experts. Similarly, Prof. Dr. Sushil Bahadur Bajracharya, Assistant Dean of IOE, Tribhuvan University, provided his commendable remarks for the organizing team and appreciated the uprising journey of engineering students of Nepal.

Ms. Palpasa Tuladhar Kansakar, Deputy Manager of Nepal Telecom, congratulated the organizing team for such a fruitful session. She expressed his concern over low participation of women in technology and hoped that the future would be led by technically sound women.

INTERNATIONAL EXCHANGE PROGRAM

4TH-18TH SEPTEMBER, 2022

International Exchange Program, 2022, officially began from 5th of September in the premises of Advanced College of Engineering and Management (acem) in association with Kibbutzim College of Education, Technology and the Arts, Israel.

acem organized this event in collaboration with Kibbutzim College, Israel. This 2 weeks long program, 4-18 September primarily aimed to empower two selected government, semi-government schools of Kirtipur, Kathmandu namely, Janasewa Secondary School and Panga Secondary School. During the course of the program, selected students of acem and Kibbutzim College also visited various institutions of Kathmandu including a private school and Special School for Disabled and Rehabilitation Center.

Moreover, in this journey of 'learning, unlearning and relearning' Israeli and Nepali students. Henceforth, worked together in the premises and vicinity of these schools, building valuable workforce skills to explore the challenges that exist within and around the schools. On 18th of September, 2022, the closing ceremony of 'International Exchange Program' was organized by the acem team. The program was held at acem amid the enthusiastic participation of special guests, coordinating institutions, faculties, staff, and students. His Excellency Mr. Hanan Goder, Ambassador of Israel to Nepal, graced the program alongside the intellectuals from Israel.

The Honorable Ambassador Mr. Goder congratulated the acem and Kibbutzim team for beginning a new chapter of educational journey between Nepal and Israel. His excellency stated that such a program not just broadens

the horizon of 'innovation in education' but also strengthens the bond between Nepal and Israel.

Dr. Adiv Gal, Professor of Kibbutzim College expressed his gratitude to the acem team for organizing such a productive program. He asserted that such exchanges help to uplift the overall skills of students as well as promote the culture of both nations. Similarly, Ms. Sabita Deshemaru, International Migration Consultant at Center for International Migration and Integration (Jerusalem) & also one of the coordinators affirmed how such programs help to overcome the underlying challenges of the education system.

Mr. Kapil Dev Regmi, Executive Director of acem, welcomed His Excellency Mr. Goder, special guests, Kibbutzim and acem family with warm words. "We are proud to share that we have successfully conducted this exchange program. Likewise, we hope that our students will also receive similar opportunities and experience the education of Israel." Mr. Regmi stated. "Moreover, we really appreciate the precious time of His Excellency today and also supporting us always." He added.

Er. Lochan Lal Amatya, the then Principal of acem, shared his gratification to the Kibbutzim family and to the embassy of Israel to Nepal for their constant support and coordination. He also mentioned that acem is ready to cooperate with such programs even in the future.

During the program, students presented their research and exploration of the two weeks. His Excellency Mr. Hanan Goder honored the students, coordinating team & organizations with 'certificate of participation' and with a 'token of appreciation' respectively.



acem family & the activities



Representing Nepal in Global Arena

Advanced College of Engineering and Management (acem) proudly shares that Mr. Kobid Upadhyay, a 3rd Year student of Department of Computer Engineering, successfully competed in the 'Global Accelerator of Hult Prize Competition' 2022 that was organized by Hult Prize Foundation, Boston, United States. Under the project name 'MeasureMe.AI', Mr. Upadhyay and two other fellow engineering students from Pulchowk Campus, Institute of Engineering, represented Nepal for the very first time in this Global Accelerator Program. This remarkable beginning surely inspires the students who also happen to be entrepreneurs.



According to him, the entire entrepreneurship journey was an effective source of learning, growth and connection. It was never about the end result but was about 'learning in the process'; the joy of being involved & meeting new people, the sense of pride when your ideas can help overcome the existing problems. On top of that, a rising sense of responsibility towards the audience and the team was truly overwhelming. "On the whole, The Hult Prize journey was one of the major checkpoints to the team and the

members as well. The competition provided us with the huge opportunity to gain an abundant amount of knowledge and ideas in a very short period of time. 'Entrepreneurs need empathy as much as the ideas as successful entrepreneurs always emotionally connect to their audience and the team because that's what matters in the end.' Mr. Kobid Upadhyay stated based on one of the crucial lessons learned there.

"I am very thankful to the 'Hult Prize Foundation' for providing us with this opportunity. I am also deeply grateful to acem for the constant support during the event. Furthermore, effort and financial aid provided by the American Society of Nepalese Engineers is highly appreciable as well. This wonderful team also helped to broaden our networking for further innovation and research activities.

The journey was incredible. Hence, our many thanks goes to everyone, also to the ones behind the spotlight. Even a small gesture of help in one way or the other leads us to represent Nepal in an international arena" Mr. Upadhyay asserted.

First Civil Engineer from Chepang Community



Er. Manish Praja, a 23 years old graduate of Advanced College of Engineering and Management (acem) from Dhading becomes the first Civil Engineer from Chepang Community. He has been an exceptional student since the beginning of his educational journey. Goal oriented Er. Praja has been relentlessly working on bringing transformation to the Chepang community. He aims to contribute to the construction of rural infrastructure in Nepal as a successful Civil Engineer.



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