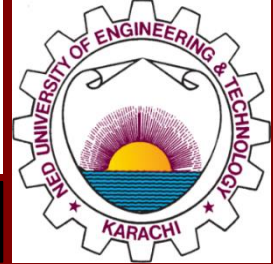




# NED<sub>IAN</sub>

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Stories by the Students, for the Students and You

Issue. 8

## 2nd AI & IOT EXHIBITION AT DEPARTMENT OF MECHANICAL ENGINEERING

MARYAM JUNAID,  
Architecture, Batch 2022

In today's era, characterized by relentless technological progression, forums such as the 2nd AI & IoT Exhibition are crucial for showcasing innovations and exploring the burgeoning potential of dynamic technologies. Hosted by the Mechanical Engineering Department at NED University of Engineering and Technology on January 11, 2024, this exhibition was a collaborative effort between the Intelligent Mechanical Engineering Systems Lab (IMES)

and the ASHRAE NED Student Branch. The event provided a vital platform for mechanical engineering students to exhibit AI and IoT projects crafted to address intricate engineering challenges, fulfilling course requirements in IoT.

The exhibition commenced with an invigorating opening ceremony attended by luminaries from the industry and academia, including Dr. Sarosh Hashmat Lodi, Vice Chancellor of NED University, and Engr. Abbas Sajid, CEO of Engineering Services. Their ceremonial ribbon cutting marked the beginning of what would be a profound exploration of technological applications.

The spotlight was on the students, who took center stage to demonstrate their IoT-based projects with palpable passion and precision. Approximately 45 groups participated, each consisting of two to three members. These projects exemplified the pinnacle of creativity, perseverance, and meticulous execution across four thematic categories:

- An Energy Management System featuring an auto-activated fan and temperature display.
- A Smart Parking Detection System capable of monitoring up

### HIGHLIGHTS OF THIS ISSUE



VISIT OF GEO NEWS



PAKISTAN WATER WEEK



DIALOGUE ON INCLUSIVE ETHICS



CASE STUDY COMPETITION



REVISED ADMISSION POLICY





to five parking spots, complete with an occupancy display.

- An Automatic Water Suction Pump integrated with a flow sensor to autonomously manage water levels in storage tanks.
- An Air Monitoring System that conducts real-time assessments of CO<sub>2</sub>, CO, SO<sub>2</sub>, NH<sub>3</sub> levels, alongside temperature and humidity, complemented by an automatic exhaust fan.

In addition to project demonstrations, the exhibition also hosted a quiz competition targeting enthusiasts of Machine Learning and Artificial Intelligence. This competition was an excellent avenue for participants to apply their theoretical knowledge practically and vie for substantial cash prizes. The competition was fierce, with the top three contestants awarded Rs 3000, Rs 2000, and Rs 1000 respectively.

The closing ceremony celebrated the collective efforts of the students, organizers, and sponsors. Their active engagement and the generous sponsorship from the ASHRAE Pakistan Student Chapter were instrumental in the exhibition's success, underscoring the transformative impact of AI and IoT on contemporary society and future industries.



## VISIT TO GEO NEWS HEADQUARTERS

*SHAHOOD BAIG*

Electronics Engineering, Batch 2022

Venturing into the bustling headquarters of a news channel ushers one into the nerve center of information dissemination. Recently, our members from the Literary and Publications Society at NED University of Engineering and Technology (LPS NEDUET) were granted the privilege of delving into this vibrant world of journalistic activity, and the experience proved to be profoundly enlightening. Upon our arrival, the palpable urgency in the atmosphere was unmistakable. The fusion of strict security measures and courteous reception foreshadowed the intensity and professionalism that lay within. The reception area,

characterized by its dynamic yet professional ambiance, hinted at the perpetual activity buzzing through the newsroom.

The first impression upon entering the newsroom was the seemingly chaotic yet meticulously organized workspace. Journalists were ensconced at their desks, engaged in

fervent typing, while editors meticulously scrutinized scripts and producers adeptly coordinated live broadcasts. The palpable energy in the room was infectious, mirroring the staff's unwavering commitment to delivering timely and accurate news.

During our tour of the Geo News Headquarters, we were fortunate to



be guided by one of the seasoned producers. She expertly navigated us through the various departments, allowing us to interact with the professionals on the front lines. It became clear that maintaining journalistic integrity was paramount in their daily operations. The studio visit was particularly surreal. Anchors, dressed in professional attire, exuded confidence as they seamlessly transitioned between segments. The sophisticated broadcast equipment and the diligent behind-the-scenes crew highlighted the extensive preparation involved in executing a live broadcast.

A notable highlight of our visit was the opportunity to engage with the production team, whose expertise in managing headlines, tickers, and on-screen graphics showcased the intricate blend of journalistic acumen and technological prowess

essential in today's media landscape.

Our exploration provided valuable insights into the myriad challenges journalists face stringent deadlines, the relentless influx of information, and the imperative to deliver impartial news. Witnessing the dedication of these media professionals reaffirmed their pivotal role in shaping public opinion and maintaining the pillars of democracy.

In conclusion, our visit to the Geo News headquarters offered us a deep dive into the heart of news production. The amalgamation of precision, collaboration, and dedication left us with an enriched appreciation for the unsung heroes behind the scenes. This experience reminded us that journalism is not only dynamic and demanding but also an essential craft in the tapestry of society.



## ENHANCING EDUCATIONAL INFRASTRUCTURE AT NED UET: A CALL FOR ACTION

*LAIBA BATOOL*

Materials Engineering, Batch 2022

**N**ED University of Engineering and Technology, a prestigious institution in Pakistan, is celebrated for its educational excellence. This esteemed university is a coveted choice for many aspiring students. Yet, beneath its illustrious reputation, there exist significant challenges that impede students' academic progress and overall experience.

Through comprehensive surveys, students have shared concerns regarding inadequate facilities and resources. One of the critical issues is the lack of sufficient equipment and skilled instructors in the laboratories. This shortfall severely limits students' ability to engage effectively in

practical learning, which is essential for their academic success.

Moreover, a notable concern is the scarcity of female washrooms in the Department of Mechanical Engineering, among others. This deficiency not only causes considerable inconvenience but also poses challenges in emergency situations, thereby affecting the well-being and academic focus of female students. Additionally, the inconsistent internet connectivity, particularly in the Department of Food Engineering's laboratories, restricts access to vital online resources. This connectivity issue hampers research and learning,



hindering students from reaching their full academic potential.

The university also faces a shortage of staff for elective courses, which restricts students' academic flexibility and opportunity to explore diverse fields. In today's competitive environment, practical skills and



exposure to professional settings are crucial. However, the absence of organized industrial visits and career guidance at the university leaves students underprepared for the demands of the job market. Furthermore, the lack of support in preparing for interviews and securing career opportunities exacerbates the challenges faced by graduates.

To uphold its reputation and truly support its student body, it is imperative for NED University of Engineering and Technology to address these issues promptly. Enhancements in infrastructure, resources, and support services are essential to ensure that students not only receive a quality education but are also well-equipped to thrive in

their future careers. The university's commitment to resolving these barriers will significantly contribute to the holistic development of its students, preparing them effectively for the challenges of the professional world.

## INTRICACIES OF ETHICS IN PROFESSIONAL SPHERE

AYESHA AZHAR

English Linguistics and Allied Studies, Batch 2022

On December 29, the Department of Economics and Management Sciences organized a seminal seminar, "Ethics in Action," bringing together distinguished industry professionals to elucidate the multifaceted nature of ethical behavior within the corporate landscape. The event featured illustrious speakers, Mr. Mubin Jaliawala, Head of Sales and Marketing at Agha Steel Industries, and Ms. Mehwish Ijaz, Senior HR Manager at Indus Hospital, who provided profound insights into the critical realm of corporate ethics. The discourse primarily focused on the imperative of Corporate Social Responsibility (CSR) and delineated an organizational blueprint for ethical conduct that commences at the governance level and permeates through to stakeholder engagement

practices. Central to the discussions was the concept of environmental stewardship, a testament to what organizations can reciprocate to society.

Highlighting a holistic evaluation of company performance, the seminar explored dimensions extending from service and product quality to employee welfare and community impact. The speakers underscored the importance of aligning employee initiatives with CSR activities, positing this alignment as fundamental to cultivating an ethical organizational culture.

The benefits of fostering such a culture were extensively discussed, emphasizing the enhancement of trust, effective risk management, and the promotion of sustainability which collectively spearhead long-term corporate success.

Moreover, the seminar shed light on specific manufacturing processes within the steel industry, contrasting blast, induction, and arc furnaces. It was noted that due to health

concerns, induction furnaces are deemed less favorable, whereas regulatory mandates in countries like China necessitate the use of blast or arc furnaces to mitigate health and environmental risks.

Exemplary corporate behaviors were showcased, with Agha Steel's commitment to sustainability through the use of electric arc furnaces being particularly lauded. The company's efforts extend beyond environmental concerns, embracing social responsibility through initiatives like the construction of dialysis clinics offering free treatments and the signing of Memorandums of Understanding (MoUs) to bolster community health.

This enriching seminar not only heightened awareness of the intricate interplay between ethics and professional practices but also reinforced the pivotal role that CSR, ethical principles, and sustainable methodologies play in fostering organizational efficacy and contributing to societal welfare.

## SEMINAR ON ADVANCED FINANCIAL ANALYSIS

ALI MURTAZA

Urban and Infrastructure Engineering, Batch 2022

The Department of Economics and Management Science at NED University recently hosted an enlightening seminar entitled

"Financial Analysis on Microsoft Excel." This seminar illuminated key methodologies in economic evaluation and the application of Microsoft Excel in financial analysis. Dr. Muhammad Sajjad Ashraf, a distinguished statistician from ABIC SYSTEM, was the guest speaker, imparting his expertise on the

strategic utilization of Microsoft Excel to conduct intricate financial analyses.

The session focused prominently on the projection of income statements, a fundamental element of financial planning and forecasting for enterprises. Dr. Ashraf shared various techniques for projecting

revenues, expenses, and net income, emphasizing the integration of historical data trends, comprehensive market analysis, and advanced predictive modeling techniques.

A significant portion of the seminar was dedicated to vertical analysis, or common-size analysis, which involves a systematic examination of financial statements to ascertain the relative significance of each line item against a base figure, such as total revenue or total assets. This analysis aids in the detailed assessment of a company's financial health and operational performance. Dr. Ashraf guided the attendees on performing vertical analysis using Excel, enhancing their ability to scrutinize and interpret financial data effectively.

Furthermore, the seminar covered horizontal analysis, or trend analysis, which examines financial data across consecutive periods to identify patterns, trends, and performance fluctuations over time. Dr. Ashraf highlighted the importance of this analysis in pinpointing growth trajectories, seasonal variations, and potential areas of concern, while



demonstrating how Excel's robust analytical tools can be employed to simplify data interpretation and visualization.

In the domain of ratio analysis, participants were taught how to compute and interpret essential financial ratios—like liquidity ratios, profitability ratios, and leverage ratios—utilizing Excel's functions. Dr. Ashraf also showcased how to craft informative charts, graphs, and dashboards in Excel, which serve to visually represent key performance indicators (KPIs) such as sales growth, profit margins, and operational efficiency.

The seminar culminated in an engaging practical exercise, wherein attendees applied their newly acquired skills to conduct horizontal and vertical analyses on various Pakistani companies. This interactive session not only reinforced the theoretical concepts discussed but also added a practical dimension to the learning experience, making it both educational and enjoyable.

Dr. Muhammad Sajjad Ashraf's expertise and dynamic presentation style significantly enhanced the learning environment, making the seminar a valuable and stimulating experience for all participants.

## ENHANCING PAKISTAN'S WATER SUSTAINABILITY: A STUDENT'S JOURNEY TO INNOVATION

*MUHAMMAD MISHBAH UL HUSSAIN*  
Civil Engineering, Batch 2020

On December 6th, Muhammad Misbah ul Hussain, a distinguished final-year student from the Department of Civil Engineering at NED University of Engineering and Technology (NEDUET), represented his institution at the prestigious Pakistan Water Week 2023. The

conference, hosted in Islamabad's Serena Hotel, convened leading national and international authorities dedicated to fostering sustainable and climate-resilient solutions in water management. Misbah presented his capstone project, "IoT-based Sensors for Real-time Water Quality Monitoring," which he developed under the mentorship of Associate Professor Dr. Abdul Ghaffar Memon. His presentation garnered extensive

acclaim from experts, highlighting the project's innovative approach and its potential impact on water management practices in Pakistan. The accolades culminated in offers of technical support and collaboration, underscoring the project's significance and applicability.

A key benefit of his participation was the invaluable networking opportunity with both national and international experts in climate and

sustainability fields. Insights on integrating Geographic Information Systems (GIS) and accessing satellite data were particularly beneficial, enhancing the project's scope and utility. Furthermore, the event facilitated engagement with diverse stakeholders from various Pakistani regions, including Gilgit-Baltistan, Peshawar, and Quetta. This interaction fostered a rich exchange of ideas and perspectives, significantly enriching the academic and cultural dimensions of Misbah's experience.

In a reflective discussion with the NEDian Newspaper team, Misbah expressed profound gratitude towards his academic mentors, including Vice-Chancellor Dr. Sarosh Hashmat Lodi and the Chairman of the Civil Engineering Department, Prof. Dr. Abdul Jabbar Sangi. He credited their relentless



support and guidance as pivotal to his project's success and his personal development. Events like Pakistan Water Week are instrumental in cultivating the potential of young innovators. They provide a platform not only for enhancing academic knowledge and technical skills but also for inspiring

the exploration of innovative solutions to pressing environmental challenges. Such experiences are crucial in preparing the next generation of engineers and environmentalists to effectively represent their institutions and contribute to global sustainability dialogues.

## ENHANCING URBAN ENVIRONMENTS: A SEMINAR ON SUSTAINABLE DEVELOPMENT

*FAHD AHMED FARID*

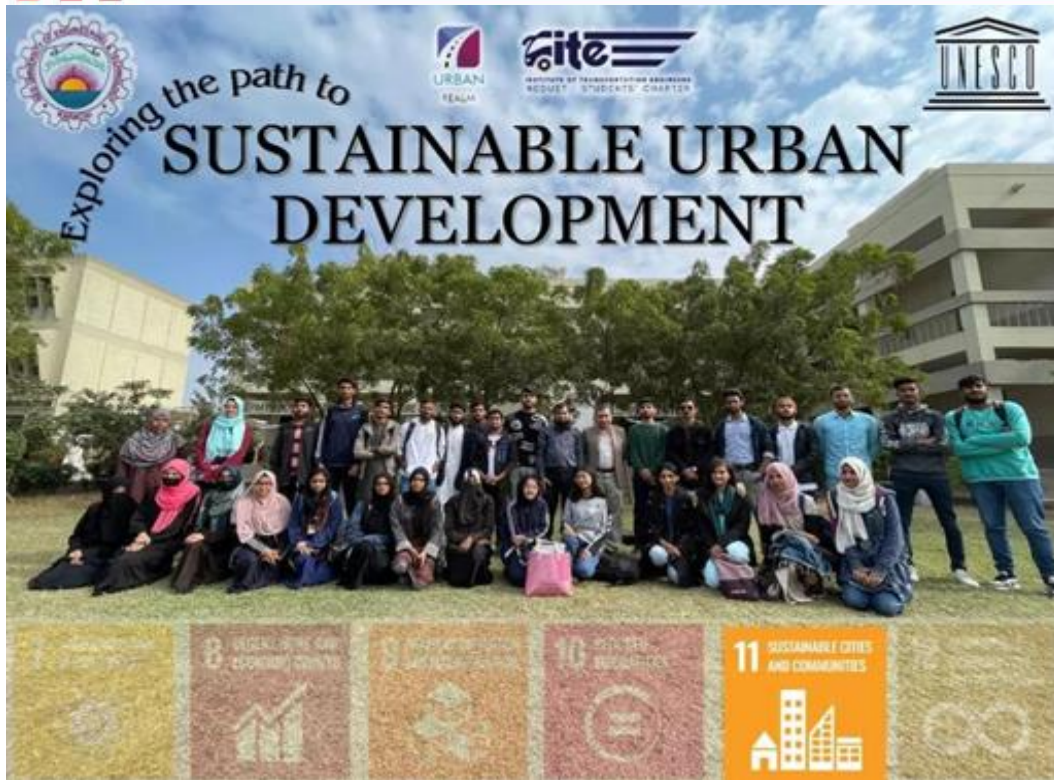
Urban & Infrastructure Engineering,  
Batch 2022

In an invigorating assembly brimming with enthusiasm and resolve, the Institute of Transportation Engineers (ITE) at NED University recently hosted a seminal seminar dedicated to United Nations Sustainable Development Goal (SDG) 11: Sustainable Cities and Communities. The event, entitled "Exploring the Path to Sustainable Urban Development," was charged with a dynamic spirit as participants engaged deeply with the critical need for transformative urban infrastructure.

Presided over by Dr. Muhammad Ahmed, an esteemed Assistant Professor in the Department of Urban and Infrastructure Engineering, the Civil AV Hall became a platform of scholarly discussion on January 5th, 2024. The session opened with a solemn recitation from the Holy Quran, anchoring the gathering in the ethical foundations of sustainable development. Dr. Ahmed delivered a compelling introductory address that highlighted the urgent imperatives of SDG 11 and its profound impact on societal advancement. The significance of the SDGs was further brought to life through two compelling video presentations, sparking a renewed determination among the audience. The discourse

then transitioned to a detailed examination by Umar Farid and Fahd Farid, two articulate students from the department, who expertly delineated the critical role of sustainable infrastructure in Pakistan's contemporary context, discussing its extensive benefits and fundamental importance. The apex of the seminar was marked by the address of Prof. Dr. Noman Ahmed, UNESCO Chair holder and Dean of the Faculty of Architecture & Sciences at NEDUET. Dr. Noman eloquently interwove personal stories with academic insights, emphasizing the transformative potential of sustainable urban development. His discourse served as a catalyst, inspiring attendees to champion change within their communities.





As the event neared its conclusion, Dr. Adnan Qadir, Chairman of the Department of UIE, infused the final remarks with a mix of wit and seriousness. He stressed the vital role of academic research in fostering sustainable change and highlighted the essential practice of recycling as a key component of responsible urban development. The seminar concluded on a powerful note of collective resolve. Participants left the venue imbued with ideas and inspired to act, reflecting the event's success in sowing the seeds of sustainable progress. This seminal gathering not only underscored the importance of SDG 11 but also demonstrated the vibrant commitment within the NED community to echoing its principles across the nation.

## UNITY IN DIVERSITY: A DIALOGUE ON INCLUSIVE ETHICS

ABIA ALI,  
Economics & Finance, Batch-2022

The Department of Economics & Management Sciences recently organized a seminar entitled "Unity in Diversity: A Dialogue on Inclusive Ethics," designed to enhance inclusivity and fortify ethical practices within workplace environments. The event was held on 04 January 2024 at AV Hall, Department of Civil Engineering. This forum provided a meeting point for experts and professionals to engage in profound deliberations concerning the imperative of equitable treatment and ethical behavior in human resources (HR) management.

The seminar featured a panel of eminent speakers, including Mr. Sahil Bughio, Ms. Anum Firdos, Dr. Faiz Rasool, and Mehwish Ejaz, Senior Manager of HR. These distinguished panelists led dynamic

discussions and offered penetrating insights into the integration of inclusivity for individuals of diverse abilities. They also highlighted the critical importance of maintaining ethical standards in HR management.

The discourse meticulously examined the foundational

principles of ethical conduct within HR, emphasizing accountability, confidentiality, integrity, and transparency as cornerstones for cultivating an atmosphere of fairness and respect in the workplace. Throughout the seminar, attendees actively participated, exchanging their experiences and





viewpoints on upholding ethical norms within HR practices. The role of HR as the custodian of ethical standards was highlighted, with panelists advocating for the formulation of ethical guidelines, the provision of comprehensive training and development, and the advisory capacity of HR to ensure equitable treatment for all employees. Strategies such as the judicious disclosure of sensitive information and the assurance of

equal opportunities were underscored as vital practices. In summary, the "Unity in Diversity: A Dialogue on Inclusive Ethics" seminar rendered invaluable insights into the crucial roles of ethical conduct and inclusivity in HR management. Through vigorous discussions and illustrative examples, participants acquired a nuanced understanding of how HR can promote fairness, respect, and transparency in the workplace.

This seminar acts as a touching reminder of the critical importance of unity in diversity and the essential need for inclusive ethics to foster a positive and equitable work environment for all employees. By adhering to these principles, organizations are better positioned to nurture a culture that not only celebrates diversity but also upholds the highest standards of ethical conduct in HR management.

## URBAN REALM SOCIETY IGNITES ENTHUSIASM WITH SPORTS WEEK SPECTACLE

*FAHD AHMED FARID*

Urban & Infrastructure Engineering,  
Batch 2022

In an exhibition of vitality and athletic expertise, NED University's Urban Realm Society recently illuminated the campus with the third installment of the Urban Realm Sports Week. Conducted from January 1st to January 5th, 2024, this event followed closely on the heels of their prestigious victory at the NSA Olympiad 3.0, where the

society secured the esteemed gold trophy.

Motivated by their recent successes, the Urban Realm Society inaugurated the New Year with an invigorating series of sports events, tailored specifically for the students of the Department of Urban & Infrastructure Engineering. Generously underwritten by Habib Estate & Builders, along with Safia Properties, the week-long event curated an impressive list of competitions. These contests were designed not only to stoke the

flames of competitive zeal but also to foster friendship among the participants. The sports ranged from cricket and futsal to throw ball and badminton, ensuring a broad appeal.

A particularly notable highlight was the stellar performance of Nida Abid, a sophomore, whose ability in the women's badminton tournament captivated the audience. Her exceptional skill and strategic discretion led her team to a resounding victory in the face of robust competition. In men's futsal, a thrilling clash culminated in a victory for the juniors against the sophomores through a tense penalty shootout, demonstrating remarkable resilience and team coordination.

The award of "Batch of the Year" was deservedly awarded to the sophomore group, who distinguished themselves by clinching five victories across various disciplines. Their persistent spirit and collective effort were palpable, earning them widespread acclaim.

Enhancing the event's lively atmosphere was Fahd Farid's engaging commentary, which instilled the proceedings with humor and liveliness. His dynamic





narrations kept the spectators entertained, heightening the excitement of the competitions. Complementing the visual spectacle, Imad Wasim's adept videography captured the essence of the event, preserving these moments for posterity with a keen attention to detail.

The grand finale of the Sports Week was a ceremonious event held in the esteemed Civil AV Hall. This closing ceremony saw the distribution of medals, trophies, and certificates in an environment brimming with anticipation and enthusiasm. Distinguished guests including Prof. Dr. Adnan Qadir, Dr. Muhammad

Ahmed, and Ms. Aqsa Zahid lent gravitas to the festivities, which were expertly hosted by Fahd Farid and his co-host Wajahat Rahat.

Their sparkling presentation ensured that the conclusion of the Sports Week was as spirited as its commencement.



## CELEBRATING EXCELLENCE AT THE ACTU-MINDS: CASE STUDY COMPETITION

*AMMAR SHEIKH*

Computational Finance, Batch 2021

In a splendid display of intellectual competence and analytical skills, BADRI Management Consultancy, in collaboration with the Society of Actuaries of Pakistan, recently hosted the esteemed "Actu-Minds: Case Study Competition." This event was arranged to challenge the analytical and problem-solving capabilities of students within the realm of actuarial sciences and the burgeoning insurance industry in Pakistan.

The competition delved into significant contemporary issues, including the integration of wearable technology in health insurance and the application of telematics in vehicle insurance, drawing participation from the academic crème de la crème of Pakistan's leading universities. An impressive ensemble of 52 teams from these

institutions engaged in a rigorous examination of the presented case studies, demonstrating their innovative approaches and strategic thinking.

The competition was structured in two rigorous phases: an initial round where teams developed presentations on their designated case studies, followed by a critical evaluation that whittled the

competition down to eight outstanding teams. Notably, half of the shortlisted teams were from NED University's Computational Finance Department, with the other contenders representing prestigious institutions such as IBA, Karachi University, IoBM, and SZABIST.

The culmination of this event saw the selected teams presenting their solutions before a distinguished panel of judges at the BADRI office.





The panel, comprised of luminaries such as Mr. Muhammad Ali Ahmed, CEO of EFU Life Assurance, and Mr. Zain Ibrahim, Regional Director of the Society of Actuaries, among others, assessed the presentations. The competition was fierce, with each team presenting insightful solutions that captivated the audience and judges alike.

The laurels of victory were awarded to "Team Risk Rovers" from NED

University, who secured the first position with their exceptional analysis and were awarded a cash prize of Rs. 100,000. Following them, "Strategy Stewards," also from NED University, claimed the second position with a prize of Rs. 50,000, and "Team Aim Swifters" took the third spot, receiving Rs. 25,000 for their comprehensive evaluation.

The competition not only highlighted the analytical acumen and creativity

of the participants but also served as a pivotal platform for fostering innovation and promoting critical thinking among future actuaries. The success of the Actu-Minds: Case Study Competition underscores the importance of such academic endeavors in nurturing the professional development of students and preparing them to meet the challenges of the global insurance and actuarial markets.

The event's triumph is a testament to the quality of education at NED University's Computational Finance Department and the formidable potential of its students to redefine industry standards through innovation and rigorous scholarship. Such initiatives are invaluable in cultivating a well-prepared workforce poised to lead the future of actuarial sciences and insurance industry in Pakistan.



## REVISED ADMISSION CRITERIA AT NED UNIVERSITY

ZAFARULLAH HAKRO

Civil Engineering, Batch 2021

The Board of Intermediate Education Karachi (BIEK) administered the 2024 Intermediate Examinations, which revealed a troubling trend as no group surpassed a 50% pass rate. This outcome has significantly impacted student performance, causing a spike in educational concerns due to the high incidence of failures.

In a strategic response to these developments, NED University of Engineering and Technology has undertaken a pivotal revision of its admissions policies. Originally requiring a minimum of 60% in HSC-I for eligibility, the university has now lowered this threshold to 55% for candidates wishing to sit for the admission test. This adjustment

is particularly relevant in light of the recent bachelor degree program announcements for 2024, which included two critical amendments: For Bachelor of Science (BS) programs, excluding Computer Science (BSCS), the university now

stipulates a minimum of 50% in Intermediate examinations. Applicants must have also achieved at least 50% in their Higher Secondary School Certificate-I (HSC-I) examinations to be considered. These modifications have been met with considerable relief and





endorsement from the educational community. However, misconceptions about the changes are prevalent. It is crucial to clarify that the new admission policy allowing candidates with lower percentages applies solely to those applying based on their HSC-I results, not their cumulative Intermediate results. It is important to note that NED's engineering programs are governed by strict Pakistan Engineering Council (PEC) regulations, which mandate a

minimum of 60% in Intermediate for admission into engineering disciplines. NED University strictly adheres to this criterion, ensuring compliance without compromising on standards. Candidates applying with only HSC-I results may be admitted conditionally, provided they later demonstrate achieving the overall 60% required by the PEC. While the entry threshold for BS programs has been relaxed to accommodate a broader range of

applicants, the admissions standards for Bachelor of Engineering (BE) programs remain firm. This policy revision aims to mitigate the potential decrease in undergraduate admissions for the year 2024, addressing the diminishing applicant pool while maintaining academic integrity and regulatory compliance. Prospective students are encouraged to understand these distinctions fully to navigate the admissions process effectively.

## BALANCING ACADEMIA, SPIRITUALITY, & SOCIAL RESPONSIBILITY

*ALI MURTAZA*

Urban & Infrastructure Engineering,  
Batch 2022

During the sacred month of Ramadan, NED University students are afforded a unique opportunity to enrich both their spiritual and mental well-being. The university recognizes this period by adjusting academic schedules, thereby allowing students to participate in and focus on religious observances. In this time of reflection and community, many students have dedicated themselves to initiatives that address socio-economic challenges within the community,

concurrently advancing their personal growth.

A prime example of such initiatives is the student-led Iftar Drive. This project sees students collaborating across departments and with faculty to provide nutritious meals to the economically disadvantaged, a vivid illustration of social solidarity. The endeavor extends beyond individual contributions; it is a synergistic effort involving multiple university departments and external charitable organizations.

Notably, the TE-Links Ramadan Drive, organized by the Telecommunication Department on March 14, 2024, has been particularly commended for its professionalism, efficiency, and overall effectiveness. This initiative facilitated the collection of donations through both cash and online transactions, enabling broader

community participation in supporting the underprivileged. This collective action not only meets immediate nutritional needs but also fosters a spirit of generosity and mutual support during the holy month.

These commendable efforts highlight the students' capacity to integrate their academic responsibilities with their religious and humanitarian commitments during the Ramadan break. Such activities not only embody the Islamic values of compassion and service but also promote community development and engagement. Through these endeavors, NED University students demonstrate a profound commitment to societal betterment, aligned with the core tenets of Islam, enhancing both their communal bonds and individual ethical development.

## ENHANCING THE ENGINEERING PROFESSION THROUGH SPEAK OUT FOR ENGINEERING (SOFE)

*MAHA WASEEM,*

Economics & Management Sciences,  
Batch 2022

The Institution of Mechanical Engineers' flagship initiative, Speak Out for Engineering (SOFE),

has recently culminated in a noteworthy event, marking a significant milestone in advocating for the integration of eloquence and technical expertise among engineering students. SOFE 2024 has successfully upheld its mission to cultivate engineers who are not

only adept in their technical fields but are also persuasive communicators, poised to influence and innovate within and beyond their professional boundaries.

This year's event saw the participation of approximately 20 contestants, each showcasing their

distinctive viewpoints and breakthrough ideas, articulated through superior presentation abilities. The competition employs a structured, multi-tiered format that starts at the regional or university level, advances to a national contest, and culminates on an international stage. This systematic progression fosters a spirit of competition and provides a supportive environment for participants to hone their communication skills, thus augmenting their professional allure.

Victorious participants from the regional rounds proceed to the national competition, where the intensity and stakes escalate significantly. Triumph at the national level grants entry into the international arena, where competitors compete for global recognition and a monetary reward of 300 euros. This progression

summarizes the essence of SOFE as a journey of personal and professional development, leading to worldwide acknowledgment.

SOFE 2024 epitomizes the Institution of Mechanical Engineers' commitment to bridging the gap between technical proficiency and communicative prowess. By nurturing an atmosphere where engineers can excel as adept communicators, IMECHE plays a pivotal role in shaping future leaders equipped to tackle global challenges with innovative solutions and persuasive advocacy. As we laud the accomplishments of this year's participants, we eagerly anticipate the continued enhancement of engineering professionals through initiatives like SOFE, which highlight the indispensable role of public speaking skills in the engineering domain.



## EMPOWERING FUTURE ENGINEERS: A GLIMPSE INTO STEEL PRODUCTION

*TAIMOOR RIAZ,*  
Civil Engineering, Batch 2020

The ACI NEDUET Student Chapter recently arranged a pivotal industry visit, an initiative designed to broaden the practical knowledge horizons for students from the Department of Civil, Construction, and Urban & Infrastructure Engineering. This educational expedition transported 70 committed students, accompanied by three distinguished faculty members, to the heart of steel production at Platinum Steel Mills in Port Qasim, Karachi. The journey began from the NED University's shuttle point area at 9 am, with the group embarking

promptly at 9:30 am. Despite a 50-minute bus ride, the atmosphere was charged with anticipation, and the journey was enriched with engaging games and lively interactions. By 11 am, the group arrived at the facility, eager to delve into the complexities of steel manufacturing. Upon arrival, the students were organized into three groups to optimize the learning experience. The tour began at the scrap yard, where students were introduced to the processes of scrap metal collection and categorization. Although the furnace was inactive for safety reasons, the management provided an exhaustive explanation of the furnace operations, enhancing

the students' understanding of steel production dynamics.

The visit proceeded to the Quality Control (QC) laboratory, where students observed the use of spectrophotometers among other devices. These instruments are crucial for analyzing the mineral composition of molten scrap, with additives like carbon and copper tailored to specific steel types and applications. The QC team demonstrated their critical role in coordinating with furnace operators to ensure the molten metal met precise specifications before it was transitioned to the next production phase.

The tour's highlight was the Continuous Casting Machine (CCM) department, which boasted an extensive setup of rollers used to shape the 500 mm diameter billets



into the desired diameter reinforcement bars. The rebar then underwent further detailing, including the embossing of the company's logo and specific deformations to enhance the bond with concrete.

The visit culminated with a comprehensive testing phase where the rebars were subjected to tensile strength evaluations using the Universal Testing Machine, confirming their compliance with the requisite steel grades.

Post-tour, the ACI NEDUET team hosted a lunch, providing an opportunity for students to digest both the meal and the wealth of information they had acquired. The journey back to campus was reflective, with students contemplating the practical application of their academic studies.

This industry visit not only served as an educational tool but also as a significant motivational catalyst, illustrating the potential

achievements within the field of engineering. It bridged the gap between theoretical knowledge and practical application, providing students with invaluable industry insights. The Department of Civil Engineering, along with the ACI NEDUET team, extend their gratitude to Platinum Steel Mills for their warm hospitality and to all who facilitated this enriching academic endeavor.



## EDITORIAL

In this age of social media inundation, where every piece of news is at our fingertips, crucial issues often slip under the radar. That's where the NED Newspaper proves invaluable to the NED community. It serves as a platform to celebrate outstanding performances and achievements within the community while also shedding light on the challenges faced by students, bringing them to the attention of higher authorities. Moreover, this media serves as a powerful motivational tool for students, inspiring them to surpass their previous accomplishments. It also acts as a conduit for

communicating the concerns of students to the relevant authorities. For instance, articles like "Issues Being Faced by NED Students" spotlight the obstacles encountered by students and advocate for solutions.

The excellence of students is showcased not only through their academic achievements but also through their involvement in community service initiatives. These efforts inspire others to contribute to humanity in meaningful ways.

The NED Newspaper is meticulously curated by teams of graphic designers, writers, and reporters. Their dedication reflects their goal of captivating readers, inspiring higher standards, and leading the university to new heights.

In conclusion, the mission of the NED Newspaper is to foster a more engaged and informed student body with each edition, encouraging the community to strive for greater prosperity in collaboration with the newspaper team.

## DISCLAIMER

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## ACKNOWLEDGEMENTS

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