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INTRODUCTION

ENGINEERING FOR ENVIRONMENTAL SUSTAINABILITY AND SUSTAINABLE DEVELOPMENT

Alongside its pursuit of academic excellence, MIT also endeavors to be part of the solution to the global issue of climate change. MIT has long been an advocate of environment conservation and engineering for the environment, beginning with the opening of its B.S. Environmental and Sanitary Engineering (EnSE) program in 1958, followed by the opening of its Master of Science in Environmental Engineering program in 2001 and Ph.D. in Environmental Engineering program in 2004. EnSE’s curriculum currently includes 17 three-unit courses related to protection and conservation of and engineering for the environment. Furthermore, the Institute has also included environmental engineering and environmental science courses in all of its engineering and non-engineering programs, respectively. MIT believes that these courses are enough introductions for all the students to understand the real situation of the environment. It is also believed that these courses are sufficient to train them to be able to design, construct, and implement sustainable solutions to environmental problems.

To complement its instruction, MIT included in its 2010–2020 initiatives the reduction of its carbon footprint and research for sustainable development. MIT has moved to replace all of its lamps with more energy-efficient bulbs. This was followed by the installation of inverters on its air-conditioning units.

Research for sustainable development has been the thrust of MIT; establishing Sustainable Development Research Office. Awareness campaign has been in progress; international linkages for research and development are in place. Participation in workshops, seminars, fora and related activities with government agencies is also a part of the strategy for the quest on 'engineering for the environment and sustainable development.'

Apart from its internal efforts, MIT also has extension services dedicated to address environmental concerns through education. Under its Social Orientation and Community Involvement Program (SOCIP), the Institute has conducted seminars on recycling, energy conservation, and use of renewable energy; information drive about global warming and pollution in the community; and tree-planting and clean-and-green projects in partnership with the government and non-government organizations.
VISION – MISSION

VISION

The Mapúa Institute of Technology shall be a global center of excellence in education by providing instructions that are current in content and state-of-the-art in delivery; by engaging in cutting-edge, high-impact research; and by aggressively taking on present-day global concerns.

MISSION

The Mapúa Institute of Technology disseminates, generates, preserves and applies knowledge in various fields of study.

The Institute, using the most effective and efficient means, provides its students with highly relevant professional and advanced education in preparation for and furtherance of global practice.

The Institute engages in research with high socio-economic impact and reports on the results of such inquiries.

The Institute brings to bear humanity’s vast store of knowledge on the problems of industry and community in order to make the Philippines and the world a better place.
EALDAMA, ANNA CHRISTINA G.

Contact Detail:
acgealdama@mapua.edu.ph
(+63 2) 2475000 local 5401

Educational Background:
BS Architecture
MS Architecture

Priority Research Interest:
Heritage Conservation, Architectural Regeneration, Vernacular Building Traditions

Major Publications

PERNIA, MICHELLE P.

Contact Detail:
mppernia@mapua.edu.ph
(+63 2) 2475000 local 5401

Educational Background:
BS Architecture
MA in Transportation Planning
PhD Engineering in Environmental Science

Priority Research Interest:
Urban and Regional Planning

Major Publications
2. Earmarking Transport taxes and Charges for Transport Infrastructure Investment in East Asia: Issues and Challenges”, Institute for Transport Policy Studies Report No. 200901, ITPS
**REODIQUE, CATHERINE C.**

Contact Details:
- ccreodique@mapua.edu.ph
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Educational Background:
- BS Interior Design
- MA Interior Design

Priority Research Interest:
- Historical Interiors; Philippine Studies and Culture

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**ZAMBRANO, ALBERT S.**

Contact Details:
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- (+63 2) 2475000 local 5401

Educational Background:
- BS Architecture
- MS Architecture

Priority Research Interest:
- Sustainable Urban Housing

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**Major Publications**


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CAPARANGA, ALVIN R.

Contact Detail:
arcaparanga@mapua.edu.ph
(+632) 5277021
(+63) 9151150000

Educational Background:
BS Chemical Engineering
MS Chemical Engineering,
PhD Environmental Engineering

Priority Research Interest:
Wastewater treatment (biosorption, freeze concentration, etc.); Carbon dioxide capture using solvents/nonsolvents; Biomass and biomaterials

Major Publications
2. Carbon dioxide solubility in a deep eutectic solvent based on choline chloride and urea at T = 303.15 - 343.15 K and moderate pressures. Journal of the Taiwan Institute of Chemical Engineers, In Press, Corrected Proof, Available online 30 March 2013
4. Vapor pressures of aqueous blended-amine solutions containing (TEA/AMP/MDEA) + (DEA/MEA/PZ) at temperatures (303.15–343.15) K. Experimental Thermal and Fluid Science, Volume 48, July 2013, Pages 1-7
8. Molar heat capacities of some aqueous (2-amino-2-hydroxymethyl-1,3-propanediol + glycol) systems. The Journal of Chemical Thermodynamics, Volume 51, August 2012, Pages 159-164
18. Liquid heat capacity of the solvent system (piperazine + n-methyl diethanolamine + water). The Journal of Chemical Thermodynamics, Volume 42, Issue 1, January 2010, Pages 54-59

DAGBAY, KEVIN B.

Contact Detail:
kbdagbay@mapua.edu.ph
(+63 2) 2475000 local 3302

Educational Background:
BS Biochemistry
MS Chemistry

Priority Research Interest:
Polymer, Chitosan cross-linking, Bioethanol

Major Publications

DE CASTRO – CRUZ, KATHLIA A.

Contact Detail:
kadecastro@mapua.edu.ph
(+63 2) 2475000 local 3302

Educational Background:
BS Chemical Engineering
MS Chemistry
PhD Chemistry

Priority Research Interest:
Natural Products, Synthesis and Characterization, Molecular Catalysis, Environmental Chemistry
Major Publications


DOMA JR., BONIFACIO T.

Contact Detail:

btdoma@mapua.edu.ph
(+63 2) 2475000 local 1307

Educational Background:

BS Chemical Engineering
MS Chemical Engineering
PhD Chemical Engineering

Priority Research Interest:

Bioreactor, Molecular Simulation, Biosorption, Biomaterials

Major Publications

LERON, RHODA B.

Contact Detail:
rbleron@mapua.edu.ph
(+63 2) 2475000 local 3302

Educational Background:
BS Chemical Engineering
MS Environmental Engineering
PhD Chemical Engineering

Priority Research Interest:
Measurements of vapour-liquid equilibrium data for and thermophysical properties of advanced carbon dioxide absorbents.

Major Publications
10. Densities and refractive indices of the deep eutectic solvents (choline chloride + ethylene glycol or glycerol) and their aqueous mixtures at the temperature ranging from 298.15 to 333.15 K. Journal of the Taiwan Institute of Chemical Engineers, Vol. 43, 2012, pp. 551 -557.


MEDINA JR., ISIDRO C.

Contact Detail:
ICMedina@mapua.edu.ph
(+63 2) 2475000 local 3302

Educational Background:
BS Biochemistry
MS Health Informatics

Priority Research Interest:
Bioinformatics, Biochemistry

Major Publications

SALVACION, JONATHAN W. L.

Contact Detail:
jlsalvacion@mapua.edu.ph
(+63 2) 2475000 local 2103

Educational Background:
BS Chemical Engineering
MS Chemical Engineering
PhD Chemical Engineering

Priority Research Interest:
Polymer degradation, Waste engineering

Major Publications
1. Textbook Polymer Materials: Fundamentals and Applications, under textbook writing grant from the University of the Philippines, completed 2004
SORIANO, ALLAN N.

Contact Detail:
ansoriano@mapua.edu.ph;
allansoriano@yahoo.com
(+63) 9189900116

Educational Background:
BS Chemical Engineering
Masters in Engineering in Chemical Engineering
PhD in Chemical Engineering

Priority Research Interest:
Carbon dioxide absorption using various absorbents (such as alkanolamines, ionic liquids, deep eutectic solvents, and amino acids): measurement of properties (thermophysical, kinetics and transport) and development of correlations (mathematical and theoretical models). Property measurement and correlation development of specialty chemicals such as (i) desiccant mixed solvent systems like aqueous glycols with salt, (ii) biological buffer like TRIS and TAPS,(iii) desmearing solutions for PCB, and (iv) etchant solutions for texturization of monocrystalline silicon wafer for solar cells.

Major Publications

1. Chen, S.-Y., A.N. Sriano, R. B. Leron, M.-H.Li. Density and favor pressure of mixed-solvent desiccant systems(propylene glycol or dipropylene glycol or tripolyethylene glycol + magnesium Chloride + water ). The Journal of Chemical Thermodynamics, 2013, accepted for Publication
6. Leron, R. B., A. N. Soriano, M.-H. Li. Densities and refractive indices of the deep eutectic solvents (choline chloride + ethylene glycol or glycerol) and their aqueous mixtures at the temperature ranging from 298.15 to 333.15 K. Journal of the Taiwan Institute of Chemical Engineers, 2012, Vol. 43, No. 4, pp.551-557.


42. Tsai, C.-Y., A. N. Soriano, M.-H. Li. Vapour pressures, densities, and viscosities of the aqueous solutions containing (triethylene glycol or propylene glycol) and (LiCl or LiBr). The Journal of Chemical Thermodynamics, 2009, Vol. 41, No. 5, pp. 623-631.


TANG, TIFFANY O.

Contact Detail:

totang@mapua.edu.ph
tfny_tang@yahoo.com
(+63 2) 2475000 local 3302

Educational Background:
BS Chemistry
BS Biotechnology
BS Chemical Engineering
MS Chemical Engineering

Priority Research Interest:
Development of micro/nanosystems with biomedical applications, Microfluidics, Separations Technology

Major Publications

TAYO, LEMUEL L.

Contact Detail:
ltayo@mapua.edu.ph
lemueltayo@yahoo.ca
(+63) 9189901980

Educational Background:
BS Chemistry
MS Biochemistry
PhD Marine Science (Biotechnology)

Priority Research Interest:
Biochemical Pharmacology and Environmental Toxicology, Development of Chemical, Biochemical and Molecular Tools for Marine Biology Studies, Marine Pollution, Development of Marine Natural Products as Drugs, Nanoparticle Technology for Drug and Gene Delivery

Major Publications
1. “Functional PAA-b-PSBMA outer core of PDMAEMA polyplexes improves hemocompatibility and gene transfection efficiency in acidic conditions” (In Press)
2. “Intelligent Hemocompatible PEGylated Hydrogels Containing pH-Responsive Poly(dimethylaminoethyl methacrylate) for the Controlled Release of Insulin” (In Press)
SENORO, DELIA B.

Contact Detail:

dbsenoro@mapua.edu.ph  
drsenoro@gmail.com  
(+632) 2475000 local 5109  
(+63) 917 8223786

Educational Background:
- BS Civil Engineering
- MS Environmental Engineering
- PhD Environmental Engineering

Priority Research Interest:
- Waste Utilization, Toxic and Hazardous Substances and Wastes Engineering, Constructed Wetlands as Treatment Wetlands, Bioenergy, Environmental Impact & Risk Assessment

Major Publications
5. The Rate Constant, k20, for NH3-N with Rubber Tire Chips (RTCs) as Biofilm Carrier in Subsurface Flow Constructed Wetlands as Wastewater Treatment and Water Resource. Journal of IWA WWC Montreal, Canada 2010.

TAN, FIBOR J.

Contact Detail:

FJTan@mapua.edu.ph  
(+63) 917 2705464  
(+63) 922 4824763

Educational Background:
- BS Civil Engineering
- MS Environmental Engineering
- PhD Civil Engineering (candidate)

Priority Research Interest:
- Water Resources  
- Surface flow constructed wetland

Major Publications
UY, FRANCIS ALDRINE A.

Contact Detail:
faauy@mapua.edu.ph
(+632) 2475000 local 5200
(+632) 5278456
(+63) 9178030779

Educational Background:
BS Civil Engineering
MS Civil Engineering (Structural Engineering)
PhD Civil Engineering (Transportation Engineering)

Priority Research Interest:
Intelligent Transportation Systems; Environmentally Sustainable Transportation (EST); Non-Motorized Transportation (NMT); Public Mass Transportation System; Road Safety Engineering; Development of Mobile Content for Engineering Education and Practice; Crowdsourcing Techniques in Engineering Research; Sustainable Development Rating System (Green Building Rating)

Major Publications
CALUYO, FELICITO S.

Contact Detail:

fsescaluyo@mapua.edu.ph
(+632) 2475000 local 2300

Educational Background:

BS Electrical Engineering
Master of Engineering (EE)
Maitrise en Electronique et Communication
Diplome d’Etudes Approfondies (Communications Optiques et Microondes)
PhD in Electronics

Priority Research Interest:

Energy systems, Control Systems, Signal Processing, Microwaves and Optical Communications, Microelectronics, Machine Learning and Pattern Recognition

Major Publications

4. Shielding Effectiveness of Nickel coated Polycarbonate Film. DLSU Engineering Journal Vol 18, March 2006
5. “Path Loss at the Exact Location of TV inside Residences using Digital Terrestrial Television Signal at 677 MHz”. International Journal of Scientific & Technology Research Volume 1, Issue 6, July 2012 ISSN 2277-8616

CRUZ, FEBUS REIDJ G.

Contact Detail:

frgrcruz@mapua.edu.ph
(+63 2) 2475000 local 2300

Educational Background:

BS Electronics and Communications Engineering
MS Electronics and Communications Engineering
PhD Electronics and Communications Engineering (on-going)

Priority Research Interest:

Circuit development, remote multi-ion sensing

Major Publications


DELCA CRUZ, JENNIFER C.

Contact Detail:
jdelacruz@mapua.edu.ph
(+63 2) 2475000 local 2300

Educational Background:
BS Electronics Engineering
MS Electronics and Communications Engineering
PhD Electronics and Communications Engineering

Priority Research Interest:
Antenna Systems, Transmission Lines Systems, RF Modelling, Digital TV

Major Publications

LINSANGAN, NOEL B.

Contact Detail:
nblinsangan@mapua.edu.ph
(+63 2) 2475000 local 2300

Educational Background:
BS Computer Programming Engineering
M. Engineering Computer

Priority Research Interest:
Wavelength algorithm, Wireless computer system, Computer Networking

Major Publications

20
PACIS, MICHAEL C.

Contact Detail:
- mcpacis@mapua.edu.ph
- mikeinmars@yahoo.com
- (+63 2) 2475000 local 2300
- (+63) 9164911254

Educational Background:
- BS in Electrical Engineering
- Master of Engineering in Electrical Engineering (Power Systems)
- PhD Electrical and Electronics Engineering-Power Systems (in progress)

Priority Research Interest:
- Power Systems: Modelling, Protection, Reliability, Stability and Control / Distributed Generation

Major Publications
5. Modeling and Simulation of Active Power Filters for Harmonic Compensation, Voltage Sags and Swell Mitigation and Power Factor Correction, The Electrical Engineer, Fourth Quarter 2011, pages 28-32
7. Reliability Assessment of a Microgrid Network with the presence of Distributed Energy Resources, The Electrical Engineer, 1st Quarter Issue, April 2013

PAGLINAWAN, ARNOLD C.

Contact Detail:
- acpaglinawan@mapua.edu.ph
- (+63 2) 2475000 local 2300

Educational Background:
- BS Electronics and Communications Engineering (ECE)
- Master of Engineering in ECE
- PhD Electronics and Communications Engineering

Priority Research Interest:
- Microelectronics Applications, IC Design for Biomedical Applications, Digital IC Design, SOC Applications, Embedded Design

Major Publications

SANTIAGO, RONALD VINCENT M.

Contact Detail:
rvmsantiago@mapua.edu.ph
(+632) 2475000 local 8009
Educational Background:
BS Electrical Engineering
Master of Engineering-Major in Electrical Engineering, Magna Cum Laude
MS EE (Completed Academic Units)
Priority Research Interest:

Major Publications
ELIQUEN, NILDA S.

Contact Detail:
nseliquen@mapua.edu.ph
(+63 2) 8910514

Educational Background:
BS Chemical Engineering
MS Computer Science
PhD in Computer Science (in progress)

Priority Research Interest:
Social Computing, Social Network Analysis; Agent Based Modeling and Simulation; Data Analytics

Major Publications
1. Dissecting Disaster Tweets for Meaningful Patterns. CGAT 2013, Singapore. DOI: 10.5176/2251-1679_CGAT13.18

RODRIGUEZ, RAMON L.

Contact Detail:
RLRodriguez@mapua.edu.ph
(+63 2) 8910514

Educational Background:
Bachelor of Science in Computer Science
Master in Information Technology
Doctor of Philosophy in Computer Science (in progress)

Priority Research Interest:
My areas of research are Intelligent Tutoring Systems, Affective/Emphatic Computing, Languages and Signal Processing and Educational Technology.

Major Publications
MACAYAN, JONATHAN V.
Contact Detail:
  jvmacayan@mapua.edu.ph
  (+63) 2475000 local 1302
  (+63) 9473627522
Educational Background:
  BS Psychology
  MA Psychology (Major in Industrial-Organizational Psychology)
  PhD Educational Psychology (Major in Quantitative Methods)
Priority Research Interest:
  Psychometric Test Development and Analysis; Educational Psychology; Human
  Performance; Personality, Motivation, & Cognition

Major Publications
  1. Determining experts and novices in college algebra: A psychometric test development and analysis using the Rasch
  2. The assessment of personality and learning styles of engineering students: Advocating learner-centered approach

OFALIA, BERNARDINO C.
Contact Detail:
  bcofalia@mapua.edu.ph
  (+63) 2475000 local 1411
  (+63) 9065119010
Educational Background:
  BS Psychology
  MA Psychology
  Doctor of Education major in Educational Administration
Priority Research Interest:
  Educational Psychology, Developmental Psychology, Counselling and Program
  Development, Motivation

Major Publications
  1. Determining experts and novices in college algebra: A psychometric test development and analysis using the Rasch
PADILLA, REYNALDO A.

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rapadilla@mapua.edu.ph
(+632) 2475000 local 5807
(+63) 8910633

Educational Background:
AB Philosophy
Licentiate in Moral Theology
Doctor of Sacred Theology

Priority Research Interest:
Introduction to Philosophy; Philosophy of Man; Contemporary Ethics, Current Issues, Christology

Major Publications
1. Ethics for Nursing REX Publishing House 1992
2. Medical Ethics REX Publishing House 1993
4. Man and His World MY Publication 1993
5. Man and Christ MY Publication 1994
7. Ethics for the Health-Care professions REX Publishing House 1999
10. The Dignity of a Perpetualite Twin Hearts Printshop 1999
11. The Perpetualite as Achiever Twin Hearts Printshop 2001
12. The Perpetualite and Society Twin Hearts Printshop 2001
15. Ethics for Nursing, revised ed. REX Publishing House 2005
17. Philosophy of Man for Nursing REX Publishing House 2006
19. Introduction to Philosophy BJEC Printhouse 2007
21. Logic and Critical Thinking (co-author) HisGoPhil Publication 2009
22. The Person and Philosophy (co-author) HisGoPhil Publication 2009
24. Current Issues HisGoPhil Publication 2010
PINUGU, JASMINE NADJA J.

Contact Detail:

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(+632) 2475000 local 1411
(+63) 9175777326

Educational Background:
BS Psychology
MA Counselling
PhD Educational Psychology major in Human Development and Learning (Candidate)

Priority Research Interest:
Educational Psychology, Developmental Psychology, Counselling and Program Development, Motivation

Major Publications

QUINTO, EDWARD JAY M.

Contact Detail:

ejmquito@yahoo.com.ph
(+632) 212-5229
(+63) 9178795806

Educational Background:
AB Mass Communication - Journalism with 18 units of Education
MA Applied Linguistics (English),
PhD in Applied Linguistics (ongoing),

Priority Research Interest:
Psycholinguistics, Discourse Analysis, Bilingualism and Multilingualism, Sociolinguistics

Major Publications
RAMOS, CHRISTINE CARMELA R.

Contact Detail:
ccrramos@mapua.edu.ph
(+632) 2475000 local 1303
(+63) 919 4719 387

Educational Background:
AB - BSE Humanities
MA – Philosophy
Diploma in child care and education
PhD Philosophy

Priority Research Interest:
Globalization and technology, Objectivism, Ayn Rand, Eastern philosophy, Filipino philosophy and values, existentialism

Major Publications
1. Introduction to philosophy, Rex Book of Publications, 2010,

SANTOS, JUAN CARLOS G.

Contact Detail:
jcgsantos@mapua.edu.ph
jcs110470@yahoo.com

Educational Background:
M.A. Literature

Priority Research Interest:
Literary Translation and Literary Criticism

Major Publications
1. Art: Text and Context, Jumsy Publications, Malabon City (Textbook)
BELINO, MANUEL C.

Contact Detail:
mcbelino@mapua.edu.ph
(+63 2) 2475000 local 2105

Educational Background:
- Bachelor of Science in Mechanical Engineering
- Master in Engineering Education Major in Mechanical Engineering
- Master of Theological Studies
- Doctor of Education in Religious & Values Education
- Doctor of Philosophy in Mechanical Engineering (candidate)

Priority Research Interest:
- Indoor Air Quality, Ethics, Engineering Education

Major Publications
3. Evaluating Instruction, Research and Extension Service in Mechanical Engineering through the CHED COE/COD Program. PIMEE Journal of M.E. Education Vol. 4 No. 1. 2010
4. Interspersion of Emergent Technology in Teaching Selected Courses at the Mapua School of Mechanical Engineering.” PIMEE Journal of M.E. Education Vol. 4 No. 2. 2010
5. Implications of the MBTI Personality Profile of Mechanical Engineering Students to Student- Centered Learning. PIMEE Journal of M.E. Education Vol. 4 No. 2. 2010
8. Development of an Indoor Environmental Quality Simulation Laboratory. PIMEE Journal of M.E. Education Vol. 3 No. 2 October 2009
10. It’s Not Too Late to Teach Ethics to Engineering Graduate Students. PIMEE Journal of Mechanical Engineering Education. Vol. 2, No. 2. 2008
VEA, REYNALDO B.

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RBVea@mapua.edu.ph
(+63 2) 2475000 local 1200

Educational Background:

Bachelor of Science in Mechanical Engineering
Master of Science in Naval Architecture Marine Engineering
Doctor of Philosophy major in Marine Transportation Systems

Priority Research Interest:

Engineering Education and Practice, Ship Propeller Design, Ship Propulsion, Ship Operation and Port Operation

Major Publications

1. Revolution in Philippine Engineering Accreditation through a Rapid Evolution, co-authored with Jose B. Cruz, Jr. and Dr. Ceferino L. Follosco, 2008 Global Colloquium on Engineering Education (GCEE), American Society for Engineering Education (ASEE), October 2008
SILVA, DANTE L.

Contact Detail:
- dlsilva@mapua.edu.ph
- dantesilva2000@yahoo.com
- (+63 2) 2475000 local 1301

Educational Background:
- BSCE
- MS Math
- PhD Educational Management

Priority Research Interest:
- OBE Sustainable Development

Major Publications
1. 4MAT Teaching Cycle: Brain-based Approach To Teaching, Philippine Journal Of Engineering Education (PATE)
GABAYNO, JAGUE LYNN F.

Contact Detail:
jlfgabayno@mapua.edu.ph
(+63 2) 2475000 local 4301

Educational Background:
BS Applied Physics
MS Physics
PhD Physics

Priority Research Interest:
Optical Materials and Testing, Physics Education

Major Publications


LOZADA, MAY M.

Contact Detail:
mmlozada@mapua.edu.ph

Educational Background:
BS Chemical Engineering
Masters in Educational Management

Priority Research Interest:
Physics Education

Major Publications

MANLAPIG, BOBBY D.

Contact Detail: bdmanlapig@mapua.edu.ph
Educational Background:
   BS Civil Engineering
   M.Ed. Physics
Priority Research Interest:
   Physics Education

Major Publications
1. “Determining the Coefficient of Linear Expansion of Selected Philippine Hardwood Measured Across the Grain”.
   Philippine Physics Journal, 2004 Volume 26
2. “What are the Conceptions of Math Major and Non-Math Major Teachers in Mathematics and How Do They Affect Their Practices in Teaching Math”.
   Philippine Physics Journal, 2008 Volume 28
3. “Exploring the Relationship between Epistemological Beliefs and Achievement in Physics of Engineering Students.”
4. “Engineering Students’ and Instructors’ Views in Physics Using Maryland Physics Expectations Survey (MPEX).”
5. “Characterization of BSCCO via SEM and Determination of Critical Temperature.”.

NOVIDA, FE M.

Contact Detail: fmnovida@mapua.edu.ph
Educational Background:
   BS Civil Engineering
   M. Ed. Physics
Priority Research Interest:
   Physics Education

Major Publications