Through the years, Mapúa Institute of Technology has been in the forefront of technological innovation and advancement. Celebrating 91 years of world-class education offered not only to Filipinos but also to international students, Mapúa continues to live up to its leading role in engineering, architecture and technology education.

The Institute was founded by Tomas Mapúa, the first Filipino registered architect in 1925. He held that technology is the most effective means of smoothing out the country’s economic and social ills, and believed with intense faith in the youth who belong to the middle and working class to whom he dedicated and opened the Institute.

With a change in ownership at the turn of the century, the Institute, now under the helm of Ambassadour Alfonso T. Yachengen, envisioned a mission of being a global center of excellence. In the last 93 years, it has moved aggressively towards the attainment of this vision with its trailblazing move towards internationalization. It has adopted its pioneer pursuit of outcomes-based education.

After the ASEAN, Mapúa remains true to the vision of those pillars of the Institute as it celebrates its founding anniversary with events lined up for the week from January 23 to 30.

91 years of excellence

“Motivated to go ‘farther and greater,’ Mapúa prepares itself for the challenges of globalization and innovation. Hence, Mapúa continues to strengthen its global orientation, engineering and technology programs,” School of Multimedia and Visual Arts Dean Arnold P. Cinusco said. MISTA is this year’s organizing committee for the Foundation Week with the theme “Further... Greater.”

The celebration will kick off with the annual Parade of Excellence. The opening event will also include the Institute’s First Multi-disciplinary Outcomes-Based Education (OBE) Conference, which is slated on the third day of the foundation week. The conference will serve as another platform for Mapua faculty and students to further enhance the implementation of OBE in the Institute. Mapúa, being the first school in the Philippines to fully opt for OBE, has enjoyed significant progress in student growth and board exam performance. The conference is meant to underscore the continued commitment of the Institute in the achievements in the morning of January 26.

The student body also has activities in store for the most momentous week in Mapúa history.

Central to this year’s parade president John Alfred Silion III, fourth-year student taking Electronics Engineering, said that activities will showcase students’ talent, class, and beauty with Mr. and Mrs. Camus. Technical exhibits will be showcased in North and South Circles for the Intramuros Campus, and in the lobby for the Makati campus, for the whole week.

Highlighting current issues

Mapúa will also highlight current issues with significant impact to society in two major lecture series as part of the lineup of the activities for the Foundation Week. The first one will be “Macau: The Future Challenges and Implications to the Engineering and Technology Professions,” the second one, which is part of the Heritage and Industry Lecture Series, will be “Responding to Global Warming, and Climate Change.”

The Macau Seminar, a general seminar of the Foreign Service Institute (FSI) will graze the ASEAN Integration seminar as one of the key speakers. Along with him is Dr. Henelito A. Arcilla, Jr. of the University of the Philippines and George N. Manios who have deep involvement in Mapúa’s concern for the environment.

Other speakers in the lecture series will be two Mapúa alumni who have significant contributions to the global warming issue—Engr. Lauretito M. Pumalan, Founding President and current chairman of the Philippines Green Building Council, Arch. Ethelilo Pumalan, Vice President for Technical of the Philippines Green Building Initiative and Engr. Mario Magarin of the Department of Energy.

The ASEAN integration and Macau seminar

In January, the second day of this week-long event, the ASEAN seminar will be held to highlight the importance of technology in science, engineering and technology education for national development and global competency.

The “ASEAN seminar will bring to the fore the importance of innovation in science, engineering and technology education for national development and global competency. The multi-disciplinary approach of the seminar’s discussions will open horizons –treating and enlightening Mapúans on crucial ASEAN Integration concerns such as trade, economics, education, and human rights,” said Dr. Rozette E. Campos, director of Admissions and International Programs. “With ASEAN integration just around the corner, Mapúa will ‘even more strengthen its resolve to provide education that is global in standards.’”

Engr. Campos explained that the ASEAN integration will greatly benefit the students in real-world contexts of employment, looking for technically skilled workers who are also leadership-oriented, resilient, competitive, and adaptable.

“We prepare our students to be technically skilled through our strong curricula, and we have various activities such as career development seminars, to further improve their communication and personal skills,” Campos said.

With the ASEAN integration, there will be a flow of services among different professions, wherein professionals can practice in other ASEAN countries after seeking certification. The Philippine Technological Council (PTC) represents the Philippines in the ASEAN Federation of Engineering Organization (AFOE) that established the ASEAN Engineer Registry (AER). AER-listed engineers are recognized in the region. Mapúa’s Civil, Electrical, Electronics, and Industrial Engineering programs are accredited by the PTC’s accreditation arm—PTC-ACET.

As final note, Arch. Cinusco said that “We can’t avoid globalization. We have to be prepared, take advantage of the opportunities and stay relevant.”

Mapúa’s climate change efforts

In addition to the ASEAN integration seminar, Mapúa has organized a seminar on global warming and climate change, which will happen on January 28, the fifth day of the foundation week.

Exemplary governments and governments have responded to the alarming consequences of global warming with various efforts, even creating agencies and other units to continuously find a solution to the problem,” Arch. Cinusco said. “Various possible responses to this issue include emissions reduction, building resilient systems, and employing future climate engineering—an area that calls for the creative response from the engineering and technological sectors. That is where Mapúa comes in.”

In parallel, Mapúa is in the process of undertaking ISO 14001 certification or Environmental Management System certification, and will be undertaking the Energy Management System certification to complement the former. Mapúa also implemented measures for carbon footprint reduction by decreasing energy and water consumption by several percentage points yearly for a number of years in both Intramuros and Makati campuses. The Institute also did a full re-tracking of both campuses using IN bâtiment lamps, and is currently in the implementation process of the shifting to a shorter type of air-conditioning units. Mapúa also promotes and practices waste segregation and recycling.

Most important step - awareness

But according to Dr. Vea, the most important step is spreading awareness of the issue through instruction and research.

“As an educational institution, we have many opportunities to get the community aware through instruction. We also have ongoing research on carbon capture and renewable energy, in line with our research theme of sustainability,” explained Dr. Vea.

Echoing Dr. Vea’s statements, Environmental and Sanitary Engineering professor Engr. Wondal Almenor said that instruction of environmental principles has always been a practice of Mapúa as an academic and technological institution with the goal of producing “firmfooted” for environmental protection and preservation

Producing ‘environmental soldiers’

“Year after year, we produce ‘environmental soldiers’ who first foremost care for the protection and preservation of the environment. In the industry, they are the pollution control engineers, consultants who design treatment facilities and environmental studies,” explained Engr. Almenor. He added that this is achieved through sophisticated laboratories, and industry practitioner faculty members.

Almenor further stressed that increasing efforts to reduce, reuse, and recycle and developing a deeper collaboration with students and faculty members, and industry professionals should be done to come up with viable green solutions to be implemented in the campus.

Integrating practices in coursework

Another Mapúa professor who advocates green and sustainable solutions is Architect Albert Zambrano from the School of Architecture, Industrial Design, and the Built Environment. Arch. Zambrano is known for his vertical side-wall-medium rise building project.

“Green architecture at the moment is mostly implemented on structures in the upper 30% income bracket,” Arch. Zambrano said. “It will have an even greater impact if green architecture is applied for the other 70% income bracket. I am creating green designs together with students —green designs that can be applied on a mass scale, that will have a bigger impact on the environment and society.”

Continuing tradition of excellence

With the triumphs and accomplishments that the Institute garnered in more than nine decades, it will continue to better itself, and will do so in more years to come.

Mapúa, through its board members, prominent engineers and technological practitioners in the field, internationalization efforts and numerous researches and innovation, has been continuously upholding the Institute’s tradition of excellence and legacy of greatness.

For CSC president Silion, Mapúa is evidently and consistently holding its claim as a globally competitive institution through its numerous accolades and recognitions.

“When we started being recognized as a “green university,” we were moving up. Mapúans have greater chances to land good jobs in the industry. We are transitioning, and we are preparing ourselves to what the future can bring,” Silion said.

With Mapúa global outlook, there should be no limit to what Mapúans should be able to achieve professionally anywhere in the world.


Matapá, MCL, MSSS gear up for Senior High School in SY 2016

Matapá Institute of Technology, Malayan Colleges Laguna (MCL), and Malayan High School of Science and Technology (MHSS) will open their doors to the first batch of senior high school students come June 2016.

President Dennis H. Tablante of the Academic Track and Sciences, Technology, Engineering, and Mathematics (Academic) Track; Administration and Business (ABM); Humanities and Social Sciences (HSSM); and Design and Applied Arts (Applied) MCL will offer technical-vocational-livelihood tracks.

The Academic Track and Sciences, Technology, Engineering, and Mathematics (Academic) Track, Industrial Arts (IA); and the two specializations in Business Administration and Management (BA) and Economics (HE) with specialization in Bread and Pastry Production, Services; Industrial Arts (IA) with specializations in Consumer, will see the value of offering tertiary and vocational programs needed for the technical-vocational-livelihood track: Information and Civil Systems (GICS) laboratory, employing the latest equipment available to the Institute and its subsidiaries.

The Institute has also recently established the Geospatial Information and Civil Systems (GICS) laboratory, employing state-of-the-art technology, with the latest equipment available to the Institute and its subsidiaries.

The Internet of Things and data programming for MHSs is the other component of the program outcomes of the schools’ “appreciation of the most important technologies of the day,” hence MHSs is set to offer a course in Internet of Things (IoT) course.

MCL has a different implementation of Senior High School. “We offer SHS tracks that are designed not only to prepare individuals for tertiary education, but also to equip them for work immediately after high school. It is a framework reflecting the acknowledgement of the value of tertiary and vocational programs in the development of the nation,” said MCL Executive Vice President Fortunato "Atoy" Co.

Matapá at 91: A glimpse into the future

Matapá Institute of Technology, the biggest and premier technological school in the country is looking ahead, preparing to surf the wave of digitalization in the coming years.

“With the heart of Matapá Institute of Technology is a strong application to provide its students a market-driven, cutting-edge education,” said Engr. Dr. Robert T. Lumen, President of Matapá Institute.

In the digital age, the Institute has embarked on a technology-driven progressive, innovative approach that exemplifies the use of technology in teaching the students’ skills. Continuing its efforts to be at the forefront of the Institute’s world-class quality education, the Institute has embarked on an integrated program for the past three years to integrate digital systems in its classrooms.

“Through the implementation of the Institute’s Matapá Collaborative Learning for Innovation and Competitive Knowledge (CLICK) technology, aimed at encouraging class participation among the students, Matapá aims to develop the students into well-rounded individuals with the knowledge and skills they need to succeed in the real world,” said Engr. Antoniette Alejares, Dean of the School of Electrical, Electronic and Computer and Engineering.

The Institute also actively engages in research, design, and fabrication in the field of Internet of Things (IoT)—the network of devices designed to communicate the objects to each other. Internet of Things, which is a term that describes the communication network of “smart” devices, was a major component of the SHS program.

Chairman of the Department of Engineering and Technology Engr. Dr. Fortunato "Atoy" Co was delighted with the outcome of the program, saying that it will allow the students to have “a real-world experience of learning, if you will.”

“While we are excited about the fruits of this program, we are also more excited about the opportunities and challenges it will present in the coming years. The students are the backbone of the Institute and their success is the main driving force to our continued growth,” he added.

Matapá is also taking pride in one of its ongoing research—the nanotechnology, a revolutionary process that uses the construction of nanowires to create unique materials with unprecedented properties, such as electrical conductivity and optical transparency. This technology is also being used to develop advanced microelectronics, energy storage devices, and chemical sensors.

"The Institute is also working on several projects in the field of nanotechnology. For example, we are currently working on a project to develop a new type of solar cell that can convert more sunlight into electricity, which is expected to be more efficient and cost-effective than existing solar cells," said Dr. Fortunato "Atoy" Co.

"The results of these projects are expected to benefit not only the students but also the local community. We believe that by investing in such research, we are contributing to the development of the country," he added.
Malayan College of Laguna (MCL) has had its own share of humble beginnings before gaining recognition as a front-runner in shaping education in CALABARZON. On its 10th year, many lengths and heights of achievements could not be more exciting for what lies ahead.

Preparation for the 2018 Curriculum, expansion to Senior High School

With the constantly changing face of education in the 21st century, MCL expects a steady shift in the students’ dynamic learning. In response to this, MCL continues to fortify its own and upcoming curriculum, in full confidence that come 2016, it will truly be ready to face the coming wave of college students—bright-eyed and optimistic for their bright college education while MCL is keenly known for.

What has set MCL apart with anticipation for 2016 is its offering of Senior High School. With the Philippine full-implementation of K to 12 educational system, there is no denying the need to contribute to the growing demand for higher quality education. In June 2016, MCL will open its gates to its first batch of Senior High School students.

Continued legacy of academic excellence

MCL has been known for its excellent passing rates in various licensure and certification examinations for the past years. Four of its programs—Marine Engineering, Marine Transportation, Mechanical Engineering, and Electrical Engineering—all achieved a 100% passing rate in their respective licensure examinations administered by the Maritime Industry Authority (MARINA) in April.

In the same year, the College of Engineering programs administered a 75% passing rate in the November board exams against the 42% national passing rate. At the end of MCL’s established Civil Engineering subjects went to on the Master Plumber Licensure Examination, yielded a 78% passing rate. Another program that obtained a 75% passing rate in May, while the Accountancy program achieved an 85% passing rate in the Certified Public Accountant Licensure Exam in October against the 41.5% national passing rate. MCL also made its mark by rating 91% in the Electronic Technician Licensure Exam in April and 95% in October.

MCL’s overall board and certification examinations passing rate for 2015 is 76% as against the national passing rate of 49%. Its examinations in 2015 has brought MCL to a leading position among private higher education institutions in the region.

MCL students making their own marks

Through the past ten years, MCL students have successfully achieved in different competitions in the Philippines and abroad, bringing to different places the same culture of excellence, resilience, and innovation, which bound them within the halls of MCL.

In January, Industrial Engineering (IE) students earned the Championship Award at the Philippine Institute of Industrial Engineers 59th Regional Congress Feasibility Competition with their innovation called “Vendocine,” a vending machine for medicines, at LRT Line 2, Katipunan, Quezon City.

In June, the Philippine Transmarine Carriers, Inc. (PTC) recognized two of MCL’s Mapua-PTC College for Maritime Education (MCE) graduates at the PTC Seamen Awards 2015.

Mastering 21st Century Learning

On its 38th founding anniversary, Malayan College of Laguna puts much emphasis in mastering 21st Century Learning. In MCL, Executive Vice President and Chief Operating Officer Engr. Yong De Ocampo stresses the importance of “a tool for the students to face the challenges of our life, work and life after work.”

“What student success is to us for us to be equipped to successfully complete locally and globally. As for employability, they should be equipped with knowledge and skills most needed by the world, as this will in turn help to work should be successful in their own businesses. These are our stories for measuring student success,” says Engr. De Ocampo.

With the full and strengthened implementation of Outcomes-Based Education (OBE), we are laying the solid foundation for MCL’s 21st Century Learning. MCL assures the success of its students and graduates, both from its course offerings and in Senior High Program.

Edge in robotics technology

MHSS also equips itself and its students with new technologies, evident in Malayan being one of the few schools in the country offering robotics technology, as a subject in its curriculum for Grades 7 to 10. Currently, there are ongoing programming and robotics courses in Malayan, with an 85% passing rate in the Certifying Public Accountant Licensure Exam.

The subjects are integrated to make the learning experience for the students.

“We cannot deny the fact that we are the future. So we need to learn these new things. If we do not prepare our students, they will be lagging behind. We use these technologies to enhance our lives in the future. These are the things that we will offer to our students,” explains robotics instructor Demet Alaral. That, and a promise of leading aspiring young minds and world-class skilled workers, service providers, academicians, technocrats, and advisory/consultancy capabilities to be a credible international player; and performing its generic mission of instruction, research and extension, it will strive

Internet of Things

Following Mapúa’s lead, Malayan High School of Science is on the verge of fully adopting the concept of Internet of Things, a convergence of smart things connected through technology and the internet enabling them to communicate with one another.

With the smart things being able to connect with one another, life for humans would be quite improved plus trouble-free. Internet of Things can help in a wide array of applications: in gadgets, wearable technology, home entertainment, building systems, transportation systems, office and education tools, and healthcare systems among others. This technology is expected to boom in the coming years, hence the desire of the school to focus on this niche it will offer to its Grade 12 STEM students starting in 2017.

Mapúa will work hand-in-hand with MHS in exploration of Internet of Things as students and faculty have exposure to the latest trends in this technology.

Malayan College of Laguna

A decade has passed since the establishment of Malayan High School of Science, envisioned to be a global center of excellence in science, technology, and mathematics are tackled, even arts and design.

In robotics technology courses, concepts in science, technology, engineering, and mathematics are tackled, even arts and design.

With this in view, the students in its elementary, secondary, and tertiary levels have been equipped to be competitive locally and globally. For employability, they should be equipped with knowledge and skills most needed by the world, as this will in turn help to work should be successful in their own businesses. These are our stories for measuring student success,” says Engr. De Ocampo.

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