



UP Engineering Research and
Development Foundation, Inc.



GEARING UP FOR GREATER IMPACT

2024 ANNUAL REPORT



UP Engineering Research and Development Foundation, Inc.

Our Purpose

TO ENGINEER A BETTER PHILIPPINES

VISION, MISSION AND STRATEGIC OBJECTIVES

(2022 - 2027)

Vision

UPERDFI will be an enabler of engineering leadership and solutions for Philippine society with UPCOE as premier resource.

Mission

Act as a staunch partner in ensuring the continuous availability of engineering resources to address society's needs for inclusive development

Strategic Objectives

- 1 Nurture COE in delivering top-notch engineering resources to society
- 2 Orchestrate projects with societal impact
- 3 Fully tap the network of members, alumni and partners in support of our initiatives

GEARING UP
FOR GREATER
IMPACT
2024 ANNUAL REPORT

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 Francis Gary Viray
 Francisco L. Viray
 Lilian W. T. Yao
 Cesar E. Yñiguez
 Apolonio P. Yson
 Agnes Zarate

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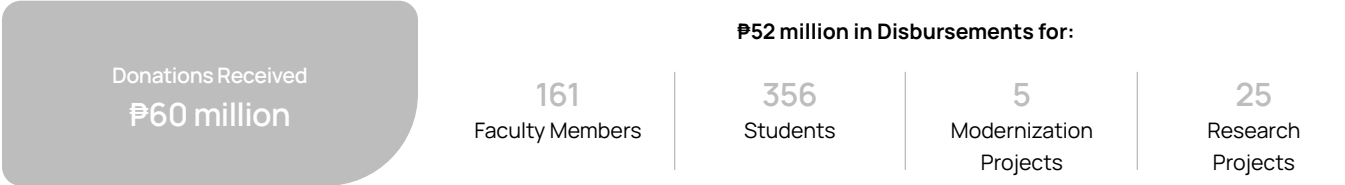
Leopoldo V. Abis
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2024 UPERDFI ANNUAL REPORT TO STAKEHOLDERS

Warm greetings to our esteemed partners, donors, collaborators, and friends of the UP Engineering Research and Development Foundation, Inc. (UPERDFI). As we gather to reflect on the past year, we express our heartfelt gratitude for your unwavering support. Together, we continue to serve the UP College of Engineering (UPCOE) and the broader Filipino community, advancing innovation and excellence in engineering education.

On behalf of the UPERDFI Board of Trustees and Officers, we are proud to present the highlights of our 2024 Annual Report. This year, we successfully raised ₱60 million in donations and disbursed ₱52 million in line with our strategic plans. These funds directly benefited 161 faculty members, 356 students, supported 5 modernization projects, and enabled 25 research and development initiatives. Each of these numbers represents more than just a target met - they symbolize lives touched, innovations sparked, and futures shaped.

We extend our deepest gratitude to all our donors whose belief in our mission has made these accomplishments possible. Notably, many of our endowed professorial chair awards trace their roots to donations made as far back as 1972. These enduring contributions continue to incentivize research excellence and academic leadership to this day.



Faculty Development

UPERDFI incentivizes faculty members to further their excellence in teaching and research by providing professorial chair awards, and teaching and research awards. In AY 2024-2025, UPERDFI awarded 138 Professorial Chair Awards (Annex 2) and 23 Teaching and Research Awards (Annex 3).

The research work of professorial chair holders for the academic year of 2024-2025 was showcased in the Professorial Chair Colloquium held in November 2024. This annual colloquium not only continues to highlight UPCOE's premiere position in combining world-leading technology and the passion to solve today's problems; it also allows opportunities to explore new opportunities for R&D and knowledge sharing and emboldens participants to seize the opportunity and act when the moment demands it.

Student Support

By engaging donors, UPERDFI helps deserving engineering students in pursuing academic excellence amid financial challenges. The College and the donors select scholars based on academic performance and financial need.

For AY 2023-2024, UPERDFI provided 152 Scholarships and Study Grants (Annex 4), 139 Thesis Support Grants (Annex 5), 11 Student Awards (Annex 6) and awarded 10 winners of the Undergraduate Project Competition - Dr. Francis Chua Innovation Awards (Annex 7).

Through this student support, the Foundation continues to fill the pipeline of future engineers in the Philippines. We thank our donors who give generously to make this possible for every talented person, regardless of their family's financial situation.

Instructional and Research Infrastructure

UPERDFI's infrastructure program aims to equip the faculty and students with quality tools and a conducive environment for research and instruction. We also supported the initiatives of alumni organizations and academic units in the College to modernize the facilities. In 2023, we completed eight infrastructure projects and continued with two ongoing projects. These are detailed in Annex 8.

Research and Development

Our Foundation continues to support research and development in engineering through funding and partnerships with the academe and industry. In addition to monetary gifts, our donors have also provided expert input and guidance through discussions and collaborations with UPCOE, in support of tech start-ups and the financial sustainability of laboratories. The Innovation Committee reports on the R&D projects on pages 11-12 and the list of R&D Projects and Grants in 2024 are in Annex 9.

Organization

UPERDFI has six board committees - Audit, Finance, Governance, Innovation, Membership, and Resource Generation. Each committee is headed by a Trustee and formed by UPERDFI members from its 312-strong roster.

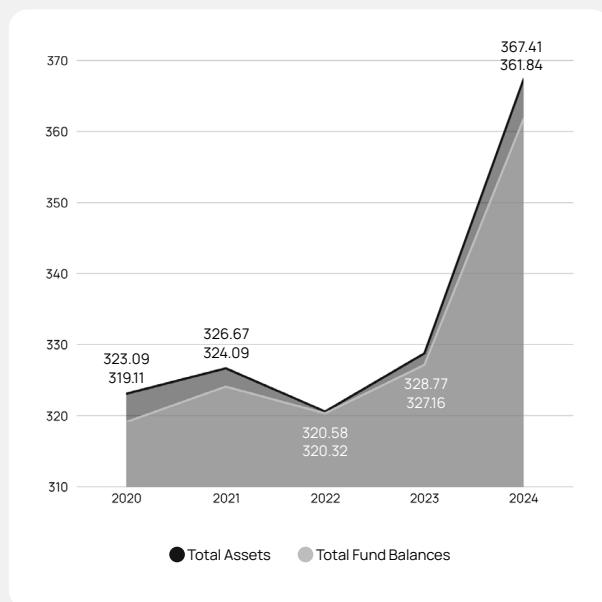
Our operations are supported by a backroom led by the Executive Director, and regular staff members comprising the Deputy Executive Director, an Accountant and an Accounting Assistant and a contracted Finance and Investments Officer. This team works on all the needs of the Foundation, as regards interfacing with donors and benefactors, with beneficiaries, with the University of the Philippines System, UP Diliman, the UP College of Engineering and the UP National Engineering Center, and with government agencies like the Department of Science and Technology, and with banks and other institutions like the Philippine Council for NGO Certification.

Financial Performance

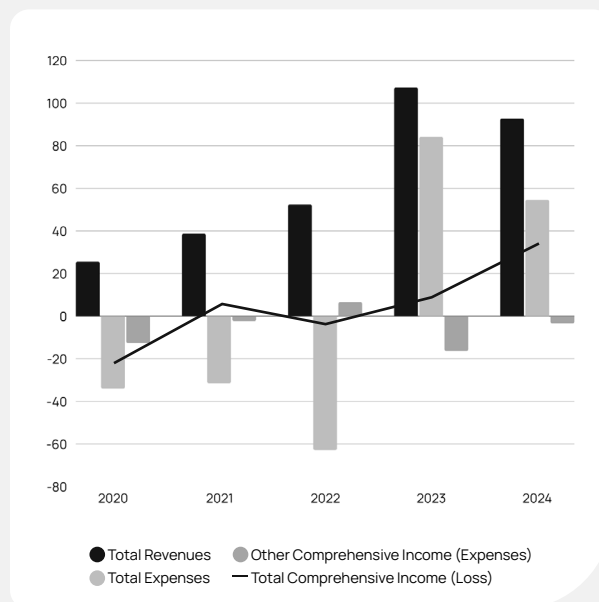
In response to lower interest rates in recent years, UPERDFI made a strategic shift from focusing on endowed funds to emphasizing annual donations. This approach has kept our asset base relatively flat at ₱300 million. However, with renewed momentum in 2024—bolstered by our partnership with AB Capital Investment Corporation and favorable market conditions—we were able to grow our funds. This growth ensures that UPERDFI can continue to provide sustained support for UPCOE in the years to come.

In total, we received ₱60.54 million in donations, a slight decrease from the ₱85.93 million raised in 2023. Despite this, we maintained robust program support, disbursing ₱52.67 million to advance our initiatives.

Statement of Assets, Liabilities and Fund Balances (2020-2024) (in ₱ millions)



Statement of Revenues and Expenses (2020-2024)



A MESSAGE FROM THE PRESIDENT OF UPERDFI

Our Valued Stakeholders,



My warmest greetings to our esteemed partners, donors, collaborators, and friends of the UP Engineering Research and Development Foundation, Inc. (UPERDFI). As we embark on a new year, I am grateful for your unwavering support and excitement for the transformative journey ahead.

2024 presented its share of challenges and triumphs, but your commitment to UPERDFI's mission has remained steadfast through it all. For this, I extend my most profound appreciation. Looking forward to 2025, we recognize a significant shift in the landscape of giving. We are witnessing a welcome evolution from traditional philanthropy to a more engaged approach – social investing.

Our donors are no longer simply contributing; they are seeking active participation in the process, desiring to be partners in achieving tangible, impactful results. We embrace this change and recognize the immense potential it holds. This evolution necessitates that UPERDFI itself evolve.

To effectively facilitate this new dynamic and maximize the impact of social investments, we must strengthen our organizational capacity. This means “bulking up”—enhancing our infrastructure, refining our processes, and ensuring we have the resources to manage increasingly complex projects and partnerships. Equally crucial is the injection of fresh perspectives and energy. We are committed to actively recruiting new talent, bringing in individuals with diverse skill sets and experiences to complement our existing team and drive innovation.

Furthermore, we acknowledge the need to refresh our image. We are embarking on a rebranding initiative that reflects our current strengths and our vision for the future. This rebranding will ensure that UPERDFI remains relevant and resonates with a new generation of stakeholders.

A deeper, more meaningful engagement with the UP College of Engineering (UPCOE) is central to our future success. We must work hand-in-hand to deliver research that is not only cutting-edge but also relevant, timely, and, crucially, socially equitable. This means focusing on research that addresses the pressing challenges facing our nation, ensuring that all share the benefits of technological advancement.

Finally, and perhaps most importantly, UPERDFI must reimagine itself. We must move beyond the perception of being merely a funder and solidify our position as a driving force behind meaningful research. We must proactively identify critical research areas, foster collaboration between researchers and industry partners, and translate research outcomes into real-world solutions. We must become thought leaders, innovators, and catalysts for positive change.

The year 2025 represents a pivotal moment for UPERDFI. I am confident that with your continued support, we can navigate this transformation successfully and emerge stronger, more impactful, and more aligned with the needs of our community and our nation.

We look forward to partnering with you on this exciting journey.

Mabuhay!

Angelito D. Bermudo

President, UP Engineering Research and Development Foundation, Inc.

UP COLLEGE OF ENGINEERING ANNUAL REPORT

A Year of Breakthroughs at UPCOE

The University of the Philippines Diliman College of Engineering (UPD COE) presents its annual report for January to December 2024, documenting a year of sustained academic growth, impactful research, strategic partnerships, and expanded public service. The College remains steadfast in its mission to develop globally competent engineers and advance science and technology in service of national development.

The College at a Glance: Structure, Programs, and People

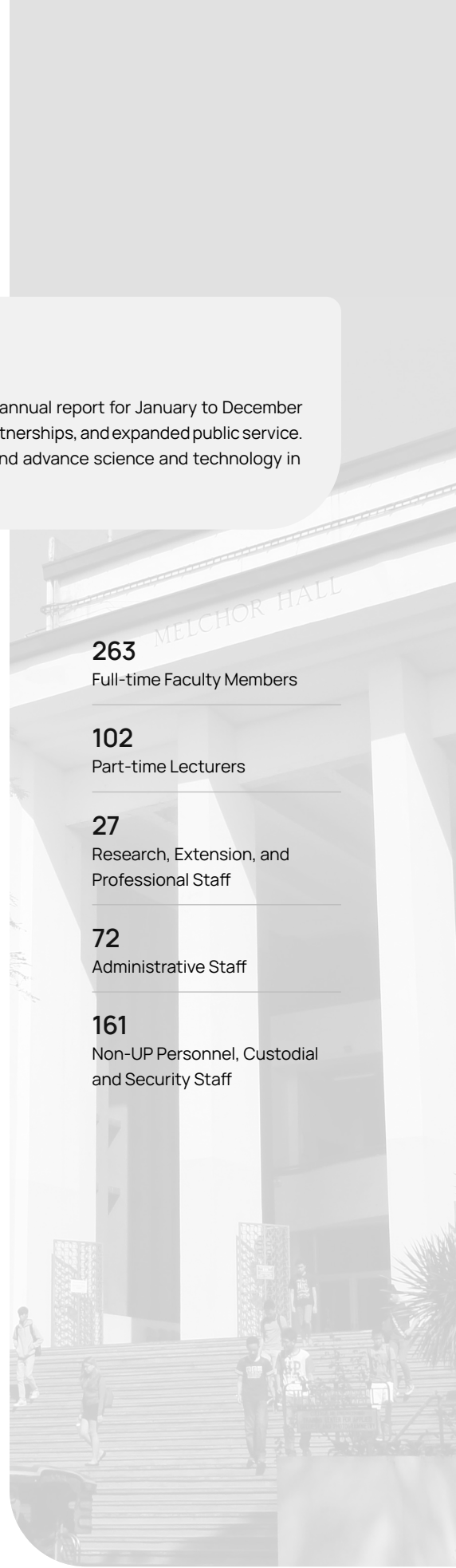
The UP Diliman College of Engineering (UPD COE) comprises six (6) departments, two (2) institutes, the National Graduate School of Engineering (NGSE) with department/institute graduate degree programs and four (4) interdisciplinary graduate programs, and the National Engineering Center (NEC) with its five (5) constituent centers: the Building Research Service (BRS), National Center for Transport Studies (NCTS), National Hydraulic Research Center (NHRC), Philippine Learning Center for Environment and Social Sustainability (PIHILCESS), and the Training Center for Applied Geodesy and Photogrammetry (TCAGP). The College offers twelve (12) undergraduate and twenty-three (23) graduate programs. The UP College of Engineering, being the largest College in UP Diliman, boasts 263 full-time faculty members across six departments and two institutes, supported by 102 part-time lecturers, 27 Research, Extension, and Professional Staff (REPS), 72 administrative staff, and 161 non-UP personnel, custodial and security staff.

For the First Semester of Academic Year (AY) 2024-2025, the student population consists of 4,563 undergraduate students and 1,189 graduate students. For the Second Semester of AY 2024-2025, there are 4,642 undergraduate students and 1,177 graduate students.

The incumbent Dean of the UPD College of Engineering, Dr. Maria Antonia N. Tanchuling will serve under her term from September 1, 2022 to August 31, 2025. The Executive Team is composed of the following:

| | |
|--|-----------------------------------|
| Associate Dean for Research | Prof. Roel M. Ocampo |
| Associate Dean for Administration | Prof. Menandro S. Berana |
| Associate Dean for Academic Affairs | Prof. Leslie Joy L. Diaz |
| Associate Dean for Student Affairs | Assoc. Prof. Kate Tungpalan |
| Associate Dean for Alumni and Institutional Linkages | Prof. Eric Augustus J. Tingatinga |
| Associate Dean for Public Engagement | Prof. Rowaldo Del Mundo |
| College Secretary | Prof. Jhoanna Rhodette I. Pedrasa |
| Director of the National Graduate School of Engineering | Prof. Louis Angelo M. Danao |

As Dean, she takes the concurrent role as Executive Director of the UP National Engineering Center and the Trustee position in the UPERDFI Board.



263

Full-time Faculty Members

102

Part-time Lecturers

27

Research, Extension, and Professional Staff

72

Administrative Staff

161

Non-UP Personnel, Custodial and Security Staff

Pursuit of Excellence: Accreditation Successes and Goals

In line with its commitment to maintaining high academic standards, the UPD COE hosted a simultaneous four-day accreditation visit by the Philippine Technological Council – Accreditation and Certification Board for Engineering and Technology (PTC-ACBET) from December 4 to 7, 2023. This historic milestone—the first of its kind in UP Diliman—involved five undergraduate programs: BS Chemical Engineering, BS Mechanical Engineering, BS Materials Engineering, BS Metallurgical Engineering, and BS Mining Engineering.



Building on this success, the BS Industrial Engineering program underwent its own three-day PTC-ACBET accreditation visit in April 2024. The process included comprehensive evaluations through meetings with university leadership, faculty, students, and alumni, alongside on-site inspections of facilities and laboratory resources.

Looking ahead, the College is preparing for the next cycle of accreditation visits in 2025, covering five additional undergraduate programs: Civil Engineering, Geodetic Engineering, Computer Engineering, Electrical Engineering, and Electronics Engineering. These continuing efforts reflect the College's sustained drive toward quality assurance, international alignment, and continuous program improvement.

Spotlight on Research: The 2024 Professorial Chair Colloquia

In 2024, the College conducted two major editions of the Professorial Chair Awards (PCA) Colloquium—on January 24–26 and on November 25—as part of its flagship initiative to promote engineering research aligned with the United Nations Sustainable Development Goals (SDGs). These events were held in collaboration with the UP Engineering Research and Development Foundation, Inc. (UPERDFI) and the UP National Engineering Center (UP NEC). Both events operated under the theme “FAST TRACK: Filipino Engineers for the Advancement of Science and Technology Through Research and Collaborative Knowledge Sharing—Engineering Research Towards Achieving Philippine Sustainable Development Goals.”

The 2023 PCA Colloquium was held on January 24–26 at the UP National Engineering Center, featuring 130 research presentations grouped into eight themes aligned with the Sustainable Development Goals (SDGs), and providing a platform for faculty to share outputs with academic, industry, and government stakeholders.



The 2024 PCA Colloquium was held on November 25 at the UP Institute of Civil Engineering, featuring 138 research presentations and a plenary panel discussion focused on integrating science, technology, and stakeholder collaboration to advance environmental solutions, climate action, and global competitiveness in engineering education.



Immediately following the November colloquium, the University of the Philippines Office of the President, UPD COE, and UPERDFI co-hosted the **“Collaborative Connections: Industry Partners Dinner”** on November 24 at the UP Executive House. Hosted by UP President Angelo A. Jimenez, the event honored PCA awardees, UPERDFI donors, and Host Training Establishments (HTEs) UPERDFI trustees, and College faculty to recognize their critical role in supporting the College’s research and development ecosystem. Attended by university officials including President Jimenez and Chancellor Edgardo Carlo Vistan II, faculty, and industry partners, the dinner highlighted the critical role of research, university-industry partnerships, and collaborative efforts in expanding graduate programs to meet national development goals and harness the Philippines’ demographic potential through innovation and transformative education. The event highlighted the shared commitment of academia and industry to driving sustainable progress.

The College extends its deepest gratitude to UPERDFI and the numerous donors and partners who have continued to support the PCA program, enabling faculty to pursue cutting-edge research with real-world impact.

Expanding the Graduate Engineering Education Network: A Nationwide Initiative

Delegations from the UPD COE embarked on a series of nationwide consultations titled “Exploratory Discussions on Collaborative Effort to Scale Up Graduate Engineering Education Nationwide.” These consultations aimed to address shared challenges and opportunities in Philippine graduate engineering education and to establish a nationwide network of universities collaboratively offering graduate programs in engineering and make a significant impact on advancing science and technology in the country.

The Northern Luzon leg on May 31, hosted by the University of the Philippines Baguio, included UP Baguio College of Science Dean Dr. Dymphna Javier and representatives from Mariano Marcos State University, Ifugao State University, Isabela State University, and Benguet State University. Discussions focused on aligning curricula, sharing faculty resources, and exploring joint offerings.

From June 27 to July 1, the Mindanao leg was conducted at Caraga State University in Butuan City. Delegates engaged with officials from Mindanao State University – Iligan Institute of Technology, University of Science and Technology of Southern Philippines, and UP Mindanao to explore collaborative research, joint degrees, and resource pooling.

The Visayas consultation followed on July 1 at UP Cebu, bringing together representatives from Cebu Technological University, Visayas State University, University of San Carlos, and Iloilo Science and Technology University. Dialogue centered on faculty development, graduate program expansion, and regional R&D priorities.

On August 16, the final leg was held at the University of the Philippines Los Baños (UPLB), where Chancellor Dr. Jose V. Camacho Jr. welcomed the delegation. Drawing from UPLB’s experience in agro-industrial and applied engineering, discussions emphasized the potential of off-campus graduate programs, strategies for increasing enrollment and scholarships, and pathways for attracting international students.

Across all visits, an emphasis was placed on finding collaborative solutions to enhance program offerings and increase graduate production through comprehensive and inclusive efforts. Dean Tanchuling underscored this urgency, noting that as of 2018, the Philippines had only 174 researchers per million people—a figure far below global standards. The proposed network aspires to bridge this gap by incubating new graduate programs, developing faculty and infrastructure, harmonizing standards, and facilitating knowledge and resource sharing among partner institutions.

This nationwide initiative lays the foundation for a long-term, collaborative approach to graduate engineering education—one that is inclusive, future-ready, and aligned with the needs of national development.



Investing in Our People: The 2024 Faculty and REPS Conference

From July 18 to 20, 2024, the UP Diliman College of Engineering and the UP National Engineering Center held the annual Faculty and Research, Extension, and Professional Staff (REPS) Conference at Hotel Casiana in Tagaytay. Anchored on the College’s vision to build a nationwide network for graduate engineering education and collaborative R&D, the conference brought together faculty and staff to collectively chart the path forward.

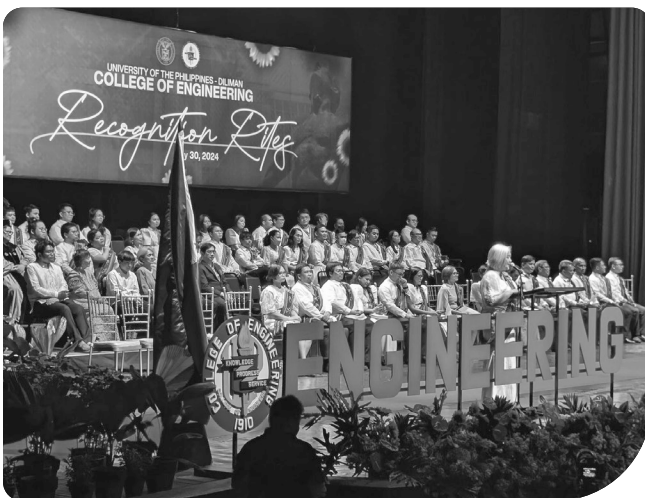
UP President Angelo Jimenez opened the program with a message of strong institutional support. He emphasized the essential role of collaboration in scaling engineering education and capacity-building efforts across the country. Dean Maria Antonia N. Tanchuling reinforced the importance of not only advancing knowledge but also ensuring that industry is equipped to absorb and sustain innovations. Key university officials—Dr. Daniel C. Peckley Jr., Vice President for Development, and Joseph Gerard T. Reyes, Assistant Vice President for Development (Facility Management)—joined the discussions on institutional strategy,

structure, and alignment with national development goals. Workshops and breakout sessions enabled participants to reflect on current practices, identify challenges, and propose practical strategies to enhance individual and institutional capacity in research, instruction, and extension.

Welcoming Tomorrow's Engineers: New Student and Parent Orientations

As part of its commitment to student success, the College hosted its annual New First Year Students' Orientation at the David M. Consunji Theater of the Institute of Civil Engineering. Simultaneously, a separate Parents' Orientation was held at the Electrical and Electronics Engineering Institute. Organized by the Office of the College Secretary and the Office of the Associate Dean for Student Affairs, these sessions welcomed incoming students and their families to the UP Engineering community.

The program introduced academic expectations, support services, and the College's culture of honor and excellence. Both orientations emphasized the role of students not just as learners, but as future engineers committed to national service.



Honoring Our Graduates: The 2024 Recognition Ceremonies

Undergraduate Recognition Rites

On July 30, 2024, the UPD COE held its annual Recognition Rites at the University Theater, honoring a total of 926 graduates. The morning session celebrated graduates from programs including Computer Science, Computer Engineering, Electrical Engineering, Electronics Engineering, Geodetic Engineering, and Mechanical Engineering. Engr. Rizalina Gervasio-Mantaring, former CEO and Country Head of Sun Life Financial Philippines, delivered an inspirational message, emphasizing the graduates' role in upholding the values of honor and excellence.

The afternoon session honored graduates from Chemical Engineering, Civil Engineering, Industrial Engineering, Mining Engineering, Metallurgical Engineering, and Materials Engineering. Engr. Maria Belinda C. San Jose, Senior Vice President and Chief Information Officer of the Social Security System, addressed the graduates, encouraging them to serve the nation with integrity and compassion. Special awards were presented to outstanding students, and the graduates were inducted into the UP Alumni Engineers by Engr. Manfred M. Guangko, Vice President Internal, on behalf of UPAE President Aurelio L. Gomez.

National Graduate School of Engineering Recognition Rites

The UPD National Graduate School of Engineering celebrated the accomplishments of 132 graduates at its Recognition Rites held at the UP School of Statistics Auditorium. Dean Tanchuling highlighted the historic graduation of the first cohort of the Master of Engineering in Artificial Intelligence program. Guest speaker Dr. Karl Kendrick T. Chua, Managing Director for Data Science and Artificial Intelligence at Ayala Corporation, urged the graduates to use their education to address societal inequalities and improve lives. He emphasized the importance of making AI work for the greater good and challenged the graduates to think about how their work can benefit the planet and contribute to a more equal society.



Green Leadership: The SeedEng'g Tree Planting Initiative

Demonstrating its commitment to environmental stewardship, the UPD COE, in collaboration with the UP Engineering Student Council and the Philippine Native Tree Enthusiasts, hosted the "SeedEng'g the Future" tree planting activity on August 30, 2024. The activity engaged students, faculty, alumni, and staff in planting over 100 native tree seedlings across key locations in the Engineering Complex—including the grounds of the Institute of Civil Engineering, the Department of Chemical Engineering, and the Department of Mining, Metallurgical, and Materials Engineering. Over 100 native tree seedlings were planted, including species such as Salinggogon, Tagpo, Lanete, and Balok. In her welcoming remarks, Dean Tanchuling emphasized the symbolic importance of the activity by drawing a parallel to the acacia trees planted in the 1950s—now defining the UP Academic Oval. She expressed hope that participants—faculty, alumni, students, and staff—would share a similar sense of pride and legacy for future generations of UP Engineers to take pride in.



Strengthening Collaborations with Institutions, Alumni, and Industry Partners

In 2024, the UPD COE deepened its strategic collaborations with academic institutions, industry leaders, and alumni networks to drive innovation, expand learning opportunities, and support the nation's engineering capacity. Through active engagement and shared initiatives, the College—working closely with the UP Engineering Research and Development Foundation, Inc. (UPERDFI)—solidified its role as a hub for transformative partnerships.



On March 15, 2024, UPD and Fluor Daniel, Inc. - Philippines signed a Memorandum of Agreement at Quezon Hall, symbolizing a strategic partnership aimed at fostering collaboration in research, education, and industry advancement. In April 2024, Orica Philippines launched its inaugural scholarship program in collaboration with the UPD COE, awarding scholarships to seven aspiring engineering students. This partnership aims to nurture talent and drive innovation in the field of engineering. In May 2024, the UP Engineering Research and Development Foundation and the UPD COE organized a signing ceremony with Megawide Foundation and the Laguinia Family to establish the Megawide Foundation Scholarship Program and the Enrique Lee Laguinia Professorial Chair Award and Scholarships, respectively.

On July 9, 2024, the DMCI Group of Companies hosted a Thanksgiving Dinner for the UPD COE and UPERDFI at The Valeron Tower Showroom in Pasig City. The event celebrated partnerships in engineering and provided an opportunity for DMCI members to meet with holders of their Professorial Chairs and recipients of Teaching and Research Awards. In August 2024, Capitol Steel Corporation established the Capitol Steel Scholarship Program, supporting senior students from the Industrial Engineering, Electrical Engineering, and Mechanical Engineering programs.

The College and UPERDFI engaged in exploratory dialogues with Bechtel to advance nuclear engineering capacity through curriculum development, student competitions, and technical training. Similarly, talks with MARINA and OECD representatives centered on establishing a new degree program in Naval Architecture and Marine Engineering, addressing the country's maritime sector needs.

The college also engaged in exploratory discussions with the Philippine Consulate in San Francisco to boost the Philippine startup ecosystem. A Memorandum of Understanding was signed between USAID and UP Diliman on the Open Radio Access Network (RAN) Laboratory, marking a significant collaboration in advancing technological education and infrastructure. Furthermore, the college collaborated with the Metropolitan Manila Development Authority (MMDA) to explore and brainstorm ideas, develop plans, and identify collaborative opportunities to tackle regional challenges.

These partnerships exemplify the College's ongoing mission to align engineering education with real-world demands. With UPERDFI as a trusted conduit for institutional engagement and support, the UPD COE continues to cultivate relationships that translate into greater opportunities for its faculty, students, and the broader public it serves.



Celebrating Excellence: Faculty, Staff, and Institutional Honors

National Recognition for the Department of Chemical Engineering

In 2024, the UP Diliman College of Engineering continued to uphold its tradition of excellence through the achievements of its departments, faculty, staff, and researchers. One of the year's most notable recognitions was awarded to the Department of Chemical Engineering, which received the prestigious 2023 National Research Council of the Philippines (NRCP) Outstanding Institution Award for Cluster II. This national accolade affirms the department's unwavering commitment to excellence and its meaningful contributions to the advancement of scientific knowledge, collaborative research, and public service. It stands as a testament to the department's leadership in shaping innovation and academic rigor in Philippine engineering education.

Araw ng Parangal: Honoring Excellence

In celebration of its 114th founding anniversary, the UPD COE paid tribute to its outstanding staff, faculty, and researchers on June 13, 2024, at the Engineering Theater of Melchor Hall. The Araw ng Parangal recognized individuals who have shown exceptional performance and dedication. Awards were given to faculty members for excellence in teaching and research, including the Outstanding Engineering Instructor Award to Jommer M. Medina; the Outstanding Young Engineering Researcher Award to both Roseanne V. Ramos and Jommer M. Medina; and the Limcaoco Instructor Award for Excellence in Teaching to Rusloyd S. Lariba.

The Outstanding Engineering Researcher Award was bestowed upon Dr. Magdaleno R. Vasquez Jr. and Dr. Joey D. Ocon, while Dr. Czar Jakiri S. Sarmiento received the Outstanding Engineering Professor Award. The UP Alumni Engineering Lifetime Achievement Award was given to Dr. Guillermo Q. Tabios III.



The college also recognized administrative staff and Research, Extension, and Professional Staff (REPS) for their dedication and service, reflecting appreciation for the contributions of its entire community. Ms. Imelda "Ate Aimee" Ocampo, our dedicated Senior Administrative Assistant I from the Office of the College Secretary, was honored with the "PUSO" Award (Inspirasyon at Husay Kagalingan Award) under the Science and Technology Cluster at the GALING UPD Honor Awards 2024.

UP Scientists Appointments

Several faculty members were appointed under the UP Scientific

Productivity System for 2023-2025, acknowledging their outstanding scientific productivity and international recognition. Appointed as UP Scientist III were Dr. Joey D. Ocon of the Department of Chemical Engineering, Dr. Louis Angelo M. Danao of the Department of Mechanical Engineering, and Dr. Mary Donnabelle Balela of the DMMME. Appointed as UP Scientist I were Dr. Karl Ezra S. Pilario and Dr. Julie Anne D.R. Paraggua of the Department of Chemical Engineering; Dr. Richard Espiritu of the DMMME; and Dr. Czar Jakiri S. Sarmiento of the Department of Geodetic Engineering. Faculty members from the UP Electrical and Electronics Engineering Institute—Dr. Jhoanna Rhodette Pedrasa, Dr. Maria Theresa De Leon, Dr. John Richard Hizon, and Dr. Lew Andrew Tria—were also appointed as UP Scientist I.

Graduates' Achievements: PRC Licensure Examinations

The College is proud to once again be the consistent top-performing institution in the 2024 Professional Regulation Commission (PRC) Licensure Examinations across multiple engineering disciplines. The College congratulates all its board passers, whose achievements reflect their hard work, resilience, and the College's unwavering commitment to academic rigor and excellence.

| Professional Examination | Month taken (2024) | Percent Passing | Top Placers |
|---------------------------|--------------------|-----------------|--|
| Civil Engineering | April | 94.74% | |
| Civil Engineering | November, December | 93.18% | 2nd, 6th, 10th |
| Chemical Engineering | May | 100% | 3rd, 5th, 7th, 9th |
| Chemical Engineering | November | 100% | 1st |
| Electrical Engineering | April | 100% | 4th, 10th |
| Electrical Engineering | August | 100% | |
| Electronics Engineering | April | 90.91% | 2nd, 7th, 8th, 9th, 10th |
| Electronics Engineering | October | 84.38% | 1st, 2nd, 3rd, 5th, 6th, 7th, 8th |
| Electronics Technicians | October | 100% | 2nd |
| Geodetic Engineering | October | 94.59% | 3rd, 5th |
| Mechanical Engineering | February | 85.71% | 5th, 7th |
| Mechanical Engineering | August | 70% | |
| Metallurgical Engineering | October | 96.15% | 1st, 2nd, 3rd, 5th, 6th, 7th, 8th, 9th, 10th |
| Mining Engineering | October, November | 100% | 3rd, 7th, 9th, 10th |

Undergraduate Project Competition 2024: Dr. Francis Chua Innovation Awards

The college announced the winners of the annual Undergraduate Project Competition (UPC) 2024: Dr. Francis Chua Innovation Awards that showcase the innovative projects of our students, emphasizing the college's commitment to nurturing future leaders in engineering and technology:

In the Design Category, First Place was awarded to "AlgoPlast: Development of Alginate/Carrageenan-Based Films as an Alternative to Commercial Single-Use Polyethylene Film Applications," developed by Kirk Benedict Beau T. Damian under the guidance of advisers Tiffany Louise B. Lao and Dr. Mitch-Irene Kate G. Oyales. This project explores sustainable alternatives to single-use plastics, contributing to the global effort to reduce

plastic pollution. Second Place went to "Design and Fabrication of Configurable Crutches for Varying Mobility Needs", by Alyssa T. Somido, with adviser Dr. Gerald Jo C. Denoga.

In the Research Category, First Place was awarded to "Development of Gelatin-Based Hydrogel with Self-Healing Capability as a Tissue Mimicking Material for Skin Suture Training", by Emmanuel O. Cruz, advised by Dr. Leslie Joy L. Diaz, Nerissa Unielle D. Quenga, and Melissa Amosco. This innovative project provides a realistic training tool for medical professionals by mimicking human tissue. Second Place resulted in a tie: "Assessing Structural Adequacy and Vehicle Redirection of Philippine Guardrail System through Crash Test Simulations", by John Kenneth Y. Asuncion and Beatrix R. Guanio, advised by Dr. Jon Dewitt E. Dalisay, focuses on improving road safety infrastructure, while "Stairway to Heaven: Assessing the Level of Service of Nepa Q-Mart EDSA Carousel Station Through a 3D Object-Oriented Simulation", by Mark Vinzent S. Raymundo and

Art Joyce C. Serrano, advised by Dr. Ayin M. Tamondong, Karl Adrian P. Vergara, and Noriel Christopher C. Tiglao, examines the efficiency of public transport stations through innovative simulations. The awarding ceremonies will be held on November 18, 2024, during the 12th ERDT Congress.



Guiding Lights: The 2024 Lantern Parade Entry - “Talánghay”

The UP Diliman College of Engineering proudly presented Talánghay—its entry to the 2024 Lantern Parade—a creative and symbolic interpretation of the pawikan (sea turtle). The lantern's name combined tala (star) and balangay (a traditional Filipino boat), evoking an image of the College as a guiding light for Filipino engineers sailing toward a more just, inclusive, and sustainable future. Its form merged the turtle's steadfast symbolism with design elements inspired by kartutso paper cones, signifying strength in adversity.

Crafted from repurposed materials—including air conditioning tubes, plastic bottles, baskets, and components from previous lanterns—Talánghay exemplified the College's commitment to sustainability and creative reuse. It was brought to life through the collective effort of students, faculty, and staff, led by the UP Engineering Student Council and the Office of the Associate Dean for Student Affairs. Their collaboration reflected the enduring Bayanihan spirit that defines the College community.

Talánghay won 2nd place in the 2024 Lantern Parade, a testament to the College's creativity, teamwork, and continued leadership in promoting innovation, sustainability, and nation-building.

Closing Message: Continuing the Mission with the Support of UPERDFI

As this report documents, 2024 has been a year of significant achievement, strategic growth, and unwavering commitment for the UP Diliman College of Engineering. Looking ahead, we reaffirm our dedication to addressing the nation's complex challenges through transformative education, impactful research, and



inclusive innovation, always guided by our core values of honor, excellence, and service to the nation.

Our journey towards realizing this vision is profoundly strengthened by our enduring partnership with the UP Engineering Research and Development Foundation, Inc. (UPERDFI). As evidenced throughout this report and in countless initiatives over the years, UPERDFI's steadfast support—through professorial chairs, student scholarships, vital industry linkages, facility enhancements, and crucial capacity-building programs—has been instrumental to our success and reach.

As we prepare for even greater challenges ahead, we look forward to strengthening this vital collaboration. Together, we will pursue new opportunities to develop future-ready engineers, scale transformative research, and deepen our service to the nation. The coming years will demand bold thinking, sustained investment, and strong partnerships—and we are confident that with UPERDFI by our side, we are equipped to lead.

Let us continue to work hand in hand in building a resilient, inclusive, and innovation-driven future for engineering in the Philippines.

Mabuhay ang mga Inhenyero Para sa Bayan!

2024 UPERDFI COMMITTEE REPORTS

Audit Committee

Chairman:

Alexis Philip A. Acacio

In 2024, the Audit Committee focused on three initiatives to ensure reliable financial reporting, regulatory compliance and risk management of UPERDFI.

An Audit ad-hoc Committee was formed to ensure the quality review of financial statements and compliance with regulations. The 2024 external audit was conducted by SGV from December 2024 to March 2025.

Finance Committee

Chairman:

Guillermo Q. Tabios III – Treasurer

Members:

Alfonso A. Aliga, Jr.
Edgardo G. Atanacio
Rizalina Gervasio-Mantaring
Rene E. Nolasco
Jose Jerome R. Pascual III

The total net contribution into the investment management agreement with AB Capital since the inception of the portfolio until the end of 2024 is at ₱302.59 million. Some funds have been invested in offshore placements last December 2024 and transferred USD 25,000 to the Private Wealth division which makes the domestic portfolio's net contribution stand at ₱301.12 million. Out of this, the domestic portfolio ended the year with a market value of ₱338.23 million.

For the year 2024, the total dividends and interest income earned, including the gains on sale of investments, over the past year is ₱23.97 million.

The total assets under management of AB Capital is at ₱338.12 million as of the end of December 2024. The 47% of the portfolio is allocated to Domestic Fixed Income with 28% in Domestic Equities and the remaining 26% in Cash/Short-term Assets.

The total return of the portfolio for the past 1 year and 7 months is at 16.19%, vis-a-vis the benchmark yield for the same period of 6.81%, an outperformance of 9.38% percentage points. The benchmarks used are the 91-day Treasury Bill (for short-term), Bloomberg Philippine Sovereign Bond Index 1 to 5 Years (for domestic fixed income), and Total Return (for domestic equity).

Year-to-date, the portfolio has earned 9.4% vis-a-vis the benchmark yield of the same period of 4.46%, an outperformance of 4.95 percentage points.

Performance of the global investments fund is tracking the index with 10 bps underperformance attributable to trading fees on the buy side.

Overall, the UPERDFI IMA with AB Capital shows robust performance in ensuring that endowed professorial chairs and other commitments are well-funded and the administration's expenses are supported.

₱338.23 M

Domestic Portfolio

₱23.97 M

2024 Total Dividends &
Interest Income Earned

16.19%

Total Return for
1 Year and 7 Months

Governance Committee

Chairman:

Jose Jerome R. Pascual III

Members:

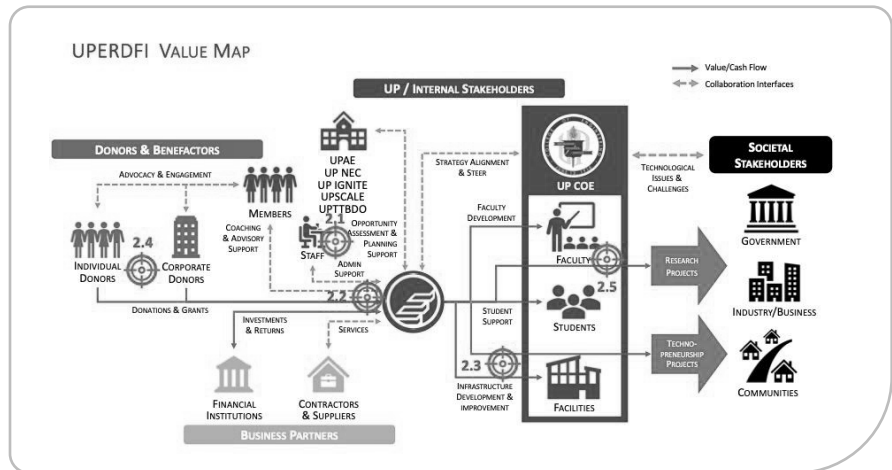
Antonio M. Braganza
 Ramon M. De Leon
 Gaudencio Renato T. Goco
 Don Mustapha A. Loong
 Bienvenido A. Lopez, Jr.
 Felipe B. Santiago
 Manuel H. Torres
 Cesar E. Yñiguez

The UPERDFI Value Management System (VMS) framework was approved and operationalized in 2024. This includes the regular status monitoring of the Compliance & Assurance Plan, which covers the Board's review and confirmation of the following key "license to operate" requirements:

- Regulatory reports to government agencies: DOST, SEC, PCNC, BIR, LGU
- Business permits, certifications and statutory filings
- Governance and assurance oversight
- Strategic framework, operating principles, policies & standards and delegated authorities
- Control framework, risk management and business continuity
- Member engagement and stakeholder management
- Performance appraisal

The UPERDFI Business Continuity Plan (BCP) - a critical element of the VMS - was developed and approved. The BCP identified the following key risks and their corresponding mitigation strategies:

- Office operations outage due to IT issues, cyber attacks, natural disasters or pandemics (2.1)
- Dissatisfaction of donors due to misaligned expectations and available resources (2.2)
- Poor project delivery/execution due to internal/external challenges (2.3)
- Lack of donor funding (2.4)
- Inability of researchers to complete commissioned research & development activities (2.5)



The key roles comprising the business continuity team were defined and assigned. Further work on detailing the mitigation strategies is ongoing.

The UPERDFI Articles and By-Laws were amended in 2024 - as approved by the general membership - to incorporate key requirements under the SEC's updated Code of Corporate Governance. This included the expansion of the roles and responsibilities of the Audit Committee to include Risk Oversight, and of the Governance Committee to cover Nomination and Compensation. The Governance Committee charter has been updated accordingly while work is ongoing for the Audit Committee.

The Secretariat's back office support capabilities were further expanded and enhanced with the recruitment of a Program Officer and a Finance & Admin Officer, and the outsourcing of accounting and statutory filings to CloudCFO.

Innovation Committee

Chairman:

Enrico C. Paringit

Co-Chairman:

Rafael Nestor V. Mantaring

Members:

Emmanuel Bautista
 Frederick Chua
 Mary Rose dela Cruz
 Glenn Gratil
 Ma. Bella Javier
 Albert Marqueses
 Jose Emmanuel Reverente
 Justerrieni Tongco
 Nicanor Villaseñor III

Administration of UPERDFI's R&D Grants"

In 2023, in an effort to encourage innovation among students, UPERDFI provided funds for the prototyping requirements of four student projects. Of these, two are now startups, one is part of a continuing research program, and the fourth is being pursued further by the proponent, now a graduate student.

Because of these encouraging results, funds were again appropriated by UPERDFI in 2024 to support student projects. In addition, the Innovation Committee was asked to oversee the awarding of grants from three other R&D funds which had remaining balances. The Committee ended up overseeing the following:

1. Student Prototyping Grant from the reallocated Intel Corporation R&D Fund. The grant is specifically for students and can only be used to cover expenses for prototyping and testing.
2. DITC R&D Grant from donations received from Diliman Integrated Technology Consulting, Inc. This may be availed of by CoE students or faculty members for basic or applied R&D.
3. TDSS Grant from the interest earnings of the Technology Development and Strategic Studies Fund. This fund supports studies that could aid policy makers in matters where engineering and technology are key. This is open only to CoE faculty members.
4. Startup Assistance Grant. The grant provides seed funding to help startups achieve investor readiness. It can be availed of by startups with either a CoE student, faculty member or alumnus as one of the founders.

A call was made for proposals early in February 2024. A total of 32 applications were received: 25 for Student Prototyping Assistance, 4 for DITC funding, 1 for TDSS funding, and 2 for Startup Assistance. A panel consisting of members of the Innovation Committee, together with the ED and DED, studied and rated the various proposals. After deliberations among the panel members, the following projects were awarded in April 2024.

Student Prototyping:

| | Project Title | Amount Awarded | Current Status |
|---|--|----------------|---|
| 1 | Electrification of Boats for Small-Scale Rural Fishing | ₱100,000 | Completed. Demonstrated the prototype successfully in Mabini, Batangas. Research to be pursued further by the proponent. Commercialization is being eyed. |
| 2 | Fabrication of Bamboo (Bambusa Blumeana) - Reinforced Concrete (BRC) for Load Bearing Wall Panels Utilizing Expanded Perlite Aggregate (EPA) | ₱40,336 | Completed. Project established that bamboo can be used to reinforce load bearing walls. |
| 3 | Synthesis of Nanocellulose Crystal/Zinc Oxide/Titanium Dioxide (NCC/ZnO/TiO ₂) Nanocomposite as an Alternative Ultraviolet (UV) Filter in Sunscreen Formulations | ₱43,000 | Completed. Showed that the synthesized material had UV filtering properties. |
| 4 | Mechanical and Thermal Properties of a Graphene-Infused Epoxy Resin Reinforced with Silane-treated Fly Ash | ₱35,000 | Project still ongoing. |
| 5 | Design and Implementation of an M2M-based Remote Monitoring System for Water Distribution Networks Using Wireless Sensor Nodes | ₱23,416 | Completed. Demonstrated the system on a small-scale water distribution lab setup. Proponents are interested in seeking commercial opportunities and are seeking advice. |
| 6 | An OpenBCI Signal Acquisition System | ₱45,000 | Completed. Successfully acquired ECG, EMG and EEG signals. Currently being considered for biomed-related projects. |



For DITCI funding:

| | Project Title | Amount Awarded | Current Status |
|---|---|----------------|---|
| 1 | Development of Alginate/Kappa Carrageenan-Based Films as an Alternative to Commercial Single-Use Polyethylene Film Applications | ₱31,385 | Completed. Proponent is in discussion with potential industry partners. |
| 2 | Parametric, Kinetic and Reusability Study of Microwave-Irradiated Gelatin-Rutin Hydrogel for Seawater Desalination | ₱57,100 | Project is still ongoing |

Startup Assistance:

| | Project Title | Amount Awarded |
|---|---|----------------|
| 1 | AAClatan - Tagalog-Focused Augmentative and Alternative Communication App | ₱300,000 |
| 2 | KoolGear - Personal Cooling Device for Motorcycle Riders | ₱300,000 |

The above awardees were recipients of the Student Prototyping Grant in 2023. They have gone through the startup incubation program of UPSCALE.

The panel decided not to award the TDSS grant.

A simple awarding ceremony was held at the Melchor Hall on May 6, 2024 for the recipients of the student prototyping grant and the startup assistance grant.



New Grant from Accenture Received

Last August, Accenture and UPERDFI revived a MOA which they first entered into in July 2021 but which had expired. The MOA establishes a framework for cooperation between Accenture and UPERDFI in activities that promote industry-academe collaboration and technology-based entrepreneurship. Under the MOA, specific activities would be covered by separate collaborative agreements. The first collaborative agreement under this new MOA granted UPERDFI ₱2.8M to support IP generation activities within the UP community.

UPERDFI's implementation partner in this undertaking is UPSCALE, the innovation hub of UP Diliman. UPSCALE created a program for this purpose. A call was made for participation in the program. Applicants were required to have a minimum viable product and a clear and identifiable market with potential industry adapters. They were also required to have conducted an initial prior art search to confirm potential patentability of their product. Eight teams are now undergoing onboarding into the program. The Innovation Committee has been overseeing this activity.

Other Research-to-Market Activities

The Innovation Committee continues to provide senior partners and mentors to startups and project teams incubated at UPSCALE. They participate as panelists in demo day pitches, provide mentoring, and help link founders with potential industry adapters. Three Innovation Committee members are Senior Partners of UPSCALE.

It also continues to provide administrative and fund management support to contracted research activities. An example is the STEALTH project funded by Craft Research Technologies, Inc. and led by the DMMM Professor Dr. Magdaleno R. Vasquez, Jr. The project has been extended beyond 2024. It aims to develop a differentiated panel for harvesting solar energy.

Membership Committee

Chairman:

Patrick Vincent G. Peña

Members:

Malou Baclig-Esguerra

Angelito Bermudo

Ramon M. De Leon

Jose Jesus R. Gomez

Elias Benjamin H. Lava

Wendel A. Mediarito

Jose Mari P. Mercad

Patrick Anthony D. Pascual

Raymund P. Reyes

Antonio O. Rivera III

Olegario G. Villoria, Jr.

Marcelo M. Casillan, Jr.

The Membership Committee remained driven by Strategic Objective No. 3 which was defined in the UPERDFI Strategic Plan updated in February 2022: Fully tap the network of members, alumni and partners in support of our initiatives with emphasis on membership, resource generation and administration.

In UPERDFI's key mission "To Engineer a Better Philippines", it lies on the Membership Committee to ensure that we help engineer a better UPERDFI by revitalizing and growing its membership base. With the committee's twin focus of recruiting new members and keeping members engaged, the past year has seen significant developments in one area, while still challenged in the other. This report outlines the key highlights and achievements of the UPERDFI Membership Committee for the year 2024 until Q1 2025.

Recruitment Highlights

Solid gains were seen in the recruitment of new members with the launch of Project Thermopylae, that sought to bring total membership by the end of 2024 to 300 members. This target was achieved with the addition of 46 new and high-profile members from June to December. The aggressive push for more members was supported by a streamlined recruitment and vetting process that led to greater efficiency, without sacrificing membership quality. More leads were obtained from other members, including a push for more representation for nominees not just from the alumni of the UP College of engineering, but also engineers from other institutions, as well as industry leaders who share as stakeholders in UPERDFI's mission. Part of the drive is to invite younger members, so most of the new members recruited are in the prime 40-60 age bracket.

For 2025, the committee has set a new goal to add another 70 new members. Total new members added as of end March stands at 16, or 21% of target. Key to hitting the 2025 target is to enable more members to nominate candidates, thereby making recruitment itself as a member engagement tool. Closer collaboration with the UP AE and College organizations will also help in the recruitment effort. All new members from June 2024 onwards will be formally inducted in the General Assembly in May 2025:

2024**2025**

| | | | | | |
|----|---------------------------------|----|---------------------------------|----|-----------------------------|
| 1 | Genn Russell Abad | 27 | Ma. Bella B. Javier | 53 | Efren Abaya |
| 2 | Ryan K. Abis | 28 | Carlos Lansangan | 54 | Abraham Rey M. Acosta |
| 3 | Justo S. Alano III | 29 | Miguel C. Laperal | 55 | Jose Emmanuel Agnir |
| 4 | Raul N. Alvarez | 30 | Manuel N. Liao, Jr. | 56 | Victor Emmanuel B. Ahorro |
| 5 | Gil Amilbangsa | 31 | Ramon Mangaser | 57 | Ruel T. Amparo |
| 6 | Conrado S. R. Arevalo II | 32 | Albert Marqueses | 58 | Joven Z. Balbosa |
| 7 | Benjamin Rex Emilio B. Azada | 33 | Jaime V. Mendoza | 59 | Berck Y. Cheng |
| 8 | Malou Baclig Esguerra | 34 | Jose Francisco Miranda | 60 | Reynaldo Paul B. Chico |
| 9 | Robert Michael N. Baffrey | 35 | Ramon Alberto B. Nolido | 61 | Rowaldo D. del Mundo |
| 10 | Oliver C. Chan | 36 | Sherwin C. O | 62 | Carlos P. Dizon |
| 11 | Roger S. Chua | 37 | Genesis D. Orozco | 63 | Ramon J. Domingo |
| 12 | Vicente Concepcion | 38 | Ismael Pugeda | 64 | Patrick Henry C. Go |
| 13 | Frederick R. Contreras | 39 | Juan Carlos P. Quinto | 65 | Lily Marlene Hernandez Bohn |
| 14 | María Belinda Cusi-San Jose | 40 | Rowena Joan R. Quirimit | 66 | Arnel M. Molina |
| 15 | Joel C. Delos Angeles | 41 | Michael Albert R. Rallonza | 67 | Robert B. Nazareno |
| 16 | Francis G. Domingo | 42 | Miles Ramirez | 68 | Carlo A. Subido |
| 17 | Billy Joe Ereno | 43 | Jose Emmanuel P. Reverente | 69 | Winston Sumalia |
| 18 | Rodolfo Faustino III | 44 | Tulsi Das C. Reyes | 70 | Agnes Zarate |
| 19 | Nestor L. Felicio | 45 | Jose Gerardo Ramon B. Rodriguez | | |
| 20 | Antonio Jaime Jose V. Fernandez | 46 | Arsenio Sabado | | |
| 21 | Patrick Ferrer | 47 | Alma Sta. Ana | | |
| 22 | Macario Fojas | 48 | Francisco B. Sta Ana | | |
| 23 | Aurelio L. Gomez | 49 | Justerienni C. Tongco | | |
| 24 | Cristopher C. Gotianun | 50 | Mikhail Joseph T. Torres | | |
| 25 | Joseph Hong | 51 | Jose Miguel A. Villanueva | | |
| 26 | Raul L. Ignacio | 52 | Steven Cesar G. Virata | | |

Developing Engaged Engineers

While recruitment bore much fruit, membership engagement remains a challenge and therefore, will be given more emphasis in 2025. To boost member engagement in various UPERDFI initiatives, we recognize the need to find fun in mission.

To start, new members are now being assigned and matched to committees within UPERDFI where they can immediately be of help. This has allowed us to provide fresh blood and added muscle to our different working committees.

In harnessing the desire of alumni and other stakeholders to give back especially to the College of Engineering, more programs are being drawn that members can better identify with and support, such as linkages with faculty and students in the areas of research reviews, coaching, industry-linkage workshops and symposia, hack-athons, round-table discussions.

By adding FUN, we also believe we can add more FUNds. The Membership Committee is looking at embarking on FUN fundraising activities to finance Membership Engagement programs in the future i.e. Concerts, Campus Picnics, Gold tournaments, etc.

In Memoriam

We remember with gratitude and deep respect the loss of our beloved members who passed away in 2024 and left behind a legacy of excellence, dedication to their work, and giving back to the UP College of Engineering:

- Francisco A. Arellano
- Meneleo J. Carlos, Jr.
- Henry Lim Bon Liong

May they rest in peace, and may their memories continue to inspire us to pursue our mission with the same level of commitment and passion that they exemplified throughout their lives.

Branding UPERDFI

With Board approval and strong support from the Management Committee, MemCom shepherded the branding strategy initiative which aims to clearly identify who the Foundation is and what it is we do that sets us apart.

DrinkPH, the service provider for our 50th Anniversary coffee table book, was tapped to design and implement the branding strategy for the Foundation. The intent of the strategy was to build the Foundation's distinct image, create messaging, and generate concrete results from COE, donors and other partners, our members, and other interested stakeholders in the bigger community outside UP. The measures of success were described as follows:

- Ramp up membership interest and engagement
- Use as a platform to raise ₱50M for commissioned research in 3 years and become a ₱1B asset foundation within a targeted timeframe
- Put UPERDFI in the map of benchmarked foundations in Asia

With the completion of Phase 3, the next phase of the Branding initiative brings us closer to strengthening our programs as well as the communication platform that will help deliver them.

General Assembly and Recognition Event

The Annual Recognition Event for donors, partners, and members of the Foundation will be held on May 15, 2025 at UP BGC, and will coincide with the General assembly and election of the new Board of Trustees.

This growing tradition is seen as an appreciation and celebration for engagement and contribution of time, talent, treasure, and network. Taking center stage here will be UPERDFI's donors and sponsors who continue to believe in the power of engineering to effect meaningful impact for the Filipino, keeping alive the aspirations we all share in engineering a better Philippines.

In closing, we remain true to the premise that Members are the lifeblood of any organization, continuously called upon to contribute to, initiate and drive the efforts that bring impactful results. They will make or break the Foundation since these are the very same results that will sell the distinct UPERDFI brand we seek to create to our donors, partners, supporters and friends.

Resource Generation Committee**Chairman:**

Roberto F. Batungbacal

Members:

Alfonso A. Aliga, Jr.
Angelito D. Bermudo
Miguel C. Laperal

The Resource Generation Committee focused on mobilizing financial resources to advance the programs of the UP College of Engineering and to support special projects with significant societal impact.

This year, the Committee successfully established a pipeline of prospective donors for the Institute of Civil Engineering, Electrical and Electronics Engineering Institute, Departments of Chemical Engineering, Mining Metallurgical and Materials Engineering, and Mechanical Engineering. These efforts aim to secure sustainable funding for critical departmental priorities.

In addition, the Committee launched a call for support for the Thesis Support Grants program. Through this effort, we secured commitments for 76 new thesis grants. This achievement not only met the funding requirements for the second semester of Academic Year 2024–2025 but also created a rich pipeline of support for the succeeding semester.

ANNEX 1: LIST OF DONATIONS RECEIVED IN 2024

| | Donor | Purpose | Amount (₱) |
|------------------------|---|---|--------------|
| FACULTY SUPPORT | | | |
| 1 | Ace Electronic Technology, Inc. | Alexan Professorial Chair in Engineering | 120,000.00 |
| 2 | Alex Sy Sun Eng | Dr. Luz Salonga Professorial Chair in Chemical Engineering | 1,000,000.00 |
| 3 | AMH Philippines, Inc. | AMH Philippines Professorial Chair in Civil Engineering | 130,000.00 |
| 4 | Analog Devices Gen. Trias, Inc. | Analog Devices, Inc. Professorial Chair | 350,000.00 |
| 5 | ANTA Construction Corp. | Antonio G. Tan Giok Kun Professorial Chair in Civil Engineering | 130,000.00 |
| 6 | Apex Mining Co., Inc. | Apex Mining Professorial Chair in Metallurgical Engineering | 260,000.00 |
| 7 | Apolonio & Lorna Yson | Apolonio P. and Lorna L. Yson Professorial Chair in Chemical Engineering | 257,215.26 |
| 8 | Borland Development Corp. | Pablito R. Hao Chua Professorial Chair in Chemical Engineering | 260,000.00 |
| 9 | Brian Tan Engg Consultancy Services | David Y. Tan Professorial Chair in Geotechnical Engineering | 50,000.00 |
| 10 | Cenon Carolino | Cenon and Mimilyn Carolino Teaching and Research Awards | 54,300.00 |
| 11 | Cesar C. Santos | UP ME Class 1980 Professorial Chair in Mechanical Engineering | 60,000.00 |
| 12 | Cesar E. A. Virata | Cesar E.A. Virata Professorial Chair in Industrial Engineering | 1,500,000.00 |
| 13 | DMCI Project Developers, Inc. | DMCI Project Developers Professorial Chairs and Teaching and Research Awards in Engineering | 2,170,000.00 |
| 14 | Felicidad Zafra Reyes | Prof. Felisberto G. L. Reyes Professorial Chair in Engineering | 130,000.00 |
| 15 | Focus Global Inc. | Focus Global Inc. Professorial Chair in Engineering | 130,000.00 |
| 16 | Francisco E. Lapid | UP ME Class 1980 Professorial Chair in Mechanical Engineering | 60,000.00 |
| 17 | Geotechnics Philippines, Inc. | Geotechnics Philippines, Inc. Professorial Chair in Civil Engineering | 130,000.00 |
| 18 | Globe Telecom, Inc. | Globe Telecom Inc. Professorial Chair in Electronics and Communications Engineering | 120,000.00 |
| 19 | Goodfire Stoves Corporation | Enrique Lee Laguinia Professorial Chair in Engineering | 130,000.00 |
| 20 | Houston Hydrotech Products & Systems, Inc | Cerlito San Juan and Family Professorial Chair in Engineering | 200,000.00 |
| 21 | Integrated Micro-Electronics, Inc. | Integrated Microelectronics Inc. Professorial Chair in Engineering | 274,371.00 |
| 22 | Jennifer Lynn Cua | Ernesto and Evelyn Cua Professorial Chair in Computer Science and Artificial Intelligence; and Teaching and Research Awards | 1,892,119.67 |
| 23 | Jose Edgar Manrique | Jose Edgar Manrique Professorial Chair in Industrial Engineering | 127,672.00 |
| 24 | Ma. Alessandra Katinka Yap Azurin | Cezar M. Azurin, Jr. Professorial Chair in Engineering | 4,011,826.00 |
| 25 | Ma. Aura Teodora Matias | Dr. Maria Aura Teodora C. Matias DIEOR Golden Jubilee Professorial Chair in Human Factors and Ergonomics | 260,000.00 |
| 26 | Ma. Aura Teodora Matias | Renato Bernales Matias DIEOR Golden Jubilee Professorial Chair in Human Factors and Ergonomics | |
| 27 | Maynilad Water Services | Maynilad Professorial Chairs in Engineering | 260,000.00 |
| 28 | Michael V. Gonzalez | Felix M. Gonzalez Prof Chair in Engineering | 190,000.00 |
| 29 | Multiflex RNC Phils. Corp. | Robert Cheng - Uratex Professorial Chairs in Engineering | 1,950,000.00 |
| 30 | Ople Family | Felicisimo V. Ople and Felicisimo S. Ople, Jr. Professorial Chair in Engineering | 4,229,880.00 |
| 31 | Orchards Of The Abba Corp. | The Abba's Orchard Professorial Chair in Mechanical Engineering | 120,000.00 |

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| 32 | Phinma Foundation, Inc. | Deans Professorial Chairs in Engineering | 650,000.00 |
| 33 | PLDT Smart Foundation, Inc. | PLDT-Smart Professorial Chair in Engineering | 130,000.00 |
| 34 | R.S. Ison & Associates / Ronaldo S. Ison | Ronaldo S. Ison Professorial Chair in Structural Engineering and Disaster Risk Management | 130,000.00 |
| 35 | Regina Coseteng | Edison Coseteng Professorial Chair in Electrical Engineering | 225,000.00 |
| 36 | Renato Bello | Antonio and Leticia R. Bello Professorial Chair in Industrial Engineering | 127,672.00 |
| 37 | Rosario S. Calderon | Quintin and Norma Calderon Professorial Chair in Civil Engineering | 123,700.00 |
| 38 | Rosehall Mngt Consultants, Inc. | Juan Jr. and Rosario Halili-Quintos Professorial Chair in Engineering | 130,000.00 |
| 39 | Segovia & Co., Inc. | Jose P. Segovia Professorial Chair in Engineering | 279,000.00 |
| 40 | Simon Sandoval | Concepcion Hidalgo Sandoval Memorial Foundation Professorial Chair in Engineering | 130,000.00 |
| 41 | Sycip Gorres Velayo & Co. | Cesar E.A. Virata Professorial Chair in Industrial Engineering | 2,500,000.00 |
| 42 | Vantageone Financing Corp. | Fernando N. Serifa Professorial Chair in Mechanical Engineering | 130,000.00 |
| Sub-Total for Faculty Support Program | | | 25,112,755.93 |
| STUDENT SUPPORT | | | |
| 43 | Abdon Laigo | Abdon and Lina Laigo Scholarship | 140,000.00 |
| 44 | Alvarez Foundation Philippines | Alvarez Foundation Scholarship | 292,000.00 |
| 45 | Angelito Bermudo | Beta Epsilon 1979 Thesis Support Grants | 5,000.00 |
| 46 | Augusto Lagman | Augusto and Teresita Lagman Scholarship | 1,000,000.00 |
| 47 | BA Foundation (Francis Chua) | Undergraduate Project Competition - Dr. Francis Chua Innovation Awards | 300,000.00 |
| 48 | Calsol Realty Corporation | Quintin K. Calderon Award for Excellence in Civil Engineering | 15,000.00 |
| 49 | Capitol Steel Corporation | Capitol Steel Corporation Scholarship | 200,000.00 |
| 50 | Cesar Romero | Cesar G. Romero Thesis Support Grants | 30,000.00 |
| 51 | Dr. Luis Pascual | Dr. Luis Pascual Scholarship | 543,940.00 |
| 52 | Editha Atienza | Dean Alfredo L. Juinio and Prof. Alfredo B. Juinio, Jr. Scholarship | 140,000.00 |
| 53 | Eisenpatt Industrial Engineering Services | Leocadio and Jocelyn M. Ostrea Thesis Support Grants | 50,000.00 |
| 54 | Emmanuel Manlapig | Prof. Emmanuel U. Manlapig Scholarship | 130,000.00 |
| 55 | Francis & Leah Felizardo | Francis and Leah Felizardo Thesis Support Grants | 50,000.00 |
| 56 | Francisco Legaspi | Beta Epsilon 1979 Thesis Support Grants | 5,000.00 |
| 57 | Frederick Contreras | Frederick Contreras Thesis Support Grants | 20,000.00 |
| 58 | GT Foundation, Inc. | GT Foundation Scholarship | 945,000.00 |
| 59 | Interplan Management Inc. | UPAABC Scholarship | 80,000.00 |
| 60 | J. Amado Araneta Foundation, Inc. | J. Amado Araneta Foundation Thesis Support Grants | 50,000.00 |
| 61 | Jaime & Elise Del Rosario | Jaime and Elise del Rosario Scholarship | 2,370,000.00 |
| 62 | James Dyson Foundation | James Dyson Foundation Bursary | 110,339.20 |
| 63 | JCV & Associates Project Manangement And Development, Inc. | JCVA Scholarship | 111,000.00 |
| 64 | Jennifer Lynn Cua | William Cua Study Grant; Joseph Que Sanchez Academic Excellence Award in Computer Engineering; Rosita Cua Academic Excellence Award for Best Female in Computer Engineering | 440,000.00 |
| 65 | Jim Angeles | Beta Epsilon 1979 Thesis Support Grants | 5,000.00 |
| 66 | Jose Albano | Jose and Fae Albano Scholarship | 526,872.82 |

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|--|--|--|----------------------|
| 67 | Kate Dario Delmendo | Abraham M. Dario, Jr. Scholarship | 1,401,271.00 |
| 68 | Ma. Alessandra Katinka Yap Azurin | Tinka Azurin Scholarship | 122,938.73 |
| 69 | Ma. Bella Javier | Ma. Bella Javier Scholarship | 70,000.00 |
| 70 | Maria Bella Tan | Maria Bella Tan Scholarship | 665,000.00 |
| 71 | Mario Magno | Carmen and Manuel Magno | 25,000.00 |
| 72 | Mary Rose Dela Cruz | Professor Emeritus Evangel Quiwa Award for Excellence in Computer Science | 50,000.00 |
| 73 | Megawide Corporate Foundation Inc. | Megawide Corporation Scholarship | 35,000.00 |
| 74 | Megaworld Foundation, Inc. | Megaworld Scholarship | 412,500.00 |
| 75 | Michael G. Manuel | Naomi P. Martin Scholarship | 140,000.00 |
| 76 | Michael V. Gonzalez | PayEngg Forward Scholarship | 240,000.00 |
| 77 | MRBII Construction | Manuel R. Bulaong, Jr. (MRBII) Thesis Support Grants | 100,000.00 |
| 78 | Multiflex RNC Phils. Corp. | Robert Cheng (URATEX) Scholarship | 376,000.00 |
| 79 | Olegario Villoria | Olegario G. Villoria, Jr. Thesis Support Grants | 88,736.50 |
| 80 | One Meralco Foundation, Inc. | MPowHer: Meralco Scholarship Program for Women Engineers | 250,000.00 |
| 81 | Pablo Yves L. Dumlaol Ii | Andoni and Norma Dumlaol Scholarship | 280,000.00 |
| 82 | Philsaga Mining Corp. | Philsaga Mining Corporation Scholarship | 397,120.00 |
| 83 | Ramon Castillo | Beta Epsilon 1979 Thesis Support Grants | 25,000.00 |
| 84 | Ricardo Rodriguez | Ricardo Rodriguez Thesis Support Grant | 10,000.00 |
| 85 | Richard Yang | Beta Epsilon 1979 Thesis Support Grants | 5,000.00 |
| 86 | Rowena Torres Ordonez | Rowena Torres-Ordoñez Thesis Support Grant; Professor Teodorico Festin Award for Excellence in Chemical Engineering; Jose C. Torres Award for Excellence in Electrical Engineering | 30,000.00 |
| 87 | Sherwin O | Sherwin O Thesis Support Grants | 20,000.00 |
| 88 | Trident Electronics Corporation | Trident Electronics Corporation Scholarship | 140,000.00 |
| 89 | UP Alumni Association Of British Columbia (UPAABC) | UPAABC Scholarship | 160,000.00 |
| 90 | UP Alumni In Minnesota | UPAM Scholarship | 54,380.00 |
| 91 | UP Industrial Engineering Alumni Association, Inc. | UPIEAA AchIEvers Program | 550,000.00 |
| 92 | Urvara Inc. | Enrique Lee Laguinia Scholarship | 210,000.00 |
| 93 | Victor Villagracia | Victor and Carol Villagracia Thesis Support Grants | 51,196.25 |
| Sub-Total for Student Support Program | | | 13,468,294.50 |
| INFRASTRUCTURE | | | |
| 94 | Dacon Corporation | Institute of Civil Engineering Geotechnical Laboratory Upgrade | 1,300,000.00 |
| 95 | Denis And Martha Carpio | UPCOE Computing Facility Upgrade and Department of Chemical Engineering Laboratories Upgrade | 6,000,000.00 |
| 96 | Dmci Holdings, Inc. | Engineering Software | 1,848,000.00 |
| 97 | Fluor Daniel, Inc. - Phils. | Department of Mechanical Engineering Collaboration Room | 2,094,273.00 |
| 98 | Magdaleno B. Albarracin Jr. | Institute of Civil Engineering Geotechnical Laboratory Upgrade | 5,000,000.00 |
| Sub-Total for Infrastructure Program | | | 16,242,273.00 |

| RESEARCH AND DEVELOPMENT | | | |
|--|-----------------------------------|---|----------------------|
| 99 | Craft Research Technologies, Inc. | STEALTH Project | 612,000.00 |
| 100 | The Murata Science Foundation | Murata Science and Education Foundation Research Grants | 1,123,568.40 |
| Sub-Total for R&D Program | | | 1,735,568.40 |
| INNOVATION AND STARTUPS | | | |
| 101 | Accenture., Inc. | Increasing University IP Generation | 2,800,000.00 |
| Sub-Total for Innovation And Startups Program | | | 2,800,000.00 |
| SPECIAL PROJECTS | | | |
| 100 | Rowena Torres Ordonez | STEM Project | 25,000.00 |
| Sub-Total for Special Projects | | | 25,000.00 |
| CO-MANAGED PROJECTS | | | |
| 101 | Adeline A. Pacia | UPIE Golden Pillars Project | 50,000.00 |
| 102 | Olegario Villoria | UPIE Golden Pillars Project | 100,000.00 |
| 103 | Roger Chua | UPAE Study Now Pay Later Program | 35,000.00 |
| Sub-Total for Co-Managed Projects | | | 185,000.00 |
| ADMINISTRATION | | | |
| 104 | Isidro Consunji | UPERDFI Administration | 7,000.00 |
| 105 | Magdaleno B. Albarracin Jr. | UPERDFI Administration | 7,000.00 |
| 106 | Miscellaneous Receipts | Cash Returned for COE-NEC Support | 62,637.18 |
| 107 | Miscellaneous Receipts | Anonymous Donations to UPERDFI | 285,000.00 |
| Sub-Total for Administration | | | 361,637.18 |
| Total Donations in 2024 | | | 59,930,529.01 |

ANNEX 2: LIST OF PROFESSORIAL CHAIR AWARDS (AY 2024-2025)

| Chair Name & Donor | Awardee (Dept/Inst) | Research Title |
|---|------------------------------------|--|
| CATEGORY 4 (P300,000) | | |
| 1 Alejandro Melchor Professorial Chair in Engineering Donor: Dr. Magdaleno B. Albarracin, Jr. and DMCI Holdings | Tanchuling, Maria Antonia N. (ICE) | Plastic Waste Flow Analysis and Monitoring of Plastic Leakage Reduction Interventions in Three Select Ports in the Philippines |
| CATEGORY 3 (P240,000) | | |
| 2 Analog Devices, Inc. Professorial Chair Donor: Analog Devices Gen. Trias, Inc. | Alarcon, Louis P. (EEEI) | MPPT-Controlled Adaptive Reconfigurable 5.8GHz RF Energy Harvesting Front-End in 65nm CMOS |
| 3 Dado & Maria Banatao Professorial Chair 01 Donor: Dado and Maria Banatao Institute | Cervera, Rinlee Butch M. (DMMME) | Direct Regeneration of NMC622 Cathode Material from Spent EV Li-Ion Batteries via Hydrothermal Relithiation |
| 4 Dado & Maria Banatao Professorial Chair 02 Donor: Dado and Maria Banatao Institute | Balela, Mary Donnabelle L. (DMMME) | Synthesis of Silver Nanoparticles in Psidium Guajava (Guava) Leaf Extract for Antibacterial Textiles |
| 5 Dado & Maria Banatao Professorial Chair 03 Donor: Dado and Maria Banatao Institute | Vasquez, Magdaleno Jr. R. (DMMME) | Synthesis of Silver-Decorated Titanium Dioxide Nanostructured Films for Enhanced Visible Light Photocatalysis |

| | | | |
|------------------------------|--|--|--|
| 6 | SMC Infrastructure Professorial Chair in Transportation Engineering Donor: San Miguel Corporation Infrastructure | Regidor, Jose Regin F. (ICE) | Implementation of Road Safety Interventions for Schools in the Philippines: Experiences and Challenges |
| CATEGORY 2 (P120,000) | | | |
| 7 | Alexan Professorial Chair in Engineering Donor: Ace Electronics Technology, Inc. (ALEXAN) | Ramos, Manuel Jr. C. (EEEI) | Segmented Soft Pneumatic Bending Actuator with Artificial Neural Network for Parameter Prediction |
| 8 | Ambrosio Magsaysay Professorial Chair in Engineering Donor: A. Magsaysay Corporation | Junio, Jessica M. (ICE) | Durability Assessment of Load-bearing Concrete Hollow Blocks with Gold Mine Tailings as a Partial Substitute for Sand |
| 9 | AMH Philippines Professorial Chair in Civil Engineering Donor: AMH Philippines, Inc. | Baniqued, Julius Rey D. (ICE) | A Comparative Study of Lower and Higher Fidelity Models for Soft Story Buildings |
| 10 | Angel A. Alejandrino Professorial Chair in Engineering Donor: NHRC and Marcelo Casillan, Jr. | Amolato, Rochie D. (ICE) | Assessment of the Performance of Existing Rainwater Harvesting Systems: A User Experience-Based Survey of Institutions in Metro Manila |
| 11 | Antonio and Leticia R. Bello Professorial Chair in Industrial Engineering Donor: Renato R. Bello | Ang, Ma. Rosario Concepcion O. (IEORD) | Analyzing the Relationship of Environmental, Social, and Governance (ESG) Risk Ratings to the Supply Chain Performance of Philippine Companies |
| 12 | Antonio G. Tan Giok Kun Professorial Chair in Civil Engineering Donor: ANTA Construction Corporation | Hernandez, Jaime Jr. Y. (ICE) | Determination of the Dynamic Properties of Cable-supported Bridges for Health Monitoring – Case of the Basket Handle Tied Steel Arch Binondo-Intramuros Bridge |
| 13 | Apex Mining Professorial Chair in Metallurgical Engineering Donor: Apex Mining Co., Inc. | Luiastro, Franco Danilo C. (DMMME) | Design, Simulation, and Fabrication of a Small-Scale Hydrocyclone for Bauxite Fines Removal |
| 14 | Apex Mining Professorial Chair in Mining Engineering Donor: Apex Mining Co., Inc. | Taaca, Kathrina Lois M. (DMMME) | Development of Chitosan-Acrylic Acid Based Hydrogels with Incorporated PANI and Plasma Treatment |
| 15 | Apolonio P. and Lorna L. Yson Professorial Chair in Chemical Engineering Donor: Apolonio and Lorna Llave Yson | De Leon, Rizalinda L. (DChE) | Renewable Energy-Powered Methane Production using LCES in Luzon, Philippines: A Techno-economic Study |
| 16 | Apolonio P. and Lorna L. Yson Professorial Chair in Mechanical Engineering Donor: Apolonio and Lorna Llave Yson" | Quiros, Edwin N. (DME) | Building a Prototype LPG Public Utility Vehicle for Philippine Public Transport |
| 17 | Ariston I. de los Reyes Engineering Centennial Professorial Chair Donor: MacArthur and Josefina de los Reyes" | Sarmiento, Czar Jakiri S. (DGE) | Modernizing Geodetic Control Classifications in Philippine Land Surveys |
| 18 | Atty. Raul C. Villanueva Professorial Chair in Engineering Donor: Philsaga Mining Corporation" | Tomacruz, Jan Goran T. (DChE) | Machine Learning Approach for Pump Price Prediction for the Philippines Post COVID-19 Pandemic and Amidst Russia-Ukraine Conflict |
| 19 | Beatriz Basa-Altura Professorial Chair in Civil Engineering Donor: Claudio B. Altura(+) | Quinay, Pher Errol B. (ICE) | Parametric Calibration of Nonlinear Multi-degree-of-freedom Flexure-Shear Model for Time History Analysis |
| 20 | Beta Epsilon Professorial Chair in Engineering Donor: Beta Epsilon Fraternity | Acacio, Alexis Philip A. (ICE) | Integration of Project Management Processes to Geotechnical Investigation Work in Improving Project Performance |
| 21 | Cerlito San Juan and Family Professorial Chair in Engineering Donor: Cerlito San Juan and Family / Houston Hydrotech Products and Systems, Inc. | Garcia, John Carlo S. (DME) | Circuitry Optimization Using Genetic Programming for the Advancement of Next Generation Refrigerants |
| 22 | Cesar A. Buenaventura Professorial Chair in Engineering Donor: Pilipinas Shell Petroleum Corporation | Ocon, Joey D. (DChE) | Renewable Energy in 208 Island Micro-Grids in the Philippines |
| 23 | Cesar A. Buenaventura UP Centennial Professorial Chair Donor: Pilipinas Shell Petroleum Corporation | Festin, Cedric Angelo P. (DCS) | Leveraging Artificial Intelligence for the Analyses of Opinion Surveys |
| 24 | Cesar E.A. Virata Professorial Chair in Industrial Engineering Donor: Cesar E. A. Virata and SGV | Lagria, Raymond Freth A. (IEORD) | The Development of CrisisPulse: A Text-based Extraction System for Microblogs |
| 25 | Cezar M. Azurin, Jr. Professorial Chair in Engineering Donor: Maria Alessandra Katinka Yap Azurin | Vergara, Karl Adrian P. (DGE) | Revealing Urban Landscapes through Human Perception Mapping using Street-View Imagery and Machine Learning in Metro Manila |
| 26 | Chua Liong and Loreta Dy Chua Professorial Chair in Engineering Donor: Chua Liong and Loreta Dy Chua | Baynosa, Marjorie L. (DChE) | Solar light-active S-scheme TiO ₂ /In ₂ S ₃ heterojunction photocatalyst for organic pollutants degradation |
| 27 | Ciriaco Corporation Professorial Chair in Civil Engineering Donor: Ciriaco Corporation | Claridades, Alexis Richard C. (DGE) | Developing a Data Model for an Omnidirectional Image-Based Multi-Scale Representation of Space |

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|----|--|--------------------------------------|--|
| 28 | Concepcion Hidalgo Sandoval Memorial Foundation Professorial Chair in Engineering Donor: Concepcion Hidalgo Sandoval Memorial Foundation | Cajote, Rhandley D. (EEEI) | Development of a dataset for Human Intent Prediction Traffic Flow Rate Measurement |
| 29 | David M. Consunji Professorial Chair in Engineering Donor: DMCI Holdings, Inc. | Palmiano, Hilario Sean O. (ICE) | A Review of the Philippine Visual Condition Index by Experts Validation |
| 30 | David Y. Tan Professorial Chair in Geotechnical Engineering Donor: Brian B. Tan Engineering Consultancy Services, Inc. | Zarco, Mark Albert H. (ICE) | A Generalized Solution to the Coulomb Active Earth Pressure Problem |
| 31 | DCCD Engineering Corporation Professorial Chair in Engineering Donor: DCCD Engineering Corporation | Gaspay, Sandy Mae A. (ICE) | Evaluation of Air Quality and Thermal Comfort at EDSA Busway Stations |
| 32 | Dean Alfredo L. Juinio Professorial Chair in Civil Engineering Donor: A. L. Juinio Family and Friends | Antonio, Oscar Victor Jr. M. (ICE) | Effects of Elevated Temperatures to High Strength Concrete with Nanosilica |
| 33 | Dean Francisco L. Viray Professorial Chair in Engineering Donor: Dr. Magdalena B. Albarracin, Jr. | Tria, Lew Andrew P. (EEEI) | Techno-Economic Study of a Solar Fast Charging Station for a Local Public E-Trike Fleet |
| 34 | Dean Juan L. Tiongson Professorial Chair in Engineering Donor: Dr. Magdalena B. Albarracin, Jr. | Feria, Rommel P. (DCS) | Developing a Web-based Tool for Detecting Deceptive Designs in Cookie Banners |
| 35 | Dean Marino Mena Professorial Chair in Engineering Donor: PHINMA Foundation | Aberilla, Jhud Mikhail O. (DChE) | Environmental assessment of extended producer responsibility programs for plastic sachets |
| 36 | Dean Oscar P. Baguio Professorial Chair in Engineering Donor: Dr. Magdalena B. Albarracin, Jr. | Magdaluyo, Eduardo Jr. R. (DMMME) | Effect of radiation-induced graft polymerization (RIGP) onto pineapple nonwoven fabric (PNWF) reinforced polymer composite |
| 37 | Dean Reynaldo B. Veja Professorial Chair in Engineering Donor: Dr. Magdalena B. Albarracin, Jr. | Villar, John Justine (DCS) | Utilizing GIS Technology for Updating and Maintaining Port-to-Port Distances in the Philippine Maritime Sector |
| 38 | Dean Ruben A. Garcia Professorial Chair in Engineering Donor: Dr. Magdalena B. Albarracin, Jr. | Sison, Luis G. (EEEI) | Assessing and Improving the Innovation and Technopreneurship Curricula in Engineering Brainstem Response among Normal-hearing Adults |
| 39 | Diliman Integrative Technical Consultancy, Inc. (DITCI) Professorial Chair in Engineering Donor: Diliman Integrative Technical Consultancy, Inc. (DITCI) | Jalao, Eugene Rex L. (IEORD) | Mobile Application Selection through Text Mining, Sentiment Analysis and AHP |
| 40 | DMCI Project Developers Professorial Chair in Engineering (1) Donor: DMCI Project Developers | Geramar, Fernando J. (ICE) | Considerations in the Formulation of Guidelines on Seismic Retrofit of Low-Rise to Mid-rise Concrete Structures |
| 41 | DMCI Project Developers Professorial Chair in Engineering (2) Donor: DMCI Project Developers | Tingatinga, Eric Augustus J. (ICE) | Towards the Analysis and Design of Low-Rise Reinforced Concrete Buildings Using Machine Learning |
| 42 | DMCI Project Developers Professorial Chair in Engineering (3) Donor: DMCI Project Developers | Orozco, Christian R. (ICE) | Environmental Sustainability Assessment of Utilizing Fly Ash and Slag in Mass Concrete Using Endpoint Analysis: Impacts of Import and Long Distance Land Transport |
| 43 | Dominador Ilio Engineering Centennial Professorial Chair Donor: MacArthur and Josefina de los Reyes | Tan, Liezl Raissa E. (ICE) | Cost-Benefit Evaluation of Building Strengthening Schemes against Severe Wind Applied to Philippine Public School Buildings |
| 44 | Domingo Toledo Professorial Chair in Engineering Donor: Domingo Toledo Family / Peoples Asia Construction Corp. | Bernardo, Neil Irwin M. (EEEI) | Learning Channel Codes from Data: Performance Guarantees in the Finite Blocklength Regime |
| 45 | Don Benito Yao Metallurgical Engineering Centennial Professorial Chair Donor: SteelAsia Foundation | Ejera, Stan Kristian G. (DMMME) | An Optimization Study on the Synthesis of Cu-10Sn Alloy via Powder Metallurgy |
| 46 | Don Felipe Say and Theresa Chua Say Professorial Chair in Engineering Donor: Don Felipe Say and Theresa Chua Say | Ballesteros, Florencio Jr. C. (DChE) | Bayesian-Optimized Neural Networks and Ensemble Models for Enhanced BOD Prediction in a Full-Scale Sequential Batch Reactor Plant |
| 47 | Dr. Leonardo Q. Liangson Professorial Chair in Hydro Engineering Donor: UPERDFI and Victor N. Villagracia | Soriano, Roberto S. (ICE) | Sustainability of Groundwater Resources in Metro Manila |
| 48 | Dr. Magdalena B. Albarracin Jr. UP Centennial Professorial Chair in Engineering Donor: AB Capital / Union Galvasteel/ Bacnotan Consolidated/ Phinma/ Transasia Oil & Energy/ Phinma Property Holdings | Tumulva, Terence P. (DChE) | Sorption Kinetics Modelling of a HEC Hydrogel Film for Wound Dressing Applications |

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| 49 | Dr. Maria Aura Teodora C. Matias DIEOR Golden Jubilee Professorial Chair in Human Factors and Ergonomics Donor: Dr. Maria Aura Teodora C. Matias | Custodio, Benette P. (IEORD) | Identification of User Needs in a University Mental Health App |
| 50 | Dr. Mariano P. Ramiro Professorial Chair for Materials Engineering Donor: Atty. Ma. Elena C. Ramiro | Dela Peña, Eden May B. (DMMME) | Surface Modification of Commercially Pure Titanium using Plasma Electrolytic Oxidation Technique |
| 51 | Dr. Olegario G. Villoria, Jr. Professorial Chair in Transportation and Logistics Donor: Dr. Olegario G. Villoria, Jr. | Llaguno, Erickson L. (IEORD) | Determining the Factors Affecting the Environmental Aspect of Performance of Firms into Large-Scale Metallic Mining in the Philippines |
| 52 | Dr. Salvador F. Reyes Professorial Chair in Geotechnical Engineering Donor: Philippine Society for Soil Mechanics and Geotechnical Engineering | Victor, Jaime Angelo S. (ICE) | Development of Fragility Curves for Rainfall-Induced Landslide (RIL) Damage Analysis: A Case Study in Baguio City, Philippines |
| 53 | Edgardo S. Pacheco Professorial Chair in Engineering Donor: PHINMA Foundation | Gonzales, Arthur III A. (DChE) | In Silico Investigation on the Molecular Behavior and Structural Stability of the Rosette Nanotubes as the Drug Vehicles for Paclitaxel, an Anti-Cancer Drug |
| 54 | Edison Coseteng Professorial Chair in Electrical Engineering Donor: MMI Holdings, Inc. | Dalisay, Jon Dewitt E. (DME) | Impulse Response of Internally Damaged 3D-Printed Beams with Honeycomb Infill |
| 55 | Elzar Lorenzana Simon DIEOR Golden Jubilee Professorial Chair in Artificial Intelligence Donor: Mr. Elzar L. Simon | Remolona, Miguel Francisco M. (DChE) | ChemVATS: Chemical Variational Autoencoders Using Transformers for SELFIES |
| 56 | Enrique Lee Laguinia Professorial Chair in Engineering Donor: Goodfire Stoves Corporation | Atienza, Rowel O. (EEEI) | Improving Open-Vocabulary Object Detection in a Vision Language Model |
| 57 | Ernesto and Evelyn Cua Professorial Chair in Computer Science and Artificial Intelligence Donor: Ms. Jennifer Lynn Cua | Figueroa, Ligaya Leah L. (DCS) | Quantifying the Relationship of Tree Quantity to PM10 Concentrations: a Case Study for Urban Areas in Tropical Climates |
| 58 | Federico E. Puno Professorial Chair in Engineering (A) Donor: Semirara Mining and Power Corp. | Futalan, Cybelle Concepcion M. (ICE) | Arsenate removal using chitosan-coated bentonite via fixed-bed system: A process integration by fuzzy optimization |
| 59 | Federico E. Puno Professorial Chair in Engineering (B) Donor: Semirara Mining and Power Corp. | Ordanel, Ivy D. (DCS) | Parameterized Algorithm for the Poset Cover Problem |
| 60 | Felicisimo V. Ople and Felicisimo S. Ople, Jr. Professorial Chair in Engineering Donor: Ms. Jean Maniquis Ople and Family | Encarnacion, Job Immanuel B. (DME) | Techno-economic Assessment of Floating Offshore Wind Energy in the Philippines |
| 61 | Felix M. Gonzalez Prof Chair in Engineering Donor: Mr. Michael V. Gonzalez | Naval, Prospero Jr. C. (DCS) | Beyond Canonical Fine-tuning: Leveraging Hybrid Multi-Layer Pooled Representations of BERT for Automated Essay Scoring |
| 62 | Fernando N. Serriña Professorial Chair in Mechanical Engineering Donor: Carmen V.F. Serriña / VantageOne Financing Corporation | Denoga, Gerald Jo C. (DME) | Low Hanging Fruits: The Value of Developing Commercializable Products |
| 63 | FF Cruz Professorial Chair in Geodetic Engineering Donor: F.F. Cruz & Co., Inc. | Principe, Jeark A. (DGE) | Modeling and Assessment of Solar Farm Expansion Using RS, GIS and Machine Learning Techniques: Case of Tarlac Province, Philippines |
| 64 | Filadelfo Panlilio Professorial Chair in Engineering Donor: PHINMA Foundation | Jeremias, Jayson Sime D. (DChE) | Copper recovery from treatment of simulated copper-iron wastewater using fluidized bed homogeneous crystallization reactor |
| 65 | Filemon Rodriguez Professorial Chair in Computer Science Donor: PHINMA Foundation | Festin, Susan M. (DCS) | Deepfake Detection Models and Adversarial Attacks |
| 66 | Filminera Professorial Chair in Mining Engineering Donor: Filminera Mining Corporation | Tungpalan, Djoan Kate T. (DMMME) | Removal of Arsenic from Copper-Arsenic Ores |
| 67 | Focus Global Inc. Professorial Chair in Engineering Donor: Focus Global Inc. | Ang Dy Pay, Georgiana L. (DGE) | Assessing the Regional Variability in the Implementation of the IVAS Process for Land Survey Verification in the Philippines |
| 68 | Fortunato T. de la Peña Professorial Chair for Productivity Engineering Donor: Mr. Renato M. Tanseco | Martinez, Iris Ann G. (IEORD) | Optimization of Online Teaching through Data Analytics and Direct Participant Observation |
| 69 | Geotechnics Philippines, Inc. Professorial Chair in Civil Engineering Donor: Geotechnics Philippines, Inc. | Alcantara, Matthew Travis M. (ICE) | Lattice-shaped Ground Improvement Structure by Deep Soil Mixing (DSM) as a Mechanism for Settlement Reduction |
| 70 | Globe Telecom Inc. Professorial Chair in Electronics and Communications Engineering Donor: Globe Telecom Inc. | Pedrasa, Jhoanna Rhodette I. (EEEI) | Mobile Application for Remote Monitoring of Peripheral Edema |

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| 71 | H.B. Reyes Mechanical Engineering Centennial Professorial Chair Donor: Ms. Filomena Reyes-Carlos and Mr. Meneleo Carlos, Jr. | Abuan, Binoe E. (DME) | Effects of Skewed Wind on the Performance of Horizontal Axis Wind Turbine |
| 72 | Integrated Microelectronics Inc. Professorial Chair in Engineering Donor: Integrated Microelectronics, Inc. | Diaz, Leslie Joy L. (DMMME) | A Correlation Between Tensile and Rheometric Tests in the Investigation of the Reinforcing Potential of Alternative Carbon and Silica Fillers in Rubber Compounds |
| 73 | Jerome and Mary Iralyn Cainglet Professorial Chair in Chemical Engineering Donor: Jerome and Iralyn Cainglet | Paraggua, Julie Anne D. (DChE) | Energy, power, and cost optimization of a sodium-ion battery pack via a combined physics-based and cost modeling approach |
| 74 | Jesus Francisco Professorial Chair in Energy and Railways Donor: Jesus P. Francisco (+) and Ms. Mariel N. Francisco | Berana, Menandro S. (DME) | Performance of Parabolic Contour Nozzles in R600a Heat-Driven Ejector Refrigeration Systems |
| 75 | Jorge M. Consunji Professorial Chair in Engineering Donor: DMCI Holdings, Inc. | Mabaquiao, Luis Carlos S. (DGE) | Ground Deformation Monitoring of Reclaimed Lands along Manila Bay Freeport Zone Using PS-InSAR Technique |
| 76 | Jose Edgar Manrique Professorial Chair in Industrial Engineering Donor: Mr. Jose Edgar Manrique | Soriano, Virginia J. (IEORD) | Healthcare Facilities Management: Determining strategies for improving sustainability through a continuous improvement approach |
| 77 | Jose P. Segovia Professorial Chair in Engineering Donor: Segovia & Co. | Hizon, John Richard E. (EEEE) | FPGA-targeted optimization approaches for SVM and CNN human activity recognition models using the HARTH and HAR70+ datasets |
| 78 | Juan Jr. and Rosario Halili-Quintos Professorial Chair in Engineering Donor: Rosehall Management Consultants, Inc. | Clemente, Jhoirene B. (DCS) | Empirical Competitive Analysis for the Online Assignment Problem with ML Predictions |
| 79 | Lagman Family Professorial Chair in Engineering Donor: Augusto C. Lagman | Alamani, Bryan G. (DChE) | Characterization and Bioenergy Potential Analysis of Queen Pineapple Waste for Solid Fuel Production via Torrefaction in Camarines Norte, Bicol Region |
| 80 | Leopoldo V. Abis Professorial Chair in Mechanical Engineering Donor: Ms. Lilia Abis and Friends | Reyes, Joseph Gerard T. (DME) | The Need for the Establishment of a Facilities Management Program in the University of the Philippines |
| 81 | Longridge Construction, Inc. Professorial Chair in Civil Enngineering Donor: Longridge Construction, Inc. | Sadie, Noriza T. (ICE) | Evaluation of Construction and Demolition Waste Management Practices Towards Achieving the UN SDGs Using BWM and Fuzzy-TOPSIS |
| 82 | MacArthur and Josefina de los Reyes Engineering Centennial Professorial Chair in Electrical Engineering Donor: MacArthur and Josefina de los Reyes | Alvarez, Anastacia B. (EEEE) | A Hyperdimensional Computing Architecture with 4.4x Energy Efficiency in 65nm CMOS |
| 83 | Mantaring-Gervasio Professorial Chair in Engineering Donor: Mr. Rafael Nestor and Ms. Rizalina Gervasio-Mantaring | De Leon, Maria Theresa G. (EEEE) | Comparative Modeling of Four-Ended, Modified Four-Ended, and Double-Ended Beam MEMS Thermopile Sensor Structures for Functional Area Optimization |
| 84 | Manuel M. Lopez UP Centennial Professorial Chair in Engineering Donor: Meralco Millenium Foundation, Inc. | Rosales, Marc D. (EEEE) | 10 Gb/s Energy-efficient Optical Transceiver using 1060 nm HCG MEMS-tunable VCSEL in 28nm FD-SOI Technology |
| 85 | Manuel V. Pangilinan Professorial Chair in Engineering Donor: Manuel V. Pangilinan | Valdez, Adrian Roy L. (DCS) | Development of a Suite of ICT tools for Road Safety |
| 86 | Maynilad Professorial Chair in Engineering (1) Donor: Maynilad Water Services, Inc. | Diola, Ma. Brida Lea D. (ICE) | Assessing the Performance and Environmental Impacts of an Electric Plastic Densifier as a Waste Utilization Technology in the Philippines |
| 87 | Maynilad Professorial Chair in Engineering (2) Donor: Maynilad Water Services, Inc. | Yap, Kristian July C. (DChE) | Synthesis and characterization of phosphorylated nata de coco as a potential polymer gel electrolyte (PGE): Effect of thermal treatments and phosphoric acid concentration |
| 88 | Maynilad Professorial Chair in Engineering (3) Donor: Maynilad Water Services, Inc. | Resurreccion, Augustus C. (ICE) | Removal of Ammonia, Nitrite, Nitrate, and Phosphate from Domestic Wastewater Using Granulated Coal Ash in a Pilot-Scale Column |
| 89 | Maynilad UP Centennial Professorial Chair in Engineering Donor: AA Alarilla Const/CM. Pancho Const/DMCI/ JV Angeles | Herrera, Eugene C. (ICE) | Integrating Environmental Justice into Resource-use and Flood Risk Management of Metro Manila: Assessment and Guiding Principles |
| 90 | Meneleo G. Carlos Sr. Electrical Engineering Centennial Professorial Chair Donor: Mr. Meneleo Carlos, Jr. and Ms. Filomena Reyes Carlos | Austria, Isabel M. (EEEE) | CCTV on Steroids: The Design and Implementation of BantAI, a Robbery Prediction System for Edge Devices |

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| 91 | Meralco Professorial Chair in Engineering Donor: Meralco | Pedrasa, Michael Angelo A. (EEEE) | Detecting and Localizing Electricity Pilferage using Deep Neural Networks in a Low Voltage Distribution Network with both Smart and Traditional Meters |
| 92 | NTT Professorial Chair in Engineering Donor: NTT | Odulio, Carl Michael F. (EEEE) | Optimal Lithium-Ion Battery Sizing for a Solar PV-Powered Hybrid Water/CO ₂ Electrolyzer System |
| 93 | Oscar M. Lopez Professorial Chair in Environmental Engineering Donor: Pilipinas Shell Petroleum Corporation | Rollon, Analiza P. (DChE) | Domestic Wastewater Treatment via Anaerobic, Aerobic and Anoxic Processes in Fed-Batch Bioreactor Mode |
| 94 | Pablito R. Hao Chua Professorial Chair in Chemical Engineering Donor: Borland Development Corporation | Perez, Jem Valerie D. (DChE) | Fabrication of Paper-Based Silver Nanoparticle (AgNP) Sensors for Smartphone-Based Colorimetric Detection of Cu (II) in Water |
| 95 | Pablito R. Hao Chua Professorial Chair in Materials Engineering Donor: Borland Development Corporation | Rosete, Maricar M. (DMMME) | Enhanced electrophoretic deposition and heat treatment study of MgB ₂ superconducting coatings from iodine-stabilized colloidal precursors |
| 96 | PetroEnergy Resources Prof Chair in Energy Engineering Donor: PetroEnergy Resources Corporation | Orillaza, Jordan Rel C. (EEEE) | Analysis of Secondary Price Cap in the Philippine Wholesale Electricity Spot Market |
| 97 | PHINMA Foundation Professorial Chair in Engineering Donor: PHINMA Foundation | Yap, Jan Michael R. (DCS) | On Developing An Information Infrastructure for Cultivating Bioinformatics Research and Education in the Philippines |
| 98 | PLDT-Smart Professorial Chair in Engineering Donor: PLDT-Smart Foundation, Inc. | de Guzman, Jaybie A. (EEEE) | Offline Collaboration Tool utilizing WebRTC in Ad Hoc Peer-to-Peer Networks |
| 99 | Prof. Alfredo B. Juinio, Jr. Professorial Chair in Civil Engineering Donor: Erlina Juinio and Family | Bronuela-Ambrocio, Lea B. (ICE) | Assessment of Longitudinal Pavement Marking Conditions Based on Deep Learning |
| 100 | Prof. Dominador Ilio Professorial Chair in Engineering Donor: Beta Epsilon Fraternity | Soriano, Jaymar B. (DCS) | Augmenting ESM-based Mental Health Assessment using Affective Ising Model |
| 101 | Prof. Emmanuel U. Pornillos Professorial Chair in Mining Engineering Donor: Prof. Emmanuel U. Pornillos | Mercado, Candy C. (DMMME) | Comparative Study of Analytical vs Artificial Intelligence Image Analysis Software Using Chitosan and Gold Microparticles |
| 102 | Prof. Felisberto G. L. Reyes Professorial Chair in Engineering Donor: Mrs. Felicidad Zafra-Reyes | Carcellar, Bienvenido III G. (DGE) | Spatiotemporal Correlation of Traffic Accidents and Traffic Congestion Along Commonwealth Avenue Suing Crowdsourced Waze Traffic Data |
| 103 | Quintin and Norma Calderon Professorial Chair in Civil Engineering Donor: Ms. Rosario S. Calderon and Brenton Calderon Marrelli | Vergel, Karl B.N. (ICE) | Operational Characteristics of the UP Ikot Route |
| 104 | Reciñas-Simon Professorial Chair in Engineering Donor: Mr. and Mrs Dave and Corinne Reciñas-Simon | Adolacion, Jay R T. (DChE) | A novel plaque count assay for bacteriophage enumeration |
| 105 | Renato Bernales Matias Professorial Chair in Human Factors and Ergonomics Donor: Dr. Maria Aura Teodora C. Matias | Grepo-Jalao, Lorelie C. (IEORD) | IE students' coping mechanisms in different learning modes: Qualitative Study on remote and hybrid setup |
| 106 | Renato M. Tanseco Professorial Chair in Mechanical Engineering Donor: Automated Technology Philippines, Inc. | Balbarona, Juvy A. (DME) | Effect of Surface Roughness on Pool Boiling |
| 107 | Robert Cheng - Uratex Professorial Chair in Engineering (1) Donor: Multiflex RNC Corporation (Uratex) | Macapinlac, Oliver T. (DGE) | VerticalParcels: Leveraging PostGIS for Efficient Multi-level Cadastral Data Management |
| 108 | Robert Cheng - Uratex Professorial Chair in Engineering (2) Donor: Multiflex RNC Corporation (Uratex) | Juayong, Richelle Ann B. (DCS) | Metrocycle: Designing a Browser-based Road Safety Education App for Motorcycle and Bicycle Riders in Metro Manila, Philippines |
| 109 | Robert Cheng - Uratex Professorial Chair in Engineering (3) Donor: Multiflex RNC Corporation (Uratex) | Regonia, Paul Rossener (DCS) | Understanding the Performance of (Ni Fe Co Ce)Ox-based Water Oxidation Catalysts via Explainable Artificial Intelligence Framework |
| 110 | Roger Murga Professorial Chair in Engineering Donor: Phinma Foundation, Murga Family, Semirara Mining and Power Corporation and Magdaleno B. Albarracin, Jr. | Reyes, Rosalie B. (DGE) | Coherence and Intensity Statistical Mapping of Earthquake Affected Areas using Sentinel-1 Images |
| 111 | Ronaldo S. Ison Professorial Chair in Structural Engineering and Disaster Risk Management Donor: Ronaldo S. Ison | Sadie, Homer T. (ICE) | Risks and Issues of Railway Transportation Projects during different Construction Phases in Metro Manila |
| 112 | San Roque Power Corporation Professorial Chair in Computer Science Donor: San Roque Power Corporation | Tan, Wilson M. (DCS) | Hotspotter: An Incentivized Crowdsensing System for WiFi and Cellular Network Coverage Visualization |

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| 113 | Semirara Mining Corporation Professorial Chair in Computer Science Donor: Semirara Mining and Power Corporation | Adorna, Henry N. (DCS) | Matrix Representation of Virus Machines |
| 114 | Semirara Mining Corporation Professorial Chair in Engineering Donor: Semirara Mining and Power Corporation | Oyales, Mitch-Irene Kate G. (DMMME) | Valorization of End-of-Life Tires through Potassium Hydroxide Pyrolysis for Rubber Composites |
| 115 | Semirara Mining Corporation Professorial Chair in Hydraulics Donor: Semirara Mining and Power Corporation | Bautista, Dominic M. (ICE) | Numerical Investigation of the Effects of the Tacloban City Causeway Project on the HydroDynamics of Cancabato Bay |
| 116 | Semirara Mining Corporation Professorial Chair in Mining Engineering Donor: Semirara Mining and Power Corporation | Arranz, Christian G. (DMMME) | Can Generative AI Models Outperform Mining Engineering Students in Answering Multiple-Choice Assessments? |
| 117 | SR Metals Professorial Chair in Engineering Donor: SR Metals | Espiritu, Richard D.V. (DMMME) | Dimensionally stable cellulose acetate-chitosan semi-interpenetrating polymer network as fuel cell anion exchange membrane |
| 118 | Stephen D. Sy Professorial Chair in Engineering Donor: Stephen D. Sy | Tamondong, Ayin M. (DGE) | Building Capacity for Sustainable Management of Blue Carbon Ecosystems: Integrating Remote Sensing and Stakeholder Engagement in Seagrass and Mangrove Conservation |
| 119 | Sy Ling Chat Professorial Chair in Engineering Donor: Alex Sy Sun Eng and Benjamin Sy | Co, Paul Jason R. (EEEE) | Indoor Localization System based on mmWave Radar |
| 120 | Team Energy Professorial Chair in Energy Engineering Donor: Team Energy Foundation | Tio, Adonis Emmanuel DC (EEEE) | Effect of Check Meter Quantity on Theft Detection in Distribution Networks with Rooftop PV and Net Metering |
| 121 | The Abba's Orchard Professorial Chair in Mechanical Engineering Donor: Orchards of the Abba Corporation | Danao, Louis Angelo M. (DME) | Effect of Thin-walled Diffuser Geometries for Performance Improvement of a Vertical Diffuser-Augmented Wind Turbine |
| 122 | UP Alumni Engineers Professorial Chair in Engineering Donor: UP Alumni Engineers, Inc. | Zuñiga, Philip Christian C. (DCS) | Impact of Demographic Shifts and Geographical Bailwicks in Modeling future Presidential Elections |
| 123 | UP KEM Global - Dr. Luz Salonga Professorial Chair in Chemical Engineering Donor: UP KEM Global and Alex Sy Sun Eng | Tamargo, Ramuel John I. (DChE) | Synthesis of iron-loaded MFI-type aluminosilicates using Philippine natural zeolites for potential industrial applications |
| 124 | UP ME Class 1980 Professorial Chair in Mechanical Engineering Donor: UP ME Class 1980 | Lustro, Julius Rhoan T. (DME) | CFD Analysis of the Effects of Opening of Doors on the Carbon Dioxide Concentration in Public Utility Buses |
| 125 | UPAE Engineering Centennial Professorial Chair Donor: UP Alumni Engineers, Inc. | Caro, Jaime D.L. (DCS) | A Hybrid Deep Learning Approach for Brain Tumor Classification |
| CATEGORY 1 (₱80,000) | | | |
| 126 | Armena-Estuar Professorial Chair in Engineering Donor: Bernardo Armena and Fiorello Estuar | Montealegre, Charlimagne M. (DChE) | Effect of Blumea balsamifera Extract on the Morphology and Nucleation of Calcium Oxalate Crystals in Artificial Urine |
| 127 | Benguet Corporation Professorial Chair in Engineering Donor: Benguet Corporation | Babaan, Jennieveive B. (DGE) | Geospatial artificial intelligence for estimating daytime and nighttime nitrogen dioxide concentration variations in Taiwan: A spatial prediction model |
| 128 | Benguet Management Corporation Professorial Chair in Engineering Donor: Benguet Management Corporation | Labao, Alfonso B. (DCS) | Survivable Network Design with Constrained b and w-Subgraph Flows |
| 129 | Cristy R. Hernandez Professorial Chair in Engineering Donor: Cristy Hernandez Family | Galeon, Florence A. (DGE) | Right of Way Acquisition Using Geospatial Technologies |
| 130 | Hydro Resources Contractors Corporation Professorial Chair in Engineering Donor: Hydro Resources Contractors Corporation | Raguindin, Ricky Kristan M. (DMMME) | Cupric Ion-Selective Substitutional Binary System Doping of Extracted Hydroxyapatite |
| 131 | Jesus Ferrer Professorial Chair in Engineering Donor: Jesus Ferrer | Resurreccion, Joanna Z. (IEORD) | A Multi-source Renewable Energy Evaluation of the Philippine Energy Transition Using Economic Input-output Modelling |
| 132 | Jose Ma. Diago De Castro Professorial Chair in Engineering Donor: Jose Ma. Diago De Castro Family | Candelaria, Ma. Doreen E. (ICE) | Assessment of Reinforced Concrete Bond Strength with Induced Corrosion using Son-Reb (Sonic Rebound) Test |
| 133 | Marubeni UP Centennial Professorial Chair in Engineering Donor: Marubeni Philippines Corporation | Addawe, Jozelle C. (DCS) | ARsenic: Designing a Gamified Augmented Reality Supplement for Grade School Physics |
| 134 | MIESCOR - Cesar Nuguid Professorial Chair in Engineering Donor: MIESCOR | Gabud, Roselyn S. (DCS) | A Hybrid of Rule-based and Transformer-based Approaches for Relation Extraction in Biodiversity Literature |

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| 135 | Pozzolanic Philippines, Inc. Professorial Chair in Engineering Donor: Pozzolanic Philippines, Inc. | Solamo, Ma. Rowena C. (DCS) | Findings on UI Redesign of a Local Government Website in the Philippines using Personas |
| 136 | Quezon Power Professorial Chair in Engineering Donor: Quezon Power Philippines | Villena, Pierre Allan C. (IEORD) | Monitoring Inventory Turnover through a Web-based Dashboard in Retail |
| 137 | Tomas Padilla Abello Professorial Chair in Mechanical Engineering Donor: Tomas Abello Family | Arocena, Virgel M. (DME) | Improving the Modeling of Pressure Pulsation and Cavitation Prediction in a Double-Volute Double-Suction Pump Using Mosaic Meshing Technology |
| 138 | UP Industrial Engineering Alumni Association Professorial Chair in Industrial Engineering Donor: UP IE Alumni Association, Inc. | Sonday, Carlo Angelo A. (IEORD) | UPD Online Catalogue System: Improving Information Dissemination and Course Information Management |

ANNEX 3: LIST OF TEACHING AND RESEARCH AWARDS (AY 2024-2025)

| | Awardee (Dept/Inst) | Research Title |
|----|--|---|
| 1 | Agua, Olivia Francesca B. (DChE) | Molecular Docking Studies of 3-thioindoles as Anti-HER2 for Breast Cancer Management |
| 2 | Ambatali, Charleston Dale M. (EEEI) | Experimental Validation of the Dynamics of the Both-Sides Retrodirective Antenna Array System |
| 3 | Cabanlig, Francesca Valerie T. (DMMME) | Investigation of Continuous Fixed-Bed Column Adsorption Simulation Using Comsol Multiphysics for the Removal of Arsenic From Mine Wastewater Using Goethite |
| 4 | Chua, Adelson N. (EEEI) | SPIRIT: A Seizure Prediction SoC with a 17.2nJ/cis Unsupervised Online-Learning Classifier and Zoom Analog Frontends |
| 5 | Colegio, Karlo Daniel Q. (ICE) | Investigation of Bamboo (Bambusa Blumeana)-Reinforced Load-Bearing Wall Panels Utilizing Expanded Perlite Aggregate (EPA) |
| 6 | Cruz, Gil Jr. G. (ICE) | From Grey to Green: Integrating Green Infrastructures to Urbanizing Cities for Sustainable Stormwater Management |
| 7 | Cruz, Marquax Angelica A. (DGE) | Comparison of Image Classification Algorithms for Seagrass Mapping Using High-Resolution Images |
| 8 | Elazegui, Erica Erin E. (DGE) | Comparing Physical and Digital Spatial Weights using Spatial Autoregressive Model t-test and Bootstrapping |
| 9 | Fernandez, Ken Bryan A. (DME) | Air quality, thermal comfort, and energy in an office room with A/C and personalized ventilation |
| 10 | Fibra, Albert Jr. V. (DME) | Developing an Optimal Topology for an SMA-SMP Composite Plate for Aircraft Application |
| 11 | Ibañez, Carlyn Ann G. (DGE) | Leveraging Spatial Analysis Techniques for Developing a Climate Resilient and Localized Urban Greening Plan |
| 12 | Lariba, Rusloyd S. (DMMME) | Crack Analysis of Basalt Tailings and Zeolite Sand as Partial Replacement to Cement in Mortar Mixture |
| 13 | Macaspac, Hannah Erika K. (DME) | A Comparative Study on the Effects of 3D Printed Layer Topologies to Object Strength |
| 14 | Medina, Jommer M. (DGE) | Development of Transformed NDCI for Laguna Lake using Landsat 8 OLCI and Sentinel-2 MSI Data and Bio-Optical Modeling |
| 15 | Resuello, John Rossmon M. (DMMME) | Sulfide Oxidation and Gold Dissolution of a Refractory Gold-Molybdenum Concentrate Using Hypochlorite |
| 16 | Rosal, Terrence Louis A. (DMMME) | Selective Removal of Arsenic from Enargite-Scorodite Ore via Alkaline-Hypochlorite Leaching |
| 17 | Santos, Franz D. (ICE) | Numerical Investigation of the Effect of Land Cover Change on the Sediment Dynamics of a Developing Estuary: The Case of Batan Bay, Aklan |
| 18 | Sapporsantos, Nathaniel M. (DChE) | Synthesis of Metal-Organic Framework-based Composites for Phosphate Abatement in Wastewater |
| 19 | Teola, Luigi S. (EEEI) | Optimal Allocation of Multiple Distributed Generation Using an Enhanced Whale Optimization Algorithm |
| 20 | Trilles, Helli-Mar T. (ICE) | System Identification Using Ambient Vibration and Finite Element Modeling of the UPD Carillon |
| 21 | Tupas, Mark Edwin A. (DGE) | Improving Sentinel-1 Flood Maps Using a Topographic Index as Prior in Bayesian Inference |

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| 22 | Valdez, Justin Joseph P. (ICE) | Numerical Modelling of Past and Future Climate Storm Surge Scenarios: Case Study of San Pedro Bay, Philippines |
| 23 | Zamora, Ma. Bea Angela I. (DGE) | Evaluation of Public Transport Connectivity: A GIS-based Multi-Modal Transportation Connectivity Analysis |

ANNEX 4: LIST OF SCHOLARSHIPS AND STUDY GRANTS (AY 2024-2025)

| | Student | Degree Program | | | |
|--|--------------------------|----------------|--|------------------------------|---------|
| Abdon and Lina Laigo | | | | | |
| 1 | Regala, Karlineseous | BS EM | 24 | Alba, Danielle Faye | BS IE |
| 2 | Tupaz, Paul Ivan P | BS ChE | 25 | Belleza, Christian Lloyd | BS MetE |
| Abraham Dario Jr. Donor: Kathrine Dario Delmendo | | | | | |
| 3 | Balunon, Blessy | BS GE | 26 | Inoferio, Joseph Benedict S. | BS CoE |
| 4 | Beltran, Warren Dominic | BS ME | 27 | Nicolas, Janvee | BS IE |
| 5 | Benedicto, Jhon Jover | BS CoE | Bella Tan Donor: Maria Bella Tan | | |
| 6 | Caballes, Mel Czarina | BS ME | 28 | Argao, Gerome Kevin | BS GE |
| 7 | Campos, Kurt Neil | BS ME | 29 | Bajal, Ross Clarence C. | BS ChE |
| 8 | Co, Jan Abigail | BS GE | 30 | Bauzon, Mark Daryl | BS GE |
| 9 | Comaling, Pauline Mae | BS ME | 31 | Centeno, Maerel | BS EM |
| 10 | Dannug, Niño Ricofrelle | BS IE | 32 | Macaraya, Alireza Jr. | BS EE |
| 11 | Elpedes, Carl Christian | BS CoE | 33 | Maclang, John Dave | BS GE |
| 12 | Furia, Jhovanna Rica | BS ME | 34 | Magdaraog, Jemcel | BS IE |
| 13 | Icban, Justin | BS EE | 35 | Matsuzaki, Aryssa | BS CoE |
| 14 | Laraño, Jercel | BS ME | 36 | Nuñez, Sarah Micaela | BS CE |
| 15 | Menor, John Joshua | BS CoE | 37 | Villadoz, John Lloyd | BS CE |
| Alvarez Foundation | | | | | |
| 16 | Javier, Christian Angelo | BS ME | 38 | Villaruel, Yzhae Marrione | BS MatE |
| 17 | Motio, Karen | BS MetE | Capitol Steel Corporation | | |
| 18 | Rallos, Ron Gilbert | BS MatE | 39 | Mones, Emmanuel Mark | BS IE |
| 19 | Vinuya, Frankee | BS CE | 40 | Norio, Shakiro | BS EE |
| Andoni and Norma Dumlao Donor: A.T. Dumlao Construction, Inc. | | | | | |
| 20 | Domingo, Precious Anika | BS CoE | 41 | Posadas, Prince Ericson | BS IE |
| 21 | Jusain, Pearl Joecel Mae | BS EM | 42 | Reynon, Justin Philip | BS ME |
| 22 | Morse, Anthony | BS EM | Carmen and Manuel Magno Donor: Mario Magno, Dr. Rajeev Magno Advani and Dr. Vriti M. Advani | | |
| 23 | Romero, Jose Manuel | BS EcE | 43 | Dollente, Czarina Joy | BS CoE |
| Dean Alfredo L. Juinio Donor: Editha Juinio Atienza | | | | | |
| | | | 44 | Aguilar, Jannah Maye | BS CE |
| | | | 45 | Nocom, Kirsten Mikaela | BS CE |

| Dr. Luis Pascual | | |
|---|------------------------------------|---------|
| 46 | Creer, Chloe Andrea | BS CoE |
| 47 | Janaban, Bianrosel Thomas | BS EE |
| Enrique Lee Laguinia Donor: Urvara Inc. | | |
| 48 | De Mesa, Mico Irvin | BS EE |
| 49 | Escoto, Jhageson Lance C. | BS Ge |
| 50 | Seva, Robert | BS GE |
| Felicio Family | | |
| 51 | Sarmiento, Deirdre Andreus | BS CE |
| Filminera Donor: Filminera Resources Corporation | | |
| 52 | Albino, Joshua L. | BS EM |
| 53 | Bangud, Hannah Sofia | BS EM |
| 54 | Lazares, Sharie Lyne | BS EM |
| 55 | Nuñez, Vherwyn | BS EM |
| GT Foundation, Inc. | | |
| 56 | Abacahan, Glenn Mark | BS GE |
| 57 | Aguilar, Czar Timothy Vinson R. | BS CoE |
| 58 | Cayasfon, James Angelo B. | BS GE |
| 59 | Daulo, Hans Gabriel | BS EcE |
| 60 | De Luna, Jaira Kaye G. | BS ChE |
| 61 | Dolon, Gian Carlo | BS CoE |
| 62 | Gabuat, Princess Meryl Joy | BS IE |
| 63 | Gentiles, Demi Julianna | BS GE |
| 64 | Jamisola, Raia | BS GE |
| 65 | Lorenzo, Maria Greciel Margaret C. | BS ChE |
| 66 | Mendova, Andree John | BS EE |
| 67 | Ong, Rainer Christian | BS CS |
| 68 | Orbina, Kyla | BS GE |
| 69 | Pagtulingan, Freddie Jr. | BS CoE |
| 70 | Reblora, Eliz Anne Marie | BS MatE |
| 71 | Tanchico, Thomy Andrei Miguel | BS CE |
| 72 | Villarias, Jenny Rose | BS GE |
| Jaime and Elise del Rosario | | |
| 73 | Calipes, Ricardo Sebastian | BS MatE |
| 74 | Latawan, Krisha | BS GE |
| 75 | Male, Jerome Ralph | BS CE |
| 76 | Obedoza, Jahziel Jireh M. | BS MatE |

| 77 | Ragodo, Tricia Mae Ann | MS MetE |
|--|----------------------------|---------|
| 78 | Rocha, John Fernando | BS CS |
| Jose and Fae Albano Donor: Jose L. Albano | | |
| 79 | Cabrestante, Allyson | BS ME |
| 80 | Roque, Trisha Mae | BS ME |
| Ma. Bella B. Javier | | |
| 81 | Bellosillo, Simon Andrei | BS MetE |
| Megawide Donor: Megawide Foundation, Inc. | | |
| 82 | Arceo, Annika Faye | BS GE |
| 83 | Corpuz, Tricia May | BS CE |
| 84 | Olivo, Jan Xerohj | BS ME |
| 85 | Pacson, Gerald | BS GE |
| 86 | Serrano, Ernesto Gabriel | BS GE |
| 87 | Trinidad, Ellaizza | BS CE |
| 88 | Zaraspe, Angelo Justine | BS CE |
| 89 | Agpoon, Mike Ferdinand | BS CE |
| 90 | Baldivicio, Lovely Joyce | BS CE |
| 91 | Cruz, John Harold | BS CE |
| 92 | De Leon, Allysa Albay | BS CE |
| 93 | De Leon, Ma. Nica Norithia | BS CoE |
| 94 | Laquip, Sophia Margot | BS CE |
| 95 | Oria, Cedric Allen | BS EE |
| 96 | Santos, Ira Nicole | BS EE |
| 97 | Vina, Toney Juan | BS EE |
| 98 | Zafe, Patricia Nicole | BS CE |
| Meralco Donor: Meralco and One Meralco Foundation | | |
| 99 | Cortez, Deceryl | BS EE |
| 100 | Sotto, Angela Kaye | BS EE |
| 101 | Valenzuela, Jana Reven | BS EE |
| MPTC Donor: Metro Pacific Tollways Corporation | | |
| 102 | Ariate, Arnel Mari | BS ECE |
| 103 | Carag, Samantha | BS CE |
| 104 | Macalino, Mark Jester | BS MatE |
| 105 | Sursigis II, Zihandres | BS ECE |
| 106 | Tabanera, Ryan | BS MatE |

| Naomi P. Martin Donor: Michael G. Manuel | | |
|--|-------------------------------|---------|
| 107 | Atilano, James Angelo M. | BS GE |
| 108 | Sareno, Steven Gerald | BS ChE |
| PayEngg Forward (Michael Gonzalez) Donor: Michael V. Gonzalez | | |
| 109 | Baldivicio, Lovely Joyce | BS CE |
| 110 | Disamburun, Ahmerdaya Unte | BS CE |
| 111 | Madayag, Sarah Michaela | BS CE |
| 112 | Martin, Jonel James | BS CE |
| 113 | Santiago, Adalard Bryle | BS CE |
| 114 | Trinidad, Akira | BS CE |
| PGPRC Donor: Phil. Gold Processing and Refining Corporation | | |
| 115 | Garcia, Justine Paul Ridgeley | BS EM |
| 116 | Guilao, Charlyne | BS MetE |
| PHILSAGA Donor: Philsaga Mining Corporation | | |
| 117 | Atong, John Raed | BS MetE |
| 118 | Bernardo, Ma. Dhea Angeline | BS EM |
| 119 | Bueno, Rizzy Mae | BS EM |
| 120 | Quintero, John Paul | BS MetE |
| 121 | Tabirao, Ma. Sharisse | BS MetE |
| 122 | Tolentino, Meljohn | BS EM |
| Prof Emmanuel Manlapig | | |
| 123 | Carrera, Alexander Benjamin | BS MetE |
| 124 | Cristobal, Kenneth | BS MetE |
| Robert Cheng Uratex Donor: URATEX | | |
| 125 | Aycardo, Lourdy | BS IE |
| 126 | Crucis, Maria Janela | BS EM |
| 127 | Romey, Henni Mae | BS IE |
| Santiago Family Donor: Felipe B. Santiago and Aurora Santiago-Moore | | |
| 128 | Briones, Louis Mark | BS CoE |
| 129 | Domingo, Paula Bettina | BS CS |
| 130 | Lugo, Manuel Luis Rayo | BS CoE |
| 131 | Rodriguez, Agatha | BS CS |
| 132 | San Miguel, Rian Althea | BS CoE |

| Trident Electronics Corporation | | |
|---|-------------------------|---------|
| 133 | Amante, Ian Emmanuel B. | BS CS |
| 134 | Lamarena, Richard Louie | BS EE |
| UPAA British Columbia | | |
| 135 | Busalpa, Ryle Richter | BS EM |
| 136 | Domingo, Bhlesie Jane | BS IE |
| 137 | Magdaet, John Ruiz | BS MetE |
| 138 | Marco, Josyl | BS GE |
| 139 | Queñano, Ivan Rio Leon | BS CoE |
| 140 | Santos, Mikaela | BS GE |
| UPIEAA AchIEvers Program Donor: UP Industrial Engineering Alumni Association | | |
| 141 | Allata, Shane Jhemiles | BS IE |
| 142 | Baguio, Iefzel Joi | BS IE |
| 143 | Castillo, Joshua | BS IE |
| 144 | Dalusong, Angelo | BS IE |
| 145 | David, Arjie | BS IE |
| 146 | Domingo, Bhlesie Jane | BS IE |
| 147 | Favis, Team Cy | BS IE |
| 148 | Posadas, Prince Ericson | BS IE |
| 149 | Ramos, Louis Jeinard | BS IE |
| 150 | Reyes, Micah Joyce | BS IE |
| 151 | Atuan, Jan Jubal | BS IE |
| William Cua Donor: Jennifer Lynn Cua | | |
| 152 | Moneda, Blooming Dan | BS CS |

UPAE Study Now Pay Later Program

| | Student | Course | Campus |
|----|------------------------------|--------|--------|
| 1 | Abanes, Racquel G. | BS ABE | UPLB |
| 2 | Aceron, Rhona Mae M. | BS ME | UPD |
| 3 | Agamao, Benedick G. | BSGE | UPD |
| 4 | Atuan, Jan Jubal C. | BSIE | UPD |
| 5 | Baillo, John Ryll C. | BSGE | UPD |
| 6 | Balboa, Den Harvey A. | BSMatE | UPD |
| 7 | Belga, Cheryl Jahara M. | BSCE | UPD |
| 8 | Buenconcejo, Stephen P. | BSME | UPD |
| 9 | Calado, Jarvis Chrissyler B. | BSCE | UPD |
| 10 | Cartabio, Clark Louwell T. | BSMetE | UPD |

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|----|-------------------------------------|--------|------|----|--|-------|------|
| 11 | Celedonio, Kim Cyril T. | BSEM | UPD | 29 | Namuco, Justine Keith P. | BSEE | UPLB |
| 12 | Co, Jan Abigail T. | BSGE | UPD | 30 | Ortega, Rose Anne Angela R. | BSEE | UPLB |
| 13 | Cruz, Leonardo A. | BSEE | UPLB | 31 | Ortiz, Patricia Mae O. | BSGE | UPD |
| 14 | De La Cruz, Micko Carlo Nicolas G. | BSMetE | UPD | 32 | Quemada, Zildjian Charles Alexandre A. | BSME | UPD |
| 15 | Dela Cueva, Rhonell R. | BSGE | UPD | 33 | Quinto, Caryl Elaine | BSME | UPD |
| 16 | Deocarisa, Kian | BSIE | UPLB | 34 | Reyes, Jason Luis N. | BSCE | UPLB |
| 17 | Descarga, Trisha Alyanna | BSEE | UPD | 35 | Roque, Mark Anthony V. | BSCE | UPLB |
| 18 | Evangelista, Adrian Nikolai | BSME | UPD | 36 | Santiago, Aine Gabrielle F. | BSCoE | UPD |
| 19 | Fortes, Maria Fe | BSGE | UPD | 37 | Santiago, Aliyah Faye O. | BSCE | UPD |
| 20 | Herrera, Cale Andriane B. | BSGE | UPD | 38 | Tan, Samantha Alleah B. | BSCE | UPD |
| 21 | Joaquin, Raven Dessery S. | BSChE | UPLB | 39 | Tangub, Kimberly Lae-Ann M. | BSIE | UPLB |
| 22 | Jocson, Kathleen G. | BSCS | UPD | 40 | Triste, Castor Troy C. | BSCE | UPLB |
| 23 | Llaguno, Kevin Clude L. | BSABE | UPLB | 41 | Tuangco, Amos Nathan B. | BSChE | UPD |
| 24 | Lorenzo, Maria Greciel Margareth C. | BSChE | UPD | 42 | Valerio, John Leo P. | BSEE | UPLB |
| 25 | Maclang, John Dave C. | BSGE | UPD | 43 | Viernes, Marc Peejay V. | BSCS | UPD |
| 26 | Marco, Josyl P. | BSGE | UPD | 44 | Yap, Alyssa Anne Leigh S. | BSCE | UPD |
| 27 | Mendoza, Janine A. | BSGE | UPD | | | | |
| 28 | Mojica, Calvin Shane V. | BSCoE | UPD | | | | |

ANNEX 5: LIST OF THESIS SUPPORT GRANTS (AY 2024-2025)

| Awardee (Degree) | Thesis/Project Title |
|----------------------------------|--|
| Francis C. Felizardo | |
| 1 Panlilio, Aerren Azhlei (BSCE) | An Experimental Study on the Bond Behavior of Epoxy-Coated Corroded Reinforcement Rebar in Fly Ash-Based Cement Mortar Mix |
| 2 Ripalda, James (BSCE) | |
| 3 Solanoy, Mark Kenneth (BSCE) | Investigation on the Applicability of Electromagnetic Wave Radar to Detect Internal Crack Dimensions in Reinforced Concrete Structures |
| 4 Bacud, Angel Sophia (BSCE) | Adsorption of Phosphate using Corn Husk Derived Activated Carbon via Phosphoric Acid Activation |
| 5 Fulo, Glenn Mark (BSCE) | Analysis of Microplastics Occurrence in the Surface Water and Sediments of Carmona River System (Carmona City, Cavite) |
| 6 Orio, Julian Enrico (BSCE) | Development of Design Guidelines to the Usage of Arc Spot Welded Rebar Connection to Light-Gauge C-Purlin Section |
| James Dyson Foundation | |
| 7 Natividad, Edgie (BS MatE) | Cysteine-functionalized Bentonite as Topical Application for Eczema Treatment |
| 8 Arcos, Jose Angelo (BS MatE) | Fabrication of a self-cleaning superhydrophilic and superoleophobic TiO ₂ /CuO-coated stainless steel mesh for oil-water separation |
| 9 Aurellano, Mae Ann (BS MatE) | Molecular Sensitivity and Electrochemical Response of Polyaniline (PANI)-Zeolite Nanocomposites |

Amanda E. Banno and Paz C. Santiago

10 Montes, Samuel Jr (BS CoE) IoT-Based Freshwater Quality Monitoring System

11 Esparagoza, Andreu James (BS EcE)

Enrique Laguinia

12 Pampang, Gavril Aiman (BS ChE) Microwave-assisted synthesis of phenanthrene using Cyrene™ as bio-based solvent via Pd-catalyzed tandem Suzuki coupling/Heck cyclization approach

Dr. Leopoldo V. Abis

13 Aliño, Sean Moises (BS CE) A Comparative Analysis on the Applicability of Existing Water Quality Index Models on Philippine Rivers

Jerome H. Cainglet

14 Roque, Lance Emmanuelle (BS MatE) Development of a Multifunctional Plasma-Polymerized Polyaniline-Chitosan-Acrylic Acid Hydrogel for Biomedical Applications

15 Carag, Stephanie Joy (BS CE) Evaluation of Rice Husk Ash-based Geopolymer for Soil Stabilization and Liquefaction Mitigation

16 Nazaire, Cedrick (BS MatE) Plasma modification of natural zeolite coupled with polyacrylic acid for pH-responsive drug delivery

17 Teodosio, Chelsea Jane (BS MatE) Recovery of Phosphate from Wastewater using Granulated Water Hyacinth Biochar and its Application as Soil Additive

18 Kallos, Ransley John (BS MatE) Synthesis and characterization of Xanthan gum/starch bioplastic film

19 Jimenez, James Martin M. (BS MatE) Antibacterial activity of ZnO nanoparticle-incorporated zirconia/baghdadite ceramic composite dental crown application

Leocadio and Jocelyn Ostrea

20 Nono, Kent Arnold (BS MetE) Mechanism and Kinetics of Nickel Laterite Column Leaching

21 Almerina, John Marrselle (BS MetE) Analyzing the Effects of Current Density, Electrode Spacing, and Electrolyte Temperature on Copper Electrorefining Process

22 Bejar, Hazel (BS MetE)

23 Serrano, Arthur Angelo D. (BS MetE) Assessment of compressive strength and heavy metal leachability of alternative cementitious material prepared from copper mine tailings

24 Plata, Mark Jefferson (BS MetE)

25 Belega, Xyrille Angelie (BS MatE) Effect of Plasma on the Properties of Inabel Fabric

Magellan E-Support Services

26 Dado, Lorize Lorielle (BS MetE) Investigating the Potential of Deep Eutectic Solvents in the Removal of Arsenic from Cu-As Ore

27 Reyes, Lorenzo (BS MetE)

28 Elepaño, Dan Christian (BS MetE) Manufacturing of a Laboratory-Scale Tube Furnace for Quantitative End-Quench Testing

29 Romero, Christian Ray (BS MetE)

30 Jumaquio, John Henrix (BS MetE) Solvent Extraction of Nickel from Laterite Leach Solution using Mextral 6104H

31 Garcia, Angela Francesca (BS MetE)

32 Oliva, Luke Bernard III (BS MetE) Solvometallurgical Extraction of Refractory Gold using Deep Eutectic Solvents

33 Biacora, Jimuel (BS MetE)

34 Blanquisco, Aalliah Melloney (BS MetE) The Enhancement of Copper Dissolution from Philippine Copper-Arsenic Sulfosalts in Ammonium Carbonate using Sodium Hypochlorite and Hydrogen Peroxide (H₂O₂) as Oxidant

35 Bonita, Nathaniel (BS MetE)

Cesar G. Romero

36 Joseph Anchores (BS ME) Vibration-based Determination of Orthotropic Properties of Philippine-grown Gmelina arborea Roxb.

37 Dom Federick Villanueva (BS ME) Fabrication and Mechanical Testing of a Water Hyacinth Fiber Reinforced Bioplastic made from Agar

| Dr. Leopoldo V. Abis | | |
|--------------------------------|-----------------------------------|---|
| 38 | Ivann Xavier Sicam (BS ME) | Fuel Efficiency Investigation of a Low Complexity Modified Hybrid Drivetrain via OOL Analysis |
| 39 | Kaye Charlise Alberca (BS ME) | |
| Francis C. Felizardo | | |
| 40 | Christian Uriel Ulatan (BS CE) | Experimental Modelling of the Effect on Waves of Different Seagrass Meadow Widths located at a Tide Embankment Toe |
| 41 | Edgardo Alinea Jr. (BS CE) | Lightweight Geopolymer Concrete Hollow Blocks Using Expanded Perlite Aggregates |
| Frederick Contreras | | |
| 42 | Katrina Joanne Cuervo (BS MatE) | Synthesis and characterization of mesoporous silica nanoparticles loaded with UV filter |
| Jerome Cainglet | | |
| 43 | Camille Roxanne David (BS MatE) | Fabrication and Characterization of Tape Casted YSZ as Solid Oxide Fuel Cell (SOFC) Electrolyte |
| 44 | Sherey Anne Silvano (BS EcE) | Development and Integration of Energy-Adaptive Wireless Mesh Network for Water Quality Monitoring Systems in Aquaculture Areas |
| 45 | Coby Emmanuel Anupol (BS EcE) | |
| 46 | Mig Brian A. Bungcayao (BS CE) | Investigation of Suitability of Abaca (<i>Musa textilis</i>) Fiber Reinforced Polymer as Alternative for Carbon Steel Dowel Bars in Jointed Reinforced Concrete Pavement |
| 47 | Aaron Jai V. Cruz (BS CE) | |
| 48 | Kenn Joshua Mojica (BS EE) | Power Quality Characterization and Analysis of CHRG Electric Vehicle Charging Station on a Small Distribution System |
| 49 | John Labrador (BS EE) | |
| 50 | Geoffrey Gabriel Rosales (BS EE) | |
| Leocadio and Jocelyn M. Ostrea | | |
| 51 | Alexandrea Cordova (BS EM) | A Multi-Criteria Decision Analysis using TOPSIS to Evaluate the Contributions of Aggregate Quarrying Projects to the Land Reclamation of Manila Bay through their Environmental Impact Statements (EIS) |
| 52 | Robert Allan Pesa (BS EcE) | Characterization of a Cube Satellite Structure as an Antenna using Characteristic Mode Analysis |
| 53 | Erwin Ray Gerona (BS MatE) | Magnetic-Responsive Magnetite-Gold/Chitosan Nanoparticles for Targeted Anticancer Drug Delivery |
| 54 | Dex Mikaelo Daguman (BS MatE) | Fabrication and Characterization of Crack-Free Lead Zirconate Titanate Thin Films |
| Luisa Yao Que-Sanchez | | |
| 55 | Tonee Villanueva (BS CoE) | Investigating the Effect of MgF ₂ Thickness as an Anti-Reflective Coating for Transparent Solar Cells |
| 56 | Berjhan Rose Alpeche (BS CoE) | Biosignal Acquisition Board based on OpenBCI System |
| 57 | Timothy Clarence Milaor (BS CoE) | An Architecture for Personal Weather Forecasts using Low-cost, LoRa-enabled Automated Weather Stations |
| 58 | Julianne Marie T. Sasing (BS CoE) | |
| 59 | Lanel Rose Cordova (BS CoE) | Fabrication of chitosan-based hydrogel contact lenses |
| 60 | Ryan Carlo Decena (BS CS) | JeePS 2.0: Extending a Real-time Transportation Tracking System |
| 61 | James Daniel Ducay (BS CS) | |
| Victor and Carole Villagracia | | |
| 62 | Gian Benedict Baturiano (BS MatE) | Corrosion Resistance of Hydrophobic PEO Coating for Biodegradable Mg Biliary Stent Applications |
| Olegario G. Villoria, Jr. | | |
| 63 | Katelyn Dizon (BS GE) | Modeling the Contribution of Land Subsidence to Water Level Change in Former Boneng Mine Site Using Multi-Temporal InSAR |
| 64 | Liam Lampayan (BS MatE) | Effect of Varying the Hydrothermal Synthesis Parameters of CQDs from Rice Husk for Potential QDLED Applications |

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| 65 | Joseph F. Arizapa, Jr. (BS CE) | The Use of Ground Granulated Blast Furnace Slag (GGBFS) and Calcium Carbonate Nanoparticles (Nano-CaCO ₃) from Mussel Shells on the Stabilization of Alluvial Soil in Malolos, Bulacan |
| 66 | Athena Zandrei Sarabosing (BS MatE) | Fabrication of Alginate-Carrageenan Direct Coating for Layered Paper Packaging as an Alternative to Commercial Polyethylene Coating |
| 67 | Julianne Alexandra Yu (BS MatE) | Determining the Effect of Li ₂ CO ₃ Particle Size Distribution on the Structure and Properties of Solid-State Synthesized LiCoO ₂ Cathode Material from Spent Lithium-ion Batteries |
| James Dyson Foundation | | |
| 68 | Lester Anthony Vasquez (BS ME) | Stair-Navigating Wheelchair |
| 69 | Ryan Tabanera (BS MatE) | Fabrication of Chitosan - Guar Gum Polymer Blend Film using different crosslinkers for Wet Packaging Applications |
| 70 | Ron Gilbert Rallos (BS MatE) | Exploring the effects of plasma treatment on PEG-based hydrogel-forming microneedles |
| 71 | Aldrian Alarcon (BS ME) | I-Wheelchair: Specialized Wheelchair for Children with Cerebral Palsy (Capstone) |
| 72 | Shem Beauregard Mendoza (BS ME) | |
| 73 | Fredrik Angelo Francisco (BS GE) | Marine Plastic Litter Accumulations in Particle Tracking Models and Remote Sensing in Manila Bay Pasig River Outfall |
| 74 | Erlyn Kaye P. Mortega (BS GE) | |
| 75 | Hannah Triccia A. Tirona (BS ME) | An Experimental Study on the Effects of Water Depth and Reduced Graphene Oxide with Silver Nanowires Basin Coating on a Hemispherical Solar Still |
| 76 | Bill Andrew A. Saret (BS ME) | |
| 77 | Kriz Greg Urmeneta (BS CoE) | LoRa Mesh Sensor Network for Air Quality and Exposure Data in Jeepneys |
| 78 | Charles Wincel R. Abello (BS CoE) | |
| 79 | Lyle Denzell C. Trillanes (BS CoE) | |
| 80 | Red James Manalili (BS CoE) | AUSCULTAWEAR: A Wearable Audio-Based Monitoring Platform for Heart and Respiratory Rates |
| 81 | Clarence Alver dela Cruz (BS CoE) | |
| 82 | John Julio Chua (BS EE) | |
| 83 | Joseph Keerl Cano (BS EE) | Modeling and Simulation of Magnetic Bead-Based Sputum Sample Purification for Microfluidic Platforms |
| 84 | Stephen Joseph Guerrero (BS EE) | |
| 85 | Beatrix Guanio (BS ME) | SAMPA: Specific, Articulating, and Modular Pediatrx Ankle Foot Orthosis (AFO) |
| 86 | Ken Zachary Rollo (BS EcE) | |
| 87 | Asil Andrei Acasio (BS EcE) | Traffic-related Air Pollution (TRAP) Monitoring System in Urban Intersections |
| 88 | John Karlo Cenabre (BS EcE) | |
| JCV & Associates | | |
| 89 | Krishna Anne Villanueva (BS CE) | Utilization of Waste Glass as Partial Replacement for Fine Aggregates in Concrete Pavement Blocks |
| 90 | James Zander Loro (BS CE) | Investigation on the use of GFRP bars and sheets |
| 91 | Jay Anthon Villanueva (BS CE) | CHARACTERIZATION OF UNCONFINED COMPRESSIVE STRENGTH AND SOIL EXPANSIVITY OF STABILIZED CLAY USING COCONUT HUSK ASH-BASED GEOPOLYMER |
| 92 | Victoriano Calimag III (BS CE) | Analyzing the Behavior of Drivers in Dilemma Zones During the Yellow Interval in Signalized Intersections |
| 93 | Liam Jan A. Manahan (BS CE) | |
| 94 | Alyssa Manucat (BS CE) | |
| 95 | Adrian Dayon (BS CE) | Mode Transfer Quality Index: Enhancements, Applications, and User-Centric Insights |
| 96 | Sharrel Angela Simo (BS CE) | |
| 97 | Justine Nicole Gonzales (BS CE) | Surface Modification of Kapok (Ceiba Pentrandia) |

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| 98 | Alyana Jimenez (BS ME) | Evaluation of the Influence of the Infill Patterns and Densities on the Mechanical Properties and Recoverability of 3D Printed Shape Memory Polymer (SMPs) for Improved Orthopedic Cast Design |
| 99 | Jeyzel Joy V. Saguibo (BS ME) | |
| 100 | Vincent Bryanne Bañas (BS ME) | Railway Condition Monitoring by Determining Track Response Using Accelerometers Mounted on Railway Track Sleepers (Thesis) |
| 101 | Shem Beauregard Mendoza (BS ME) | |
| 102 | Ruth Danielle Artates (BS ME) | Evaluation of the Corrosion Effects on the Thermal Conductivity of Heat-Treated Stainless Steel immersed in salt-based Phase Change Materials (PCM) for Thermal Energy Storage (TES) systems |
| 103 | Ian Gabriel Dela Cena (BS ME) | |
| 104 | Riana Gabrielle P. Gamboa (BS ME) | Development and Mechanical Characterization of Shape Memory Polymer Composites for Antenna Deployment Mechanisms in CubeSat Applications |
| 105 | Marylen T. De la Cruz (BS ME) | |
| John K. Tan | | |
| 106 | Don Jeric Monderin (BS CoE) | Implementation of Multicore RV32IMC Core with Split Level One Cache and Shared Level Two Cache |
| 107 | Daniel Miguel Hora (BS CoE) | |
| 108 | Jan Jerald Reyes (BS CoE) | Is the Must-Offer Rule a Must? Analyzing the Effect of Removing the Offered Capacity Compliance in the Philippine Wholesale Electricity Market |
| 109 | Allen Edrada (BS EE) | |
| 110 | Julian Carlos D. Corpus (BS EE) | Utilization of Molasses-Based Surfactant for Particle Agglomeration in Airborne Limestone Dust Suppression Method |
| 111 | Richelle Tan (BS EM) | |
| 112 | Raphael Bueno (BS EM) | Plasma-Activated Pili Shell BioChar Incorporated with TiO ₂ Nanoparticles as Composite Electrode for Supercapacitors |
| 113 | Lyan Chesreal Mendez (BS EM) | |
| 114 | Ma. Cecilia Mendoza (BS MatE) | Influence of Plasma Treatment on the Retrogradation of Commercial Cassava Starch |
| 115 | Louie Andre Ang (BS MatE) | |
| Prof. Rodolfo Bulatao | | |
| 116 | Francis Neil Jarical (BS CoE) | Two-stage Active Learning Pipeline for Traffic Analysis |
| 117 | Joseph Victor Lobrin (BS CoE) | |
| 118 | Marc Aaron Vincent Almerido (BS CoE) | Algal Bloom Sensing System using Spectral Sensing Techniques |
| 119 | Mathea Morey Piatos (BS CoE) | |
| 120 | Trisha Marie Herras (BS CoE) | Development of a Wi-SUN Enabled Air Quality Monitoring Payload for Robust UAV Connectivity in Urban Environments |
| 121 | Brian Joshua Ciriaco (BS CoE) | |
| 122 | Jetro Oceso (BS CoE) | Implementation of an Integrated Homogenous Heating and Fluorescence Detection Device for Microfluidic Point-of-Care (POC) Testing |
| 123 | Erwin Realizan (BS CoE) | |
| 124 | Jehad Alibaser (BS CoE) | Analyzing the Impact of Inter-Island Transmission Lines on Price Separation in the Visayas Region |
| 125 | Robby Zablan (BS CoE) | |
| 126 | Jeffrey Nacional (BS EE) | Spatio-temporal Analysis of Urbanization and Traffic Accessibility in Cavite |
| 127 | Andrei Jonas Jose (BS EE) | |
| 128 | Chrizzer Ann Rose Capalad (BS GE) | Effect of frequency and electrolyte additive on constant-voltage plasma electrolytic oxidation of aluminum 6061 for aerospace application |
| 129 | Kathryn Joie Mendoza (BS GE) | |
| 130 | Kearl Romer Cayanan (BS MatE) | Optoelectronic Applications of Fabricated Glass Using Recovered Silica from Geothermal Scales |
| 131 | Jerald Rey Libre (BS MatE) | |

| Suntra International | | |
|----------------------|---------------------------------|--|
| 132 | Aleja Jan Lois Velasco (BS CoE) | An IoT-Based Automated Attendance Monitoring and Management System using Blockchain Technology |
| 133 | Dence Diane Rivera (BS ME) | HandyCap: A Non-electric, 3D-printed, and Patient Specific Finger Prosthesis |
| 134 | Reila Mae San Juan (BS ME) | |
| 135 | Wendell Trinidad (BS CE) | Development of Bamboo-reinforced Sandwich Panels with Waste Glass Powder for Post-disaster Shelters |
| 136 | Elijah Enzo Inguengan (BS ME) | Solar Pedal-Assisted Regenerative Electric (SPARE) Bike Kit |
| 137 | Diego Amoranto (BS ME) | |
| 138 | Cyron Aris Casabuena (BS ME) | Implementation of Real-Time Spectrum Handoff with Blind Cooperative Spectrum Sensing for Cognitive Radio using Software-Defined Radios |
| 139 | Ross Mitchel Chavez (BS EcE) | |

ANNEX 6: FACULTY, STAFF AND STUDENT AWARDS (AY 2023-2024)

UP College of Engineering Student Awards

| | Award | Awardee |
|----|--|----------------------------------|
| 1 | Ramon Khu Award for the Class Valedictorian Donor: Mr. Norberto Vila | Ong, Annika D. L. (BS CE) |
| 2 | Dominador Ilio Award for Most Outstanding All-Around Engineering Student Donor: Beta Epsilon Alumni Association | Talagon, Terence R. (BS ME) |
| 3 | Professor Teodorico Festin Award for Excellence in Chemical Engineering Donor: Dr. Rowena Torres Ordoñez | Nataño, John H. J. (BS ChE) |
| 4 | Professor Emeritus Evangel Quiwa Award for Excellence in Computer Science Donor: Ms. Mary Rose de la Cruz | Hebron, Yenzu U. S. (BS CS) |
| 5 | Dr. Luis Pascual Award for Excellence in Industrial Engineering Donor: Mr. and Mrs. Jaime and Elise del Rosario | Zausa, Misael A. V. (BS IE) |
| 6 | Vicente T. Paterno Award for Excellence in Mechanical Engineering Donor: Paterno Jislan Corporation | Alba, Mheriel A. C. (BS ME) |
| 7 | Joseph Que Sanchez Academic Excellence Award in Computer Engineering Donor: Ms. Jennifer Lyn Cua | Sison, Steven S. (BS CoE) |
| 8 | Rosita Cua Academic Excellence Award for Best Female in Computer Engineering Donor: Ms. Jennifer Lyn Cua | Faderogao, Lovely A. V. (BS CoE) |
| 9 | Jose C. Torres Award for Excellence in Electrical Engineering Donor: Dr. Rowena Torres Ordoñez | Gonzales, Kaira M. V. (BS EE) |
| 10 | Quintin K. Calderon Award for Excellence in Civil Engineering Donor: Dr. Rosario S. Calderon | Ong, Annika D. L. (BS CE) |
| 11 | Vicente Tek Hedriana Award for All-Around Mechanical Engineering Student Donor: Mr. Rogelio Murga | Talagon, Terence R. (BS ME) |

Institute of Civil Engineering Awards

| | Award | Awardee |
|---|--|--|
| 1 | Godofredo and Alfonza Iglesia Award for Structural Engineering Donor: Dr. Gerald Iglesia | Cruz, Shekinah Joy B. (BS CE) |
| 2 | Godofredo and Alfonza Iglesia Award for Structural Engineering Donor: Dr. Gerald Iglesia | Illumin, Randel E. (BS CE) |
| 3 | Ferdinand de la Cruz Award for Environmental Engineering Donor: Mr. Ferdinand de la Cruz | Uy, John Bien Angelo R. (BS CE) |
| 4 | M E Sicut Construction Award for Construction Engineering Donor: UPERDFI / M.E. Sicut Construction | Napolis, Athena Jane A. (BS CE) |
| 5 | Dr. Salvador Reyes Award for Geotechnical Engineering Donor: Brian Tan Engineering Consultancy Services | Uygongco, Janina Phoemela T. (BS CE) |
| 6 | J V Angeles Award for Coastal Engineering and Water Resources Donor: J.V. Angeles Construction | Gregorio, Angela Gabrielle C. (BS CE) |
| 7 | SMC TPLEX Award for Transportation Engineering Donor: SMC Infrastructure | Velasco Jr., Dennis Gabriel F. (BS CE) |

UP College of Engineering Awards Administered by Donors

| | Award | Awardee | | |
|---|---|-------------------------------------|---|--|
| 1 | Garrick Yao Memorial Award for Service Donor: George and Aurora Yao | Faderogao, Lovely A. V. (BS CoE) | 5 | Institute of Materials Engineers of the Philippines Academic Excellence Award in Materials Engineering Donor: Institute of Materials Engineers of the Philippines Natividad, Edgie A. (BS MatE) |
| 2 | UP Alumni Engineers Presidential Award for Outstanding Leadership Donor: UP Alumni Engineers | Gonzales, Kaira M. V. (BS EE) | 6 | Society of Metallurgical Engineers of the Philippines Academic Excellence Award in Metallurgical Engineering Donor: Society of Metallurgical Engineers of the Philippines David, Russel H. (BS MetE) |
| 3 | Dr. Rufino C. Lirag Chemical Engineering Award for Leadership and Service Donor: Mrs. Priscilla Lirag | Jardiolin, Kristine M. (BS ChE) | 7 | Artemio F. Disini Academic Excellence Award in Mining Engineering Donor: Engr. Artemio Disini Isidro, Jillian M. R. (BS EM) |
| 4 | Professor Emeritus Norberto Villa Award for Excellence in Geodetic Engineering Donor: UP Geomatics Alumni Association, Inc | Gammad, Kryzia K. (BS GE) | | |

ANNEX 7: DR. FRANCIS CHUA INNOVATION AWARDS - UNDERGRADUATE PROJECT COMPETITION 2024

Design Category

| Place | Title | Authors |
|-------------------------------|--|---|
| First ₱50,000.00 | AlgoPlast: Development of Alginate / Carrageenan-Based Films as an Alternative to Commercial Single-Use Polyethylene Film Applications | Kirk Benedict Beau T. Damian Advisers: Tiffany Louise B. Lao; Mitch-Irene Kate G. Oyales |
| Second ₱30,000.00 | Design and Fabrication of Configurable Crutches for Varying Mobility Needs | Alyssa T. Somido Advisers: Gerald Jo C. Denoga |
| Finalist ₱10,000.00 | Compliant External Finger Fixator for PIP Joint Dislocation | Nicolai Myka C. Alcaide Monwilhelm V. Torres Adviser: Louis Angelo M. Danao |
| Finalist ₱10,000.00 | Electrification of Boats for Small-Scale Rural Fishing | Marissa Munar Adviser: Lew Andrew Triá |
| Finalist ₱10,000.00 | Sponge Cities (Integrating Green and Grey Infrastructure for Climate Change Resilience): Low Impact Development (ILD) Design for an Expanding Coastal Municipality | Annika Danielle L. Ong Advisers: Roberto S. Soriano; Gil Cruz |

Research Category

| Place | Title | Authors |
|-----------------------------|---|---|
| First ₱50,000.00 | Development of Gelatin-Based Hydrogel with Self-Healing Capability as a Tissue Mimicking Material for Skin Suture Training | Emmanuel O. Cruz Advisers: Leslie Joy L. Diaz; Nerissa Unielle D. Quenga; Melissa Amosco |
| Second ₱30,000.00 | Assessing Structural Adequacy and Vehicle Redirection of Philippine Guardrail System through Crash Test Simulations | John Kenneth Y. Asuncion Beatriz R. Guanio Adviser: Jon Dewitt E. Dalisay |
| Second ₱30,000.00 | Stairway to Heaven: Assessing the Level of Service of Nepa Q-Mart EDSA Carousel Station Through a 3D Object-Oriented Simulation | Mark Vinzent S. Raymundo Art Joyce C. Serrano Advisers: Ayin M. Tamondong; Karl Adrian P. Vergara; Noriel Christopher C. Tiglao |

| | | |
|--------------------------------------|---|---|
| Finalist ₱10,000.00 | Determination of Minimum One-Way Bicycle Lane Width Considering Cyclists' Maneuvers | Iñigo Wynnet DR. Alvarez Ryan Ramde A. Maguddayao Adviser: Sandy Mae A. Gaspay |
| Finalist ₱10,000.00 | Pharmaceutical Co-crystallization of Paracetamol and Zinc via Antisolvent Addition | Isobel Garceau Dale Vert Zimon Manansala Audrey Su Adviser: Isaac Jerome Dela Cruz |

ANNEX 8: UPCOE MODERNIZATION PROJECTS IN 2024

| | Project Title | Donor | Project Leader(s) | Unit | Status (as of 12/31/24) |
|---|---|---|---|-----------|----------------------------|
| 1 | Upgrading of Instructional Laboratory Facilities and Development of a Smart i-Lab | Dr. Magdaleno B. Albarracin, Jr. | Lew Andrew R. Tria | EEEI | Ongoing |
| 2 | Upgrading of Electric Machines Laboratory | Fluor Daniel, Inc. - Philippines | Lew Andrew R. Tria | EEEI | Ongoing |
| 3 | Conversion of Classroom ME4 into a Graduate and Undergraduate Consultation and Study Room | Fluor Daniel, Inc. - Philippines | John Carlo S. Garcia Virgel M. Arocena | DME | Ongoing |
| 4 | ICE Geotechnical Laboratory Upgrade | Dr. Magdaleno B. Albarracin, Jr. and Dr. Isidro A. Consunji (DMCI Holdings, Inc.) | Jose Regin F. Regidor Lestelle Torio-Kaimo | ICE | Ongoing |
| 5 | Engineering Software | Dr. Isidro A. Consunji (DACON Corporation) and Dr. Mark Albert H. Zarco | Louis M. Danao Pher Errol B. Quinay | NGSE; ICE | Ongoing |

ANNEX 9: LIST OF R&D PROJECTS AND GRANTS IN 2024

| | Donor / Grant | Project | Project Leader | Status (as of 12/31/24) |
|---|--|--|---------------------------|----------------------------|
| 1 | Craft Research Technologies, Inc. Collaborative Research Grant | STEALTH (Semi-Transparent Enhanced Alternative Lightweight Technology Harvester PV (Photovoltaic) Cell Prototype | Magdaleno Vasquez, Jr. | Ongoing |
| 2 | Diliman Integrated Technical Consultancy, Inc. (DITCI) Research Grants | DITCI Grant: Parametric, Kinetic and Reusability Study of Microwave-Irradiated Gelatin-Rutin Hydrogel for Seawater Desalination | Trina M. Loria (MS EnE) | Ongoing |
| 3 | Diliman Integrated Technical Consultancy, Inc. (DITCI) Research Grants | DITCI Grant: Development of Alginate/Kappa Carrageenan-Based Films as an Alternative to Commercial Single-Use Polyethylene Film Applications | Kirk Benedict Beau Damian | Completed |
| 4 | Innovation Grants Fund | Startup: AAClatan | Alfred Abanto | Ongoing |
| 5 | Innovation Grants Fund | Startup: KoolGear | Ivan Brent F. Nara | Ongoing |
| 6 | Murata Science and Education Foundation Research Grants | Characterization of Plastic Accumulation in an Urban River in the Philippines Across Land Uses | Ma. Brida Lea D. Diola | Completed |
| 7 | Murata Science and Education Foundation Research Grants | Mechanical Behavior, Toxicity Characteristics, Leaching Potential of Cement-Stabilized Mine Tailings | Jessica M. Junio | Completed |
| 8 | Murata Science and Education Foundation Research Grants | Radiation-induced Graft Polymerization of Pineapple Nonwoven Fabric (PNWF) | Eduardo R. Magdaluyo Jr. | Completed |
| 9 | Murata Science and Education Foundation Research Grants | Leaching of Gold-bearing Tailings using Deep Eutectic Solvents | Joanna Mae L. Mijares | Completed |

| | | | | |
|----|---|---|--|-----------|
| 10 | Murata Science and Education Foundation Research Grants | Sulfide Oxidation and Gold Dissolution of a Refractory Gold-Molybdenum Concentrate Using Hypochlorite Solution | John Rossmo M. Resuello | Completed |
| 11 | Murata Science and Education Foundation Research Grants | Selective Removal of Arsenic from Copper Concentrate via Alkaline Leaching | Terrence Louis A. Rosal | Completed |
| 12 | Murata Science and Education Foundation Research Grants | Investigation of the Occurrence of Microplastics in a Groundwater-Sourced Water Supply System in Cavite, Philippines | Wayne Christian P. Datiles | Completed |
| 13 | Murata Science and Education Foundation Research Grants | Viability of Hybrid Renewable Energy System Microgrid for Off-Grid Islands: Case for Western Visayas, Philippines | Ivan Jan P. Romero | Completed |
| 14 | Murata Science and Education Foundation Research Grants | Fabrication of Alginate/k-Carrageenan Bioplastic Films via Extrusion Method | Tiffany Louise B. Lao | Completed |
| 15 | Murata Science and Education Foundation Research Grants | Pandemic Through Time: Probabilistic Modelling of Coping Profile Dynamics | Paul Rosenner d.R. Regonia | Completed |
| 16 | Murata Science and Education Foundation Research Grants | Green Synthesis of Hyaluronic Acid-Based Hybrid Hydrogel for Drug Delivery Application | Kathrina Lois M. Taaca | Completed |
| 17 | Murata Science and Education Foundation Research Grants | Analytical and Experimental Studies of Planar Solid Oxide Electrolysis Cells for Hydrogen Generation | Rogel Jan B. Butalid | Completed |
| 18 | UPERDFI Prototyping Grant | FilAAC: The Filipino Focused AAC app | Alfred Abanto | Completed |
| 19 | UPERDFI Prototyping Grant | Sign Language Detection and Captioning for Video Conferencing using Machine Learning | John Gabriel Porton | Completed |
| 20 | UPERDFI Prototyping Grant | Student Project: Design and Implementation of a oneM2M-based Remote Monitoring System for Water Distribution Networks Using Wireless Sensor Nodes | Hazel Mae D. Gadiaza (EEEI); Adviser Dr. Jaybie A. de Guzman | Completed |
| 21 | UPERDFI Prototyping Grant | Student Project: OpenBCI Signal Acquisition System | Charlene D.G. Flores, Ron Louis C. Nierva (EEEI) | Completed |
| 22 | UPERDFI Prototyping Grant | Student Project: Synthesis of Nanocellulose Crystal/Zinc Oxide/Titanium Dioxide (NCC/ZnO/TiO ₂) Nanocomposite as an Alternative Ultraviolet (UV) Filter in Sunscreen Formulations | Selwyn Lucky Motita (DMMME) | Completed |
| 23 | UPERDFI Prototyping Grant | Student Project: Fabrication of Bamboo (<i>Bambusa blumeana</i>)-Reinforced Concrete (BRC) for Load Bearing Wall Panels Utilizing Expanded Perlite Aggregate (EPA) | Christelle Mae T. De Leon, Mary Margareth Celline C. Pablo (ICE) | Completed |
| 24 | UPERDFI Prototyping Grant | Student Project: Electrification of Boats for Small-Scale Rural Fishing | Marissa F. Munar (EEEI); Adviser Dr. Lew Andrew Tria | Ongoing |
| 25 | UPERDFI Prototyping Grant | Student Project: Mechanical and Thermal Properties of a Graphene-Infused Epoxy Resin Reinforced with Silate-treated Fly Ash | Abdul Raqib S. Lucman (DMMME) | Ongoing |

UP Engineering Research and Development Foundation, Inc.
(A Nonstock, Not-for-profit Organization)

Financial Statements
December 31, 2024 and 2023

and

Independent Auditor's Report



SyCip Gorres Velayo & Co.
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INDEPENDENT AUDITOR'S REPORT

The Board of Trustees
UP Engineering Research and Development Foundation, Inc.

Report on the Audit of the Financial Statements

Opinion

We have audited the financial statements of UP Engineering Research and Development Foundation, Inc. (the Foundation), which comprise the statements of assets, liabilities and fund balances as at December 31, 2024 and 2023, statements of revenue and expenses, statements of changes in fund balances and statements of cash flows for the years then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Foundation as at December 31, 2024 and 2023, and its financial performance and its cash flows for the years then ended in accordance with Philippine Financial Reporting Standards for Small and Medium-sized Entities (PFRS for SMEs) Accounting Standard.

Basis for Opinion

We conducted our audits in accordance with Philippine Standards on Auditing (PSAs). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Foundation in accordance with the Code of Ethics for Professional Accountants in the Philippines (Code of Ethics) together with the ethical requirements that are relevant to our audit of the financial statements in the Philippines, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with PFRS for SMEs Accounting Standard, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Foundation's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Foundation or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Foundation's financial reporting process.



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Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with PSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.

As part of an audit in accordance with PSAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Foundation's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Foundation's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Foundation to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.



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Report on the Supplementary Information Required Under Revenue Regulations Nos. 34-2020 and 15-2010

Our audits were conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplementary information required under Revenue Regulations Nos. 34-2020 and 15-2010 in Note 10 to the financial statements is presented for purposes of filing with the Bureau of Internal Revenue and is not a required part of the basic financial statements. Such information is the responsibility of the management of UP Engineering Research and Development Foundation, Inc. The information has been subjected to the auditing procedures applied in our audit of the basic financial statements. In our opinion, the information is fairly stated, in all material respects, in relation to the basic financial statements taken as a whole.

SYCIP GORRES VELAYO & CO.

Kristopher S. Catalan
Partner

CPA Certificate No. 109712
Tax Identification No. 233-299-245
BOA/PRC Reg. No. 0001, April 16, 2024, valid until August 23, 2026
BIR Accreditation No. 08-001998-109-2023, October 26, 2023, valid until October 25, 2024
PTR No. 10465281, January 2, 2025, Makati City

April 29, 2025



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UP ENGINEERING RESEARCH AND DEVELOPMENT FOUNDATION, INC.
(A Nonstock, Not-for-profit Organization)
STATEMENTS OF ASSETS, LIABILITIES AND FUND BALANCES

| | December 31 | |
|---|---------------------|---------------------|
| | 2024 | 2023 |
| ASSETS | | |
| Current Assets | | |
| Cash and cash equivalents (Note 4) | P29,523,688 | P27,523,309 |
| Receivables (Note 5) | 3,158,438 | 5,603,996 |
| Other current assets | 248,737 | 248,737 |
| Total Current Assets | 32,930,863 | 33,376,042 |
| Noncurrent Assets | | |
| Investments (Note 6) | 334,415,324 | 295,320,590 |
| Property and equipment (Note 7) | 60,683 | 75,854 |
| Total Noncurrent Assets | 334,476,007 | 295,396,444 |
| TOTAL ASSETS | P367,406,870 | P328,772,486 |
| LIABILITIES AND FUND BALANCES | | |
| Current Liabilities | | |
| Accounts payable and other current liabilities (Note 8) | P5,562,445 | P1,608,551 |
| Fund Balances (Note 9) | | |
| General funds | 62,542,328 | 46,179,938 |
| Endowed funds | 230,408,473 | 218,821,192 |
| Special funds | 68,893,624 | 62,162,805 |
| Total Fund Balances | 361,844,425 | 327,163,935 |
| TOTAL LIABILITIES AND FUND BALANCES | P367,406,870 | P328,772,486 |

See accompanying Notes to Financial Statements



UP ENGINEERING RESEARCH AND DEVELOPMENT FOUNDATION, INC.
(A Nonstock, Not-for-profit Organization)
STATEMENTS OF REVENUE AND EXPENSES
 YEARS ENDED DECEMBER 31, 2024 AND 2023

| | 2024 | | | | 2023 | | | |
|---|---------------------|-------------------|-------------------|--------------------|---------------------|---------------------|--------------------|--------------------|
| | General Funds | Endowed Funds | Special Funds | Total | General Funds | Endowed Funds | Special Funds | Total |
| REVENUE | | | | | | | | |
| Donations | P1,724,534 | P4,685,706 | P43,926,327 | P46,336,567 | P463,454 | P1,690,000 | P83,780,487 | P85,933,941 |
| EXPENSES | | | | | | | | |
| Programs | | | | | | | | |
| Professional chair awards | 8,860,000 | 8,400,000 | 17,260,000 | 17,260,000 | - | 7,960,000 | 7,764,541 | 15,724,541 |
| College of Engineering modernization | - | 13,617,652 | - | 13,617,652 | - | - | 39,849,908 | 39,849,908 |
| Scholarship grants and student awards | 200,765 | 11,146,733 | 11,347,498 | 11,347,498 | - | 998,303 | 14,071,002 | 15,069,305 |
| Research and research awards | 1,080,000 | - | 1,080,000 | 1,080,000 | - | 1,410,000 | - | 2,490,000 |
| COE staff research awards | - | 356,869 | - | 356,869 | - | - | 886,316 | 886,316 |
| Publication (Philippine Engineering Journal) | 119,119 | - | - | 119,119 | - | - | 43,167 | 43,167 |
| Research and development | 59,167 | - | - | 59,167 | - | 43,167 | - | 308,274 |
| COE staff support | - | - | - | - | - | - | 50,000 | 50,000 |
| Program and startup projects | - | - | 3,078,454 | 3,078,454 | - | - | 1,129,602 | 1,129,602 |
| Administration | | | | | | | | |
| Salaries and benefits | 2,236,061 | 63,000 | 2,299,061 | 2,299,061 | 1,619,186 | - | - | 1,619,186 |
| Maintenance and operating | 1,709,835 | - | 23,978 | 1,733,813 | 855,921 | - | - | 855,921 |
| Depreciation (Note 7) | 15,171 | - | - | 15,171 | 7,704 | - | - | 7,704 |
| Office | - | - | - | - | - | - | - | - |
| Bad debts | - | - | - | - | 4,456,673 | - | - | 4,456,673 |
| Miscellaneous expense | 1,416,593 | - | 255,786 | 1,672,379 | 706,347 | - | - | 706,347 |
| | 5,406,679 | 10,199,932 | 36,972,472 | 52,668,883 | 7,645,831 | 10,411,470 | 64,689,643 | 82,746,844 |
| EXPENSE (DEFICIENCY) OF REVENUE | (P3,771,945) | P4,685,774 | P6,953,855 | P7,867,684 | (P7,182,377) | (P8,721,470) | P19,090,844 | P3,186,997 |
| OTHER INCOME (LOSS) | | | | | | | | |
| Interest income (Notes 4 and 6) | 12,598,897 | - | 478,074 | 13,076,971 | 12,847,633 | - | 312,500 | 13,160,133 |
| Gain (loss) from sale of investments (Note 6) | 6,791,325 | - | - | 6,791,325 | 1,698,755 | - | - | 1,698,755 |
| Unrealized gains on investments | 3,600,907 | - | - | 3,600,907 | 1,183,834 | - | - | 1,183,834 |
| Dividend income (Note 6) | 1,004,648 | - | - | 1,004,648 | (737,523) | - | - | (737,523) |
| Foreign exchange gain (loss) - net | - | - | - | - | 2,415,533 | - | - | 2,415,533 |
| Realized gain on fund value | - | - | - | - | 2,383,817 | - | - | 2,383,817 |
| Miscellaneous | 31,786,526 | - | -478,074 | 32,324,600 | 2,197,932 | - | 312,500 | 21,362,932 |
| EXPENSE (DEFICIENCY) OF REVENUE OVER EXPENSES BEFORE FINAL TAX | 27,984,881 | 4,685,774 | 7,431,929 | 40,102,284 | 13,888,055 | (8,721,470) | 19,403,344 | 24,569,929 |
| PROVISION FOR INCOME TAX - Final | 1,985,198 | - | - | 1,985,198 | 1,411,196 | - | - | 1,411,196 |
| EXPENSE (DEFICIENCY) OF REVENUE OVER EXPENSES | 25,999,683 | 4,685,774 | 7,431,929 | 38,117,386 | 12,476,859 | (8,721,470) | 19,403,344 | 23,158,733 |
| OTHER COMPREHENSIVE LOSS | | | | | | | | |
| <i>To be reclassified to profit or loss in subsequent periods: Unrealized changes in fair value of investments (Note 6)</i> | <i>(3,436,596)</i> | <i>-</i> | <i>-</i> | <i>(3,436,596)</i> | <i>(1,631,142)</i> | <i>-</i> | <i>-</i> | <i>(1,631,142)</i> |
| TOTAL COMPREHENSIVE INCOME (LOSS) | P22,563,287 | P4,685,774 | P7,431,929 | P34,680,990 | P3,834,583 | (P8,721,470) | P19,403,344 | P6,847,291 |

See accompanying Notes to Financial Statements



UP ENGINEERING RESEARCH AND DEVELOPMENT FOUNDATION, INC.
(A Nonstock, Not-for-profit Organization)
STATEMENTS OF CHANGES IN FUND BALANCES
FOR THE YEARS ENDED DECEMBER 31, 2024 AND 2023

| | General Funds (Note 9) | Endowed Funds (Note 9) | Special Funds (Note 9) | Total |
|--|------------------------------|------------------------------|------------------------------|----------------------|
| BALANCES AT DECEMBER 31, 2022 | \$50,014,521 | \$255,744,975 | \$14,557,148 | \$320,316,644 |
| Excess (deficiency) of revenue over expenses | 12,476,859 | (8,721,470) | 19,403,344 | 23,158,733 |
| Other comprehensive loss | (16,311,442) | — | — | (16,311,442) |
| Total comprehensive income (loss) | (3,834,583) | (8,721,470) | 19,403,344 | 6,847,291 |
| Reclassification of fund balances (Note 9) | — | (28,202,313) | 28,202,313 | — |
| Net changes in fund balances | (3,834,583) | (36,923,783) | 47,605,657 | 6,847,291 |
| BALANCES AT DECEMBER 31, 2023 | 46,179,938 | 218,821,192 | 62,162,805 | 327,163,935 |
| Excess of revenue over expenses | 25,999,383 | 4,685,774 | 7,431,929 | 38,117,086 |
| Other comprehensive loss | (3,436,596) | — | — | (3,436,596) |
| Total comprehensive income | 22,562,787 | 4,685,774 | 7,431,929 | 34,680,490 |
| Reclassification of fund balances (Note 9) | (6,200,397) | 6,901,507 | (701,110) | — |
| Net changes in fund balances | 16,362,390 | 11,587,281 | 6,730,819 | 34,680,490 |
| BALANCES AT DECEMBER 31, 2024 | \$62,542,328 | \$230,408,473 | \$68,893,624 | \$361,844,425 |

See accompanying Notes to Financial Statements.



UP ENGINEERING RESEARCH AND DEVELOPMENT FOUNDATION, INC.
(A Nonstock, Not-for-profit Organization)
STATEMENTS OF CASH FLOWS

| | Years Ended December 31 | 2024 | 2023 |
|---|-------------------------|---------------------|---------------------|
| CASH FLOWS FROM OPERATING ACTIVITIES | | \$40,102,284 | \$24,569,929 |
| Excess of revenue over expenses before final tax | | (13,076,971) | (13,160,133) |
| Adjustments for: | | (3,600,907) | (1,183,834) |
| Interest income (Note 6) | | (1,004,648) | 737,523 |
| Dividend income (Note 6) | | 15,171 | 7,704 |
| Foreign exchange loss (gain) | | — | 4,456,673 |
| Depreciation (Note 7) | | 22,434,929 | 15,427,862 |
| Loss on write off of receivables (Note 5) | | 2,445,558 | (5,462,781) |
| Excess of revenue over expenses before working capital changes | | 3,953,894 | 1,343,566 |
| Decrease (increase) in receivables | | 28,834,381 | 11,308,647 |
| Increase in accounts payable and other current liabilities | | — | — |
| Net cash from operating activities | | (86,373,543) | (269,605,649) |
| CASH FLOWS FROM INVESTING ACTIVITIES | | 43,842,213 | 237,082,826 |
| Acquisition of investments (Note 6) | | 11,091,773 | 11,748,937 |
| Proceeds from sale of investments (Note 6) | | 3,600,907 | 1,183,834 |
| Interest received (Notes 5 and 6) | | — | (69,310) |
| Dividends received (Note 6) | | (27,838,650) | (19,659,362) |
| Acquisition of property and equipment (Note 7) | | 1,004,648 | (737,523) |
| Net cash used in investing activities | | 2,000,379 | (9,088,238) |
| EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS | | 27,523,309 | 36,611,547 |
| NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS | | \$29,523,688 | \$27,523,309 |
| CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR | | \$29,523,688 | \$27,523,309 |
| CASH AND CASH EQUIVALENTS AT END OF THE YEAR | | \$59,047,377 | \$55,046,618 |

See accompanying Notes to Financial Statements.



1. Corporate Information and Objectives, and Authorization for Issuance of the Financial Statements

Corporate Information and Objectives

The UP Engineering Research and Development Foundation, Inc. (the "Foundation") was incorporated in the Philippines and was registered with the Philippine Securities and Exchange Commission (SEC) on August 3, 1972 as a nonstock, not-for-profit organization. It was organized primarily to establish and provide a private institutional medium that will initiate, sponsor, promote, assist or conduct programs and projects geared towards research and development in the various fields of engineering and other related sciences or fields of endeavor. No part of the excess of revenues over expenses or assets of the Foundation inures to or belongs to any officer, member or private individual. The Foundation's registered office address is Room 218, Junio Hall, UP Campus, Diliman, Quezon City.

The Foundation has been granted by the Bureau of Internal Revenue (BIR) an exemption from payment of income tax as a corporation organized purely for scientific purposes as contemplated by Section 30(E) of the National Internal Revenue Code, as amended in 1998.

The Foundation is accredited by the Department of Science and Technology as a Science and Technology Foundation.

The Foundation was granted by the Philippine Council for NGO Certification (PCNC) the status of a certified donee institution on April 20, 2004. Such accreditation is in accordance with the provisions of Revenue Regulations (RR) No. 13-98 effective January 1, 1999. Accordingly, donations received shall entitle the donor/s to full or limited deduction pursuant to Section 34 (H) (1) or (2) and exemption from donor's tax pursuant to Section 101 (A) (3) of the National Internal Revenue Code of 1997, subject to the representations and commitments set forth in the application for accreditation filed with the PCNC.

In full compliance with periodic PCNC renewal processes, the Foundation received its PCNC Certificate of Accreditation for five years on October 27, 2021 valid until October 26, 2026, and its BIR Certificate of Registration # 141-2024 on November 19, 2024, good for two years until October 26, 2026.

Authorization for Issuance of the Financial Statements

The financial statements of the Foundation as of December 31, 2024 and 2023 and for the years then ended, were approved for issuance by the Board of Trustees, on April 29, 2025.

2. Summary of Significant Accounting Policies and Financial Reporting Practices

Basis of Preparation

The financial statements of the Foundation have been prepared under the historical cost basis, except for financial assets measured at fair value. The financial statements are presented in Philippine peso (Peso), which is the Foundation's functional and presentation currency. All amounts are rounded to the nearest Peso, except when otherwise indicated.

Statement of Compliance

The Foundation's financial statements have been prepared in accordance with the Philippine Financial Reporting Standards for Small and Medium-sized Entities (PFRS for SMEs) Accounting Standard.



Basic Financial Instruments

The Foundation's basic financial instruments are composed of financial assets and financial liabilities. Financial assets consist of the Foundation's cash and cash equivalents, accrued interest receivables and investments. Financial liabilities consist of accounts payable, accrued expenses and trust fee payables.

Initial recognition and measurement

The Foundation recognizes a financial asset or a financial liability only when it becomes a party to the contractual provisions of the instrument. A financial asset or financial liability, except for those designated at fair value through profit or loss (FVPL), is initially measured at their transaction price including transaction costs, unless the arrangement constitutes, in effect, a financing transaction. If the arrangement constitutes a financing transaction, the Foundation measures the financial asset or financial liability at the present value of the future payments discounted at a market rate of interest for a similar debt instrument.

Subsequent measurement

At the end of each financial reporting period, the Foundation measures a financial asset or financial liability, as follows, without any deduction for transaction costs which the Foundation may incur on sale or disposal:

- debt instruments are measured at amortized cost using EIR method. Debt instruments that are classified as current assets or current liabilities shall be measured at the undiscounted amount of the cash or other consideration expected to be paid or received (i.e. net of impairment) unless the arrangement constitutes, in effect, a financing transaction. If the arrangement constitutes a financing transaction, the Foundation measures the debt instrument at the present value of the future payments discounted at a market rate of interest for a similar debt instrument. Interest income earned from debt instruments are recognized as interest income of the Foundation.
- commitments to receive a loan that permit the issuer to prepay a debt instrument or permit the holder to put it back to the issuer before maturity shall be measured at cost less any impairment, and investments in non-contractible preference shares and non-puttable ordinary or preference shares are measured at fair value. If the shares are publicly traded or their fair value can otherwise be measured reliably, the investments are measured at fair value with changes in fair value recognized in additions to or deductions from fund balances in the statement of revenue and expenses. All other investments are measured at cost less any impairment.
- the amortized cost of a financial asset or financial liability is the present value of future cash flows discounted at the effective interest rate and the related interest income or expense is equal to the carrying amount of the financial asset or financial liability at the beginning of the financial reporting period multiplied by the effective interest rate.

Offsetting of Financial Instruments

Financial assets and financial liabilities are offset and the net amount reported in the statements of assets, liabilities and fund balances if there is a currently enforceable legal right to offset the recognized amounts and there is intention to settle on a net basis, or to realize the asset and settle the liability simultaneously. The Foundation assesses that it has a currently enforceable right of offset if the right is not contingent on a future event, and is legally enforceable in the normal course of business, event of default, and event of insolvency or bankruptcy of the Foundation and all of the counterparties.

Impairment of Financial Assets

The Foundation assesses at each financial reporting date whether there is objective evidence of impairment for financial assets that are measured at amortized cost. If there is objective evidence of impairment, the Foundation recognizes an impairment loss as deductions from the fund balances in the



Summary of Significant Accounting Policies

The significant accounting policies that have been used in the presentation of the financial statements are summarized below. These accounting policies have been applied to all the years presented, unless otherwise stated.

Current versus Noncurrent Classification

The Foundation presents assets and liabilities in statements of assets, liabilities and fund balances based on current/non-current classification. An asset is current when it is:

- Expected to be realized or intended to be sold or consumed in normal operating cycle;
- Held primarily for the purpose of trading;
- Expected to be realized within 12 months after the reporting period; or
- Cash or cash equivalent unless restricted from being exchanged or used to settle a liability for at least 12 months after the reporting period.

All other assets are classified as noncurrent.

A liability is current when:

- It is expected to be settled in normal operating cycle;
- It is held primarily for the purpose of trading;
- It is due to be settled within 12 months after the reporting period; or
- There is no unconditional right to defer the settlement of the liability for at least 12 months after the reporting period.

The Foundation classifies all other liabilities as noncurrent.

Cash and Cash Equivalents

Cash is comprised of cash in banks. Cash equivalents are short-term, highly liquid investments that are readily convertible to known amounts of cash with original maturities of up to three months or less from dates of acquisition, and that are subject to an insignificant risk of change in value.

Receivables

Receivables include those arising from advances, interest and others. Receivables arising from advances for administration and projects are recognized initially at original invoice amount while interest receivable are recognized at the nominal amount of interest that would be received from financial institutions. Where credit is extended beyond normal credit terms, receivables are measured at amortized cost using the effective interest rate (EIR) method. At the end of each reporting date, the carrying amounts of receivables are reviewed to determine whether there is any objective evidence that the amounts are not recoverable. If so, an impairment loss is recognized immediately in excess of revenue over expenses under the statements of revenues and expenses and the carrying value of the receivable is reduced through the use of an allowance account. Amounts which the Foundation deems fully uncollectible are directly written off against the related receivables.

If there is objective evidence that an impairment loss on receivables has been incurred, the amount of the loss is measured as the difference between the asset's carrying amount and the present value of estimated future cash flows (excluding future credit losses that have not been incurred) discounted at the receivables' original effective interest rate (i.e., the effective interest rate computed at initial recognition).



statements of revenue and expenses immediately. A financial asset or a group of financial assets is deemed to be impaired if, and only if, there is objective evidence of impairment as a result of one or more events that have occurred after the initial recognition of the asset (an incurred "loss event") and that loss event (or events) has an impact on the estimated future cash flows of the financial asset or the group of financial assets that can be reliably estimated. Evidence of impairment may include indications that the contracted parties or a group of contracted parties is experiencing significant financial difficulty, default or delinquency in interest or principal payments, the probability that they will enter bankruptcy or other financial reorganization, and where observable data indicate that there is measurable decrease in the estimated future cash flows, such as changes in arrears or economic conditions that correlate with defaults.

Derecognition of Financial Assets and Financial Liabilities

Financial assets

A financial asset (or, where applicable, a part of a financial asset or part of a group of similar financial assets) is primarily derecognized (i.e., removed from the Foundation's statements of assets, liabilities and fund balances) when:

- The rights to receive cash flows from the asset have expired; or
- The Foundation has transferred its rights to receive cash flows from the asset or has assumed an obligation to pay the received cash flows in full without material delay to a third party under a "pass-through" arrangement; and either (a) the Foundation has transferred substantially all the risks and rewards of the asset, or (b) the Foundation has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset.

When the Foundation has transferred its rights to receive cash flows from an asset or has entered into a pass-through arrangement, it evaluates if, and to what extent, it has retained the risks and rewards of ownership. When it has neither transferred nor retained substantially all of the risks and rewards of the asset, nor transferred control of the asset, the Foundation continues to recognize the transferred asset to the extent of its continuing involvement. In that case, the Foundation also recognizes an associated liability. The transferred asset and the associated liability are measured on a basis that reflects the rights and obligations that the Foundation has retained.

Continuing involvement that takes the form of a guarantee over the transferred asset is measured at the lower of the original carrying amount of the asset and the maximum amount of consideration that the Foundation could be required to repay.

Financial liabilities

A financial liability is derecognized when the obligation under the liability is discharged or cancelled or expires. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as the derecognition of the original liability and the recognition of a new liability. The difference in the respective carrying amounts is recognized in the statements of revenue and expenses.

The Foundation recognizes as additions to or deductions from the fund balances in the statements of revenue and expenses any difference between the carrying amount of the financial liability, or part of a financial liability, extinguished or transferred to another party and the consideration paid, including any non-cash assets transferred or liabilities assumed.

Fund Balances

The Fund Balances account represents the cumulative balance of excess or deficiency of revenue over expenses. General funds are funds created to sustain the administrative activities of the Foundation.



Endowed funds are funds established to continuously support and assist the research and development activities of the Foundation. Special funds are funds intended for research and development and engineering-related purposes. Any income arising from the funds are recognized as income by the Foundation.

Revenue

Revenue is recognized to the extent that it is probable that the economic benefits will flow to the Foundation and the revenue can be reliably measured. The Foundation assesses its revenue arrangements against specific criteria in order to determine if it is acting as a principal or an agent. The Foundation has concluded that it is acting as a principal in all of its revenue arrangements. The following recognition criteria must also be met before revenue is recognized:

Revenue from donations

Donations and grants are recognized on the date of receipt. All donations and grants received are considered available for general use unless specifically restricted by the respective donors or grantors.

Revenue from projects, and research and development activities

Revenue is recognized upon collection.

Interest income

Interest income is recognized as the interest accrues.

Dividend income

Dividend income is recognized when the Foundation's right to receive the dividend is established.

Expenses

Expenses are recognized in the statements of revenue and expenses when a decrease in future economic benefits related to a decrease in an asset or an increase of a liability has arisen that can be measured reliably. Expenses are recognized in the period in which they are incurred.

Foreign Currency Transactions

Transactions in currencies other than the Peso are initially recorded using the exchange rate prevailing at the transaction date. Outstanding monetary assets and liabilities denominated in foreign currencies are restated at the functional currency closing exchange rate at the financial reporting date.

Provisions and Contingencies

Provisions are recognized when the Foundation has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the obligation.

Contingencies are not recognized in the financial statements, but disclosed unless the possibility of an outflow of resources embodying economic benefits is remote. A contingent asset is not recognized in the financial statements but disclosed in the notes to financial statements when an inflow of economic benefits is probable.

Events After the End of Reporting Period

Events after the end of financial reporting period that provide additional information on the Foundation's financial position at the end of the reporting period (adjusting events) are reflected in the financial statements. Events after the end of financial reporting period that are not adjusting events are disclosed in the Notes to Financial Statements when material.



Impairment of financial assets measured at cost and amortized cost

The Foundation treats financial assets measured at cost and amortized cost as impaired when there is objective evidence of impairment. The assessment whether there is an objective evidence of impairment involves significant judgment. In making this judgment, the Foundation evaluates and determines whether the contracted parties or a group of contracted parties is experiencing significant financial difficulty, default or delinquency in interest or principal payments, whether it is probable that they will enter bankruptcy or other financial reorganization, and where observable data indicate that there is measurable decrease in the estimated future cash flows, such as changes in arrears or economic conditions that correlate with defaults. If there is objective evidence of impairment, the Foundation shall recognize an impairment loss directly as deduction from the fund balances in the statements of revenue and expenses. There were no indications of impairment in 2024 and 2023.

Estimation of allowance for doubtful accounts

Allowance for doubtful accounts are recognized for accounts specifically identified to be doubtful of collection. Recoverability of specific receivables is evaluated based on the best available facts and circumstances, the relationship of the debtor with the Foundation and the length of such relationship, and the debtor's payment behavior and financial condition. The Foundation reviews the age and status of receivables, and identifies accounts that are to be provided with allowances on a continuous basis.

The Foundation has no allowance for doubtful accounts as of December 31, 2024 and 2023. The carrying values of receivables amounted to P3.2 million and P5.6 million as of December 31, 2024 and 2023, respectively (see Note 5).

4. Cash and Cash Equivalents

| | 2024 | 2023 |
|------------------|--------------------|--------------------|
| Cash in banks | P19,479,456 | P4,682,810 |
| Cash equivalents | 10,044,232 | 22,840,499 |
| | P29,523,688 | P27,523,309 |

Cash in banks earns interest at the respective bank deposit rates. Cash equivalents consist of short-term investments made for varying periods of up to three months depending on the immediate cash requirements of the Foundation and earn interest at the respective short-term investment rates.

Interest income earned from cash in bank amounted to P0.01 million in 2024 and 2023.

5. Receivables

| | 2024 | 2023 |
|---------------------------|-------------------|-------------------|
| Advances for: | | |
| Projects | P420,393 | P315,243 |
| Employee | 30,387 | 30,387 |
| Administration | - | 21,350 |
| Accrued interest (Note 6) | 2,499,445 | 5,006,766 |
| Others | 208,213 | 230,250 |
| | P3,158,438 | P5,603,996 |

The advances for projects are funds advanced for the purchase of supplies used for research and other related purposes.



3. Significant Judgments, Accounting Estimates and Assumptions

The preparation of the financial statements in accordance with PFRS for SMEs Accounting Standard requires management to make judgments, estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. The judgments, estimates and assumptions used in the financial statements are based on management's evaluation of the relevant facts and circumstances as of the date of the financial statements.

Accounting assumptions, estimates and judgments are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

Judgments and Estimates

In the process of applying the Foundation's accounting policies, management has made the following judgments, apart from those involving estimations, which have the most significant effects on amounts recognized in the financial statements:

Assessment of the breach of thresholds for SMEs

Under the Revised Securities Regulation Code (SRC) Rule 68, an entity is classified as a Medium-sized Entity if all of the following criteria are met:

- Total assets of more than P100.00 million to P350.00 million or total liabilities of more than P100.00 million to P250.00 million. If the entity is a parent company, the said amounts shall be based on the consolidated figures.
- Are not issuers of securities to the public.
- Are not in the process of filing their financial statements for the purpose of issuing any class of instruments in a public market.
- Are not holders of secondary licenses issued by regulatory agencies.

If an entity that uses PFRS for SMEs Accounting Standard in a current year breaches the floor or ceiling of the size criteria at the end of that current year, and the event that caused the change is considered "significant and continuing", the entity shall transition to the applicable financial reporting framework in the next accounting period. If the event is not considered "significant and continuing", the entity can continue to use the same financial reporting framework it currently uses.

The SRC allows management to judge what is "significant and continuing" based on relevant qualitative and quantitative factors. As a general rule, 20% or more of the total assets or total liabilities would be considered significant.

The Foundation breached the assets threshold as at December 31, 2024. Based on management's assessment, the investment which represents 91% of the total assets, will depend on the donations that the Foundation will receive, which is beyond their control. This event that caused the breach is not considered "significant and continuing".

Classification of basic financial instruments

The Foundation exercises judgment in classifying a basic financial instrument, or its component parts, on initial recognition as either a financial asset, a financial liability or an equity instrument in accordance with the substance of the contractual arrangement and the definition of a financial asset, a financial liability or an equity instrument. The substance of a basic financial instrument, rather than its legal form, governs its classification in the statements of assets, liabilities and fund balances.

The management has written off long outstanding receivables amounting P4.5 million in 2023.

Interest collected amounted to P11.1 million and P11.8 million in 2024 and 2023, respectively.

6. Investments

As of December 31, 2024:

| | AB CAPITAL | In-house Managed | Total |
|--------------------------------|---------------------|------------------|---------------------|
| Debt securities: | | | |
| Government bonds | P130,172,223 | P- | P130,172,223 |
| Corporate notes | 23,154,001 | - | 23,154,001 |
| | 153,326,224 | - | 153,326,224 |
| Equity securities: | | | |
| Shares of stocks | 98,016,728 | 921,832 | 98,938,560 |
| Accumulated fair value changes | (3,436,596) | - | (3,436,596) |
| | 94,580,132 | 921,832 | 95,501,964 |
| Mutual funds | 85,587,136 | - | 85,587,136 |
| Total Investments | P333,493,492 | P921,832 | P334,415,324 |

As of December 31, 2023:

| | AB CAPITAL | In-house Managed | Total |
|--------------------------------|---------------------|--------------------|---------------------|
| Debt securities: | | | |
| Government bonds | P146,365,738 | P- | P146,365,738 |
| Corporate notes | 30,669,596 | 12,000,000 | 42,669,596 |
| | 177,035,334 | 12,000,000 | 189,035,334 |
| Equity securities: | | | |
| Shares of stocks | 47,719,626 | 13,714,941 | 61,434,567 |
| Accumulated fair value changes | (16,311,442) | - | (16,311,442) |
| | 31,408,184 | 13,714,941 | 45,123,125 |
| Mutual funds/UITF | 61,162,131 | - | 61,162,131 |
| Total Investments | P269,605,649 | P25,714,941 | P295,320,590 |

The Foundation's investment are broken down as follows:

| | 2024 | 2023 |
|-------------------------------|---------------------|---------------------|
| Financial Assets at FVPL | P179,727,012 | P118,285,256 |
| Financial Assets at FVOCI | 154,688,312 | 177,035,334 |
| Balance at end of year | P334,415,324 | P295,320,590 |

The movement of the Foundation's total investment portfolio follows:

| | 2024 | 2023 |
|--|---------------------|---------------------|
| Balance at beginning of year | P295,320,590 | P279,109,209 |
| Acquisitions | 86,373,543 | 269,605,649 |
| Retirement | (43,842,213) | (237,082,826) |
| Fair value changes for the year, including those recycled through profit or loss | (3,436,596) | (16,311,442) |
| Balance at end of year | P334,415,324 | P295,320,590 |



Presented below are the movements in the accumulated fair value changes and allowance for probable losses of investments:

| | AB CAP / MBTC | In-house Managed | Total |
|---|----------------------|--------------------|----------------------|
| As of December 31, 2022 | (P8,839,457) | P14,602,965 | P5,763,508 |
| Unrealized loss on changes in fair values | (16,311,442) | - | (16,311,442) |
| As of December 31, 2023 | (25,150,899) | 14,602,965 | (10,547,934) |
| Unrealized loss on changes in fair values | (3,436,596) | - | (3,436,596) |
| As at December 31, 2024 | (P28,587,495) | P14,602,965 | (P13,984,530) |

Interest income from these investments amounted to P13.1 million and P13.2 million in 2024 and 2023, respectively. Accrued interest receivable amounted to P2.5 million and P5.0 million as of December 31, 2024 and 2023, respectively (see Note 5). Gain from sale of investment amounted to P7.8 million in 2024 and loss from sale of investment amounted to P1.6 million in 2023. Fair values of investments in equity securities are based on the quoted market prices at the close of business at the end of the reporting period.

Dividends received from the investment in house managed amounted to P3.6 million in 2024 and P1.2 million in 2023.

7. Property and Equipment

| | 2024 | 2023 |
|---------------------------------|----------------|---------|
| Cost - Office Equipment | | |
| Balance at beginning of year | P93,830 | P24,520 |
| Additions | - | 69,310 |
| Balance at end of year | 93,830 | 93,830 |
| Accumulated Depreciation | | |
| Balance at beginning of year | 17,976 | 10,272 |
| Depreciation | 15,171 | 7,704 |
| Balance at end of year | 33,147 | 17,976 |
| Net Book Values | P60,683 | P75,854 |

8. Accounts Payable and Other Current Liabilities

| | 2024 | 2023 |
|---|-------------------|------------|
| Accounts payable | P- | P13,080 |
| Accrued expenses | 5,276,892 | 739,506 |
| Trust fees payable | 108,660 | 697,612 |
| Withholding taxes | 128,964 | 112,476 |
| Social Security System (SSS), Philhealth, and Home Development Mutual Fund (HDMF) contributions | 47,929 | 45,877 |
| | P5,562,445 | P1,608,551 |

Accounts payables are non-interest bearing and are normally payable 30 to 60-day credit term.

Accrued expenses pertain to accrual of professorial chair, faculty awards and student's scholarship.



UPERDFI Golden Jubilee fundraising, UPSCO - Industry and Government Linkage with Academe Program (IGLAP), and Road Applications of Cement Project from special funds to general funds, amounting to P0.7 million. The Special Funds consist of the following funds:

| | 2024 | 2023 |
|---|--------------------|-------------|
| Programs | | |
| Annual Professorial Chair Fund | P11,700,223 | P10,429,792 |
| UPSCO Modernization Fund | 11,630,385 | 4,800,230 |
| Annual Scholarships and Student Awards Fund | 6,789,463 | 3,338,325 |
| UPSCO - Institute of Civil Engineering | 693,915 | 693,915 |
| UPSCO-NEC Department Share | 353,952 | 724,821 |
| Annual Teaching and Research Awards | 324,300 | - |
| UPSCO - Industry and Government Linkage with Academe Program (IGLAP) | - | 12,076 |
| Projects | | |
| EEEE Labs Upgrade | 9,879,580 | 19,585,191 |
| D.M. Consumji Projects | 7,327,353 | - |
| UPERDFI@50 Projects | 525,290 | 456,696 |
| Co-Managed Projects | | |
| UPAE Study Now Pay Later Program | 10,729,781 | 11,805,000 |
| UPSCALE - Accenture 2.0 | 2,801,838 | 938,648 |
| Department of Mining, Metallurgical and Materials Engineering (DMMME) | 2,020,965 | 3,799,023 |
| Special Projects - Student Wellbeing | 1,880,000 | 1,880,000 |
| Tau Alpha Infinity Walk | 920,000 | 920,000 |
| Engkansya | 617,862 | 617,862 |
| UPIE Golden Pillars Project | 616,696 | 1,220,450 |
| Department of Chemical Engineering Building | 255,429 | 255,429 |
| Industrial/Mechanical Engineering Building | 163,404 | 163,404 |
| Tau Alpha Student Loan Guarantee | 121,328 | 121,328 |
| Special Projects Honorarium | 28,941 | 28,941 |
| IE 298 Class Hackathon | 19,454 | 28,271 |
| Road applications of cement project | - | 232,338 |
| Others | 93,465 | 111,065 |
| | P68,893,624 | P62,162,805 |

10. Supplementary Information Required Under RR Nos. 34-2020 and 15-2010

Supplementary Information Required under Revenue Regulations No. 34-2020

The Foundation is not covered by the requirements and procedures for related party transactions specifically on the submission of the Information Return on Transactions with Related Party (BIR Form No. 1709) provided under Section 2 of Revenue Regulations No. 19-2020, as amended by Revenue Regulations No. 34-2020.

Supplementary Information Required under Revenue Regulations No. 15-2010

In compliance with Bureau of Internal Revenue - Revenue Regulations No. 15-2010, issued on November 25, 2010, mandates all taxpayers to disclose information on taxes, duties and licenses paid or accrued during the taxable year, summarized below are the taxes paid and accrued by the Foundation as of December 31, 2024.



Trust fees payable pertains to fees charged by AB Capital for managing the Foundation's investments.

9. Fund Balances

General Funds

These are funds created to sustain the administrative activities of the Foundation. Based on a decision of the Board of Trustees on November 22, 2023, the three elements, namely: General Fund, Intel Fund, and Project Fund were aggregated into one account called the General Fund. In 2024, the remaining balances of long-closed projects: the UPSCO - Industry and Government Linkage with Academe Program (IGLAP) and the Road Applications of Cement Project have been moved from special funds to general funds. The balance of General Funds amounted to P62,542,328 and P46,179,938 in December 31, 2024 and 2023, respectively.

Endowed Funds

These are funds established to continuously support and assist the research and development activities of the National Hydraulic Resource Center (NHRC), National Engineering Center (NEC) and University of the Philippines College of Engineering (UPCOE), professorial chairs, technology development and strategic studies, teaching and research grants, scholarships, faculty development and the implementation of awards and incentives. Most of these are perpetual in nature and self-sustaining since these are interest-bearing funds, while other funds are also classified under this fund to reflect their continuity and long-term nature. In 2023, Management reclassified the annual professorial chair awards and annual scholarships and student awards from endowed to special funds amounting to P28.2 million. In 2024, Management reclassified the interest and dividend income from general funds

amounting to P6.90 million to the endowed fund's Professorial Chair Trust Fund. Endowed funds consist of the following:

| | 2024 | 2023 |
|---|---------------------|--------------|
| Professorial Chair Trust Fund | P161,837,275 | P148,530,062 |
| NEC Research and Development Fund | 21,493,982 | 21,493,982 |
| UPCOE Research and Development Fund | 12,667,189 | 12,726,356 |
| Technology Development and Strategic Studies Fund | 11,989,774 | 11,989,774 |
| NHRC Research and Development Fund | 7,402,591 | 7,402,591 |
| Faculty Development Fund | 5,133,252 | 5,596,402 |
| Faculty and Staff Awards Fund | 3,556,904 | 3,936,904 |
| Special-Purpose Fund | 3,203,996 | 3,203,996 |
| Student Scholarships and Awards Fund | 3,100,090 | 3,300,855 |
| Department of Chemical Engineering | 23,420 | 23,420 |
| Teaching Grants Fund | - | 616,850 |
| | P230,408,473 | P218,821,192 |

Special Funds

These are funds intended for research and development and engineering-related purpose, but some special-purpose project funds, such as those which are continuing and long-term in nature, may also be classified under other funds. In 2023, Management reclassified the annual professorial chair awards and annual scholarships and student awards from endowed funds to special funds amounting to P28.2 million. In 2024, the Management reclassified the remaining funds from completed projects of 2022.



The Foundation reported and/or paid the following types of taxes in 2024:

a. Withholding Taxes

The details of the Foundation's withholding taxes paid in 2024 are as follows:

| | |
|--|-----------------|
| Expanded withholding taxes | P345,846 |
| Withholding taxes on compensation and benefits | 73,269 |
| | P419,115 |

b. Documentary Stamp Tax

There has been no payment of any documentary stamp tax on loan instruments or other transactions subject thereto during the year ended December 31, 2024.

c. Tax Assessment and Cases

The Foundation has not received any Final Assessment Notice or Formal Letter of Demand from the BIR for its open years. Likewise, the Foundation has no other pending tax cases outside the administration of the BIR as of December 31, 2024.

RARING TO GO: MEET THE UPERDFI 2025-26 LEADERSHIP TEAM

A new chapter rooted in purpose, powered by partnership, and driven by transformation gears up.

Together, we will:

- ✓ Back research with real-world impact
- ✓ Build deeper industry, civil society and alumni across the globe
- ✓ Champion engineers who deliver results and lead with competence and conscience
- ✓ Uphold ESG principles in all we do
- ✓ Engineer a better Philippines

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