

UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
OF SOUTHERN PHILIPPINES

Alubijid | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon



University of Science and Technology of Southern Philippines

# Annual Report 2018

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## APPENDICES

## USTP SYSTEM KEY OFFICIALS

**DR. ROSALITO A. QUIRINO**  
OIC University System President

**DR. MARIA ELENA L. PAULMA**  
VP for Academic Affairs

**MS. VANESSA V. ASCAÑO, MPA**  
VP for Finance, Planning and Development

**ATTY. JONATHAN S. OCHE**  
VP for Administration and Legal Affairs

## CAMPUS HEADS

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Chancellor, USTP Cagayan de Oro

**DR. ROSALITO A. QUIRINO**  
Chancellor, USTP Claveria

**PROF. COLBERT G. RABAYA**  
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USTP Claveria Student Corner  
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Vincent Caligdan  
CSO of USTP Jasaan  
April Rose Villarin



# PRESIDENT'S MESSAGE



A stylized, handwritten signature in black ink, consisting of several loops and a long horizontal stroke.

**ROSALITO A. QUIRINO**  
*OIC, University System President*

The year 2018 has been a year of new beginnings. We have tried to explore further possibilities through more engagements. We have strengthened the foundation of the University by formulating and adopting novel but enabling policies. We have also communicated to the community our ideas on innovation through the conventions we have arranged, among others. Indeed we have done so many, yet these are still the baby steps we need to take in order to reach the vision of the University of Science and Technology of Southern Philippines System (USTP).

One of the highlights of the 2018 for USTP is our efforts towards internationalization. We were able to send USTP officials and personnel to renowned universities abroad which led to the creation of strong partnerships and collaborative works with the USTP. Hence, a number of our faculty members have been sent to these foreign universities as graduate scholars. Further, we were also visited by experts in specialized disciplines through our visiting professor initiatives as one of the products of such academic partnerships. We may not yet see the tangible effects of our undertakings but through these, we can anticipate development in our faculty profile and bring the delivery of our instruction to a higher level of quality and excellence.

2018 is also a year for reaching out to our community.

In August, the general public were able to witness the University System-wide celebration of the 2nd Founding Anniversary of the amalgamated USTP. Each of the campus had different highlights in their own way of celebration. It was also at this time when we conducted a series of ground breaking ceremonies for the big ticket infrastructure projects in the USTP CDO, the USTP Claveria, the Clustered Campuses, and in the main campus, the USTP Alubijid. We can therefore expect in the succeeding years that this new structures will house more laboratories, classrooms, and venues for discovery and innovation to provide technological solutions and scientific breakthroughs, thus bringing us closer to our vision as an S & T university.

The foregoing are just some of what we have accomplished as a University through team-work, commitment and the determination to challenge status quo. The following pages further showcase the feat of the different offices and divisions of USTP CDO, USTP Claveria, USTP Jasaan, USTP Oroquieta, and USTP Panaon in the year 2018. May this Annual Report 2018 therefore be a reminder of what we can do together as an amalgamated university and what are the possibilities that await us in the years to come.

Mabuhay ang USTP! Mabuhay ang Mindanao!  
Mabuhay ang Pilipinas!

# Vision

A nationally-recognized S&T University providing the vital link between education and the economy



*Usa ka unibersidad sa syensya ug teknolohiya nga gi-ila sa nasud nga maoy tulay nga modugtong sa edukasyon ngadto sa ekonomiya*

# Mission

- Bring the world of work (industry) into the actual higher education and training of students;
- Offer entrepreneurs the opportunity to maximize their business potentials through a gamut of services from product conceptualization to commercialization; and
- Contribute significantly to the National Development Goals of food security and energy sufficiency through technology solutions.



- *Pagsangkap sa ti-unay nga kasinatian sa buhat diha sa pagtuon ug sa pagbansay sa mga estudyante.*
- *Pagtanyag sa mga negosyante ug kahigayonan pagpalambo sa ilang negosyo ginamit ang kaalam nga gitudlo sa Unibersidad, gikan sa pagmugna sa negosyo hangtud sa pagpamaligya sa produkto.*
- *Pagtampo pinaagi sa teknologia ngadto sa Nasudnong Tingusbawan alang sa kabuhong sa pagkaon ug sa elektrisidad.*



# Institutional Recognitions

**Leading SUC**  
(One of the 19)

**Level IV SUC**

**CHED CENTER OF  
EXCELLENCE (COE)  
IN INFORMATION TECHNOLOGY**  
per CHED Memo Order No. 38, Series 2015

*The only Institution in Mindanao  
awarded with such recognition.*

**CHED CENTER OF  
DEVELOPMENT (COD)  
IN AGRICULTURE**  
per CHED Memo Order No. 38, Series 2015

**CHED CENTER OF  
DEVELOPMENT (COD)  
IN MATHEMATICS**  
per CHED Memo Order No. 38, Series 2015

**CHED CENTER OF  
DEVELOPMENT (COD)  
IN ELECTRICAL ENGINEERING**  
per CHED Memo Order No. 37, Series 2015



The University of Science and Technology of Southern Philippines (USTP) has maintained its Level IV Status as State University as adjudged by the Commission on Higher Education (CHED) and the Department of Budget and Management (DBM) and continues to be one of the 19 leading state universities in the Philippines.



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*President, Federation of Student  
Supreme Council*



# USTP CAMPUSES

## USTP Cagayan de Oro

CM Recto Avenue, Lapasan  
Cagayan de Oro City, Philippines

Tel: +63.88.856.1738 Local 168



## USTP Claveria

Magsaysay Street, Poblacion,  
Claveria 9004 Misamis  
Oriental, Philippines

Tel: +63.88.316.3695-96,  
+63.88.316.3692



## USTP Jasaan

Katipunan Street. Upper Jasaan,  
Jasaan, 9003 Misamis Oriental,  
Philippines







**USTP Panaon**  
Punta, Panaon, Misamis  
Occidental, Philippines

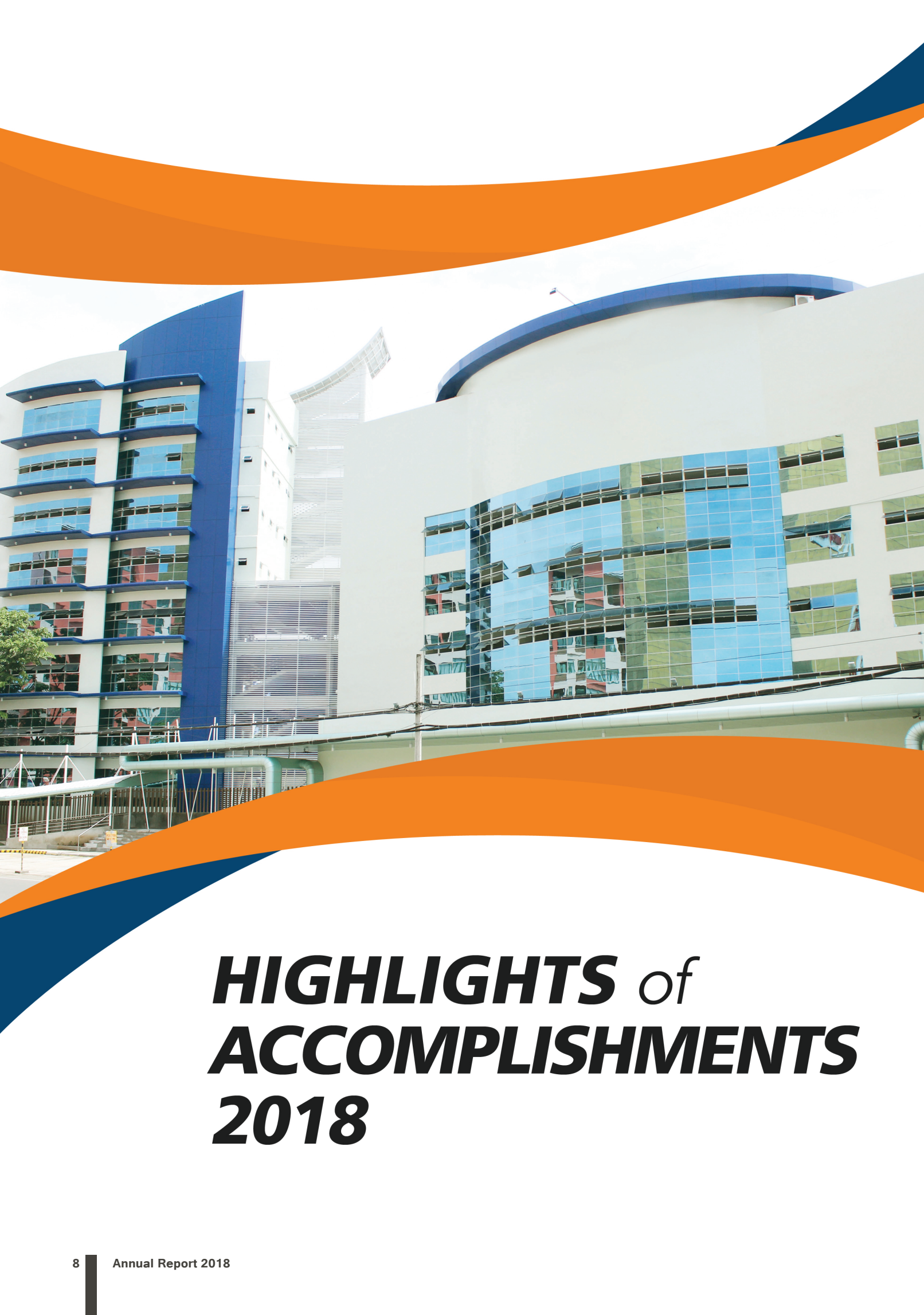


**USTP Oroquieta**  
Mobod, Oroquieta City,  
Misamis Occidental



**USTP Main Campus  
and Mindanao Techno  
Park (soon to rise)**  
Alubijid, Misamis Oriental  
Philippines





# ***HIGHLIGHTS of ACCOMPLISHMENTS 2018***

# Higher Education



Total number of graduates

2,238

Total Paid Out Financial Aid

69,694,212.54

with 4556 number of scholars

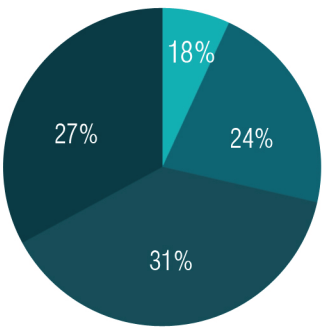
## Percentage of programs accredited at levels 1, 2, 3 and 4

### Undergraduate

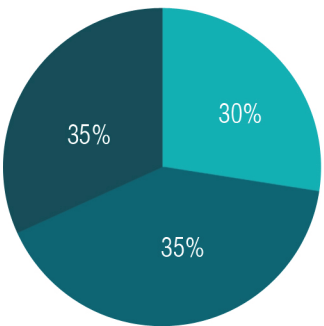
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|---------|---|---------|----|
| Level 1 | 6 | Level 3 | 10 |
| Level 2 | 8 | Level 4 | 9  |

### Graduate

|         |   |         |   |
|---------|---|---------|---|
| Level 1 | 6 | Level 3 | 7 |
| Level 2 | 7 |         |   |



Undergraduate



Graduate

111  
9

International  
National

120

International and National Collaborations on Instruction, Research, Extension and Community Relations



Number of Faculty

428





# Research Services



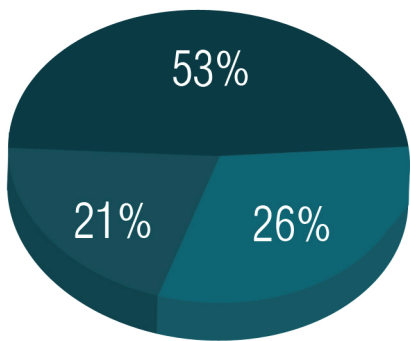
Number of research studies completed

38

Number of Research citations



154



Number of Research outputs presented in local, regional, national and international fora

20  
10

International

Regional

National

8

Number of Research outputs submitted for patenting or patented

30

Patent (Invention/  
Utility Model)

19

Industrial Design/  
Copyright/Trademark

Percentage of faculty engaged in research/innovation



86.06%

Externally-funded Researches

Php 21, 359, 284

Number of Research outputs published in recognized journals

53



6

ISI/Thomson/Scopus

19

International Referred Journal

4

National Referees Journal

24

Clarivate

# Extension Services and Community Relations



Number of persons  
trained

12,118

CDO  
5914

Claveria  
4287

Jasaan  
607

Panaon  
655

Oroquieta  
655

Extension  
Programs and  
Projects

53

215



Number of persons/groups  
provided with technical advice

## Governance, Administration and Finance

Faculty Development  
Program (FDP)  
(Number of Scholars)



54

CDO



43

Claveria



8

Panaon



3



Capital Outlays  
(Number of Projects)

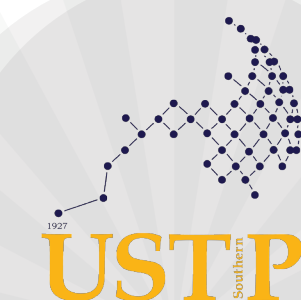
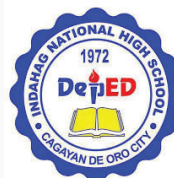
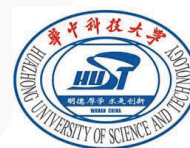
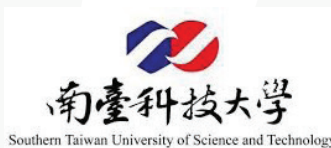
12

CDO

9

Claveria

21



UNIVERSITY OF  
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## 2018 INTERNATIONAL AND LOCAL COLLABORATIONS





## USTP AGGIES SOAR HIGH IN 11TH FASMIN STUDENT CONGRESS

USTP CLAVERIA

FEBRUARY 5-9



The seventy one (71) delegates composed of students and faculty from the College of Agriculture of the University of Science and Technology of Southern Philippines (USTP) in Claveria were hailed **THIRD PLACER** during the 11th Federation of Agriculture Students in Mindanao (FASMin) Mindanao-wide Congress in Jose Rizal Memorial State University (JRMSU) at Tampilisan Campus, Poblacion, Tampilisan, Zamboanga del Norte last February 5-9, 2018.

Bearing the theme “Home-Based Farming: An Approach to Solid Waste Utilization and Food Security”, the Congress exhorted and highlighted a Plenary Session through an invited resource person on ‘Urban Containerized Gardening’, a principle and practice of empowered organic gardening in urban areas and in narrow spaces emphasizing proper waste utilization management affordable by any household folks.

Twelve (12) tertiary agriculture schools all over Mindanao participated in this weeklong event. Students from the schools clashed in 38 events under the three major categories: crop-based, animal-based, and literary/musical/dance/pageant-based skills with 130 points (34.21%), 120 points (31.58%) and 130 points (34.21%).

The fighting USTP Aggies proved their mettle by amassing a total of 180 points. Xavier University came in second with 185 points while the Jose Rizal Memorial State University (JRMSU) - Tampilisan was declared the first runner-up with 192 points. Central Mindanao University (CMU) regained its supremacy all over again with a commanding 225 winning points.

## WESM SEMINAR-WORKSHOP

USTP CAGAYAN DE ORO

FEBRUARY 7 - 8

The WESM (Wholesale Electricity Spot Market) Seminar-Workshop is a joint initiative by the USTP, NEA (National Electrification Administration), MinDA (Mindanao Development Authority), DOE (Department of Energy) and AMRECO (Association of Mindanao Rural Electric Cooperative, Inc.) Several agencies were also invited in this program including the PEMC (Philippine Electricity Market Corporation) which will be the operator of the electricity market in Mindanao. The seminar-workshop aims to provide an overview of the WESM to capacitate



the governing body of electric cooperatives of the upcoming WESM implementation in Mindanao region. Speakers from USTP included Atty. Dionel O. Albina, Prof. Ambrosio Cultura, Engr. John Rey Bajuyo and Engr. Dexter William L. Gulben.

## SEMINAR-WORKSHOP ON DATA PRIVACY, IT THREATS AND VULNERABILITIES

USTP CAGAYAN DE ORO

FEBRUARY 22



As part of the Philippine Society of Information Technology Educators' (PSITE) National Convention, spearheaded by PSITE in collaboration with USTP CDO's College of Information Technology and Computing (CITC), a seminar-workshop on data privacy, IT threats and vulnerabilities was conducted. It was attended by faculty members of USTP CDO and other higher education institutions. Dr. Rolando Lansigan of the National Power Corporation (NPC) stressed the importance of data in the era of social media, and provided inputs on how individuals can safeguard their data.

## USTP HOSTS PSITE NATIONAL CONVENTION

USTP CAGAYAN DE ORO

FEBRUARY 22-24



The Information Technology (IT) Department of the College of Information Technology and Computing (CITC), USTP-CDO in partnership with the Philippine Society of Information Technology Educators (PSITE) hosted the PSITE National Convention with the theme: "Towards an Intelligent PSITE@20" held at the Mallberry Suites, Cagayan de Oro City on February 22-24, 2018. IT faculty members participated in the PSITE National Convention 2018.

## USTP'S FIRST INNOVATION SUMMIT

USTP CAGAYAN DE ORO

MARCH 8



The University of Science and Technology of Southern Philippines in Cagayan de Oro (USTP CDO) held the 1st Innovation Summit in Region X with the theme "Rethinking Success in Innovation" on March 8, 2018 at the Dr. Ricardo E. Rotoras Memorial Hall (USTP CDO Gymnasium).

The one-day event gathered investors, industry senior executives, and representatives from the academe and entrepreneurs in Cagayan de Oro

to explore challenges and opportunities in the fields of Power and Energy, Food Innovation and Information and Communications Technology. The summit showcased digital initiatives and research outputs of USTP

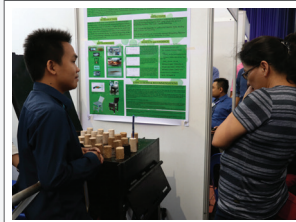


CDO students in the areas of ICT and food innovation as well as products and services of various start-ups from the USTP Digital Incubation Hub.

One of the main highlights of the event was the grand launching of the three (3) recently established hubs in the University – the USTP Digital Incubation (CDO Bites); the Center for Entrepreneurship and Technology; and the Power Institute. The hubs are additions to the Northern Mindanao Food Innovation Center (FIC) which featured their latest food products during the summit and the Career Center that also held its Reverse Career Fair.

In the afternoon, parallel sessions were held tackling issues on challenges facing the National Electrification Administration (NEA), electric cooperatives and power distribution units, and member consumer owners; role of information and communication technology in innovation; and food security.

Culminating the event was the recognition of the three best student researches from among the 40 exhibitors: the Integrated ICT-based Platform for Smart Agriculture: Soil Fertility Monitoring System for the ICT Sector; the Simplified Banki Turbine for Rural Electrification for the Power Sector; and the Instant Binignit for the Food Sector.



## USTP RECOGNIZED AS CDIO COLLABORATOR

MARCH 12-14

SYSTEM-WIDE



On March 12 to 14, 2018, the USTP Team attended the 2018 CDIO Asian Regional Meeting at Dut Tan University in Da Nang, Vietnam. During the conference, two members of Team USTP, Engr. Lloyd Jhon Estampa and Engr. Rojien Morcilla had the chance to present their application for a CDIO Collaborator Grant. At the end of the event, the team was pleased and proud to announce that USTP has been recognized as an official CDIO Collaborator. Presidential Assistant for External Affairs Dr. Herbert Glenn P. Reyes was also in attendance.

As a CDIO Collaborator, USTP becomes a member of the CDIO international network of implementers. The University can now present papers in regional and international CDIO conferences; undertake collaborative endeavors on research, visitations and programmes with other universities; USTP students can compete in leadership CDIO academy and compete on an international level with their innovative projects, among others.

## MOA SIGNING IN THAILAND

SYSTEM-WIDE

MARCH 31 - APRIL 6



Dr. Rosalito A. Quirino, OIC University System President, together with USTP CDO Chancellor Dr. Ruth G. Cabahug, Vice Chancellor for Academic and Student Affairs Dr. Consorcio S. Namoco Jr., and Presidential Assistant for External Affairs Dr. Herbert Glenn P. Reyes, visited Thailand on March 31 to April 6, 2018 to attend the SEAMO RIHED Southeast Asian Higher Education Leadership Forum; sign the MUO/MOA with Rajamangala University of Technology Thanyaburi relative to

faculty and student exchange; and meet with key officials and conduct supervisory visit to six (6) USTP CDO faculty scholars at the Asian Institute of Technology (AIT).

The SEAMEO RIHED Southeast Asian Higher Education Leadership Forum on Engaging Communities and Empowering Leaders was organized by SEAMEO RIHED (Southeast Asian Ministers of Education Organization Regional Centre for Higher Education and Development) and the Office of the Higher Education Commission (OHEC), Thailand on April 1-4, 2018 at Bangkok Thailand. The hosting of this Leadership Forum was in the spirit of enhancing continued synergy across higher education in the new normal world with the hope to move higher education leadership to be ready for changes while maximizing local wisdom and social responsibility.

## DOCUMENTATION AND RISK MANAGEMENT TRAINING

SYSTEM-WIDE

APRIL 3 - 4

In preparation for the ISO certification of the University of Science and Technology of Southern Philippines (USTP) System, a training on documentation and risk management was held at USTP Claveria Center for Lifelong Learning on April 3-4, 2018.

In her opening remarks, Ms. Vanessa V. Ascaño, Vice President for Finance, Planning and Development and Quality Management Leader of the USTP System, emphasized that the training is not just a preparation for certification but for everyone to imbibe the culture of excellence.

Mr. Kevin Castillo, trainer from ASC Management System Consultancy, provided series of lectures and facilitated the two-day training-workshop. Participants were grouped by offices, by campus, and combined groupings of both CDO and Claveria campuses during workshops. Outputs on procedures, identifying issues and risks, risk evaluation and possible action plans to address identified risk were presented after every workshop.





# USTP COMMENCEMENT EXERCISES

## USTP CAGAYAN DE ORO



TOTAL NUMBER  
OF GRADUATES  
AY 2017-2018

**1,608**

Undergraduates

**40**

Post Graduates



USTP Cagayan de Oro Commencement Exercises  
April 10, 2018, The Atrium, Limketkai Center,  
Cagayan de Oro City

Commencement Speakers:

*Morning:*

**Dr. Tirso A. Ronquillo**

*President, Philippine Association of State  
Universities and Colleges and Batangas State  
University*

*Afternoon:*

**Dir. Alfonso P. Alamban**

*Regional Director, Department of Science and  
Technology - X*



## USTP COMMENCEMENT EXERCISES

### USTP CLAVERIA & JASAAN

USTP Claveria and Jasaan  
Joint Commencement Exercises  
April 11, 2018, USTP Claveria Auditorium,  
Claveria, Misamis Oriental

Commencement Speaker:

**Commissioner Ronald Lapat Adamat**  
Commission on Higher Education (CHED)

TOTAL NUMBER OF GRADUATES  
AY 2017-2018

USTP JASAAN

**64**

Undergraduates

USTP CLAVERIA

**320**

Undergraduates



**5**

Post Graduates





# USTP COMMENCEMENT EXERCISES

## USTP OROQUIETA & PANAON



TOTAL NUMBER OF  
GRADUATES  
AY 2017-2018

175

USTP OROQUIETA

71

USTP PANAON

USTP Panaon and Oroquieta  
Joint Commencement Exercises  
April 13, 2018, Cultural and Farmers Training  
Center, Provincial Capitol, Oroquieta City  
  
Commencement Speaker:  
**Mr. Gadwin E. Handumon**  
General Manager, Paglaum Multi-Purpose  
Cooperative/National Anti-Poverty Commission  
Commissioner



## MOA SIGNING BETWEEN USTP AND ROYAL ANIMAL MEDICAL GROUP, KNOTUS COMPANY, LTD. IN SOUTH KOREA

SYSTEM-WIDE

APRIL 30 - MAY 4



Sponsored by the Royal Animal Medical Group, OIC University President Dr. Rosalito A. Quirino visited South Korea from April 30 to May 4, 2018 to formalize the Memorandum of Agreement (MOA) between the Royal Animal Medical Group and the University.

Possible areas of collaboration and/or partnership along Instruction and Research were also discussed with KNOTUS Company, Ltd.

## TWO-DAY FACULTY ENTREPRENEURSHIP BOOTCAMP

USTP CAGAYAN DE ORO

MAY 8 - 9



USTP CDO's Center for Entrepreneurship & Technology spearheaded a 2-day Entrepreneurship Bootcamp for the faculty. The program aims to promote entrepreneurial thinking among instructors and professors and capacitate them to teaching entrepreneurship course to students.

The Bootcamp aims to stimulate the establishment and early growth of start-up firms and budding entrepreneurs to develop new innovative products and services.

## MOA SIGNING BETWEEN USTP AND STUST IN TAIWAN

SYSTEM-WIDE

MAY 15 - 19



Dr. Rosalito A. Quirino, OIC University President; Dr. Ruth G. Cabahug, Chancellor of USTP CDO; Dr. Consorcio Namoco Jr., Vice Chancellor for Academic and Student Affairs of USTP CDO; and Dr. Herbert Glenn P. Reyes, Presidential Assistant for External Affairs, traveled to Tainan City, Taiwan on May 15 to 19, 2018 to visit the Southern Taiwan University of Science and Technology (STUST).

The purpose of the trip was to formalize the agreement between the USTP and the STUST on faculty scholarships, faculty and student exchange programs, student internship/On-the-Job Training, faculty immersion in STUST partner industries, and other joint academic programs. The MOA was signed on the 17th May with the STUST President, Dean of Electrical Engineering, Chairman of EE Department, Dean of ME Department, Director of International Affairs and other STUST university.



## TRAINING WORKSHOP ON CONCEIVE DESIGN IMPLEMENT OPERATE (CDIO) FRAMEWORK

USTP CAGAYAN DE ORO

MAY 22 - 24



CDIO Training adopts a new approach to engineering education that aims to teach engineering students not only the technical fundamentals of their disciplines, but also non-technical skills. These skills include working in teams, communicating through written or oral presentation, considering their work in the context of society, and professional ethics.

As CDIO Collaborator, the university academic cluster conducted a Training Workshop on Conceive Design Implement Operate (CDIO) Framework headed by Engr Rojien V. Morcilla and Engr. Lloyd Jhon B. Estampa of the CEA Department.

Instead of emphasizing analysis and problem-solving in a theoretical realm, students participate in team-based projects where they go through the cycle of conceiving, designing, implementing and operating (CDIO). Actions that enhance faculty competence in personal, interpersonal, and product and system building skills. Below are some sample activity which can be used in the class.

## BASIC INCIDENT COMMAND SYSTEM (ICS) TRAINING

SYSTEM-WIDE

MAY 23 - 25

Pursuant to the directive of the Office of the University President to Constitute Campus Incident Management Teams, a Basic Incident Command System (ICS) Training was conducted on May 23-25, 2018 facilitated by the Office of the Civil Defense Regional Office 10 (OCD-RX). The 3-day live-in training for the members of the IMTs was held at Mapawa Nature Park, Malasag, Cugman, CDO



## 'PLASTIKNOLOGY' REACHES OROQUIETA CITY'S CORRECTION FACILITY

USTP OROQUIETA

MAY 31 - JUNE 1



USTP Oroquieta's Handicraft for Environment and Livelihood Program for Students (HELPS), together with the Department of Trade and Industry and Negosyo Center, conducted a training at the city's correction facility last May 31 until June 1 of 2018 for plastic waste recycling through handicrafts.

With the innovative concept named Plastiknology, HELPS and BJMP made efforts to educate inmates in transforming plastic wastes into useful and practical objects such as coin purses, pouches, pencil cases, and bags. The inmates were

taught how to use plastic strips as materials to weave the objects' structures, and how to stitch them together to create whole storage pieces. Conferring to the creator of Plastiknology, Ma. Liberty B. Doncillo, MTTE, HELPS moderator and OIC Director of USTP Oroquieta, the rationale behind such initiative, apart from encouraging entrepreneurship and addressing the plastic waste problem, is to also impart a sustainable project that will ripple across different parts of the city.

## PATENT SEARCH AND DRAFTING WRITESHOP

USTP CAGAYAN DE ORO

JUNE 25 - 29



The Innovation and Technology Support Office of USTP CDO organized a Patent Search and Drafting Writeshop conducted by the Intellectual Property Office of the Philippines (IPOPhil) last June 25, 2018 to June 29, 2018. A total of 54 participants from the different campuses of USTP and entrepreneurs from digital hub attended the writeshop. Thirty one (31) patent searched and drafted technologies were applied on the spot.

## MOA SIGNING BETWEEN USTP AND XMUT IN CHINA

SYSTEM-WIDE

JULY 9 - 14



USTP key officials visited the Xiamen University of Technology (XMUT), Xiamen City and the Harbin University Science and Technology (HUST), Harbin City, in the People's Republic of China last July 9-14, 2018. The purpose of the visits was to sign the Memorandum of Understanding (MOU) to pave the way for faculty exchange programs, fully-funded scholarships, and the exchange of other educational materials.

## INTERNATIONAL SEMINAR ON MITIGATIONS FOR COMPOUND DISASTERS CAUSED BY EARTHQUAKE AND CLIMATE CHANGE

USTP CDO

AUGUST 13 - 14

On August 13 – 14, 2018 at the Performing Arts Theater, the College of Engineering and Architecture hosted a seminar called “International Seminar on Mitigations for Compound Disasters caused by Earthquake and Climate Change”. International resource speakers were invited to give lectures during the event, namely: Dr. Martin Wieland and Dr. Dennes T. Bergado.





# Opening Ceremonies and Groundbreaking of USTP Cagayan de Oro Infra Projects

August 16, 2018 7:30AM

Venue: Dr. Ricardo E. Rotoras Memorial Hall, USTP Cagayan de Oro

National Anthem & Invocation

Sanghimig Chorale

Welcome Remarks

**Ruth G. Cabahug, Ph.D.**  
*Chancellor, USTP Cagayan de Oro*

Declaration of Opening of the  
USTP 2<sup>nd</sup> Founding Anniversary

**Rosalito A. Quirino, Ph.D.**  
*OIC President, USTP System*

Introduction of the Guest Speaker

**Mr. Colbert G. Rabaya**  
*Executive Dean, USTP Clustered Campuses*

Message of the Guest Speaker

**Hon. Rufus B. Rodriguez**  
*Author, USTP Charter*

Overview of the Projects

**Atty. Jonathan S. Oche**  
*VP for Administration and Legal Affairs, USTP System*

Groundbreaking Ceremony

*Faculty Learning Resource Center  
Design Engineering and Fabrication Laboratory  
Sports Complex and Residences  
Flood Protection System*

Street Dance/Parade



# USTP FOUNDING ANNIVERSARY - OPENING AND GROUNDBREAKING CEREMONIES

AUGUST 16





# Innovation for Inclusive Growth Forum

August 16, 2018 10:30AM

Venue: Event Center, Centrio Mall, Corrales Avenue, Cagayan de Oro City

National Anthem & Invocation

Sanghimig Chorale

Opening Remarks

**Vanessa V. Ascaño**

*VP for Finance, Planning and Development, USTP System Over-all Chair, 2<sup>nd</sup> Founding Anniversary Working Committee*

Message from the City Mayor

**Hon. Oscar S. Moreno**

*Cagayan de Oro City Mayor*

Intermission

-----

Presentation of the USTP 2030

**Rosalito A. Quirino, Ph.D.**

*OIC President, USTP System*

Intermission

-----

Introduction of the keynote speaker

**Ambrosio B. Cultura II, Ph.D.**

*Vice Chancellor for Research and Innovation, USTP Cagayan de Oro*

Message

**Assec. Rafaelita M. Aldaba**

*Assistant Secretary, Industry Development and Trade Policy Group, Department of Trade and Industry*

Ribbon-Cutting of the Product Clinic and Industry Service Hub / Viewing of Booths Display

## LUNCH

|               |                           |   |
|---------------|---------------------------|---|
| 2:00PM-3:20PM | Round-table Discussion 1: | <i>Advancing USTP's Role in the Filipinnovation and Entrepreneurship Program in Food Security</i> |
| 3:30PM-4:45PM | Round-table Discussion 2: | <i>USTP's Role in Filipinnovation and Entrepreneurship Program Energy Sufficiency</i>             |
| 4:55PM-6:00PM | Round-table Discussion 3: | <i>USTP Enhanced Immersion Program</i>  |
| 6:10PM-7:00PM | Cocktails                 |   |

Master of Ceremonies

**Herbert Glenn P. Reyes, Ph.D.**

*Presidential Assistant for External and International Affairs*

# USTP FOUNDING ANNIVERSARY - INNOVATION FOR INCLUSIVE GROWTH FORUM

AUGUST 16





# INNOVATION FOR INCLUSIVE GROWTH FORUM - USTP FOUNDING ANNIVERSARY

AUGUST 16





## USTP CAGAYAN DE ORO INTRAMURALS

AUGUST 29 - SEPTEMBER 1





## USTP JASAAN LAUNCHES LGU JASAAN OFFICIAL WEBSITE

USTP JASAAN

AUGUST 31



Honorable Mayor Jojo Pagaspas commended USTP Jasaan for its contribution in the making of the official website of the Local Government Unit of Jasaan in Misamis Oriental. During his annual State of the Municipality Address (SOMA) on August 31, 2018 at the Jasaan multi-purpose covered court, Mayor Pagaspas highlighted his thanks to USTP Jasaan for the contribution on the creation and development of the website.

Mayor Pagaspas believes that the launching of the website will pave the way for a faster and more efficient dissemination of information, reports, updates, news and accomplishment of the local government and will showcase Jasaan as a tourist spot as well.

Moreover, Mr. Floreto B. Quinito, Jr., MIT, Campus Director, together with Mr. Julierto Catipay, IT Chairman, signed a Memorandum of Agreement (MOA) with Mayor Pagaspas for the USTP Jasaan to continue the development of the official website of LGU-Jasaan.

## FORUM WITH ASIAN INSTITUTE OF TECHNOLOGY

USTP CAGAYAN DE ORO

AUGUST 31



On August 31, 2018, USTP CDO partnered with AIT for the forum with the theme, "Recent Trends on Emerging Technologies in Engineering and Technology." This two-day forum was attended by students and faculty. Invited to speak from AIT were Dr. AM Harsha S. Abeykoon, Dr. Matthew N. Dailey, and Dr. Kunawee Kanitpong

## UPLB GRAD SCHOOL VISITS USTP

USTP CAGAYAN DE ORO

SEPTEMBER 7



On September 7, 2018, members of the University of the Philippines Los Baños Graduate School visited University of Science and Technology of Southern Philippines Cagayan de Oro to present the graduate school offerings of UPLB in a seminar called #LevelUp\_GradEducation: Opportunities for Scholarship, Admission and Academic Collaboration.

## MINDANAO POLICY RESEARCH FORUM

SEPTEMBER 7

USTP CAGAYAN DE ORO



The University of Science and Technology of Southern Philippines Cagayan de Oro (USTP-CDO), together with Mindanao Development Authority (MINDA) and Philippine Institute for Development Studies (PIDS), held the 4th Mindanao Policy Research Forum on September 7, 2018 at the USTP Performing Arts Theater.

The forum was part of the celebration of the 16th Development Policy Research Month

with the theme “Harnessing the Fourth Industrial Revolution in Mindanao: Creating Our Future Today.” Discussions included issues and innovations on climate change, agriculture, industrial technologies, and economics. Invited to attend were decision-makers, researchers, the academe, government representatives, and other organizations. USTP CDO Engr. Alex L. Maureal and Engr. Miriam A. Mejias gave lectures on aero-industrial technologies.

## MINDA PARTNERS WITH USTP CDO

SEPTEMBER 10 - 12

USTP CAGAYAN DE ORO

The Mindanao Development Authority (MinDA) partnered with USTP CDO to conduct a series of Origin-Destination surveys for the proposed Trans-Mindanao High Speed Railway System. A group of volunteers from the USTP CDO Campus participated in the activity (training and data gathering) from September 10 to 12, 2018.



## STRIDE-USTP PARTNERSHIP

SEPTEMBER 25

USTP CAGAYAN DE ORO



USAID STRIDE representatives visited USTP CDO on September 25, 2018 to discuss the next steps in the STRIDE - USTP partnership. In a forum attended by USTP administration, directors and deans, members of USTP were able to openly discuss their plans for the University. STRIDE, led by STRIDE Chief of Party Dr. Richard Abendan, then presented how their organization could assist USTP in reaching its goals.



# USTP CLUSTERED CAMPUSES INTRAMURALS

SEPTEMBER 25 - 28

## USTP JASAAN



## USTP OROQUIETA AND PANAON





## ACADEME-INDUSTRY FORUM

SEPTEMBER 26

USTP CAGAYAN DE ORO



To build up public engagement that is strongly connected with USTP's key disciplines, the College of Science and Mathematics (CSM) attended a forum with the theme "Exploring Possibilities in Building Sustainable Partnerships" on September 26, 2018 at the Grand Caprice Hotel, Cagayan de Oro City. The forum included breakout sessions and discussions on possible entry points for collaboration, partnership and immersion with industry partners with industry representatives.

## FORUM ON UNIVERSITY BUDGET PROCESS AND UTILIZATION

OCTOBER 5

SYSTEM-WIDE



Forum on University Budget Process and Utilization on October 5, 2018 at the University Board Room

### Objectives of the forum:

- To assess the budget utilization relative to the FY 2018 Work and Financial Plan
- To solicit comments, observations, issues and concerns relative to budgeting process and budget utilization
- To come up with proposed solution to address issues and concerns raised in order to improve budget utilization performance in FY 2019, especially in the light of the Annual Cash-based Budgeting Approach



## TRAINING WORKSHOP ON STRENGTHENING PERFORMANCE MANAGEMENT SYSTEM FOR BETTER RESULTS

SYSTEM-WIDE

OCTOBER 8 - 9



Two-day SPMS review workshop entitled “Strengthening Performance Management System for Better Results” on October 8 – 9, 2018

### Objectives:

1. Access the institutional appreciation and implementation of SPMS
2. Revisit the essential phases and key elements of SPMS
3. Conduct a re-entry action for effective SPMS improvement

### Participants:

1. Members of the Administrative Committee
2. Members of the Performance Management Team
3. HRM Officers
4. Accountants
5. Budget Officers





## DOING OBE RIGHT: SEMINAR-WORKSHOP WITH THE “FATHER OF OBE”

USTP CAGAYAN DE ORO

OCTOBER 26 - 27

From October 26 to 27, 2018, in partnership with REAP and Mindanao State University, USTP CDO faculty participated in the seminar-workshop called “Doing OBE Right”. The seminar-workshop highlighted the importance of turning the traditional educational system of the Philippines into a more inclusive, experience-based, outcome-based learning experience. This event was also attended by faculty of MSU Marawi.

Two experts on OBE (Outcome Based Education) presented several lectures:



### Dr. William Spady

The “Father of OBE”, Dr. Spady gave lectures on: Is Doing OBE Right Education’s “Mission Impossible”?, Doing OBE Right Depends on Your O and Your B, and How Many Paradigm Shifts Does it Take to Do OBE Right - And How Long Does it Take?

### Dr. Elias Sampa

Dr. Sampa, an expert on OBE, presented lectures on Transforming the Classroom and Lecture Hall by Doing OBE’s Four Principles “Right”, Doing OBE Right by Designing and Aligning Curriculum, Instruction and Assessment with Outcomes of Significance, and Doing OBE Right by Using Aligned Assessment Data and Student Results to Restructure Teaching and Learning

## SEMINAR-WORKSHOP ON ACADEMIC PROGRAM IMPLEMENTATION DESIGN AND INSTRUCTION ON THE DACUM PROCESS

SYSTEM-WIDE

NOVEMBER 13 - 16



Seminar-Workshop on Academic Program Implementation Design and Instruction on the DACUM Process in Training Center, USTP Panaon, Panaon, Misamis Occidental on November 13-16, 2018.

### PROGRAM IMPLEMENTATION DESIGN

(Phase 1: 2017-2020)

The following projects were formulated for implementation:

1. Innovative Teaching – Learning Framework (ITLF)
2. Innovations in the Industry Immersion Program (OJT)
3. Strengthening the “Shadow Industries” in the Academe
4. Enhancing the USTP Graduate Attributes
5. Faculty Workload Rationalization
6. Institutionalization of Extension and Production
7. USTP as a Discovery and Innovation University



## USTP OROQUIETA NSTP CLEARS COASTS WITH DENR

USTP OROQUIETA

NOVEMBER 21



Students enrolled in the National Service Training Program (NSTP), in partnership with the Department of Environment and Natural Resources (DENR) conducted a coastal clean-up last November 21, 2018 at Punta Blanca, to promote and ensure cleanliness of shores in lieu with the Environment Awareness Month celebration.

In observation and proactive response to the DENR's theme "Beat Plastic Pollution: If you can't refuse it, refuse it" for the environment month celebration for 2018, the USTP Oroquieta NSTP classes, together with the Waste

Management Team of Barangay Mobod, partnered with DENR, to help clean the coast line of Punta Blanca, Mobod, Oroquieta City. The activity went with safety precautions as barangay security officers were around to watch over the students.

The clean-up commenced at 5:00 AM with the students picking plastic wastes along the shoreline. The cleaning activity ended at 7:30 AM with students collating an approximate of more than ten sacks of polyethylene plastics and other forms of plastic wastes. While most of the trash were collected by the city garbage collector, a fraction of the plastic wastes was sorted and cleaned after so it could still be reused and reformed for USTP Oroquieta's extension project on recycling and handcrafting.

After the clean-up drive at the coastal area, the students went back to the campus to continue the event with a symposium on environmental issue awareness led by the guest speaker, Ms. Melona Marcial from DENR (City ENRO) and an alumna of USTP Panaon, Marine Biology program. After which, the second speaker who shared about The Great Garbage Patch and Plastiknology Utilization was Ma. Liberty B. Doncillo, the innovator behind Plastiknology. The morning session ended at 12 noon.

In the afternoon, the second segment of the event had the students engaged in relevant competitions such as poster slogan competition, quiz ball, and eco fashion show with themes still revolving around environment awareness. The event then concluded with an awarding of the winners of the aforementioned contests.

## INNOVATION FORUM AND ROUNDTABLE DISCUSSION

USTP CAGAYAN DE ORO

NOVEMBER 22



On November 22, 2018, USTP Cagayan de Oro faculty and officials participated in the Innovation Forum & Roundtable Discussion, organized by USTP CDO's Center for Entrepreneurship and Technology and CHED.

The forum aims to inspire budding local entrepreneurs to pursue their ambitions by engaging in innovative business opportunities. Invited to speak were business owners, startup founders, and program heads of different national organizations that support enterprises involving technology and innovation.

Select members of the USTP Cagayan de Oro faculty, as well as students, participated in the event. CDO Bites' startups showcased their developments and products at the exhibit area







## FORMER NASA SCIENTIST GIVES LECTURE AT USTP

USTP CAGAYAN DE ORO

DECEMBER 5 - 7



Engr. Vicente E. Dy Reyes, a former scientist at the National Aeronautics and Space Administration (NASA) and part of DOST's Balik Scientist Program, gave a 3-day lecture entitled "International Engagement With Visiting Professor On Finite Element Analysis, Failure Analysis And Post-Curing Process Of Composite Materials" on December 5 to 7, 2018 at the USTP CDO Performing Art Theater. Topics covered are the following:

1. Finite Element Analysis and Failure Analysis
2. Proposed Enrichment and Inclusion of Finite Element Analysis in the Graduate Program of Civil Engineering (MEP-CE)
3. Proposed Enrichment and Inclusion of Finite Element Analysis in the Graduate Program of Mechanical Engineering (MEP-ME) of ME and CE.

## USTP OROQUIETA'S HELPS COLLABORATES WITH MOERDC AND PDAO FOR PLASTIKNOLOGY TRAINING

USTP OROQUIETA

DECEMBER 14



December 14, 2018—USTP Oroquieta's Handicraft for Environment and Livelihood Program for Students (HELPS), in collaboration with the Misamis Occidental Environmental Research and Development Center (MOERDC), and Persons with Disability Office (PDAO), conducted the Plastiknology training for persons with disability at Barangay Mobod.

Among the many extension initiatives of USTP, Plastiknology has established to have replicated as a successful sustainable concept among diversified groups of people, including those who are differently abled. The two-day aimed to help PWDs be aware of the environmental issues that the world is undergoing, and how they, as valuable components of the society can help solve the problem.

One of the many environmental problems detected at the recent times is the dominant disposal of Polyethylene plastics from coffee and juice packets from daily consumption, and such material is durable for nature to decompose, however, also robust enough to be altered to new useful materials, and this is where the participants' help comes in. Apart from awareness, the attendees also have to know how to lessen the negative effects of wastes by managing them in a productive light.

USTP Oroquieta's Team Dasig led the training and workshopped the participants in crafting friendship bonds, coin purses, bill wallets, and other home crafts. Apart from the idea of recycling and giving plastic wastes new life, it was also a venue for the participants to be aware of its entrepreneurial potential, in case they want to promote their creations. The workshop happened in two days to give time for the participants to accomplish their desired outputs.

Upon the completion of the outputs, the participants presented their crafts individually. The event culminated with a dance presentation from HELPS, intermission numbers from the PWD participants, and a video presentation.

## SEMINAR/LECTURE ON HIGH EFFICIENCY OPTOELECTRONIC DEVICES FOR ENERGY-EFFICIENT SOLID STATE LIGHTING

SYSTEM-WIDE

DECEMBER 17

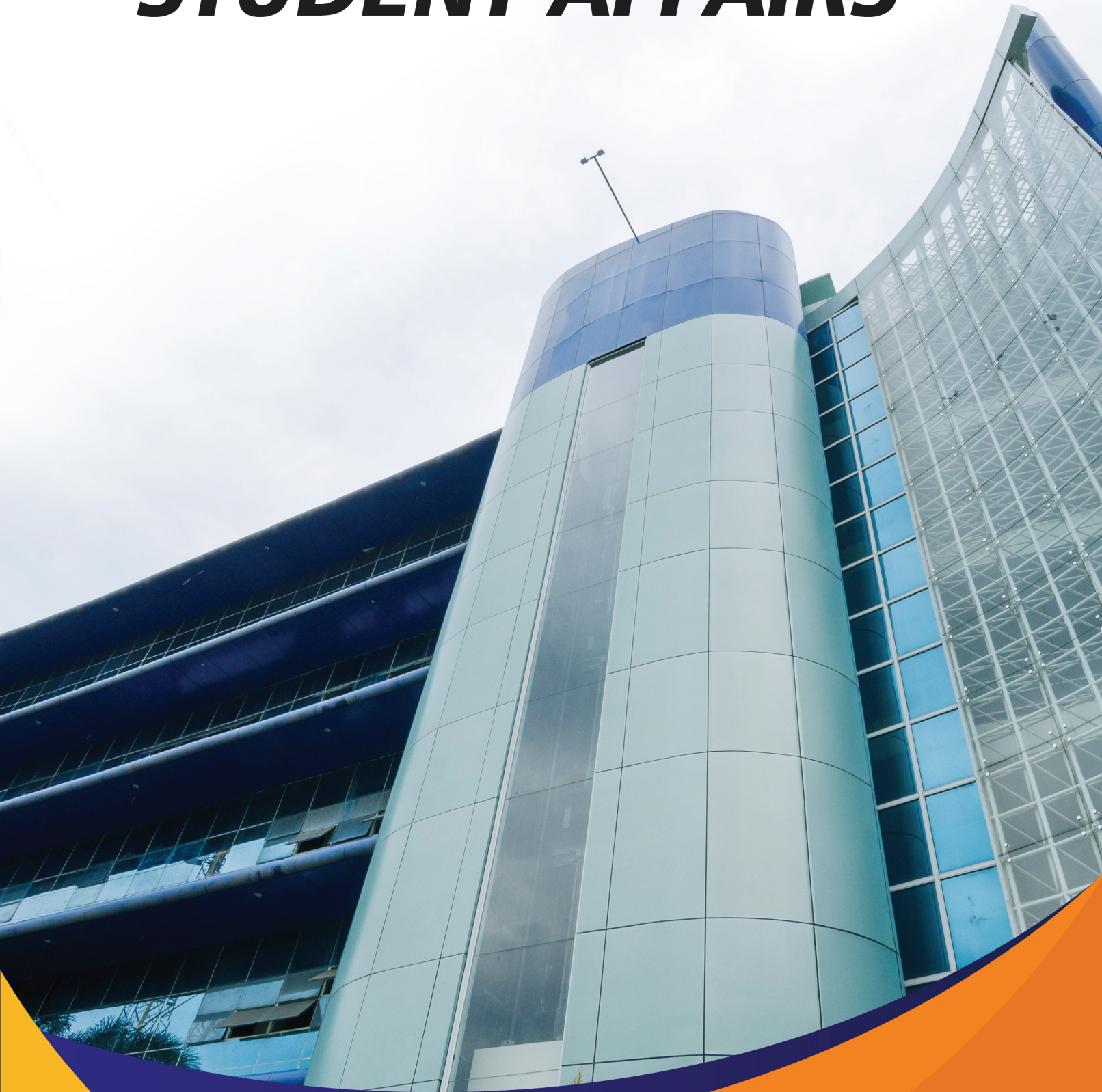


USTP CDO, in partnership with DOST's Balik Scientist Program, welcomed Ryan Ganipan Banal, D. Eng. as lecturer on December 17, 2018 on the topic High Efficiency Optoelectronic Devices for Energy-Efficient Solid State Lighting. The seminar/lecture was attended by faculty members and students under the College of Engineering and Architecture.

On the second day of his visit, Engr. Banal discussed possible research collaborations with USTP faculty members.



# ***ACADEMICS and STUDENT AFFAIRS***



# USTP ENROLLMENT 2018

Despite the transition period due to the implementation of the K to 12 program, the University has an increase of 24% in its undergraduate enrollment with a total of 11,016 students in the first semester.

Nineteen percent (19%) of the total student population is enrolled in the Bachelor of Science in Information Technology program, the University’s Center of Excellence as recognized by the Commission on Higher Education (CHED).

Enrollment SY 2018-2019

11,631

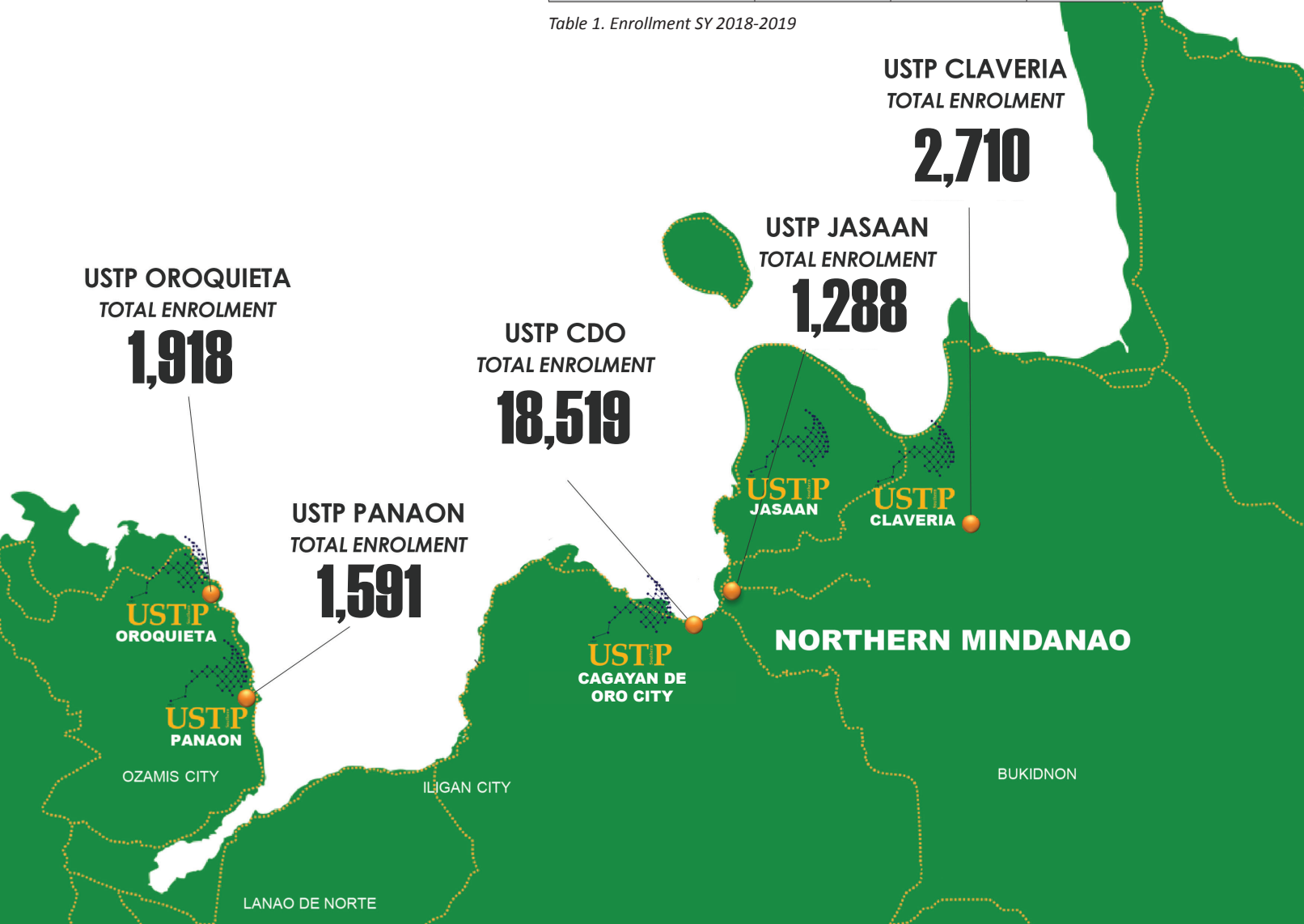
TOTAL ENROLLMENT  
FOR 1ST SEMESTER

10,729

TOTAL ENROLLMENT  
FOR 2ND SEMESTER

| Campus             | SY 2018-2019             |                          |        |
|--------------------|--------------------------|--------------------------|--------|
|                    | 1 <sup>st</sup> Semester | 2 <sup>nd</sup> Semester | Summer |
| Undergraduate      |                          |                          |        |
| USTP CDO           | 7,461                    | 6,963                    | 2,851  |
| USTP Claveria      | 1,209                    | 1,128                    | 223    |
| Clustered Campuses |                          |                          |        |
| USTP Jasaan        | 623                      | 567                      | 98     |
| USTP Oroquieta     | 956                      | 873                      | 89     |
| USTP Panaon        | 767                      | 702                      | 122    |
| Total              | 11,016                   | 10,233                   | 3,383  |
| Graduate           |                          |                          |        |
| Cagayan de Oro     | 551                      | 432                      | 261    |
| Claveria           | 64                       | 64                       | 22     |
| Total              | 615                      | 496                      | 283    |

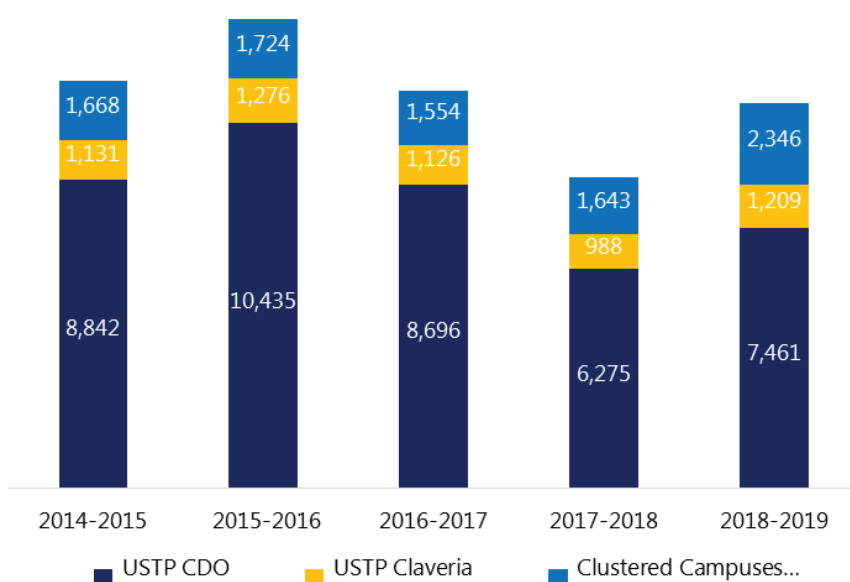
Table 1. Enrollment SY 2018-2019





## Enrollment Trend SY 2014-2015 to SY 2018-2019

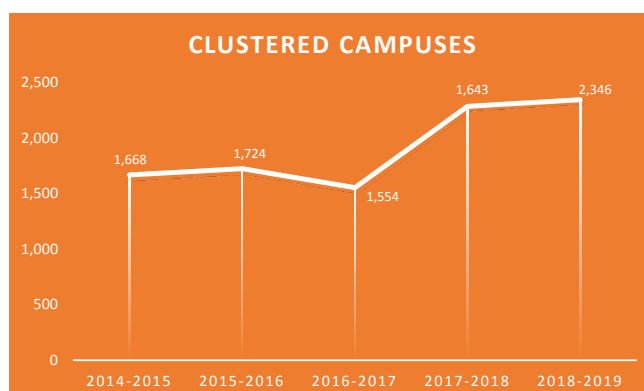
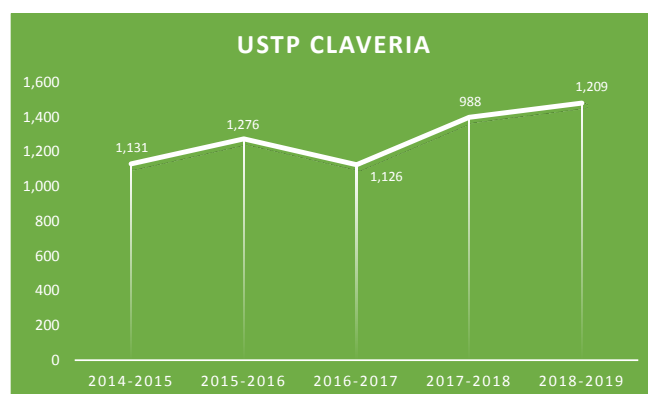
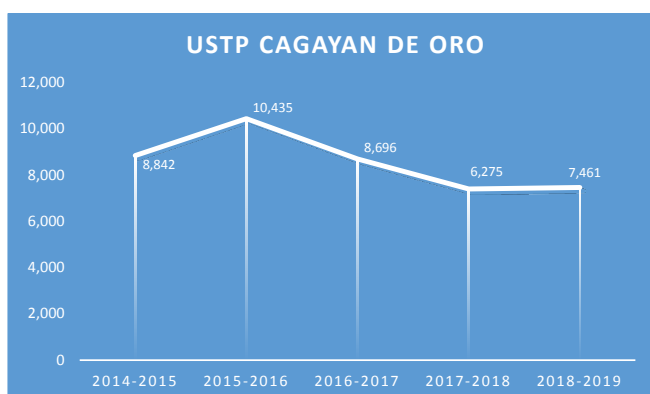
### Five (5) Year Undergraduate Enrollment Trend



In AY 2018-2019, more than 25% of the student population are enrolled in the Bachelor of Science in Information Technology program, the University's Center of Excellence as recognized by the CHED. About 40% of the student-population are also enrolled in Bachelor of Science in Agriculture, USTP's Center of Development (COD).

USTP still has an overall increase of almost 2% on its of enrollment for SY 2018-2019 despite implementation of the K-12 program.

Figure 1. Five Year Undergraduate Enrollment Trend



# USTP ENROLLMENT 2018

Figure 2A. Undergraduate Graduate Student Enrolment

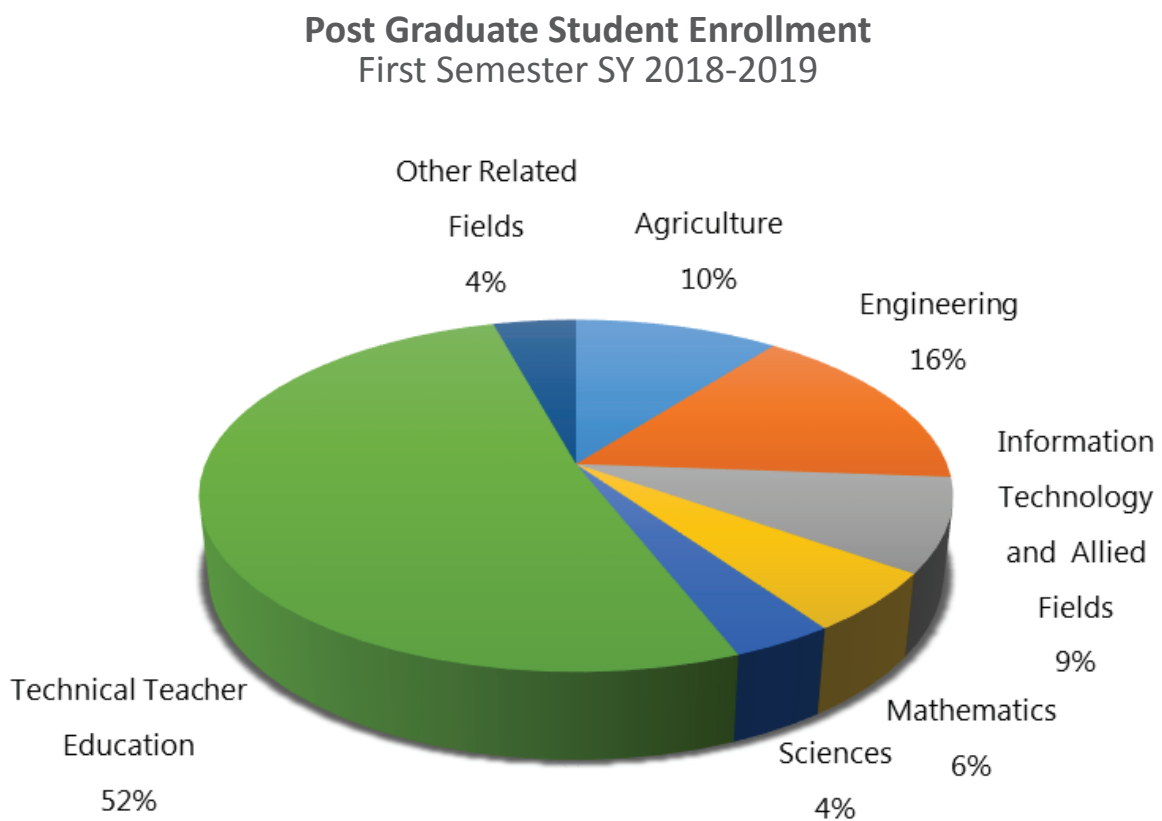
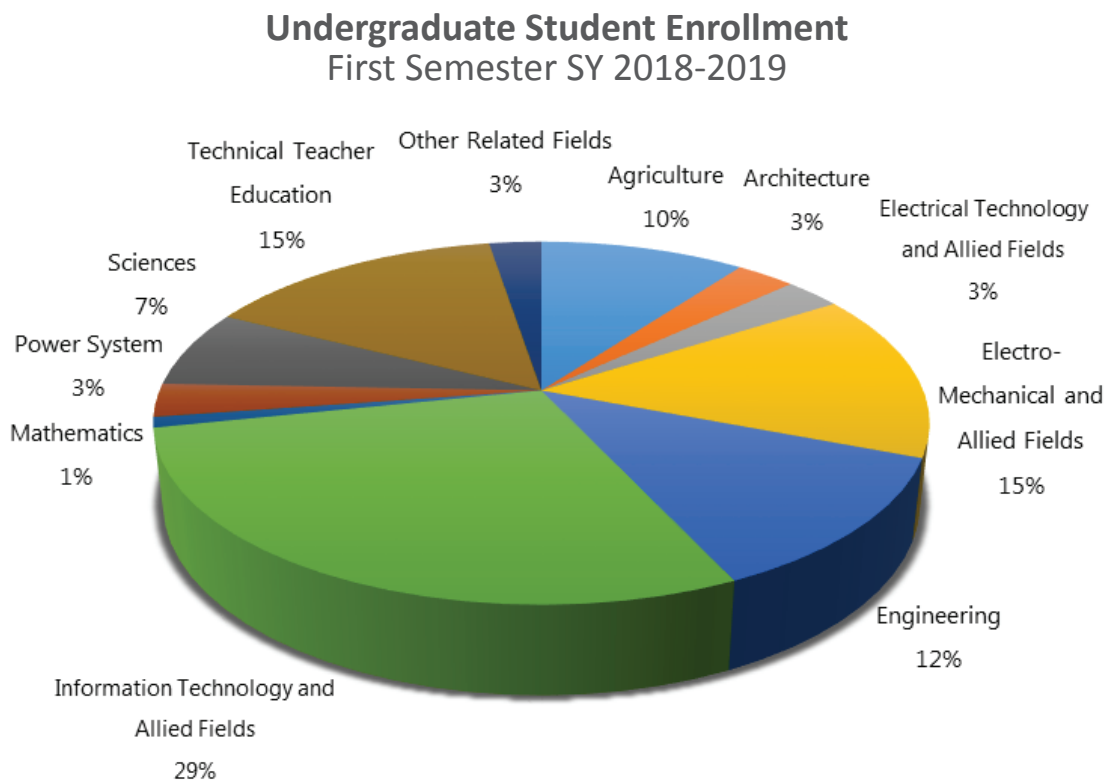
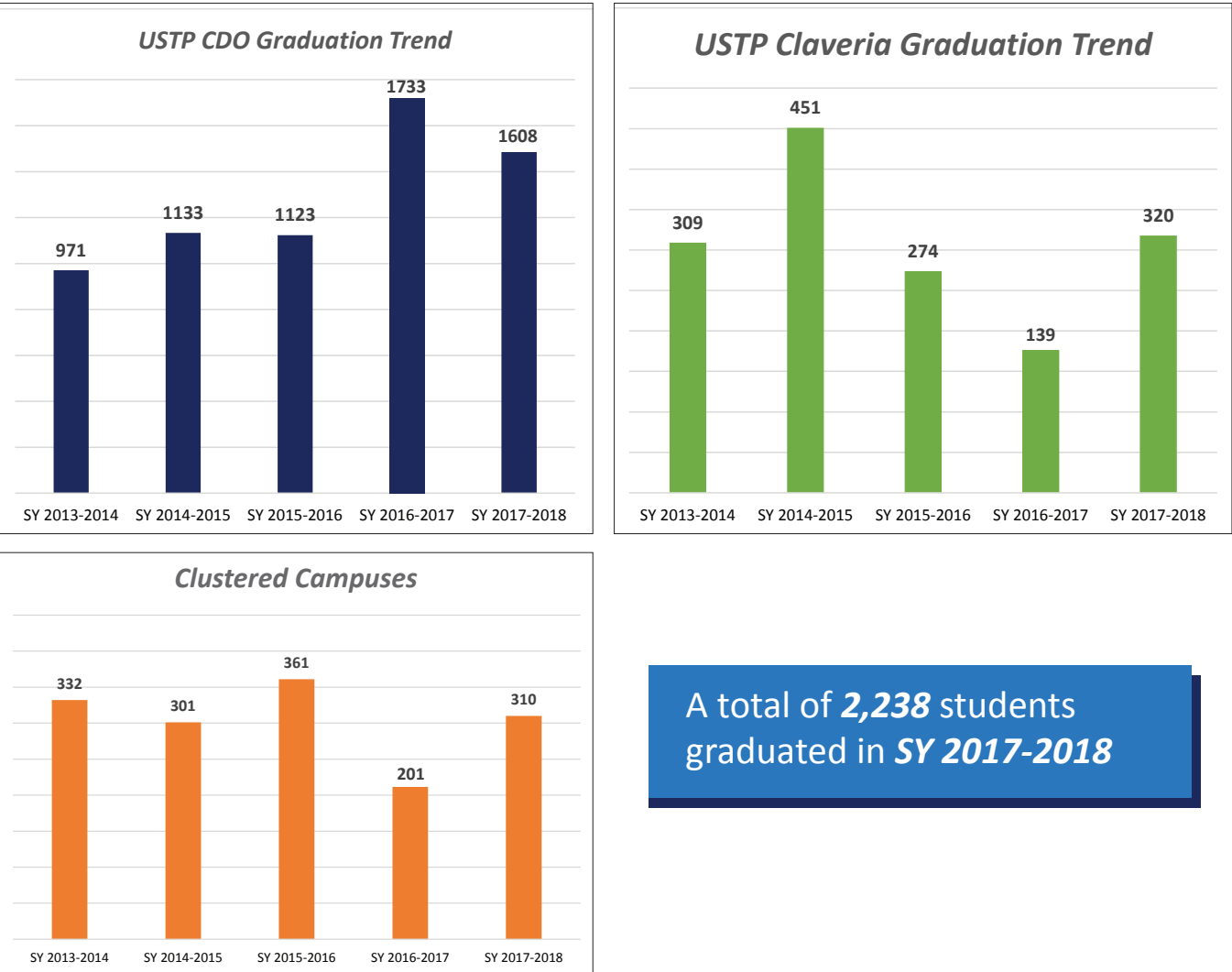


Figure 2B. Post Graduate Student Enrolment



# GRADUATES

Figure 3. USTP Graduation Trend (SY 2014-2018)



A total of **2,238** students graduated in **SY 2017-2018**



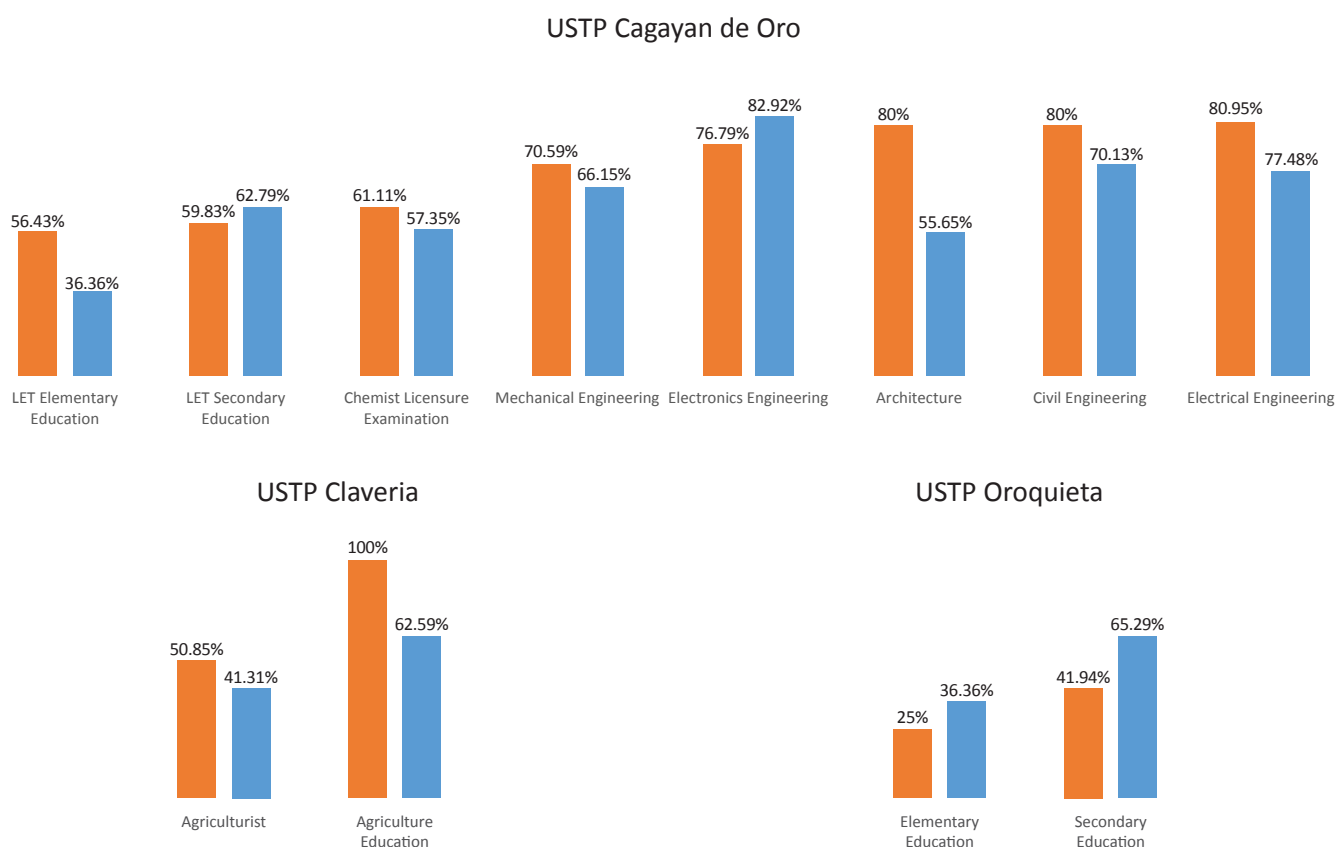
# PASSING PERCENTAGE IN LICENSURE EXAMS 2018

Figure 4. Passing Percentage of Licensure Exam

■ National Passing Rate  
■ USTP Passing Rate

In 2018, USTP produced three topnotchers in the Chemical Technician Licensure Examination conducted in October. Moreover, USTP earned a university passing rate not lower than 56% in the said examination.

Figure 4. Passing Percentage of Licensure Exam





## Congratulations

**to the 2018 Chemical Technician Licensure Examination Passers!**



**2nd Place**  
Mary Rose Trillo Sullano



**7th Place**  
Anna Kristine Obina



**10th Place**  
Ronnie Lee Besagas



**USTP**  
UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
OF SOUTHERN PHILIPPINES

From: USTP Administration, Faculty and Staff



# ACCREDITATION

The accreditation status of the graduate and undergraduate programs of the University in 2018 shows that 29% of all the graduate programs of USTP are accredited at Level 2 while 36% of the undergraduate programs are accredited at Level 3.

Figure 5A. Accreditation Status of Undergraduate Programs

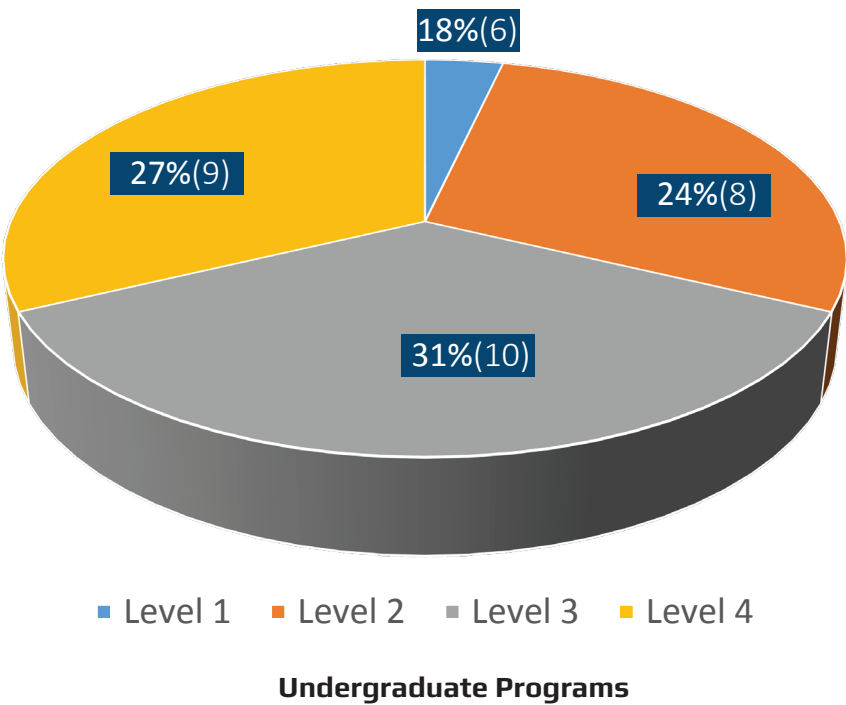
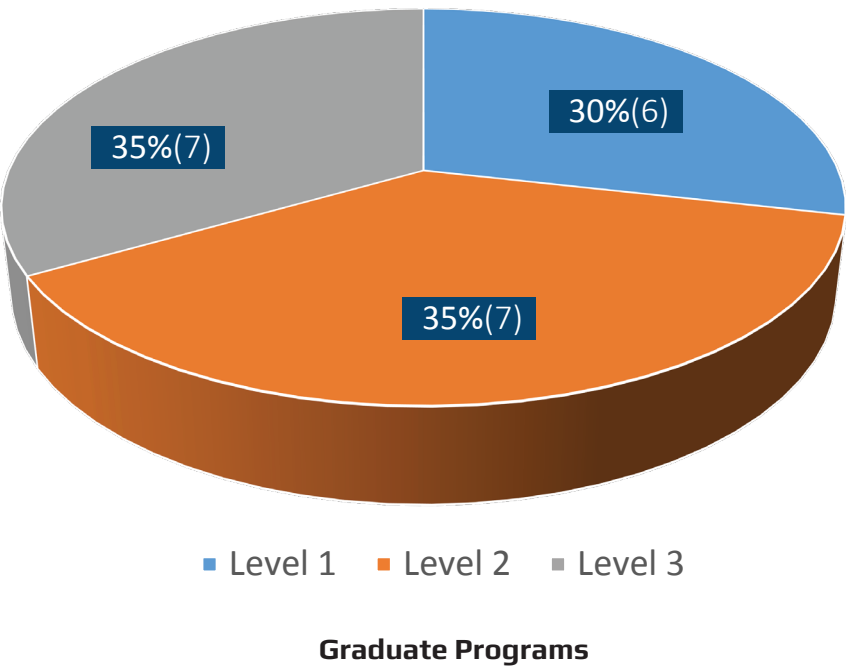


Figure 5B. Accreditation Status of Graduate Programs



# SCHOLARSHIP AND FINANCIAL ASSISTANCE

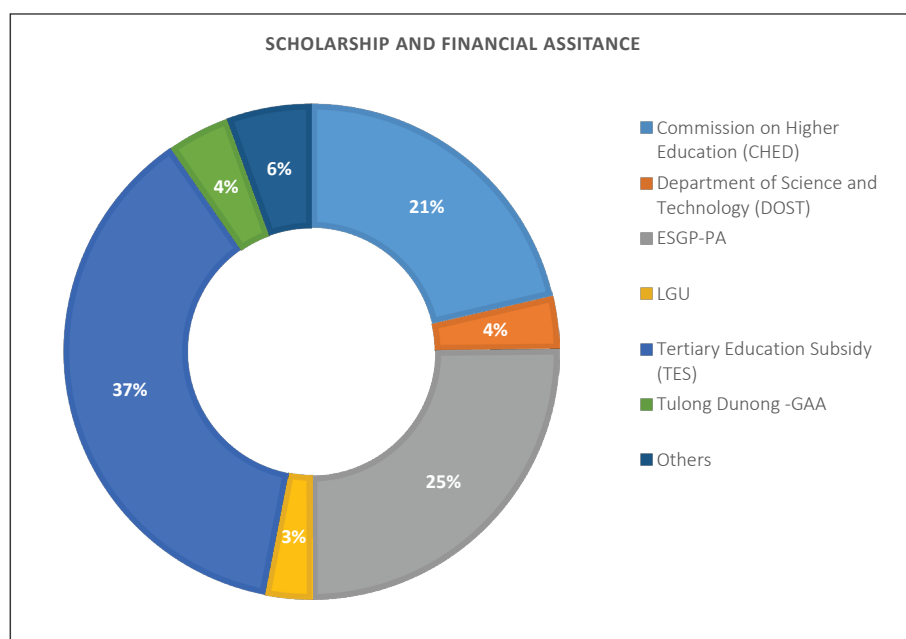


Figure 6. Scholarship and Financial Assistance

| Sponsor                                     | Amount               | Number of Recipient |            |            | Total        |
|---|----------------------|---------------------|------------|------------|--------------|
|   |                      | CDO                 | Claveria   | Clustered  |              |
| Commission on Higher Education (CHED)       | 14,896,031.08        | 1,466               | 90         | 24         | 1,580        |
| Department of Science and Technology (DOST) | 2,398,220.00         | 241                 | -          | -          | 241          |
| ESGP-PA                                     | 17,523,154.00        | 208                 | 56         | 188        | 452          |
| LGU   | 2,154,238.60         | 398                 | 107        | -          | 505          |
| Tertiary Education Subsidy (TES)            | 25,996,000.00        | 630                 | -          | 203        | 833          |
| Tulong Dunong -GAA                          | 2,868,000.00         | 230                 | -          | 119        | 349          |
| Others                                      | 3,858,568.86         | 400                 | 187        | 9          | 596          |
| <b>TOTAL</b>                                | <b>69,694,212.54</b> | <b>3,573</b>        | <b>440</b> | <b>543</b> | <b>4,556</b> |

Table 2A. Scholarship and Financial Assistance for Students per Sponsor.

| Campus       | Amount               | No. of Recipients |
|--------------|----------------------|-------------------|
| CDO          | 59,991,712.54        | 3,573             |
| Claveria     | 141,500.00           | 440               |
| Jasaan       | 35,000.00            | 22                |
| Oroquieta    | 104,000.00           | 269               |
| Panaon       | 9,422,000.00         | 252               |
| <b>TOTAL</b> | <b>69,694,212.54</b> | <b>4,556</b>      |

Table 2B. Scholarship and Financial Assistance for Students per Campus.

The total additional scholarship and financial assistance for students amounts to Php 70 million.

Tertiary Education Subsidy (TES) has the highest assistance with Php 26 million followed by ESGP-PA and Commission on Higher Education (CHED) with Php 17 million and Php 15 million, respectively.

Meanwhile, more than 4,500 recipients were granted various scholarship grants in the university.



# NOTABLE STUDENT AWARDS AND RECOGNITION

*USTP Cagayan de Oro*

## 5th Philippines Startup Challenge



Two startup entries from the University of Science and Technology of Southern Philippines (USTP) in Cagayan de Oro City made it to the semifinals of the 5th Philippine Startup Challenge. USTP's BFree of Technovators and Filipino Time of Catulong Team were among the semifinalists.



*Elvis P. Jamero 1<sup>st</sup> Place (left) and Anver Christian Z. Marapao 2<sup>nd</sup> Place (right) at DECONEX Architecture Design Competition Annual Design and Construction Exhibit*



*Albert Ulep , Dexter Jay Saberon, Gifford Jay Agudo 5th Place at Benilde Prize 3.0 Social Design National Competition*

# NOTABLE STUDENT AWARDS AND RECOGNITION

USTP Cagayan de Oro



*Jeffrey R. Ranolo, Rey Miguel Angelo S. Guivecan and Anna Paula Mae Rada 2<sup>nd</sup> Place in Philippine Startup Challenge*



*Shania Kyle Obidos Champion Vocal Pop Solo in PASUC National Culture and Arts Conference and Festival 2018*



*Bethel Amor Bullecer, Marben Astillo, Gia Gales, Elbert Abrea, Arjun Neil Crisologo 2<sup>nd</sup> Runner Up (National Qualifier) in Regional Math Wizard, 14<sup>th</sup> Regional Student Conference IIEE-CSC*



*Justin James Amarante, Paulo Entice, Bienvenido Geraldez, Aaron Guimare, Kent Ivan Labis 1<sup>st</sup> Runner Up in Bridge Building Competition, 10<sup>th</sup> Cagayan Construction Show Exhibit*





*Gerson Cabactulan and Khevin Faith Cabactulan won Gold in NFS-Kusina Kulinarya 2018, Kumbira 2018*



*Judy-Ann Caliba, Michael Adriane Juntado won silver in Pantry Chef: Salads & Sandwiches Live Competition, Kumbira 2018*



*Leonardo Gueta and Maty Joy Zapico Diploma award in Cake Decorating Theme: Mindanao Festival, Kumbira 2018*



*Khevin Faith Cabactulan, Rev Arell Arca and Christine Mae Torres won Bronze in NFS- Chef Wars (Mindanao Elimination Rounds), Kumbira 2018*



*Joemar Galanta and Julius Reyes won silver in Go Bananas Dessert Display, Kumbira 2018*

# NOTABLE STUDENT AWARDS AND RECOGNITION

USTP Claveria

## FASMIN Congress

With 71 students and faculty delegates, USTP Claveria garnered the **THIRD PLACE** among 12 competing tertiary agriculture schools in Mindanao during the 11th Federation of Agriculture Student in Mindanao (FASMin) Congress. The assembly was held on February 5-9, 2018 at Jose Rizal Memorial State University – Tampilisan Campus in Tampilisan, Zamboanga del Norte with the theme *Home-based Farming: An Approach to Solid Waste Utilization and Food Security*.

| Category                           | Rank             |
|------------------------------------|------------------|
| Plant propagation skills           | Overall Champion |
| Crop-based skills                  | 1st place        |
| Literary – based skills            | 1st place        |
| Animal-based skills                | 2nd place        |
| Musical/dance/pageant-based skills | 4th place        |
| <b>OVERALL RANKING</b>             | <b>3rd PLACE</b> |

Table 3. FASMIN Congress Awards

| Rank                  | Event  |
|-----------------------|--|
| 1 <sup>st</sup> place | Inverted T-budding, Marcotting, Livestock weight estimation, Extemporaneous speech, Team casting (men), Team casting (women), Barn Dance                           |
| 2 <sup>nd</sup> Place | Insect identification, Dish Gardening, Fertilizer computation, Cleft Grafting, Concept paper/research proposal making, Tug of War, Whip cracking                   |
| 3 <sup>rd</sup> place | Two-men carambola, Tug of war (women), Four men carambola, Load carrying (men), Poster Making, Feedstuff Identification, Quiz Bowl                                 |
| 4 <sup>th</sup> place | Weed Identification, Fertilizer Identification, Forage and Pasture identification, Four women carambola, One-woman lassoing, On-the-spot essay writing, Vocal Solo |
| 5 <sup>th</sup> place | Flower arrangement, Seed identification, Feed formulation, Plant population Density computation, Mr. and Ms.FASMIN   |

Table 4. 11th FASMIN Congress Overall Category Rankings

## Regional Schools Press Conference 2018

A senior high school delegate from the USTP Claveria who participated in the Division Schools Press Conference in Journalism Competition in August 2018 won the Editorial Writing and Feature Writing in English and was qualified to represent the Division of Misamis Oriental to the Regional Schools Press Conference held in Tangub City on December 3, 2018. Ms. Brynt Eunice Pallo, SHS Grade 12 won 5th place in Essay Writing in that RSSPC 2018.



# STUDENT CONFERENCES, SEMINARS AND NOTABLE ACTIVITIES

USTP Cagayan de Oro



## Northern Luzon Model Congress

Seven student leaders from USTP Cagayan de Oro attended the first Northern Luzon Model Congress (NLMC) at Baguio City on March 9 to 13, 2018 with the theme, “Enhancing the Role of the Youth Toward Sustainable Development and Good Governance in Northern Luzon.”

## Philippine Model Congress

Two delegates, Caryl Franchete Cubillan Alambatin And Loige Robert F. Sumaylo, represented USTP Cagayan de Oro at the Philippine Model Congress (PMC).

The Philippine Model Congress is a National Youth Congress that brings together the best Youth Leaders from diverse backgrounds which aims to give the youth an opportunity to band together and unitedly propose a stand to congress on what matters to them, and in doing so, be heard by our country’s leaders, increase awareness on national issues, and create a community of young people committed to nation building.



## DBP Rise Student Scholarship

Twenty-five (25) students from the Architecture and Engineering programs of USTP CDO were privileged to have been accepted under the DBP Resources for Inclusive and Sustainable Education (RISE) scholarship in 2018.

DBP RISE is a P500 million scholarship program that “provides financial support to underprivileged college students in the country.” The scholarship shouldered the student’s tuition fees, board and lodging expenses, living allowance, cost of apprenticeship, residency training and expenses during review of board exams.

# STUDENT CONFERENCES, SEMINARS AND NOTABLE ACTIVITIES

## 1st Leadership and Cultural Forum in Malaysia



Crush Joshua Baja and Caryl Alambatin traveled to the Universiti Utara Malaysia together with other student leaders from different ASEAN Universities to join the 1st Leadership and Cultural Forum on September 9 to 14, 2018.

## USTP Claveria



In 2018, 25 inbound/outbound exchange agriculture students underwent internship in Israel through the AgroStudies International. The students had hands-on work experiences in horticulture, dairy and poultry farms while having classroom classes in K'far Silver campus and Ruppin College.

| Title of training/seminar   | Participants   | Date                | Venue                               |
|---|--|---------------------|-------------------------------------|
| Coordination Meeting re: Advocacy Campaign Against Fake News                                  | USC officers (President, Secretary and PIO)                          | -                   | Cagayan de Oro City                 |
| Information Drive against OSEC and Child Trafficking School-based and Barangay Level Campaign | Student organization's officers (President's, V-President's and PIO) | January 26, 2017    | CLE, USTP Claveria                  |
| First Student Leadership Seminar  | Officers of student organizations                                    | November 9-10, 2018 | University Auditorium USTP-Claveria |
| General Orientation Program   | Freshmen and Transferee students                                     | June 19-20, 2018    | University Auditorium               |
| Anti-sexual harassment  | USTP Claveria students   | August 16, 2018     | University Auditorium               |
| Anti-terrorism and Drug Trafficking Seminar   | USTP Claveria students   | August 16, 2018     | University Auditorium               |
| Teenage Pregnancy and HIV/AIDS Seminar  | USTP Claveria students   | August 16, 2018     | University Auditorium               |
| Awareness Seminar on Teen Health and Drug Misuse and Abuse                                    | USTP Claveria students   | August 16, 2018     | University Auditorium               |
| Road Safety Seminar   | USTP Claveria students   | August 16, 2018     | University Auditorium               |
| Earthquake Drill  | USTP Claveria students   | August 16, 2018     | University Auditorium               |

Table 5. Seminars Attended by Students



*Seminars attended by students of USTP Claveria*



*Anti-sexual Harassment Seminar  
August 16, 2018*



*Teenage Pregnancy and HIV/AIDS Seminar  
August 16, 2018*



*Anti-terrorism and Drug Trafficking Seminar  
August 16, 2018*



*Road Safety Seminar  
August 16, 2018*



*1st Student leadership training  
November 9-10, 2018*



*Awareness Seminar on Teen Health  
and Drug Misuse and Abuse  
August 16, 2018*

# FORA ORGANIZED FOR FACULTY

## Doing OBE Right

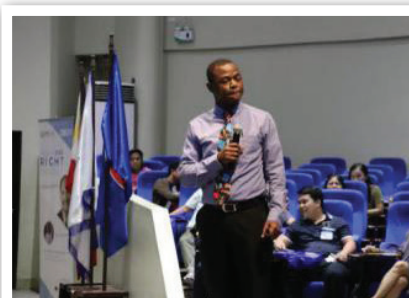
*In partnership with the Resource for Educators and Academic Professionals (REAP) and the Mindanao State University (MSU), the USTP CDO faculty participated in the two-day seminar-workshop called “Doing OBE Right” from October 26 to 27, 2018.*

Speakers:

Dr. William Spady (The Father of OBE)

Dr. Elias Sampa (OBE expert)

- Is Doing OBE Right Education’s “Mission Impossible”?
- Doing OBE Right Depends on Your O and Your B
- How Many Paradigm Shifts Does It Take to Do OBE Right - And How Long Does It Take?
- Transforming the Classroom and Lecture Hall by Doing OBE’s Four Principles “Right”
- Doing OBE Right by Designing and Aligning Curriculum, Instruction and Assessment with Outcomes of Significance
- Going OBE Right by Using Aligned Assessment Data and Student Results to Restructure Teaching and Learning



## Innovation Forum and Round Table Discussion



*Resource persons provide rich discussion on topics covered by the Innovation Forum*

*On **November 22, 2018**, USTP Cagayan de Oro faculty and officials participated in the **Innovation Forum & Roundtable Discussion**, organized by USTP CDO’s **Center for Entrepreneurship and Technology**.*

### TOPICS DISCUSSED:

- “How Vital Science, Technology and Innovation are to the Competitiveness and the Economic Growth of a Country” with Director Alfonso P. Alamban of DOST Region X.
- “The Importance of an Innovative Culture within a Company” with Gabriel Blaza, Head of Strategy, AC Industrial Technology Holdings, Inc.
- “How a Startup Company Recognizes an Opportunity and Builds Best Practices to Foster a Culture of Innovation” with Augusto Zes Martinez III, COO of FAME.
- “How the Culture of Innovation Provides an Opportunity for Local Government to Respond to Pressing Local Needs” with Hon. Oscar Moreno, Mayor of Cagayan de Oro City.
- “MinDA - Why Innovation is Important Specifically, the Creation and Diffusion of Technologies to Mindanao’s Economic Growth and Welfare” with Ernesto M. Tomas, Jr., Chief of MinDA’s Investments Promotions Division
- “A Brief Overview of the Philippine Start-up Ecosystem” with Ideaspace Program Head Ms. Brenda Valerio
- “The Challenges of CDO Bites in the Mindanao Startup Ecosystem” with Engr. Wendell D. Talampas, Project Leader of CDO Bites, USTP CDO, a project under DOST-PCIEERD Grants in Aid Program
- “Opportunities and Challenges in Building an Innovation and Startup Ecosystem in Mindanao” with startup founders and leaders in Mindanao.



## Research Mentoring Workshop



On October 22 to 24, 2018 at the USTP CDO Boardroom, the Institutes for Research, Innovation and Scholarship (IRIS) offered an intensive series of research capability-enhancing workshops on Writing, Preparing, and Publishing Papers in Indexed Journals and Writing a Competitive Grant Proposal.

The activity aims to equip faculty researchers and graduate students with the right skills that would enable them to write high quality scientific manuscripts ready for publication, as well as compose competitive grant proposals. Specifically, the three-day seminar-workshop gave its participants the opportunity to develop effective writing and oral communication skills.

The workshops were intended for faculty and researchers in the STEM and Arts/Humanities disciplines, with a minimum of MS/MA/PhD units.

## ACADEMIC TRAININGS ATTENDED

### Asia-Pacific Quality Network (APQN) 2018 Conference



On March 22 to 25, Engr. Consorcio S. Namoco Jr. attended the Asia-Pacific Quality Network (APQN) 2018 Conference as an official delegate of the Accrediting Agency of Chartered Colleges and Universities in the Philippines, Inc. (AACCUP).

The event brought together representatives from various countries such as Maldives, Iran, Sri Lanka, Indonesia, India, Samoa, Pakistan, Bhutan, United Kingdom, Philippines, Thailand, Japan, Russia, Malaysia, Korea, Kazakhstan, Afghanistan, Malaysia, China, Taiwan, Singapore, Papua New Guinea, Fiji, Croatia, Cambodia, Lithuania, and Mauritius to discuss the quality and accessibility of education.

### 22<sup>nd</sup> Annual International Conference



Engr. Jocelyn B. Barbosa and Engr. Jay Noel N. Rojo attended the 22<sup>nd</sup> Annual International Conference with the theme "The Fourth Industrial Revolution: Responding to Rapid Development, Innovation and Disruption" held last May 9-11, 2018 at the Grand Ballroom Century Park hotel, Manila

# FACULTY AWARDS AND RECOGNITION

## USTP Claveria

|   |  |
|---|--|
| Dr. Renato O. Arazo   | Dr. Renato O. Arazo received an Award of Recognition from Hon. Mayor of Claveria, Meraluna S. Abrogar, for being the pride of Claveria as Top 10 Outstanding Movers of the Philippines 2015: Champion of Life and Hero of the Environment on the occasion of the 68th Araw ng Claveria - Mais Festival 2018, July 21, 2018.  |
|   | The invention of Dr. Renato O. Arazo regarding the process of producing biofuel from sewage sludge was accepted as Utility Model (Bibliographic data: PH22016000771 (U1)) on October 19, 2018.   |
| Dr. Alexander L. Ido  | Dr. Alexander L. Ido received an Award of Recognition from Hon. Mayor of Claveria, Meraluna S. Abrogar, for being the pride of Claveria as Top 10 Outstanding Movers of the Philippines 2017: Champion of Life and Hero of the Environment on the occasion of the 68th Araw ng Claveria - Mais Festival 2018, July 21, 2018. |
|   | Dr. Alexander L. Ido successfully hurdled the Environmental Planner Licensure Examination held at Cagayan de Oro City on June 6-7, 2018.   |
| Ms. May Flor A. Basco and Ms. Maribel Soriso  | Ms. May Flor A. Basco and Ms. Maribel Soriso, took and successfully passed Food Processing NC II that was held at COBSAT, Bugo, Cagayan de Oro City on October 30, 2018.   |
| Ms. Flor A. Basco, Mr. Glennford Esparcia, Mr. Limuel V. Magallon, and Prof. Estrella L. Paguidopon and Ms. Vivien J. Butac | Ms. Flor A. Basco, Mr. Glennford Esparcia, Mr. Limuel V. Magallon, and Prof. Estrella L. Paguidopon and Ms. Vivien J. Butac, took and successfully passed Bread and Pastry Production NC II that was held at KNAS, Kinoguitan, Misamis Oriental on November 10, 2018.  |

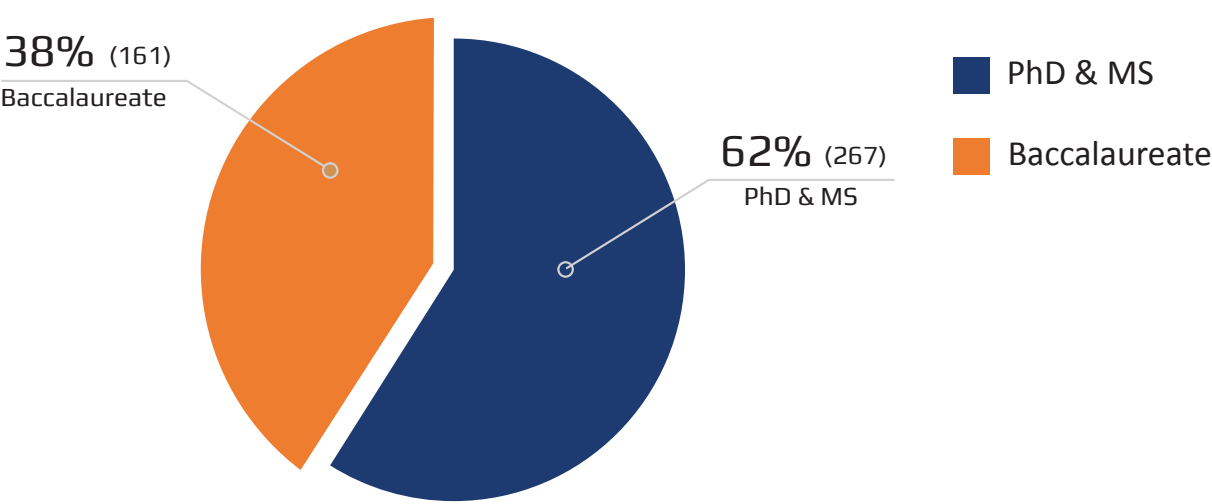
Table 6. USTP Claveria Faculty Awards and Recognition



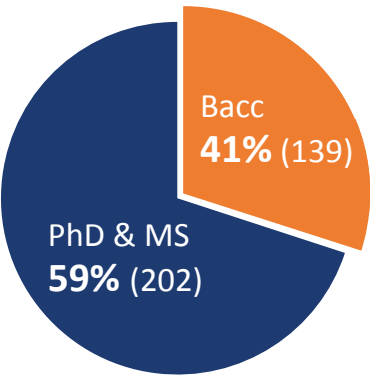
# FACULTY WORKFORCE

USTP has a strong and diversified faculty who graduated from leading universities in USA, Europe, Japan, Australia and Thailand, among others. Faculty members have been active in conducting research and innovations in different areas of expertise which provided biotech solutions not only to the Food Industry and Energy Sectors but also to government entities. Researches are consistent recipients of awards in regional, national and international research and development symposia, research papers published in Thompson Institute for Scientific Information (ISI), journals, international and national refereed journals.

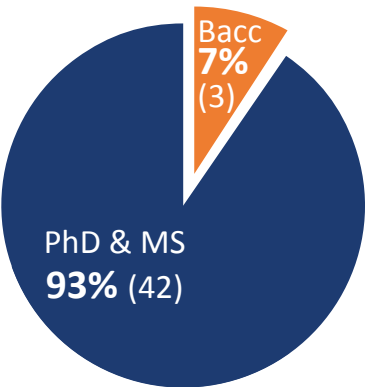
The University now has 428 tenured faculty members of which 59% are Masters Degree and Doctorate Degree holders.



CAGAYAN DE ORO



CLAVERIA



CLUSTERED CAMPUSES

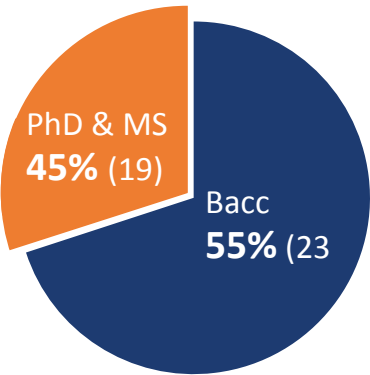


Figure 7. Faculty Workforce Profile

# VISITING PROFESSORS

**Dr. Martin Wieland and Dr. Dennes T. Bergado**  
August 13-14, 2018

The USTP CDO College of Engineering and Architecture hosted a seminar called "International Seminar on Mitigations for Compound Disasters caused by Earthquake and Climate Change" at the Performing Arts Theater. International resource speakers were invited to give lectures during the event.



Resource Speakers: Dr. Martin Wieland (left) and Dr. Dennes T. Bergado (right)

**Dr. Voratas Kachitvichyanukul and Dr. Matthew N. Dailey**  
August 31 - September 1, 2018



Source Speakers: Dr. Voratas Kachitvichyanukul (above) and Dr. Matthew N. Dailey (below)

The USTP CDO College of Engineering and Architecture, in partnership with Asian Institute of Technology (AIT) in Thailand, conducted a two-day forum on August 31 to September 1, 2018 at the USTP CDO Performing Arts Theatre. The seminar conducted was the "Recent Trends on Emerging Technologies in Engineering and Information Technology" where the following topics were discussed:

## **Robotics in Medical Industry**

Dr. AM Harsha S. Abeykoon  
Assistant Professor,  
Mechatronics Study Program  
Dept. Industrial Systems Engg.  
AIT, Thailand

## **Challenges and Opportunity in the Era of Industry 4.0**

Dr. Voratas Kachitvichyanukul  
Dean, School of Engg. and  
Technology AIT, Thailand

## **The Internet of Things for Smart Cities**

Dr. Matthew N. Dailey  
Associate Professor  
Head, Dept. of Information and  
Communication Technologies,  
AIT, Thailand

## **Traffic Safety**

Dr. Kunnawee Kanitpong  
Associate Professor,  
Transportation Engineering AIT,  
Thailand

**Dr. Jay Gonzales**  
September 18, 2018

## **Urbanization's Challenges and Opportunities**





**Dr. Elias Sampa and Dr. William Spady**

October 26 - 27, 2018



Keynote speakers during the Doing Outcome Based Education (OBE) Right: Dr. Elias Sampa (left) and Dr. William Spady (right)

*In partnership with REAP and the Mindanao State University (MSU), the USTP CDO faculty participated in the seminar-workshop called “Doing OBE Right” on October 26 to 27, 2018.. The seminar-workshop highlighted the importance of turning the traditional educational system of the Philippines into a more inclusive, experience-based, outcome-based learning experience. This event was also attended by faculty of MSU Marawi. The two experts on OBE presented several lectures.*

**Engr. Vicente E. DyReyes**

December 5 to 7, 2018



*USTP CDO hosted a three-day lecture from December 5 to 7, 2018 at the Performing Arts Theater. Invited to speak at the lecture was Engr. Vicente E. DyReyes, a former scientist of NASA, who is part of DOST’s Balik Scientist Program. The lecture dubbed as “International Engagement with Visiting Professor on Finite Element Analysis, Failure Analysis and Post-Curing Process of Composite Materials” covered the following topics:*

1. *Finite Element Analysis and Failure Analysis*
2. *Proposed Enrichment and Inclusion of Finite Element Analysis in the Graduate Program of Civil Engineering (MEP-CE)*
3. *Proposed Enrichment and Inclusion of Finite Element Analysis in the Graduate Program of Mechanical Engineering (MEP-ME)*



**Ryan Ganipan Banal, D. Eng.**

December 17, 2018

*USTP CDO, in partnership with DOST’s Balik Scientist Program, welcomed Ryan Ganipan Banal, D. Eng. for his lecture on High Efficiency Optoelectronic Devices for Energy-Efficient Solid State Lighting. The seminar/lecture was attended by faculty members and students under the College of Engineering and Architecture. On the second day of his visit, Engr. Banal discussed possible research collaborations together with USTP faculty members.*

# NEWLY HIRED FACULTY

| NO. | NAME                                 | POSITION TITLE         | CAMPUS             | DATE OF APPOINTMENT |
|-----|--------------------------------------|------------------------|--------------------|---------------------|
| 1   | Ar. Chris Francis N. Aspiras         | Instructor I           | Cagayan de Oro     | July 23, 2018       |
| 2   | Ar. Ernest Martin DO. Soriano        | Assistant Professor II | Cagayan de Oro     | July 23, 2018       |
| 3   | Engr. Julius B. Gamba                | Instructor I           | Cagayan de Oro     | July 24, 2018       |
| 4   | Engr. Jose Lorenzo D. Bucton         | Instructor I           | Cagayan de Oro     | August 07, 2018     |
| 5   | Ms. Cristina T. Remotigue            | Instructor I           | Cagayan de Oro     | April 07, 2018      |
| 6   | Engr. Abdul Halil S. Abdullah, II    | Instructor I           | Cagayan de Oro     | July 20, 2018       |
| 7   | Engr. Lorenz Jan C. Crujido          | Instructor I           | Cagayan de Oro     | July 20, 2018       |
| 8   | Engr. Arcel R. Salem                 | Instructor I           | Cagayan de Oro     | August 09, 2018     |
| 9   | Engr. Nelson T. Corbita, Jr.         | Instructor I           | Cagayan de Oro     | July 17, 2018       |
| 10  | Engr. Jerry B. Halibas               | Instructor I           | Cagayan de Oro     | August 13, 2018     |
| 11  | Mr. Joel O. Abratiguin               | Instructor I           | Cagayan de Oro     | July 11, 2018       |
| 12  | Ms. Shella I. Talampas               | Instructor I           | Cagayan de Oro     | August 14, 2018     |
| 13  | Ms. Anne Lorraine R. Sitoy           | Instructor I           | Cagayan de Oro     | July 23, 2018       |
| 14  | Ms. Angelie P. Sabanal               | Instructor I           | Cagayan de Oro     | August 30, 2018     |
| 15  | Mr. Feliciano T. Legara, IV          | Instructor I           | Cagayan de Oro     | August 15, 2018     |
| 16  | Mr. Albert Christopher P. Daniot, II | Instructor I           | Cagayan de Oro     | August 29, 2018     |
| 17  | Mr. Matthew R. Maulion               | Instructor I           | Cagayan de Oro     | August 15, 2018     |
| 18  | Ms. Crisline Mae C. Alhambra         | Instructor I           | Cagayan de Oro     | May 15, 2018        |
| 19  | Ms. Rodesita S. Estenzo              | Instructor I           | Cagayan de Oro     | July 31, 2018       |
| 20  | Mr. Mark Lister V. Nalupa            | Instructor I           | Cagayan de Oro     | July 26, 2018       |
| 21  | Engr. Edgem Lloyd S. Balabis         | Instructor I           | Cagayan de Oro     | August 17, 2018     |
| 22  | Engr. Shiella Marie A. Pacturan      | Instructor I           | Cagayan de Oro     | September 24, 2018  |
| 23  | Ar. Adolph Vincent E. Vigor          | Instructor I           | Clustered Campuses | October 30, 2018    |
| 24  | Engr. Mars S. Diaz                   | Instructor I           | Claveria           | Nov. 8, 2018        |
| 25  | Ar. Helen S. Agulay                  | Instructor I           | Claveria           | December 18, 2018   |
| 26  | Ms. Judife N. Magallanes             | Instructor I           | Claveria           | December 18, 2018   |
| 27  | Robert Manuel B. Summilla            | Instructor I           | Claveria           | July 03, 2018       |

Table 7. Newly Hired Faculty



# FACULTY DEVELOPMENT PROGRAM

| FACULTY SCHOLAR         | GRADUATE PROGRAM/<br>SPECIALIZATION                             | DELIVERING INSTITUTION   | TYPE OF SCHOLARSHIP  |
|-------------------------|---|--|--|
| USTP Cagayan de Oro     |   |  |  |
| Dolino, Christopher S.  | Master of Engineering Program                                   | University of Science and Technology of Southern Philippines         | Full/MUST FDP and CHED K-12 Transition Scholarship Program                                   |
| Maramara, Joel D.       | Master in Engineering Program                                   | University of Science and Technology of Southern Philippines         | Full/MUST FDP and CHED K-12 Transition Scholarship Program                                   |
| Pagal, May Alelin G.    | Master of Science in Electrical Engineering                     | MSU - IIT  | Full/MUST FDP and CHED K-12 Transition Scholarship Program                                   |
| Pimentel, Romano        | Master in Engineering Program                                   | University of Science and Technology of Southern Philippines         | Full/MUST FDP and CHED K-12 Transition Scholarship Program                                   |
| Ganas, Dennis           | Master in Mechanical Engineering                                | University of Science and Technology of Southern Philippines         | Full/MUST FDP and CHED K-12 Transition Scholarship Program                                   |
| Labajan, April Ruth     | Masteral Program-Industrial and Manufacturing Engineering       | Asian Institute of Technology, Thailand                              | Full/USTP FDP  |
| Cagadas, Dominic        | Masterial Program-Microelectronics and Embedded System          | Asian Institute of Technology, Thailand                              | Full/USTP FDP  |
| Dumpa, Ferdinand A.     | "Master of Science in Urban and Rural Planning"                 | MSU-IIT, Iligan City   | Full/ MUST-FDP   |
| Nunag,Benjamin          | Master of Engineering   | MSU-IIT, Iligan City   | Partial/USTP FDP and CHED Scholarship Program  |
| Bajuyo, John Rey B.     | Master of Engineering Program - Electrical Engineering          | University of Science and Technology of Southern Philippines CDO     | Full/USTP and CHED k to 12 Scholarship Program   |
| Dunque, Kristine Mae P. | Master of Engineering (Specialization - Telecommunication)      | Southern Taiwan University of Science and Technology (STUST), Taiwan | Full/USTP and STUST  |
| Macas, Allain Jessel P. | Master of Engineering (Specialization - Biomedical Engineering) | Southern Taiwan University of Science and Technology (STUST), Taiwan | Full/USTP and STUST  |
| Telen, Mary Ann E.      | Master of Science in Computer Applications                      | MSU-IIT, Iligan City   | Full/ USTP-FDP and MSU-IIT Engineering Research and Development for Technology - (ERDT-DOST) |
| Capilayan, Mycel A.     | PhD - Biomedical Engineering                                    | Southern Taiwan University of Science and Technology (STUST), Taiwan | Full/USTP and STUST  |

Table 8. Faculty Development Program

# FACULTY DEVELOPMENT PROGRAM

| FACULTY SCHOLAR            | GRADUATE PROGRAM/<br>SPECIALIZATION  | DELIVERING INSTITUTION   | TYPE OF SCHOLARSHIP   |
|----------------------------|--|--|---|
| Gulben, Daxter William L.  | PhD - Power System   | Southern Taiwan University of Science and Technology (STUST), Taiwan | Full/USTP and STUST   |
| Gulben, Ellen Jane G.      | PhD - Renewable Energy   | Southern Taiwan University of Science and Technology (STUST), Taiwan | Full/USTP and STUST   |
| Ongayo, Glenn P.           | PhD Chemistry  | Ateneo de Manila University, Manila                                  | Full/USTP and DOST (ASTHRDP-NSC)                            |
| Leopoldo, Girlie D.        | PhD Chemistry  | University of San Carlos, Cebu City                                  | Full/USTP and DOST (ASTHRDP-NSC)                            |
| Abug, Alma N.              | Doctorate Degree in Environmental Biological Engineering Major in Applied Environmental Microbiology | Myongji University, Gyeonggi-do, Korea                               | Full/ USTP-FDP  |
| Barbosa, Jocelyn B.        | Ph.D. in Computer Science  | Korea University, Seoul, South Korea                                 | Full/ USTP-FDP and Korean Gov't. Scholarship Program        |
| Closas, Adonis A.          | Doctor of Eng'g. Maj. in Mechanical Engineering  | MSU-IIT, Iligan City   | Full/ USTP-FDP  |
| Dumaquita, Nivea Louwah L. | Ph.D. in Education major in Research and Evaluation  | UP, Diliman, Quezon City   | Full/ USTP-FDP  |
| Oche, Jonathan S.          | Doctor of Public Administration  | Xavier University, Cagayan de Oro City                               | Partial/ USTP-FDP   |
| Rojo, Jay Noel N.          | PhD in Computer and Information Engineering  | INHA University, Incheon South Korea                                 | Full/USTP-FDP and Junseok International Scholarship Program |
| Acal, Penelyn L.           | PhD in Mathematics   | MSU - IIT  | Full/USTP-FDP and CHED K-12 transition Scholarship Program  |
| Baguin, Israel A.          | Doctor of Engineering  | MSU - IIT  | Full/USTP-FDP and CHED K-12 transition Scholarship Program  |
| Caingles, Vera Karla S.    | Doctor of Engineering  | MSU - IIT  | Full/USTP-FDP and CHED K-12 transition Scholarship Program  |
| Hamoy, Efren N.            | PhD in Physics   | Ateneo de Manila University  | Full/USTP-FDP and CHED K-12 transition Scholarship Program  |
| Naces, Giovanni            | PhD in Physics   | Ateneo de Manila University  | Full/USTP-FDP and CHED K-12 transition Scholarship Program  |
| Rollo, Edward              | Doctor of Engineering  | MSU - IIT  | Full/USTP-FDP and CHED K-12 transition Scholarship Program  |

Table 8. Faculty Development Program



# FACULTY DEVELOPMENT PROGRAM

| FACULTY SCHOLAR                 | GRADUATE PROGRAM/<br>SPECIALIZATION   | DELIVERING INSTITUTION  | TYPE OF SCHOLARSHIP   |
|---------------------------------|---|---|---|
| Solidum, Ruelson S.             | PhD in Physics  | MSU - IIT   | Full/USTP-FDP and CHED K-12 Transition Scholarship Program    |
| Comaling, Venerando             | Doctor of Mechanical Engineering  | University of San Carlos, Cebu City   | Full/USTP-FDP and CHED K-12 transition Scholarship Program    |
| Pascua, Diogenes Armando        | Doctor of Engineering   | University of San Carlos, Cebu City   | Full/USTP-FDP and CHED K-12 transition Scholarship Program    |
| Salingay, Maria Luisa B.        | PhD in Water Science and Engineering  | University of Delft, Netherlands  | Full/USTP-FDP and UNESCO-IHE                                  |
| Pangan, Ma. Cecilia L.          | PhD in Counselling Psychology with Specialization in School and Community Counselling   | De la Salle University, Dasmarias, Cavite                                   | Full/USTP-FDP   |
| Bernardo, John Benedict         | Doctorate Program- Information and Communications Technology                            | Asian Institute of Technology, Thailand                                     | Full/USTP FDP   |
| Landicho, Junar                 | Doctorate Program - Information Management  | Asian Institute of Technology, Thailand                                     | Full/USTP FDP   |
| Eder, Marylene                  | Doctorate Program - Information Technology  | Asian Institute of Technology, Thailand                                     | Full/USTP FDP   |
| Raboy, Love Jhoy                | Doctorate Program - Information and Communications Technology                           | Asian Institute of Technology, Thailand                                     | Full/USTP FDP   |
| Namoco, Sarah O.                | Doctor of Education -(Educational Technology and Multimedia)                            | Universiti Sains of Malaysia, Penang, Malaysia                              | Full/USTP FDP   |
| Caga-anan, Rhegie M.            | Dissertation Grant to complete her Ph.D. in Mathematical Sciences (Applied Mathematics) | University of Science and Technology of Southern Philippines                | Partial/MUST FDP and CHED K-12 Transition Scholarship Program |
| Galarpe, Van Ryan Kristopher R. | Ph.D. in Environmental Science  | University of the Philippines, Diliman, Quezon City                         | Full/USTP and DOST (ASTHRDP-NSC)                              |
| Lapitaje, Jerson                | Ph.D. in Chemistry with specialization in Organic Chemistry                             | University of St. Andrews in Scotland, United Kingdom                       | Full/USTP FDP   |
| USTP-Claveria                   |   |   |   |
| Engr. Dennis T. Yamuta          | Ph.D. in Environmental Science (On study leave)   | University of the Philippines, Los Baños                                    | DOST-ERDT Scholarship Program                                 |
| Engr. Jose Rey Q. Joyno         | Master of Engineering (Part-time student)   | Xavier University-Ateneo de Cagayan   | CHED Scholarship Program                                      |
| Engr. Cielo R. Tion             | Master of Engineering (Part-time student)   | Xavier University-Ateneo de Cagayan   | CHED Scholarship Program                                      |
| Ms. Maribel R. Soriso           | "Master in Technician Teacher Education major in Foods (Part-time student)"             | University of Science and Technology of Southern Philippines-Cagayan de Oro | None  |

Table 8. Faculty Development Program

# FACULTY DEVELOPMENT PROGRAM

| FACULTY SCHOLAR           | GRADUATE PROGRAM/<br>SPECIALIZATION           | DELIVERING INSTITUTION  | TYPE OF SCHOLARSHIP   |
|---------------------------|---|---|---|
| Prof. Argin A. Gulanes    | PhD in Education Management                   | Capitol University, CDO   |   |
| Ms. Joy E. Pepania        | Master of Arts in PE                          | Liceo De Cagayan University, CDO  |   |
| Prof. Kharen C. Cimagala  | Doctor of Philosophy in Microbiology          | University of the Philippines Los Baños                                       | DOST  |
| Prof. Casimero L. Icalina | Doctor of Technology in Education             | University of Science and Technology of Southern Philippines – Cagayan de Oro | None  |
| Clustered Campuses        |   |   |   |
| Calvis, Liza H.           | PhD. In Marine Biology                        | Siliman University, Dumaguete City  | Full/USTP FDP and CHED K-12 Transition Scholarship Program                      |
| Cardoza, Marjho mae S     | PhD in Marine Biology                         | Siliman University, Dumaguete City  | Full/USTP FDP and CHED K-12 Transition Scholarship Program                      |
| Añasco, Leny Q.           | Ph.D. in Science Education major in Chemistry | MSU-IIT, Iligan City  | Full/ USTP-FDP and CHED K-12 Transition Scholarship Program-effective June 2017 |

Table 8. Faculty Development Program





# The Career Center

## Realizing Career Goals

### Personality Development Program

- Career Advising
- Career Assessment
- Career Peer Coaching

### Professional Development Program

- Career Lecture Series
- Ignite Series
- Pre-Employment Orientation
- Career Exploration Series
- Job Mock Interview
- OJT Orientation

### Informational Resources

- Occupational Brochures
- Career Guide
- Online Resources
- Career Center Website
- Pop-Up Booth

### Job Search Programming

- E-Career Portfolio
- Social Media Application
- Campus Hiring
- Reverse Career Fair
- Job Expo

### Employer Relations

- Placement Partners
- Academe-Industry Forum
- Networking Night

### Alumni Networking

- Alumni Database - Graduate Tracer Survey

The USTP Cagayan de Oro Career Center is committed to helping students identify and actualize their goals through a variety of activities that give them access to valuable resources for employment and skills advancement.

One notable achievement of the USTP CDO Career Center is the recognition by the Science, Technology, Research and Innovation for Development (STRIDE) Program as a role model for other universities who are hoping to establish their own career centers.



*The USTP Career Center guides the students in identifying career opportunities that will match with their skills, interests, personality and values leading to meaningful and purposeful contribution to the global industry.*

# The Career Center



## 2018 Salient Accomplishments

Mr. Anito R. Librando providing basic strategies on Resume Writing to College of Science and Mathematics students.

**14** Lecture series conducted within the year

MOA/MOU forged **11**

Academe-Industry Fora conducted

**5**



Ribbon Cutting of the Job Expo with guest from Dept. of Labor and Employment and the Vice Chancellor for Research and Innovation, Dr. Ambrosio B. Cultura II.



Ms. Alva Espiritu of Del Monte Phils. with the 4th year students, Mr. Ariel Tecson, and Ms. Lera Fay Cotiangco-de la Rama.



Students' participants listened intently in the talks during the 2018 OJT Orientation.

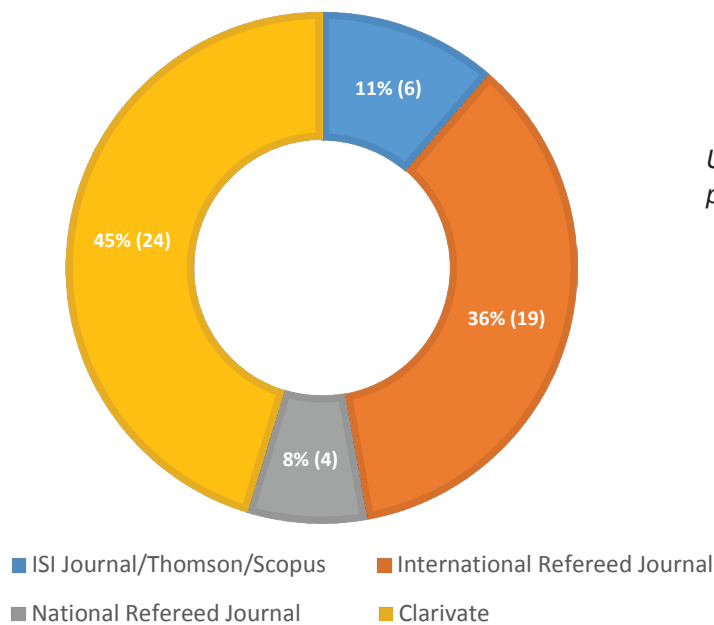


***RESEARCH,  
EXTENSION SERVICES  
and COMMUNITY  
RELATIONS***



# RESEARCH

Figure 8. Research Outputs Published in Recognized Journal



USTP published a total of 53 research papers in 2018

A total of 49 research presentations were made in 2018 - 59% in international fora, 6% in national fora, 16% in regional fora and 19% in local fora.

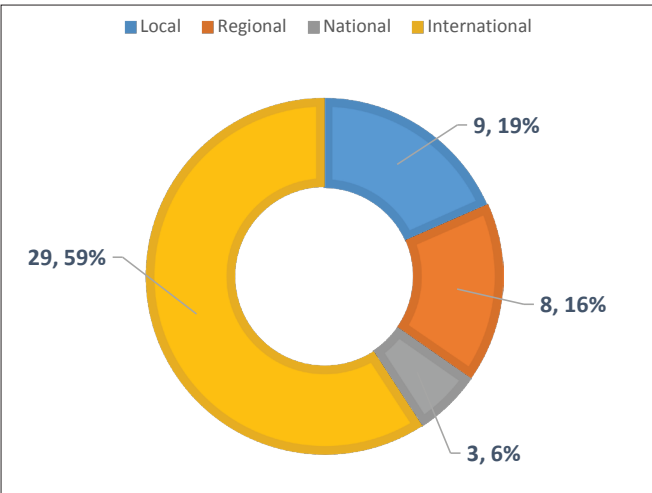
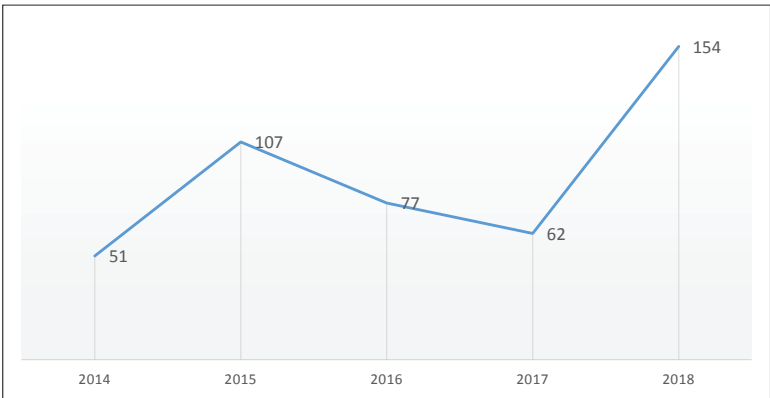


Figure 9. Research Presentation



Research citations significantly increased by 150% compared to the number of citations in 2017.

Figure 10. Research Citations



## EXTERNALLY-FUNDED RESEARCHES

### Environmental Impact Assessment of Mercury Contaminated Environs Due to Mining Activities in Barangay Gango, Libona, Bukidnon



*The following list of field workers or local counterparts were identified and recommended by their barangay chairpersons. Winyal Gallo (from Gango), Rio Gallo (from Gango), Jojo Haclad (from Cugman), Johnny Marid (from Cugman), Elmor Repulo (from Indahag), Alberto Repulo (from Indahag)*

The College of Science and Mathematics of USTP CDO received external funds from the Commission on Higher Education (CHED) for its research entitled “Environmental Impact Assessment of Mercury Contaminated Environs Due to Mining Activities in Barangay Gango, Libona, Bukidnon” spearheaded by faculty experts from the Department of Biology namely: Dr. Cordulo P. Ascaño II, Horacio Factura III, Mae Oljae Canencia & CSM Dean Dr. Dennis Apuan.

The said project was likewise participated by some faculty from the Department of Environmental Science and Technology (DEST) namely Krista Raye Leocadio, Alma Abug, Gina Lacang & Vicenta Ansibat and research project assistants Joven Pedrera, Jinebeth Pacaña, Justin Osa and John Dave Gama. The entire research activity is for 24 months.

The research team scheduled the training for the local counterparts from the three (3) barangays identified on April 26, 2018. The training focused on the proper sampling methods and techniques on the collection of plant samples, fish samples, and gastropod samples. The said training was hosted by the Capitol University as the collaborating university. The training was participated by six (6) local counterparts coming from the three (3) barangays identified; intern students from EST Department of USTP; and graduating nursing students from Capitol University. Figures below show the documentation during the training.



*During the conduct of training to the local counterparts on different sampling procedures for plants, fish, and gastropods at the Capitol University. Dr. Cordulo P. Ascaño II discussing fish sampling procedure to the participants.*

Research Collaboration

In 2018, there was a total of 20 active partnerships as a result of extension activities and a total of 69 research collaborations

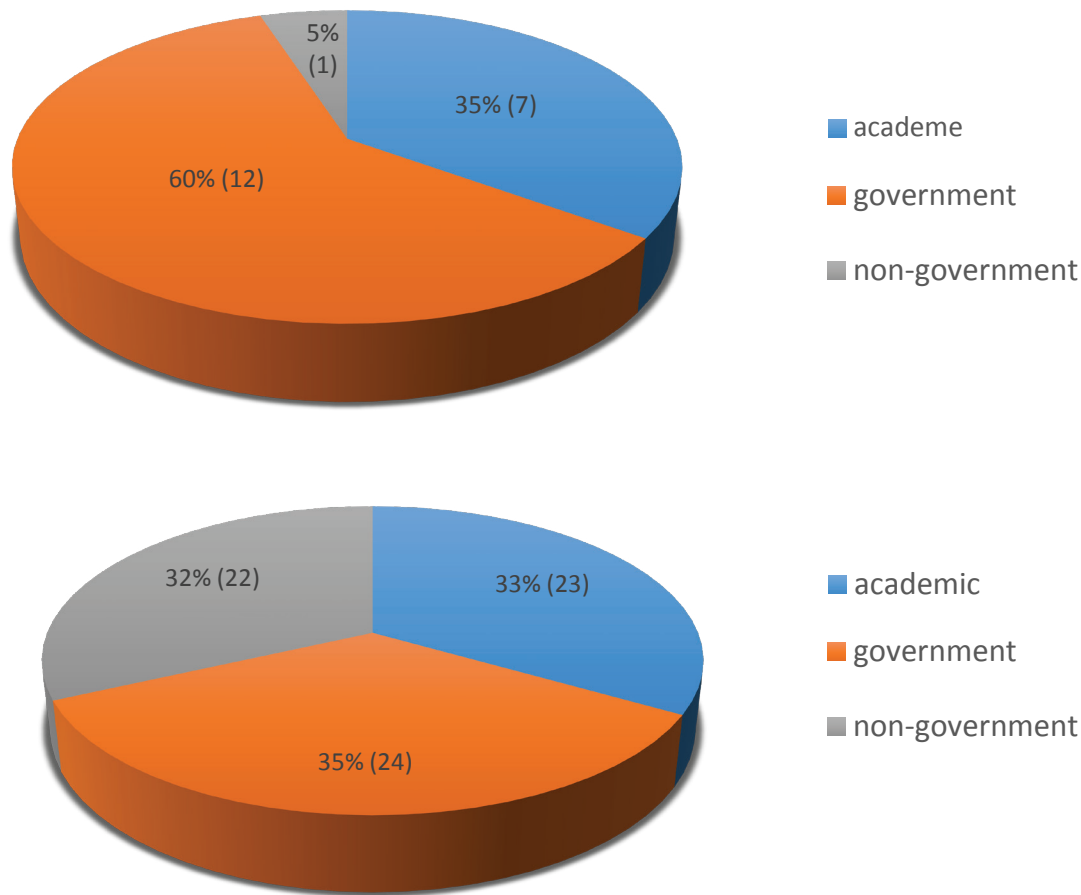
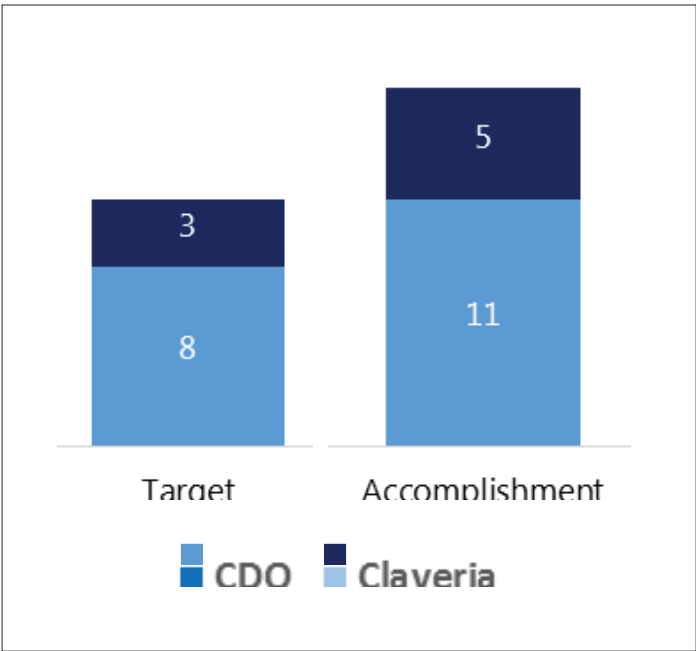


Figure 11. Research Collaborations

Research Outputs in the Last Three Years Utilized by the Industry or by other beneficiaries



The University continues its mission to produce quality research outputs that are relevant to the community, industries and other beneficiaries. In 2018, the University surpassed its target with a 145% accomplishment rate. A total of 16 research outputs were utilized by various industries in the last three years.

Figure 12. Research Outputs in the Last Three Years Utilized by the Industry or by other beneficiaries



## RESEARCH SUMMIT/CONFERENCES

### Excellence Award in Paper Presentation

Ms. Sofia Naelga's paper presentation titled Product Variation, Formulation and Marketability of Fresh Stevia (Rebuadiana Bertoni) Leaf Extract as Organic Sweetener for Bread and Pastry received the Excellence Award at the conference in Yokohama, Japan last October 8 to 9, 2018.

The International Academy of Science, Technology, Engineering and Management is a non-profit private organization dedicated to the promotion of international education and university cooperation in the field of Science and Engineering and Management. IASTEM organizes various scientific seminars, lectures, educational conferences and meetings across the globe which brings together institutions, bodies and organizations from different countries of the world for discussion and cooperation.



### First USTP Innovation Summit



The University of Science and Technology of the Southern Philippines Cagayan de Oro hosted its first Innovation Summit on March 8, 2018 with the theme "Rethinking Success in Innovation." The summit also served as the grand launching of the Technology Business Incubation (TBI). The TBI aims to assist start-ups by providing groups that has innovations with the potential of being commercialized and the opportunity to receive support from organizations and stakeholders such as DOST, PhilDev, and MINDA.

The summit highlighted three major fields: power and energy, food technology, and information communication technology.



There were three parallel sessions with the following topics: 1) Innovation in the Power Industry and Challenges Facing the Energy Sector; 2) Make, Create, Innovate: Building and Strengthening the StartUp Ecosystem in Mindanao, and 3) Innovations on Food Product Development: The Science and Technology Breakthrough.

## 4<sup>th</sup> Mindanao Policy Research Forum



The University of Science and Technology of Southern Philippines Cagayan de Oro (USTP-CDO), together with the Mindanao Development Authority (MINDA) and the Philippine Institute for Development Studies (PIDS), held the 4th Mindanao Policy Research Forum on September 7, 2018 at the USTP Performing Arts Theater.

## Innovation for Inclusive Growth Forum

In collaboration with the USAID and RTI International, round-table discussions transpired in the afternoon of August 16, 2018 as part of the USTP's Second Anniversary forum entitled "Innovation for Inclusive Growth."

Members from different organizations and industries were invited as panelists. The topics discussed are the following:

1. Advancing USTP's Role in the Filipinnovention and Entrepreneurship Program in Food Security
2. USTP's Role in Filipinnovention and Entrepreneurship Program Energy Sufficiency
3. USTP Enhanced Immersion Program



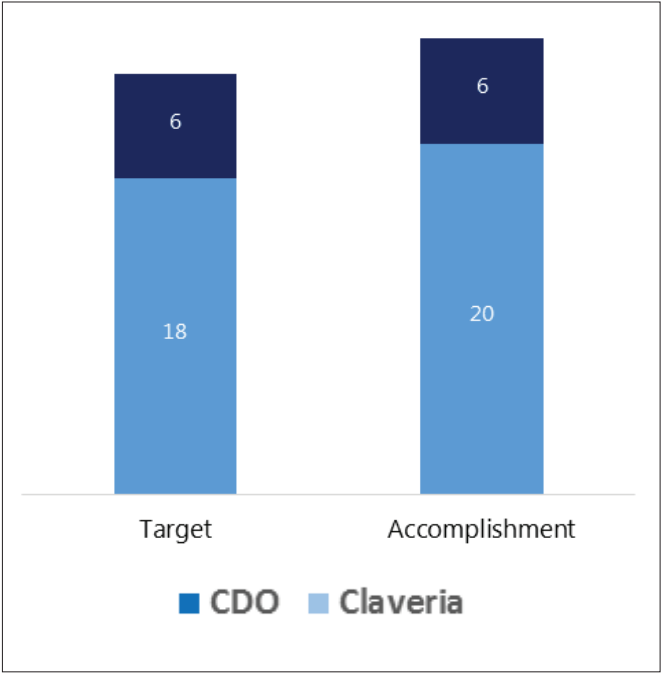
## Innovation Forum and Round Table Discussion



On November 22, 2018, USTP Cagayan de Oro faculty and officials participated in the Innovation Forum & Roundtable Discussion, organized by USTP CDO's Center for Entrepreneurship and Technology and CHED. The aim of the forum was to inspire budding local entrepreneurs to pursue their ambitions by engaging in innovative business opportunities. Invited to speak were business owners, startup founders, and program heads of different national organizations that support enterprises involving technology and innovation.



# EXTENSION SERVICES AND COMMUNITY RELATIONS



The University established a total of twenty-six (26) active partnerships with industries and other stakeholders, which is higher than the target of twenty-four (24).

Figure 13. Active Partnerships with LGUs, Industries, NGOs, NGAs, SMEs and Other Stakeholders as a result of Extension Activities

## Trainings and Extension Programs

- CDO
- Claveria
- Clustered Campuses

The University continually seeks to improve the life of the community through its extension programs and services. In 2018, USTP was able to organize a total of 182 trainings and extension programs.

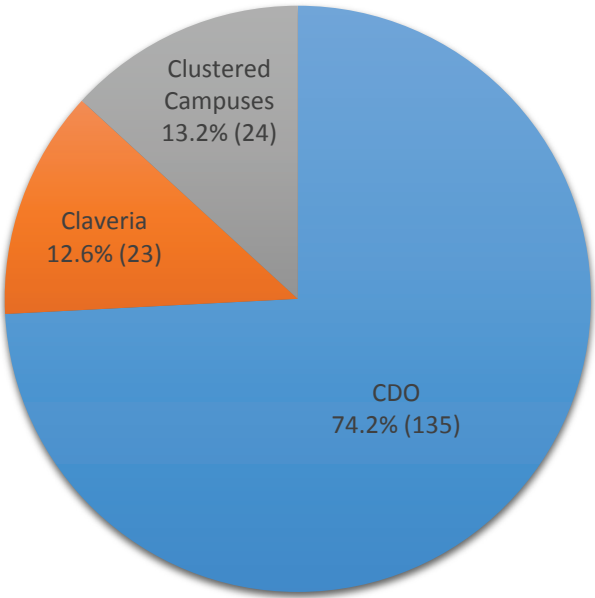
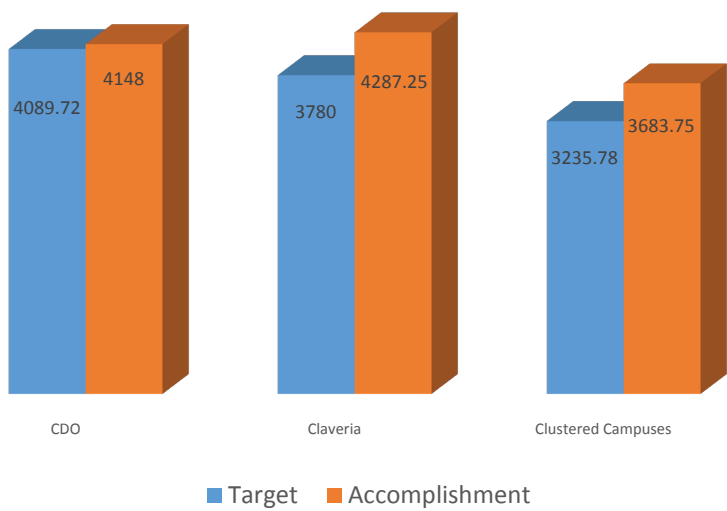


Figure 14. Training and Extension Programs

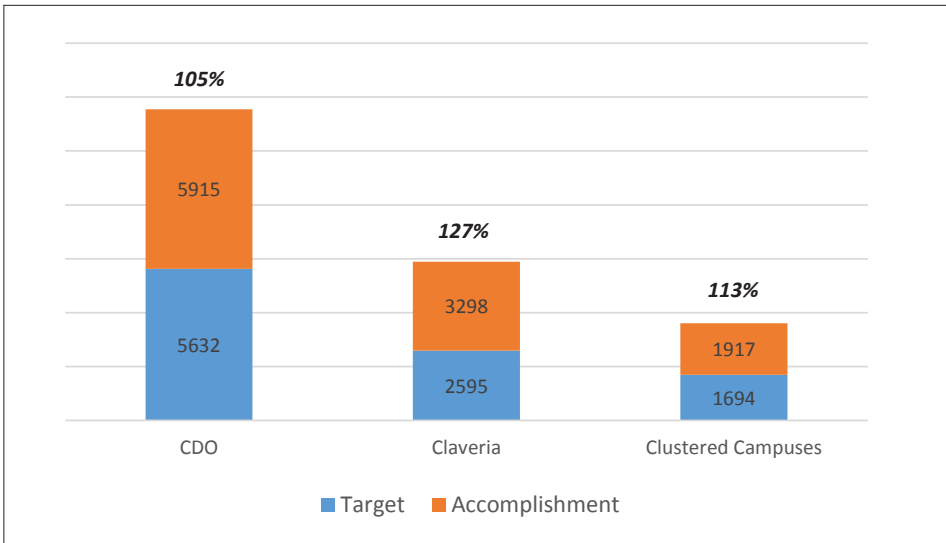
# EXTENSION SERVICES AND COMMUNITY RELATIONS

Figure 15. Trainees Weighted by the Length of Training



The University has a total target of 11,105.50 in the length of extension training. In 2018, USTP marked a 109% accomplishment with 12,119 in the length of extension training.

Figure 16. Beneficiaries who rated the training course/s and advisory services as satisfactory or higher in terms of quality and relevance



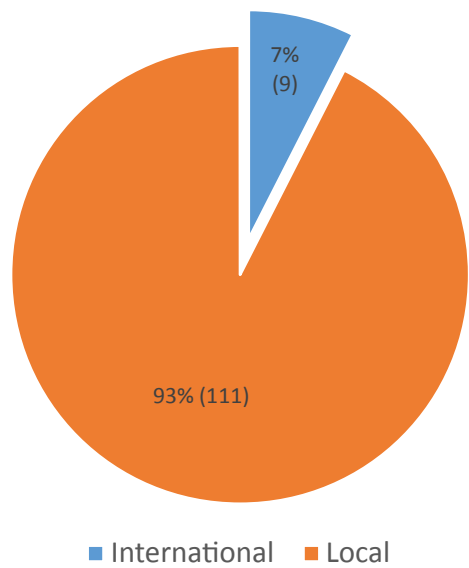
To ensure that the University extension programs are relevant and useful to its beneficiaries, trainees of the programs rate the course or advisory service in terms of quality and relevance. In 2018, each of the campuses earned more than 100% rating on the training course/s and advisory services.

The University has an integrated target of 98.50% beneficiaries who will give ratings satisfactory or higher.



# EXTENSION

Figure 17. International and Local Collaboration



In 2018, the University was able to establish a total of one hundred twenty two (122) partnerships in the local and global arena. International collaborations include Japan, Australia, Israel, Seoul Korea, China, Taiwan, Thailand and California. Of the total partnerships, 58% is with the national government and 16% with the academe.

| Campus   | International | Local |
|----------|---------------|-------|
| CDO      | 6             | 104   |
| Claveria | 3             | 7     |
| Total    | 9             | 111   |

- Academe
- National Governement
- Industry
- Non-Government Organization
- Others

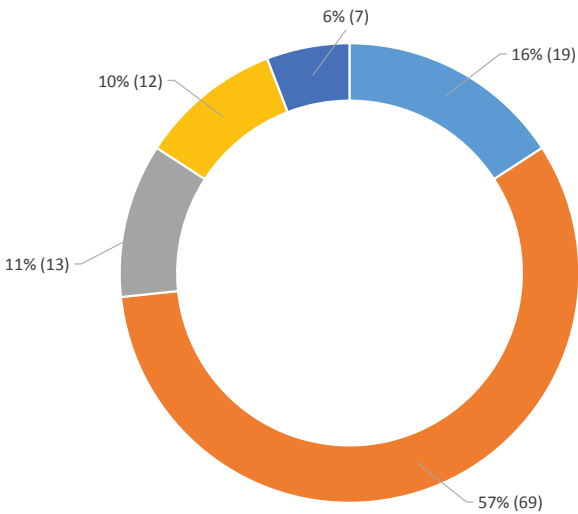


Figure 18. Institutional Partnerships with Industries

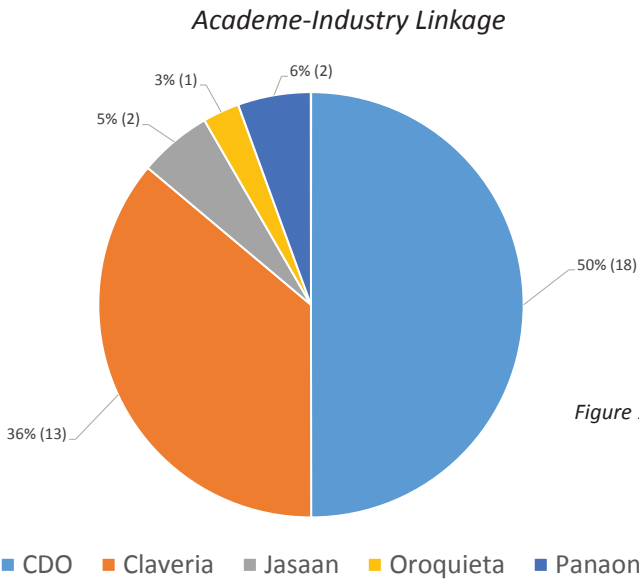


Figure 19. Linkages Forged with Industries

Figure 20. Number of linkages established/maintained (MOA/MOU)

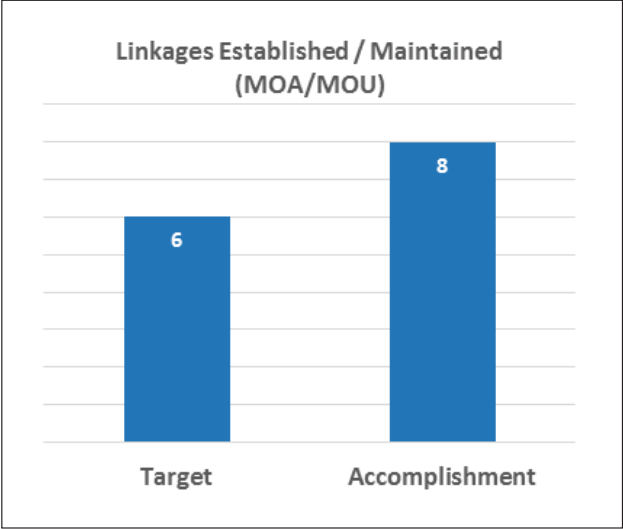


Figure 21. Product Launching/Activity, Number of package of technology



Figure 22. Number of consultation activities conducted involved with faculty

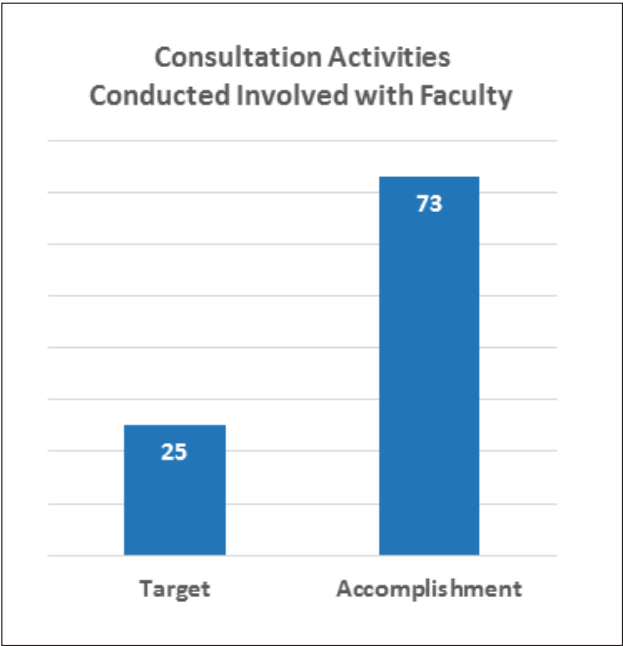
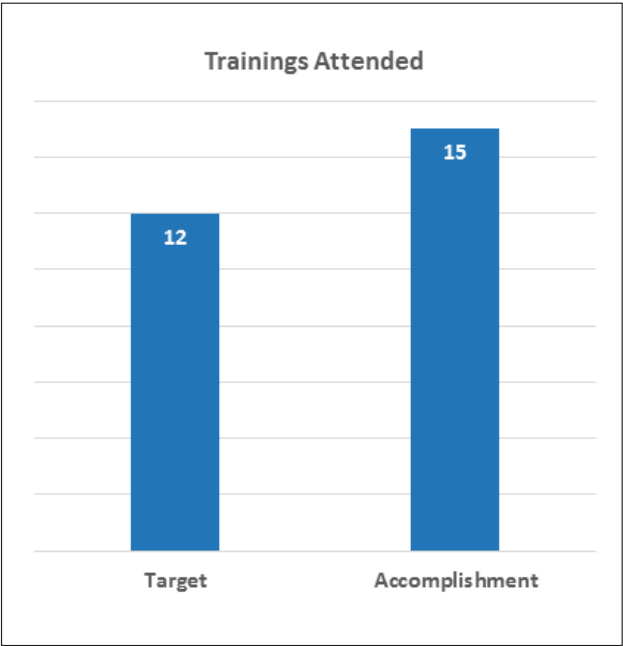


Figure 23. Number of trainings attended





# EXTENSION PROGRAMS AND PROJECTS

## Skills Training For The Army Signal Regiment



The University has extended its services to the Army Signal Regiment, 4th Signal Battalion with a skills training program that runs from August to December 2018. The program is an extension project between the College of Information Technology and Computing and the College of Technology in partnership with the 4th Signal Battalion.

USTP Cagayan de Oro offered the following trainings: Skills Training in Residential Building Wiring, Computer Hardware and Software Installation/Troubleshooting, Network Technology Training, and Electronics Products Assembly and Servicing.



## Skills Training for Banana Ketchup Making in Luna Farmer's Multi-Purpose Cooperative



Ms. Phoebe L. Galeon of the CSM Department conducted a training called "Skills Training for Banana Ketchup Making in Luna Farmer's Multi-Purpose Cooperative" in Luna, Claveria Misamis Oriental, last August 10, 2018. The training had 11 participants, mostly female members of the Agrarian Reform Cooperatives (ARCs).

The ARC is a cooperative composed of farmers who are beneficiaries of the Comprehensive Agrarian Reform Program (CARP) of the Department of Agrarian Reform.

# EXTENSION PROGRAMS AND PROJECTS

## Bigay Liwanag Program 2018



The Bigay Liwanag Program in Dagundalahon, Talakag, Bukidnon is a joint initiative by the Institute of Integrated Electrical Engineers (IIEE)-CDO Chapter, Moresco-1 and USTP-CDO. This project aims to assist those who cannot afford the electrical wiring needs in far flung areas, as well as capacitate the residents to perform basic electrical maintenance. The program in Dagundalahon, Talakag, Bukidnon was conducted last August 4, 2018. Speakers from USTP include: Engr. Rojien V. Morcilla, Engr. Jamali Nagamora and Engr. Orniel Delos Reyes is also part of the USTP team as coordinator and documentor of the program.

## Lifelong Learning for Local Government Officials and Employees

The institutionally-funded research entitled “Lifelong Education Need of Local Government Officials and Employees” was presented to to the Department of the Interior and Local Government (DILG) during their 1st Multi Stakeholder Advisory Committee Quarterly meeting last March 8, 2018. It was agreed during the said meeting that the Local Governance Resource Center will support and facilitate the implementation of a Lifelong Learning Program for Local Government Officials and Employees.





# EXTENSION PROGRAMS AND PROJECTS

## Competency Enhancement Science Training Using 5E and 7E Models (Grade 7 and 8)

In collaboration with the Department of Education, faculty members of the Department of Physics (DP) together with Dr. Marvelisa Carmona of the Department of Biology (DB) conducted a Competency Enhancement Science Training Using 5E and 7E Models (Grade 7 and 8) on May 28 – June 1, 2018 at USTP Cagayan de Oro.

Apart from the enhancement of Physics, Chemistry, Earth Science and Biology lessons of the division science teachers, the training also provided the participants with different learning activities that will enhance the learning experience of students.

## CHED GE Training/Workshop



*Dr. Ramir Philip Jones Sonsona, speaker of Art Appreciation, and participants during the 1st Batch of the CHED GE Training/Workshop on May 16-18, 2018.*



*Participants with speaker on Purposive Communication, Dr. Ramir Philip Jones Sonsona, during the 2nd Batch of the CHED GE Training/ Workshop on June 6-8, 2018.*

## 7th Annual International Conference on Environmental Science

Department of Environmental Science and Technology (DEST) faculty Van Ryan Kristopher R. Galarpe as speaker of the 7th Annual International Conference on Environmental Science held on June 13-15, 2018 at the University of Eastern Philippines, Northern Samar with the theme "Environmental Science, Green technology and Society: Pushing Boundaries toward Sustainability."



## CGMP Kapatid Mentor Me Program (KMME) 2018



Ms. Phoebe L. Galeon as resource speaker at the Current Good Manufacturing Practice (CGMP) Kapatid Mentor Me Program (KMMP) 2018 Awareness Seminar held at DTI-Camiguin, Mambajao Negosyo Center, Mambajao Camiguin, on July 20, 2018.

The KMMP is a national program of the Department of Trade and Industry (DTI) which provides business coaching programs to mature MSMEs in the provinces.

## Integrative Research Summit 2018



DEST faculty Van Ryan Kristopher R. Galarpe participated in the Integrative Research Summit 2018 at Bayview Park Hotel, Roxas Boulevard Manila last August 17-19, 2018 as critique/judge to the paper presenter.



# STUDENT EXTENSION ACTIVITIES

The USTP Claveria College of Engineering and Technology continually shows its active participation in the extension and community programs of the University with activities supporting the Extension Agenda that focuses on the food, environment and water sectors.

The college has conducted a series of activities to its foster barangay to aid the community in alleviating water scarcity.

The Society of Environmental Engineers Student Chapter Inc. (SEESCI) successfully conducted tree planting, watershed and creek cleaning activities at Mainantang, Claveria, Misamis, Oriental. Moreover, additional 100 coffee and 50 cacao seedlings were planted in the watershed area. The tree growing activities became an annual activity of the organization as part of the iHELP program of the college.

Simultaneous conduct of extension activities took place last August 11, 2018 at Sitio, Ban-ban, Ane-I, Claveria, Misamis Oriental. Among the activities conducted include environmental awareness among young ones in the community, focus group discussion among recipients of the past extension activities of the Food Technology program, weight monitoring of pre-school children, environmental resource monitoring and macro invertebrates assessment. Participants include CET students, faculty and staff.



*Dan August Gabucan, a BSEnE 5 student opened to the young ones the importance of protecting the environment and how children like them play an important role in environment protection.*

Aside from the iHELP program, the CET actively participated in the University Extension Program dubbed as “Mauswagong Panginabuhian: Kaplag sa Asensadong Agripreneur sa Amihanang Mindanao.” Representatives from the college participated in the periodic monitoring and evaluation of the participating farmers of the program.

In celebration of the University’s 2nd Founding Anniversary, the CET also participated as exhibitor during the Innovation for Inclusive Growth Forum with the theme “Strengthening the Role of the USTP in Advancing Inclusive Economic Growth” held at Centrio Mall Event Center, Cagayan de Oro City on August 16, 2018.



*Dr Alexander L. Ido led the group of BSEnE 4 students in the macro invertebrates assessment at Mainantang watershed.*



*A well participated focus group discussion of the Food Technology program which targets to evaluate the impact of past extension activities of the community.*



*Transforming concepts into products,  
Making local innovations work*

The Northern Mindanao Updated Regional Development Plan 2011 – 2016 anchored on national programs and projects incorporates science, technology and innovation (STI) whose outcome is toward improved productivity and competitiveness, economic growth and job creation. One of the major accomplishments of the said regional plan is the establishment of the Northern Mindanao Food Innovation Center (FIC) located at the University of Science and Technology of Southern Philippines – Cagayan de Oro (formerly Mindanao University of Science and Technology).

The center serves as technology hub for Innovation, Research and Development, and Support Services for the food industry of Northern Mindanao.

## SERVICES OFFERED

FIC provides technology solutions especially to micro small-medium size enterprises (MSMEs) catering to their needs in the following areas among others:

- Food/Product Research and Development
- Technical Consultancy and Advisory
- Packaging and Labelling
- Testing Laboratory
- Intellectual Property Protection
- Training Programs
- Consultancy

## AVAILABLE EQUIPMENT

### Processing Equipment

- Convection Drying Cabinet/Machine
- Cabinet Steamer
- Cold Extrusion Machine
- Dough Mixer
- Flour Milling Machine
- Stainless Steel Grain Grinding Machine
- Octagonal Mixing Machine
- Spray Dryer
- Vacuum Fryer

### Packaging Equipment

- Continuous Band Sealer
- Desktop Cup Sealing Machine
- Foot Operated Impulse Sealer
- Induction Sealing Machine
- Shrink Packaging Machine
- Vacuum Packaging Machine
- Vertical Granular Form Fill Packaging Machine
- Vertical Form-Fill Seal Machine for Liquid and Paste Products
- Horizontal Flow Wrap Machine
- Can Seamer

## KEY PARTNERS



Department of Science  
and Technology



University of Science and  
Technology – Cagayan de Oro



Department of Trade  
and Industry

Food Processing  
Association of Northern  
Mindanao

2nd Congressional  
District of  
Cagayan de Oro



## 2018 Salient Accomplishments

### Trainings/Seminars

1. Technology Licensing Capacity Building Program (VisMin)
2. Farmer's Conference Meeting
3. Propak Exhibit, Thailand
4. Patent Search and Patent Drafting Writeshop
5. Food Processing Technology Training: Support to the Gender Mainstreaming effort of DOST through Capacity Enhancement of Women-led Enterprises in the Province of Misamis Oriental
6. Women and Livelihoods, Creating Opportunities, Incubating Solutions (Homemade Trail Mix Making)
7. Training Workshop on Food Product Development, Innovation and Marketing for the DOST RDIs, Regional Offices and SUC's Food Technologists.

### NMFIC promotions and Center Visit

1. Women and Livelihoods, Creating Opportunities, Incubating Solutions
2. Facility Visit of DTI Trade and Promotions Group and Phil. Trade Training Center
3. 2nd Regional Micro, Small Medium Enterprise Development Council (RMSMEDC)
4. 1st FOPANORMIN General Membership Meeting
5. USTP Innovation Summit: Rethinking Success in Innovation
6. Regional Shared Service Facility (SSF) Summit



*NMFIC and DTI LDN conducted a training on processing of chilli flavored peanuts in shell for participants from Lanao del Norte*

*FIC participated in the "Pack! Pinas" exhibit*



*Mr. Cary Cempron launched his bottled tubo juice with extended shelf-life, a product developed in NMFIC*



*Hands-on Training on Kalamansi Juice and Kalamansi Concentrate Processing*



## CENTER FOR ENTREPRENEURSHIP & TECHNOLOGY

The Center for Entrepreneurship & Technology is one of the 5 TechHubs in the country recognized by the Commission on Higher Education (CHED).

It is a hub where innovation and entrepreneurship converge and grow, while strengthening the linkage between the industry and the academe.

### 2018 Salient Accomplishments

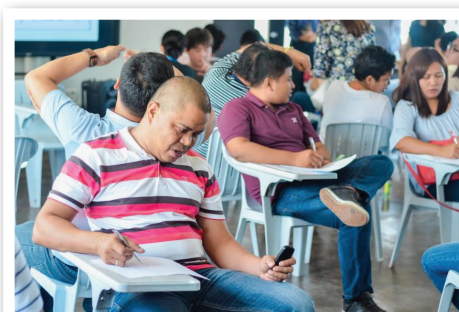
#### In-House Seminar on Technopreneurship

On May 8-9, 2018, the University of Science and Technology of Southern Philippines (USTP) – Cagayan de Oro conducted an In-House Seminar on Technopreneurship at the Learning Research Center. The 2-day Entrepreneurship Bootcamp introduced and presented methods in teaching technopreneurship which can also be applied in teaching other courses/subjects.

The program format permitted individuals to hone and develop their business ideas while providing insights into entrepreneurship.



Ms. Rhea Suzette Haguisan during one of the lectures



Selection of venture ideas - story telling game with facilitator Engr. Adonis A. Closas



Participants of the in-house training seminar on technopreneurship





## POWER INSTITUTE

An institute under USTP partnered with the power sector committed to provide relevant research, innovation and training programs.

The Power Institute is a local academic research & development unit that brings together all interested parties for the purpose of coordinating and combining their actions and expertise to deal with common issues and concern on energy utilization, distribution, efficiency and consumer welfare.

### 2018 Salient Accomplishments

SEMINAR – WORKSHOP on the WHOLESale ELETRICITY SPOT MARKET Basic (WESM 101) for Mindanao Electric Cooperatives.

The Energy Regulatory Commission (ERC), Philippine Electricity Market Corporation (PEMC), National Electrification Administration (NEA), Mindanao Development Authority (MINDA) and National Center of Electric Cooperative Consumers (NCECCO) conducted an Energy Regulatory Commission (ERC) Public Consultation for Mindanao Stakeholders in the matter of application for the approval of the Price Determination Methodology for WESM and a workshop on February 7-28, 2018 at Zamsureco 1, Pagadian City, Zamboanga del Sur, Region IX and on May 3-4, 2018 at Digos City, Davao del Sur



*Speakers and Facilitators Of WESM Workshop*



## CDO BITES

**Business Incubation  
Technology Entrepreneurship  
and Startup**

CDO Bites, as a technology business incubation hub, aims to provide entrepreneurs and startups support in terms of work

space, mentoring and other services.

The main objective is to provide an enabling environment to nurture startup companies and budding entrepreneurs make economic and social contribution to region.

### Graduation and Recognition of the 1<sup>st</sup> batch of CdO BITES Startups

Alongside the Technology and Innovation Summit was the graduation and recognition of the 1st batch of startups. CdO BITES had 12 initial startup groups who availed of the USTP Digital Hub facilities and capacity building activities.

CdO BITES recognized the startups who completed the series of trainings for the pre-incubation period which is the first six months of stay at the incubation hub. Out of the 12 startups, only six were identified as having matured into successful startups based on the startups' clients and income; its capacity to have their own office space; and the ability to pitch themselves into the local and global market:



### 2018 SALIENT ACCOMPLISHMENTS

- Participant: USTP's 1st Technology and Innovation Summit on March 8, 2018
- Co-organizer: 2nd Cagayan de Oro Startup Weekend on July 6-8, 2018
- Organizer: Second graduation of startups on September 29, 2018 with two graduates for Batch 2 - Marco Digital Media and Aberrant Digital Studio

# Dairy Cattle Program



The USTP-Claveria Dairy Project is one of the Student Instructional Units of the campus where students observe, participate and learn in one of the agriculture's fields of specialization – dairy cattle production. The dairy cattle in this project was procured in 2012 through the National Dairy Authority (NDA).

USTP Claveria was given 50 heads of pregnant dairy cows imported from New Zealand by the NDS, classifying the farm as a Multiplier Farm. It is also one of the focus farms of the Philippine – New Zealand Dairy Project (PNZDP) in 2012-2018.

The farm is producing milk daily with its three contractual workers, a watchman and supervised by the farm foreman. On-the-Job trainees of the Short-Term Course students earn their 360 – hour experience in the farm with the guidance of these workers. Daily milk produced are marketed to the federation of dairy cooperatives in northern Mindanao processing plant - Highland Fresh Processing Plant in El Salvador City. The farm also sells pasteurized milk to walk-in buyers in the locality. Further, the cafeteria of the campus is starting to process milk into flavoured milk, fresh milk and others, serving as a new avenue for marketing.

## 2018 Salient Accomplishments

- Produced 28,009 liters of milk sold at an average price of PhP 25.67 earning an income of PhP 718,943.35
- Four (4) heads of male cattle were sold earning an total of PhP 72,070.00
- Trained 108 trainees of the Dairy Farm Assistantship, 23 immersion students from other schools (Pangantucan Bukidnon Community College, Visayas State University, and Doalnara) and more than a hundred undergraduate students doing laboratory and field activities.
- Accommodated 15 graduating students conducting their thesis and dissertations in the dairy farm.
- Total number of stocks as of December 2018 is 74

## KEY PARTNERS



**New Zealand Government**

Te Kāwanatanga o Aotearoa



UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
OF SOUTHERN PHILIPPINES  
Alubijid | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaos

**University of Science and  
Technology of Southern  
Philippines – Claveria**



# **GOVERNANCE, ADMINISTRATION AND FINANCE**



# INFRASTRUCTURE DEVELOPMENT

## USTP Cagayan de Oro

### 3-STOREY TECHNOLOGY BUILDING



Name of Project:

- Construction of Three-Storey Technology Building

Date Started:

- 24<sup>th</sup> October 2017

Location:

- USTP-Cagayan de Oro

Funding Source:

- GAA/General Fund

Actual Accomplishment as of  
December 31, 2018

**81.55%**

## FLOOD PROTECTION SYSTEM

Name of Project:

- Continuation of Flood Protection System

Date Started:

- 28<sup>th</sup> September 2018

Location:

- USTP-Cagayan de Oro

Funding Source:

- GAA/General Fund

Actual Accomplishment as of  
December 31, 2018

**43.37%**



## USTP Claveria

### SOLAR POWERED 5-STOREY CL BUILDING



Name of Project:

- Completion of Solar Powered 5 Storey CL Building  
Phase 2

Date Started:

- 25<sup>th</sup> June 2018

Location:

- USTP-Claveria

Funding Source:

- GAA/General Fund

Actual Accomplishment as of  
December 31, 2018

**8.85%**



## ADMINISTRATION BUILDING



### Name of Project:

- Construction of Administration Building Phase 9

### Date Started:

- 7<sup>th</sup> November 2017

### Location:

- USTP-Claveria

### Funding Source:

- GAA/General Fund

Actual Accomplishment as of  
December 31, 2018

**32.61%**

## CONCRETING OF ROAD NETWORK

### Name of Project:

- Concreting of Road Network

### Date Started:

- 9<sup>th</sup> November 2017

### Location:

- USTP-Claveria

### Funding Source:

- GAA/General Fund

Actual Accomplishment as of  
December 31, 2018

**29.71%**



## UNIVERSITY FOOTBALL FIELD AND OVAL



### Name of Project:

- Concreting of Road Network

### Date Started:

- 18<sup>th</sup> June 2018

### Location:

- USTP-Claveria

### Funding Source:

- GAA/General Fund

Actual Accomplishment as of  
December 31, 2018

**37.00%**



# INFRASTRUCTURE DEVELOPMENT: RENOVATION AND REPAIRS

## USTP Cagayan de Oro

CENTER FOR INSTRUCTIONAL TECHNOLOGY  
AND DATA PROCESSING



ACADEMIC BUILDING



## USTP Claveria



RESEARCH DEVELOPMENT AND EXTENSION  
BUILDING

AGRIVIRONMENTAL LABORATORY BUILDING



POST-HARVEST BUILDING

TILE WORKS FOR ADMINISTRATION OFFICES





# MAJOR POLICIES APPROVED

## **Resolution No. 4, s.2018**

*Approving the revised and new curricular offerings of the USTP to take effect starting first semester of SY 2018- 2019, subject to CHED evaluation and issuance of corresponding Certificate of Program Compliance (COPC)*

## **Resolution No. 6, s.2018**

*Approving the policy and guidelines against sexual harassment, subject for further evaluation after one (1) year of implementation*

## **Resolution No. 10, s. 2018**

*Confirming the approval by the governing board through referendum dated January 23, 2018, on the Memorandum of Agreement (MOA) entered by the University with the Commission on Higher Education (CHED), and the National Commission for Culture and the Arts (NCCA) in a project titled: Indigenous Knowledge System on Plant Utilization by Select Indigenous People and Ethnic Group in Northern Mindanao*

## **Resolution No. 18, s. 2018**

*Approving the forging of a memorandum of agreement (MOA) and memorandum of understanding (MOU) by the University with Rajamangala University of Technology Thanyaburi (RMUTT) of Thanyaburi, Pathum Thani, Thailand re: Faculty/Staff and Students Exchange Programs; and another MOU in Industry-Academe Cooperation and Development of Exchange with the Royal Animal Medical Center (RAMC) and the Royal Animal Referral Center (RAFC) of South Korea*

## **Resolution No. 34, s. 2018**

*Approving the institutional development plan of the USTP*

## **Resolution No. 36, s. 2018**

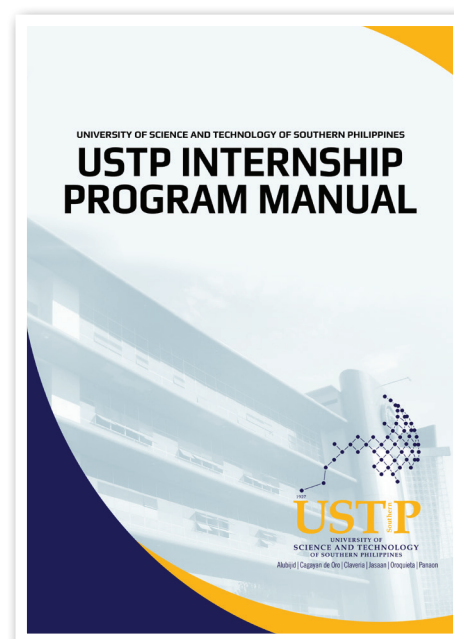
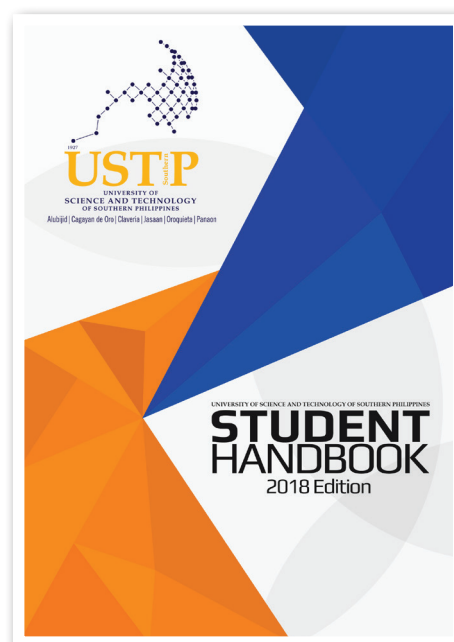
*Approving the ISO documented procedures of the University*

## **Resolution No. 39, s. 2018**

*Approving the Faculty Exchange Program at Southern Taiwan University of Science and Technology (STUST), Tainan City, Taiwan*

## **Resolution No. 40, s. 2018**

*Approving the Faculty Development Program (Masters and PhDs) at Southern Taiwan University of Science and Technology (STUST), Tainan City, Taiwan*



**Resolution No. 53, s. 2018**

*Approving the participation of twenty-five (25) students of USTP Claveria to the Student Internship Abroad Program (SIAP) for school year 2018 – 2019, under the co-operation and training for students in educational project in agriculture with Agrostudies, the International Centre for Agricultural Studies in Israel, Ltd.*

**Resolution No. 55, s. 2018**

*Approving the proposed Mindanao Techno Park Development at the USTP Main Campus in Alubijid, Misamis Oriental for Fiscal Year 2018, with development works amounting to Seventeen Million Eight Hundred Thousand Pesos (Php 17,800,000.00), subject to accounting and auditing rules and regulations and pertinent provisions of RA 9184*

**Resolution No. 60, s. 2018**

*Approving the Affirmative Action Program of the USTP effective upon approval, subject to revision in the admission portion on the implementation of any intervention in case an applicant may fail the examination*

**Resolution No. 61, s. 2018**

*Approving the Faculty Manual of the USTP, subject to evaluation after one (1) year implementation*

**Resolution No. 62, s. 2018**

*Approving the Student Handbook of the USTP, subject to evaluation after one (1) year implementation*

**Resolution No. 74, s. 2018**

*Approving the University Code effective upon approval, subject to evaluation after one (1) year implementation*

**Resolution No. 84, s. 2018**

*Approving the Updated Public Investment Program/Three-Year Rolling Infrastructure Plan (PIP/TRIP) 2020-2022*

**Resolution No. 99, s. 2018**

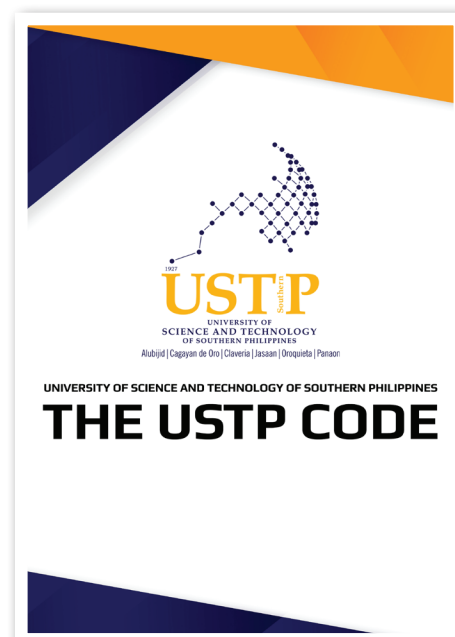
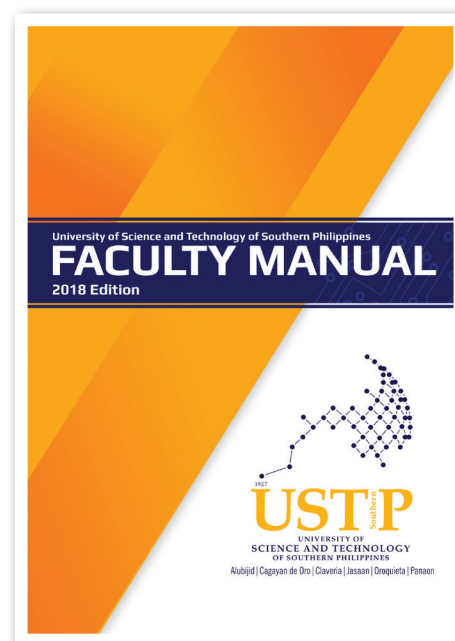
*Approving the Proposed Internship Program Manual of the University, subject to evaluation after one (1) year of implementation*

**Resolution No. 102, s. 2018**

*Approving the Proposed Guidelines for Sabbatical Leave for Faculty Members of the University, subject to evaluation after one (1) year of implementation*

**Resolution No. 112, s. 2018**

*Approving the conceptual development plan of the clustered campuses of the University*





## SOUTH KOREA: MOA Signing with Royal Animal Medical Group and KNOTUS Research Center



### WAY FORWARD

1. Endeavor to upgrade the university facilities and equipment to meet the current trends and demands of the industry
2. Encourage initiatives for deeper involvement of faculty in the academe-industry linkages.
3. Constant communication with partner companies to implement the Memorandum of Agreements.

## THAILAND: MOA Signing with Rajamangala University of Technology Thanyaburi



### WAY FORWARD

1. Redesign extension programs of the university to ensure these are relevant and responsive to the needs of the industry and the community without compromising the environment to ensure sustainable development
2. Encourage initiatives for deeper involvement of faculty in the academe-industry linkages.
3. Regular conduct of monitoring of the performance of faculty scholars
4. Constant communication with partner companies to implement the Memorandum of Agreements.



## TAIWAN: MOA Signing with Southern Taiwan University of Science and Technology

### WAY FORWARD

1. Workout for the possible scholarship of USTP faculty to pursue graduate studies in STUST
2. Arrange for the visit of deans and faculty of USTP for possible immersion in the STUST and Homkom Industries Ltd.
3. Develop mechanism and strategies for student internship/OJT, and possible provision of Dual Certification Program, i.e. 2 to 2 (two years in USTP and two years in STUST). The graduate will earn a technical certification in USTP and a degree from STUST or vice versa.
4. Establish research and development collaboration between faculty researchers of USTP and STUST

### Presidential Leadership Course



On August 29 to 31, 2018, the Institutes for Research, Innovation and Scholarship (IRIS) invited fifteen (15) University Leaders to a two and a half-day Presidential Leadership Course at the Ateneo Professional Schools, Rockwell Center in Makati.

The University Leaders were composed mostly of University Presidents and

Chancellors from state and private higher education institutions in the country, and were joined by members of the diplomatic community, as well as representatives of funding agencies such as the USAID and the British Council. The Presidential Leadership Course aimed to “enable the leadership in Philippine universities to phase in their respective institutions into the Fourth Industrial Revolution.” Through the course, University Leaders could better navigate through opportunities, overcome hurdles, and align their university’s goals with the demands of the digital-genomic age. The course involved multiple modules that tackled a range of topics, including governance, entrepreneurship, research, public engagement, and innovation.

Dr. Ruth G. Cabahug, USTP CDO Chancellor, completed the leadership course.



# FINANCIAL MANAGEMENT

## Statement of Financial Position

The total assets of the University increased by 20.49% over last year's figures.

### Consolidated Statement of Financial Position

| UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES<br>Comparative Consolidated Balance Sheet<br>As of December 31, 2018<br>(with comparative figures for 2017)<br>in P'000 |                         |                         |                       |               |
|--|-------------------------|-------------------------|-----------------------|---------------|
|  | 2018                    | 2017                    | Increase/Decrease     |               |
|  |                         |                         | Amount                | %             |
| TOTAL ASSETS   | 2,191,092,413.01        | 1,818,541,811.81        | 372,550,601.20        | 20.49%        |
| LIABILITIES AND EQUITY   |                         |                         |                       |               |
| Liabilities  | 455,267,694.22          | 366,710,082.58          | 88,557,611.64         | 24.15%        |
| Government Equity  | 1,735,824,718.79        | 1,451,831,729.23        | 283,992,989.56        | 19.56%        |
| <b>TOTAL LIABILITIES AND EQUITY</b>  | <b>2,191,092,413.01</b> | <b>1,818,541,811.81</b> | <b>372,550,601.20</b> | <b>20.49%</b> |

Table 9. Comparative Consolidated Balance Sheet (CY 2017-2018) for USTP Cagayan de Oro, USTP Claveria and Clustered Campuses

### Consolidated Statement of Financial Performance

| Account                                   | 2018                  | 2017                  |
|---|-----------------------|-----------------------|
| <b>Revenue</b>                            |                       |                       |
| Service and Business Income               | 328,715,635.22        | 320,972,258.00        |
| Total Revenue                             | 328,715,635.22        | 320,972,258.00        |
| <b>Less: Current Operating Expenses</b>   |                       |                       |
| Personnel Services                        | 301,789,836.63        | 275,762,173.00        |
| Maintenance and Other Operating Expenses  | 197,332,961.47        | 244,923,269.00        |
| Financial Expenses                        | 58,540.05             | 29,965.00             |
| Direct Costs                              | 4,564,379.89          | 4,314,635.00          |
| Total Non-Cash Expenses                   | 99,043,644.34         | 97,759,404.00         |
| <b>Total Current Operating Expenses</b>   | <b>602,789,362.38</b> | <b>622,789,446.00</b> |
| Surplus/(Deficit) from Current Operations | (274,073,727.16)      | (301,817,188)         |
| <b>Net Financial Assistance/Subsidy</b>   | <b>527,595,232.66</b> | <b>412,644,396</b>    |
| <b>Surplus for the period</b>             | <b>253,521,505.50</b> | <b>110,827,208</b>    |

Table 10. Consolidated Statement of Financial Performance

## National Government Subsidy

In 2018, USTP received total government subsidy of Php 468.4M, broken down as follows:

### A. Breakdown of Appropriations 2018

| Class/Object              | CDO, Jasaan, Oroquieta and Panaon | Claveria              | Total                 | Percentage     |
|---------------------------|-----------------------------------|-----------------------|-----------------------|----------------|
| Personal Services-Regular | 189,762,000.00                    | 52,316,000.00         | 242,078,000.00        | 37.65%         |
| Personal Services-MPBF    | 13,663,000.00                     | -                     | 13,663,000.00         | 2.12%          |
| Personal Services-PGF     | 14,784,209.00                     | 2,799,463.00          | 17,583,672.00         | 2.73%          |
| RLIP                      | 17,533,000.00                     | 4,377,000.00          | 21,910,000.00         | 3.41%          |
| MOOE- Regular             | 52,247,000.00                     | 10,919,000.00         | 63,166,000.00         | 9.82%          |
| MOOE- Tulong Dunong       | 1,392,000.00                      | -                     | 1,392,000.00          | 0.22%          |
| Capital Outlay-Regular    | 179,096,000.00                    | 104,094,000.00        | 283,190,000.00        | 44.04%         |
| <b>TOTAL</b>              | <b>468,477,209.00</b>             | <b>174,505,463.00</b> | <b>642,982,672.00</b> | <b>100.00%</b> |

Table 11. Breakdown of Appropriations 2018

Personal Services (PS) comprised 42.50% of the total subsidy while MOOE comprised 10.04% and Capital Outlay comprised the remaining 44.04%.

PS includes release of Php3.6M for teaching honoraria funded out of MPBF in accordance with the new DBM regulations that appropriations for unfilled positions may be used for teaching honoraria.

### B. Annual Appropriation Trend

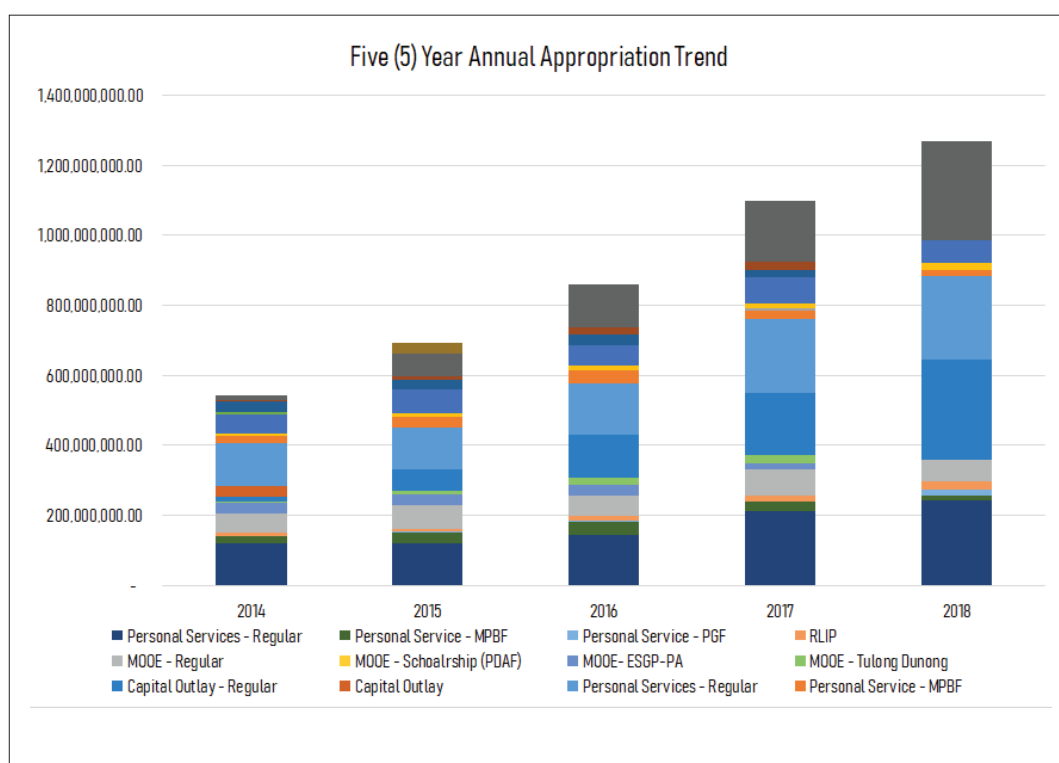


Figure 24. Annual Appropriation Trend



### C. Budget Utilization Rate

| Class               | Allocation            | Obligations Incurred  | Budget Utilization Rate |
|---------------------|-----------------------|-----------------------|-------------------------|
| <b>PS</b>           | <b>295,234,672.00</b> | <b>294,360,574.97</b> | <b>99.70%</b>           |
| USTP Cagayan de Oro | 235,742,209.00        | 235,178,025.75        | 99.76%                  |
| USTP Claveria       | 59,492,463.00         | 59,182,549.22         | 98.84%                  |
| <b>MOOE</b>         | <b>64,558,000.00</b>  | <b>63,905,567.06</b>  | <b>98.99%</b>           |
| USTP Cagayan de Oro | 53,639,000.00         | 53,638,868.63         | 100.00%                 |
| USTP Claveria       | 10,919,000.00         | 10,266,698.43         | 94.03%                  |
| <b>CO</b>           | <b>283,187,000.00</b> | <b>249,748,516.82</b> | <b>88.19%</b>           |
| USTP Cagayan de Oro | 179,093,000.00        | 154,280,876.22        | 86.15%                  |
| USTP Claveria       | 104,094,000.00        | 95,467,640.60         | 91.71%                  |
|                     |                       |                       |                         |
| <b>TOTAL</b>        | <b>642,979,672.00</b> | <b>608,014,658.85</b> | <b>94.56%</b>           |

Table 12. Budget Utilization Rate

### Internally Generated Income

#### A. Five Year Trend

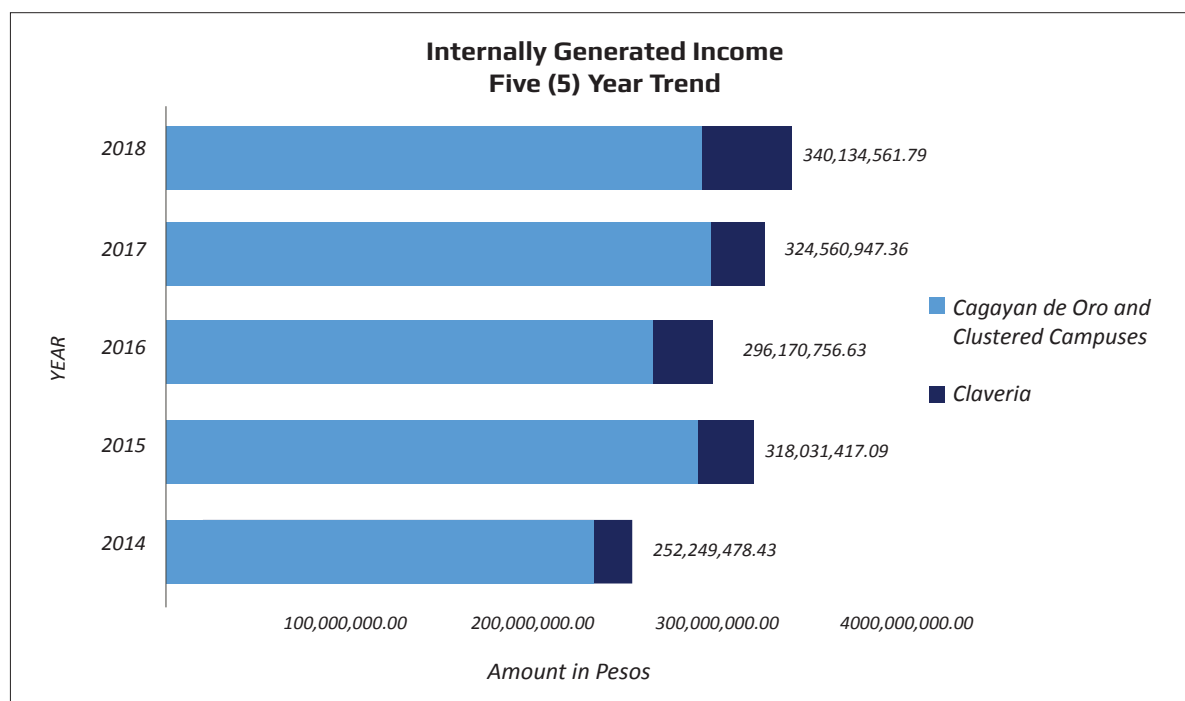


Figure 25. Five Year Trend Internally Generated Income

### B. Utilization of Income

| Allotment Class                 | Amount                |
|---------------------------------|-----------------------|
| <b>PS</b>                       | <b>6,812,591.20</b>   |
| USTP CDO and Clustered Campuses | 6,317,418.08          |
| USTP Claveria                   | 495,173.12            |
| <b>MOOE</b>                     | <b>152,834,802.10</b> |
| USTP CDO and Clustered Campuses | 121,361,465.66        |
| USTP Claveria                   | 1,473,336.44          |
| <b>CO</b>                       | <b>47,211,260.77</b>  |
| USTP CDO and Clustered Campuses | 37,261,391.77         |
| USTP Claveria                   | 9,949,869.00          |
| <b>GRAND TOTAL</b>              | <b>206,858,654.07</b> |

Table 13. Utilization of Income

### C. Strategic Programs/Projects Sourced from Income

| Programs/Projects                                    | Amount                |
|--|-----------------------|
| <b>Institutional Researches</b>                      | <b>6.5 Million</b>    |
| Awards and Incentives for Paper Publication          | 4.125 Million         |
| Support to Paper Presentation                        | 2.1 Million           |
| <b>Awards and Incentives for Paper Presentations</b> | <b>0.5 Million</b>    |
| RER Research Grant for Thesis and Dissertation       | 1.0 Million           |
| Niche Program Development                            | 0.8 Million           |
| <b>Grand Total</b>                                   | <b>15.025 Million</b> |

Table 14. Strategic Programs/Projects Sourced from Income





# MINDANAO TECHNO PARK



# GROUNDBREAKING CEREMONIES



In line with the 2nd Founding Anniversary of the University, ground breaking ceremonies for the Regional Government Center, Provincial Government Center and Project Management Office Building was held in the morning of August 17, 2018 in Barangay Lourdes, Alubijid, Misamis Oriental.

The groundbreaking ceremonies for the 50-Hectare Regional Government Center, 12-Hectare Provincial Government Center and Project Management Office Building was led by OIC University President Rosalito A. Quirino, Ph.D.; Gov. Bambi B. Emano represented by Atty. Jocelyn Lood-Mateo, Misamis Oriental Provincial Administrator; Cong. Maxie B. Rodriguez Jr. ; and RD Leon M. Dacanay Jr. represented by Ms. Leonila G. Cajarte, Policy Formulation and Planning Division Chief, NEDA-X.

USTP officials, personnel and stakeholders along with local officials of Alubijid, Misamis Oriental also graced the event.

Seventeen (17) line government agencies already expressed their intent to relocate. Among them are the National Economic Development Authority (NEDA), Department of Science and Technology (DOST), Department of Health (DOH), Department of Agriculture (DA), Commission on Audit (COA), Commission on Elections (COMELEC), Department of Trade and Industry (DTI), Commission on Higher Education (CHED), Philippine Statistics Authority (PSA), Department of Agrarian Reform (DAR), Department of Foreign Affairs (DFA), Department of Science and Technology (DOST), Civil Service Commission (CSC) and Northern Mindanao Medical Center (NMMC).

The 300-hectare property was donated by the national government to the University through a presidential proclamation.



# 50-Hectare Regional Government Center, 12-Hectare Provincial Government Center and Project Management Office Building

August 17, 2018 8AM  
Venue: Lourdes, Alubijid, Misamis Oriental

National Anthem & Invocation

Sanghimig Chorale

Welcome Message

**Hon. Alvin Giovanni A. Labis**  
*Mayor, Alubijid, Misamis Oriental*

Message of Support

**Engr. Leon M. Dacanay, Jr.**  
*Regional Director, NEDA Region 10*  
*Member, USTP Board of Regents*

**Hon. Maximo “Maxie” B. Rodriguez, Jr.**  
*District Representative*  
*Cagayan de Oro City, 2<sup>nd</sup> District*

**Hon. Yevgeny Vicente “Bambi” B. Emano**  
*Governor, Misamis Oriental*

Message from the OIC President

**Rosalito A. Quirino, Ph.D**  
*OIC President, USTP System*

Groundbreaking Ceremonies:

Groundbreaking Ceremonies for the 50-Hectare Regional Government Center and 12-Hectare Provincial Government Center led by President Rosalito A. Quirino, Gov. Bambi B. Emano, Cong. Maxie B. Rodriguez Jr. and RD Leon M. Dacanay Jr.

Groundbreaking Ceremony for the Project Management Office Building led by President Rosalito A. Quirino, Gov. Bambi Emano, Cong. Maxie B. Rodriguez and RD Leon M. Dacanay Jr.

Luncheon





## **USTP, RDC-X sign Usufruct Agreement on Mindanao Techno Park**

In pursuit of achieving the University's vision and mission, the USTP represented by OIC University President, Dr. Rosalito A. Quirino, and the Regional Development Council of Region X represented by its vice-chairperson, National Economic Development Authority (NEDA-X) Regional Director, Engr. Leon M. Dacanay, Jr., entered into a Usufruct Agreement on August 9, 2018 at the boardroom of USTP Cagayan de Oro in the presence of University officials and heads of different government agencies.

The usufruct agreement is one of the major steps of the University to operationalize its goal in creating an Innovation Ecosystem that includes collaboration of industries and government centers and the creation of Science and Technology Parks for both the Main Campus in Alubijid, Misamis Oriental and the Claveria Campuses in Claveria, Misamis Oriental.

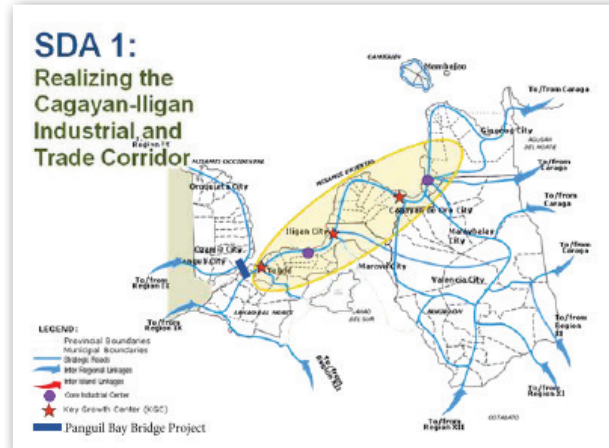
The RDC-X is an integral part of the innovation ecosystem that supports the mission and vision of the USTP, being the primary agency of the government who is tasked to formulate development plans and the agency that ensures the plan implementation achieve the goals of national development.

During the activity, the USTP also shared to the audience the topographical map, physical site development plan and the perspective of the Mindanao Techno Park in Alubijid, Misamis Oriental through an animated video.

The following are the salient terms of the Usufruct Agreement by and between the USTP and RDC-X:

- The term of the usufruct shall be for a period of fifty years (50) years from the signing of the agreement and may be renewed for another fifty years (50) upon agreement by both parties, unless the parties pre-terminate the said agreement.
- The usufruct, subject to the rights and obligations as stated in Title VI of the Civil Code of the Philippines, shall cover an area of fifty hectares (50 ha.)
- The usufruct and/or beneficial use of the property is transferred to the RDC-X while ownership and title of the property remains and continues to be in the name of USTP. Upon the expiration or non-renewal of the contract, improvements introduced on the sites shall accrue to the University.
- The RDC-X with and through the National Economic and Development Authority (NEDA) – X will cause the development and construction of multi-story concrete buildings or a cluster of concrete buildings as a site of Government Centers for the region.
- The Agreement has been approved by the Board of Regents of the University of Science and Technology of Southern Philippines (USTP) via Resolution No. 51, series of 2018 dated August 3, 2018.

# UPDATES ON THE USTP TECHNO PARK

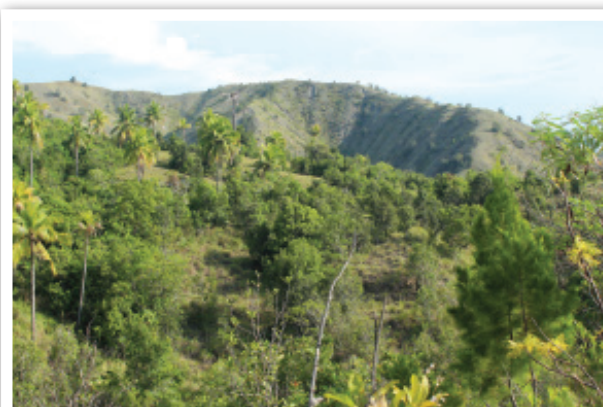


## In coordination with the DOST-X:

- Requested technical assistance from the UN – Economic and Social Commission for Asia and the Pacific (ESCAP)
- Prepared initial Work Plan for Mindanao Techno Park Development

## Ongoing efforts:

- Topographical Survey, Subdivision, and Relocation of Monuments
- Titling of the Alubijid Site
- Identifying registration requirements for operating a Techno Park
- Review of agreements inked with other agencies on possible development works in Alubijid
- Formalizing the creation of the Office of the Strategic Planning Communications for the Development of Mindanao Techno Park (Project Management Office)
- Preparation of Plans and Drawings for Office Building at the site to establish presence and send message of commitment





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## APPENDICES

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## EXECUTIVE COMMITTEE



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*OIC University President, USTP/  
Chancellor USTP Claveria*



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*Chancellor, USTP Cagayan de Oro*



**Atty. Jonathan S. Oche**  
*Vice President For  
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*Vice President For Finance,  
Planning And Development*



**Dr. Maria Elena L. Paulma**  
*Vice President For  
Academic Affairs*



**Dr. Consorcio S. Namoco Jr.**  
*Vice Chancellor for  
Academic and Student Affairs  
(USTP Cagayan de Oro)*



**Prof. Vilma Socorro J. Tandog**  
*Vice Chancellor for Finance and  
Administration  
(USTP Cagayan de Oro)*



**Dr. Ambrosio B. Cultura II**  
*Vice Chancellor for  
Research and Innovation  
(USTP Cagayan de Oro)*



**Dr. Greg M. Cubi**  
*Vice Chancellor for  
Academic Affairs  
(USTP Claveria)*



**Prof. Colbert G. Rabaya**  
*Executive Dean  
(Clustered Campuses)*



**Atty. Dionel O. Albina**  
*Vice Chancellor for  
Administration  
(USTP Claveria)*

## ADMINISTRATIVE COUNCIL

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| Dr. Maria Elena L. Paulma  | Vice President For Academic Affairs                  |
| Atty. Jonathan S. Oche     | Vice President For Administration And Legal Affairs  |
| Mr. Clint Django G. Pacana | Board Secretary - USTP Cagayan de Oro                |
| Ms. Mary Fern Mercado      | Board Secretary - USTP Claveria                      |

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| Prof. Dr. Ambrosio B. Cultura II    | Vice Chancellor for Research and Innovation                                     |
| Prof. Vima Socorro J. Tandog        | Vice Chancellor for Finance and Administration                                  |
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| Dr. Dennis A. Apuan                 | Dean, College of Science and Mathematics  |
| Ms. Jocelyn B. Barbosa              | Dean, College of Information Technology and Computing                           |
| Dr. Ruvel J. Cuasito                | Dean, College of Technology   |
| Engr. Lory Liza D. Bulay-Og         | Dean, College of Engineering and Architecture                                   |
| Dr. Jennifer O. Parcutilo           | Director, Admission and Scholarship / University Coordinator, DOST-Sei Scholars |
| Ms. Gracely H. Hodge                | Director, National Service Training Program                                     |
| Dr. Amparo V. Dinagsao              | Director, Student Affairs   |
| Ms. Remedios B. Janier              | OIC-Director, Library Services  |
| Ms. Rebecca J. Salamanca            | Director, Arts and Culture  |
| Mr. Manuel C. Paster, Jr.           | Director, Sports  |
| Engr. Alex L. Maureal               | Director, Innovation and Technology Solutions                                   |
| Ms. Christy Marie V. Alsado         | Manager, Food Innovation Center   |
| Prof. Romeo M. De Asis              | Manager, Center for Technology Fabrication and Prototyping                      |
| Engr. Christopher S. Dolino         | HEAD, Innovation & Technology Support Office                                    |
| Atty. Dionel O. Albina              | PROGRAM LEADER Externally Funded Projects: LISER, TBI, and TechHub              |
| Engr. Wendell D. Talampas           | PROJECT LEADER, Technology Business Incubation Center (Digital Incubation Hub)  |
| Engr. Diogenes Aramando D. Pascua   | PROJECT LEADER, Low Cost Intelligent STEAM Education Robot (LISER) Project      |
| Prof. Dr. Ambrosio B. Cultura II    | PROJECT LEADER, Technopreneurship Hub (TechHub)                                 |
| Mr. Bronson G. Mabulay              | PROJECT STAFF HEAD, Technopreneurship Hub (TechHub)                             |
| Dr. Francis Thaise A. Cimene        | Director, Research  |
| Dr. Maria Teresa M. Fajardo         | Director, Extension and Community Relations                                     |
| Ms. Lera Fay I. Cotiangco-Dela Rama | Director, Career Center and Industrial Relations                                |
| Ms. Christina V. Maglipong          | Director, Quality Assurance and Accreditation                                   |
| Prof. Dr. Ruel R. Cabahug           | Director, Publication (Mindanao Journal of Science and Technology)              |
| Dr. Tito A. Mariquit                | Director, Human Resource Management   |
| Ms. Maria Consuelo R. Del Castillo  | Director, Auxiliary Services  |



## ADMINISTRATIVE COUNCIL

### USTP CLAVERIA

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| Dr. Nueva D. Salaan          | Dean, College of Arts and Sciences                   |
| Dr. Alexander L. Ido         | Dean, College of Engineering and Technology          |
| Dr. Alma L. Cosadio          | Dean, College of Agriculture                         |
| Dr. Nelda R. Gonzaga         | Director, Research and Extension Office              |
| Mr. Jonathan O. Jacobo       | Director, ICT/MIS                                    |
| Engr. Leo Celeste Tumapon    | Director, General Services Office/Supply Officer     |
| Dr. Charly Alcantara         | Director, Office of Student Affairs                  |
| Dr. Reynante Taylaran        | Director, Business Affairs Office                    |
| Dr. Renato O. Arazo          | Director, Project Development Office                 |
| Mr. Ramil Pagon              | Director, Planning, Monitoring and Evaluation Office |
| Ms. Maria Nydia G. Mayormita | Director, Finance                                    |
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| Ms. Hazel G. Tumapon         | Director, Learning Resource Center                   |
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| Ms. Janelle B. Rojas         | Accountant III                                       |
| Ms. Anasenia R. Soriso       | Cashier III  |
| Ms. Leolyn M. Palma          | Human Resource Management Officer                    |

### CLUSTERED CAMPUSES

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|-----------------------------|------------------------------------|
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| Mr. Floreto B. Quinito, Jr. | OIC/Director, Jasaan Campus        |
| Mr. Celso C. Almirol        | OIC/Director, Panaon Campus        |
| Engr. Ruel S. Salvador      | Director, Oroquieta Campus         |

## ACADEMIC COUNCIL

USTP Cagayan de Oro

Abad, Erich P.

Abella, Francis B.

Aberin, Saturnina P.

Abug, Alma N.

Acal, Penelyn L.

Albina, Dionel O.

Ansibat, Vicenta V.

Apuan, Dennis A.

Ascaño, Cordulo II, P.

Avelino, Ronald T.

Bacabac, Ma. Antonieta A.

Bacarrisas, Prosibeth G.

Barbosa, Jocelyn B.

Bebelone, Mario C.

Cabahug, Ruel R.

Cabahug, Ruth G.

Cagaan, Rhegie M.

Cagampang, Juliet P.

Canencia, Oliva P.

Castillano, Elmer C.

Castro, Hazel G.

Chua, Jocelyn A.

Closas, Adonis A.

Comaling, Venerando C.

Cuasito, Ruvel J.

Cultura, Ambrosio II, B.

De Asis, Romeo M.

Dinagsao, Amparo V.

Dumpa, Ferdinand A.

Eder, Marylene S.

Enguito, Ronela C.

Esclamado, Maricel A.

Estampa, Lloyd Jhon B.

Assistant Professor I

Associate Professor III

Professor IV

Associate Professor IV

Assistant Professor I

Professor III

Associate Professor II

Assistant Professor III

Associate Professor III

Assistant Professor III

Assistant Professor II

Assistant Professor IV

Assistant Professor IV

Associate Professor III

Professor VI

Professor V

Associate Professor I

Associate Professor III

College Professor

Associate Professor III

Assistant Professor IV

Assistant Professor II

Associate Professor IV

Assistant Professor III

Associate Professor I

Professor VI

Professor III

Associate Professor III

Assistant Professor III

Assistant Professor I

Associate Professor I

Assistant Professor II

Assistant Professor III



## ACADEMIC COUNCIL

|                             |                         |
|-----------------------------|-------------------------|
| Fajardo, Maria Teresa M.    | Associate Professor V   |
| Galeon, Phoebe L.           | Assistant Professor I   |
| Gonzales, Merlyn G.         | Assistant Professor I   |
| Hinosolango, Ma. Angeles D. | Associate Professor I   |
| Hodge, Gracely B.           | Assistant Professor II  |
| Lamberte, Joseph Cloyd L.   | Associate Professor I   |
| Landicho, Junar A.          | Assistant Professor I   |
| Leopoldo, Girlie D.         | Assistant Professor IV  |
| Libed, Glenda D.            | Assistant Professor I   |
| Lomibao, Laila S.           | Assistant Professor I   |
| Lupoy, Agustin G.           | Assistant Professor IV  |
| Luzano, Warren L.           | Associate Professor I   |
| Maglipong, Christina v.     | Professor II            |
| Maureal, Alex L.            | Assistant Professor I   |
| Monsanto, Angelie P.        | Assistant Professor III |
| Morcilla, Rojien V.         | Assistant Professor III |
| Naces, Giovanni N.          | Assistant Professor II  |
| Naces, Romeo N.             | Associate Professor IV  |
| Naelga, Arnelo D.           | Associate Professor II  |
| Naelga, Sofia C.            | Associate Professor V   |
| Namoco, Consorcio, Jr. S.   | Professor VI            |
| Namoco, Rhoda A.            | Professor V             |
| Neri, Anecito Johny Jr., C. | Assistant Professor I   |
| Nunag, Benjamin Jr., L.     | Assistant Professor I   |
| Oche, Jonathan S.           | Associate Professor V   |
| Ong, Charito G.             | Professor II            |
| Pabilona, Leonel L.         | Associate Professor IV  |
| Padayhag, Joselito B.       | Associate Professor II  |
| Pallugna, Reuel C.          | Assistant Professor I   |
| Pangan, Maria Cecilia L.    | Assistant Professor II  |
| Patlunag, Gloria R.         | Associate Professor III |
| Paulma, Maria Elena L.      | Assistant Professor III |
| Perez, Jonathan H.          | Assistant Professor III |
| Pimentel, Romano A.         | Assistant Professor II  |

ACADEMIC COUNCIL

|                                |                         |
|--------------------------------|-------------------------|
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| Rabaya, Colbert G.             | Professor II            |
| Raboy, Love Jhoye M.           | Assistant Professor II  |
| Relox, Richel Enclonar         | Assistant Professor II  |
| Reyes, Herbert Glenn P.        | Associate Professor V   |
| Rojo, Jay Noel N.              | Assistant Professor II  |
| Salamanca, Rebecca J.          | Associate Professor II  |
| Salingay, Maria Luisa B.       | Associate Professor II  |
| Salvaña, Camilo Jose, II S.    | Associate Professor I   |
| San Diego, Alenogines L.       | Associate Professor IV  |
| Saquilayan, Felix V.           | Assistant Professor III |
| Sermona, Nivea Louwah D.       | Assistant Professor III |
| Solidum, Ruelson S.            | Associate Professor V   |
| Sonsona, Ramir Philip Jones V. | Associate Professor III |
| Soriano, Ernest Martin DO.     | Assistant Professor II  |
| Suarez, Virginia D.            | Associate Professor V   |
| Sy, Maristela B.               | Associate Professor II  |
| Talili, Ismael N.              | Assistant Professor II  |
| Tandog, Vima Socorro J.        | Professor III           |
| Tarepe, Dennis A.              | Professor IV            |
| Telen, Mary Ann E.             | Assistant Professor IV  |
| Torrecampo, Dioscora M.        | Assistant Professor II  |
| Tulang, Rogel O.               | Assistant Professor I   |
| Visande, Josephine C.          | Assistant Professor III |
| Zacal, Vilma P.                | Assistant Professor IV  |



## ACADEMIC COUNCIL

### USTP Claveria

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| Dr. Alma L. Cosadio            | Associate Professor I   |
| Dr. Richmund A. Palma          | Assistant Professor I   |
| Dr. Renato O. Arazo            | Assistant Professor IV  |
| Dr. Apolinario B. Gonzaga, Jr. | Assistant Professor I   |
| Dr. Nelda R. Gonzaga           | Assistant Professor I   |
| Dr. Angelina G. Corneta        | Assistant Professor IV  |
| Prof. Elvira T. Salatan        | Associate Professor I   |
| Prof. Leonida S. De Asis       | Professor II            |
| Engr. Grace Vergie P. Nillama  | Assistant Professor I   |
| Dr. Maribel S. Tizo            | Assistant Professor III |
| Prof. Serina R. Jumuad         | Assistant Professor III |
| Prof. Luciano G. Laput         | Assistant Professor II  |
| Prof. Dennis T. Yamuta         | Associate Professor IV  |
| Dr. Nueva D. Salaan            | Associate Professor II  |
| Dr. Imelda U. Hebron           | Associate Professor V   |
| Prof. Chona M. Pestillos       | Professor VI            |
| Prof. Helena A. Akut           | Professor V             |
| Prof. Chona Q. Allego          | Assistant Professor I   |
| Dr. Eric Randy R. Politud      | Assistant Professor I   |
| Prof. Letecia O. Baylon        | Associate Professor V   |
| Prof. Casimiro L. Icalina      | Professor II            |
| Prof. Elenita P. Salinas       | Associate Professor IV  |
| Dr. Ronelo G. Cablinda         | Associate Professor II  |
| Dr. Renante D. Taylaran        | Assistant Professor I   |
| Prof. Ma. Liza D. Manlquez     | Assistant Professor II  |
| Prof. Lindylou M. Yamuta       | Associate Professor III |
| Prof. Argin A. Gulanes         | Assistant Professor III |
| Dr. Alexander L. Ido           | Assistant Professor III |
| Prof. Kharen C. Cimagala       | Assistant Professor II  |
| Prof. Estrella L. Paguidopon   | Assistant Professor IV  |
| Dr. Dennis A. Mugot            | Professor II            |
| Prof. Isabelita C. Bodbod      | Assistant Professor II  |
| Dr. Greg M. Cubio              | Assistant Professor II  |
| Mr. Eddie S. Corpuz            | Associate Professor V   |
| Mr. Medardo G. Cosadio         | Assistant Professor II  |
| Dr. Valentina A. Pallo         | Associate Professor II  |

ACADEMIC COUNCIL

USTP Jasaan

|                         |                                  |
|-------------------------|----------------------------------|
| Quinito, Jr. Floreto B. | Assistant Professor I (Jasaan)   |
| Oraiz, Ferdinand M.     | Associate Professor II (Jasaan)  |
| Raiz, Cerilo R.         | Assistant Professor IV (Jasaan)  |
| Dumat-ol, Similo C.     | Assistant Professor III (Jasaan) |
| Cabello, Rosalinda R.   | Assistant Professor II (Jasaan)  |
| Mandawe, Maricel C.     | Assistant Professor I (Jasaan)   |
| Dotarot, Valentina A.   | Assistant Professor (Jasaan)     |

USTP Oroquieta

|                          |                                     |
|--------------------------|-------------------------------------|
| Salvador, Ruel S.        | Associate Professor II (Oroquieta)  |
| Clarín, Glorimer M.      | Associate Professor III (Oroquieta) |
| Maghanoy, Sulpicio S.    | Assistant Professor II (Oroquieta)  |
| Rabillas, Jocelyn H.     | Assistant Professor I (Oroquieta)   |
| Badiang, Corazon H.      | Assistant Professor I (Oroquieta)   |
| Doncillo, Ma. Liberty B. | Assistant Professor I (Oroquieta)   |

USTP Panaon

|                         |                                  |
|-------------------------|----------------------------------|
| Almirol, Celso C.       | Director/Instructor I (Panaon)   |
| Regalado, Concepcion C. | Associate Professor III (Panaon) |
| Lasagas, Annielyn P.    | Assistant Professor III (Panaon) |
| Añasco, Leny Q.         | Assistant Professor IV (Panaon)  |
| Calvis, Liza H.         | Assistant Professor II (Panaon)  |
| Lapinig, Jethra M.      | Assistant Professor I (Panaon)   |

# ACADEMIC PROGRAMS

*USTP Cagayan de Oro*

## ADVANCED EDUCATION PROGRAM

Doctor in Technology Education  
 Doctor in Public Administration  
 Ph.D. in Science Education, Major in Chemistry  
 Ph.D. in Educational Planning and Management  
 Ph.D. in Mathematical Sciences, Major in Mathematics Education  
 Master of Science in Technology Communication Management  
 Master in Information Technology  
 Masters of Engineering Program – Civil Engineering  
 Masters of Engineering Program – Mechanical Engineering  
 Masters of Engineering Program – Electrical Engineering  
 Master of Science in Electrical Engineering  
 Master of Science in Sustainable Development, Major in Urban Planning and Sustainable Development  
 Professional Science Masters in Power Systems Engineering and Management  
 Master of Arts in Teaching English as a Second Language  
 Master of Arts in Teaching Special Education  
 MS in Teaching Physical Sciences, Major in Physics  
 MS in Science Education, Major in Chemistry  
 MS in Teaching Mathematics  
 Master in Education Planning and Management  
 Master in Public Administration  
 Master in Technician Teacher Education  
 MS / Ph.D. in Science Education - Chemistry Straight Program  
 MS in Applied Mathematical Sciences  
 MS in Environmental Science and Technology – Major in Natural Science  
 Ph.D. in Mathematical Sciences (*Applied Mathematics*)

## HIGHER EDUCATION PROGRAM

Bachelor of Science in Information Technology  
 Bachelor of Science in Computer Engineering  
 Bachelor of Science in Technology Communication Management  
 Bachelor of Science in Data Science (*new program*)  
 Bachelor of Science in Civil Engineering  
 Bachelor of Science in Electronics Engineering  
 Bachelor of Science in Electrical Engineering  
 Bachelor of Science in Mechanical Engineering  
 Bachelor of Science in Architecture  
 Bachelor of Science in Science Education  
 Bachelor of Science in Mathematics Education  
 Bachelor of Technology and Livelihood Education  
 Bachelor of Science in Applied Mathematics  
 Bachelor of Science in Chemistry  
 Bachelor of Science in Food Technology  
 Bachelor of Science in Applied Physics



Bachelor of Science in Environmental Science  
Bachelor of Science in Autotronics (*new program*)  
Bachelor of Science in Energy Systems and Management (*new program*)  
Bachelor of Science in Electro-Mechanical Technology  
Bachelor of Science in Electronics Technology (*new program*)  
Bachelor of Science in Manufacturing Engineering Technology (*new program*)

### POST BACCALAUREATE

Certificate of Teaching  
Diploma in Special Education  
Diploma in Autotronics (*new program*)  
Diploma in Electrical Machines Control and Maintenance (*new program*)  
Diploma in Power System Distribution with Eco-design (*new program*)  
Diploma in Mechatronics and Robotics (*new program*)  
Diploma in Electronics System (*new program*)  
Diploma in Multimedia System Technology (*new program*)  
Diploma in Telecommunications and Networks (*new program*)  
Diploma in Mechanical Design and Fabrication (*new program*)

### SENIOR HIGH SCHOOL

#### TRACKS

- Science, Technology, Engineering and Math (STEM)
- TVL-ICT
- TVL-Baking and Pastry
- TVL-Electrical
- TVL-Automotive

# ACADEMIC PROGRAMS

*USTP Claveria*

## Graduate Programs

Ph.D. in Animal Science  
 Ph.D. in Crop Science  
 MS in Agriculture Major in Crop Science and Animal Science

## Baccalaureate Programs

Bachelor of Science in Environmental Engineering  
 Bachelor in Food Technology  
 Bachelor of Science in Agriculture - Ladderized course Major in Crop Science, Entrepreneurship, Animal Science, Dairy Science, and Agricultural Education  
 Bachelor of Science in Agroforestry  
 Bachelor in Agricultural Technology  
 Bachelor of Technology in Horticulture Management (B.T.H.M.)

## Non-Degree Programs

Diploma in Agricultural Technology (*Three-year ladderized course leading to B.A.T.*)  
 Certificate of Agriculture Science leading to B.S.A.  
 Dairy Herd Managerial Course (1 year )  
 Dairy Farm Technology Course (2 years )

## Short Term Courses

Dairy Farm Assistantship  
 Short Term Course on Agricultural Crop Production NC II  
 Short Term Course on Animal Production NC II  
 Short Term Course on Horticulture NC II

## Senior High School Tracks

Technical Vocational-Livelihood (TVL)  
 Science, Technology, Engineering and Math (STEM)

## ACADEMIC PROGRAMS

### *Clustered Campuses*

#### **Panaon Campus**

BS in Aquatic Resource Management and Technology  
BS in Marine Biology  
Bachelor of Secondary Education, Major in Technology and Livelihood Education  
Diploma in Information Technology

#### **Oroquieta Campus**

Bachelor of Science in Information Technology  
Bachelor of Secondary Education, Major in Technology and Livelihood Education  
Diploma in Information Technology

#### **Jasaan Campus**

BS Auto-Mechanical Technology  
BS Electrical Technology and Management  
BS Information Technology

#### **Senior High School (Jasaan Campus)**

- Technical Vocational and Livelihood Education (TVLE) Track
  1. ICT Strand
    - Computer Programming
  2. Industrial Arts Strand
    - Automotive Servicing (NC II)
    - Electrical Installation and Maintenance (NC II)
    - Shielded Metal Arc Welding (NC II)



## ACCREDITATION

### *Programs accredited at level 1,2,3 and 4*

#### *USTP Cagayan de Oro*

| Program Name  | Accreditation Level | Validity                                |
|---|---------------------|---|
| <b>UNDERGRADUATE PROGRAMS</b>   |                     |   |
| BS in Chemistry   | Level 2             | October 1, 2015 - September 30, 2019    |
| BS in Applied Mathematics   | Level 3, Phase 2    | September 1, 2017 - August 31, 2021     |
| BS in Applied Physical Sciences   | Level 3, Phase 2    | September 1, 2017 - August 31, 2021     |
| BS in Food Science and Technology   | Level 4, Phase 1    | November 2018 - October 2019            |
| BS in Environmental Science and Technology                                    | Level 2             | October 1, 2015 - September 30, 2019    |
| BS in Technology Communication Management                                     | Level 2             | December 1, 2016 - November 30, 2020    |
| BS in Information Technology  | Level 4, Phase 1    | November 2018 - October 2019            |
| BS in Computer Engineering  | Level 3, Phase 2    | November 1, 2016 - October 31, 2020     |
| BS in Electronics and Communications Technology                               | Level 4, Phase 1    | August 1, 2017 - July 31, 2018          |
| BS in Electrical Technology and Management                                    | Level 4, Phase 1    | August 1, 2017 - July 31, 2018          |
| BS in Electro-Mechanical Technology   | Level 2             | October 1, 2015 - September 30, 2019    |
| BS in Auto-Mechanical Technology  | Level 4, Phase 1    | August 1, 2017 - July 31, 2018          |
| BS in Architecture  | Level 2             | October 1, 2015 - September 30, 2019    |
| BS in Civil Engineering   | Level 3, Phase 2    | November 1, 2016 - October 31, 2020     |
| BS in Electrical Engineering  | Level 4, Phase 1    | November 2018 - October 2019            |
| BS in Mechanical Engineering  | Level 4, Phase 1    | November 2018 - October 2019            |
| BS in Electronics Engineering   | Level 4, Phase 1    | November 2018 - October 2019            |
| Bachelor of Technical Teacher Education                                       | Level 4, Phase 2    | January 1, 2018 - December 31, 2021     |
| Bachelor of Elementary Education major in Special Education                   | Level 2             | December 1, 2016 - November 30, 2020    |
| Bachelor of Elementary Education major in Technology and Livelihood Education | Level 1             | September 16, 2016 - September 15, 2019 |

## APPENDIX 5

| Program Name   | Accreditation Level | Validity                             |
|--|---------------------|--------------------------------------|
| Bachelor in Secondary Education major in Physical Sciences | Level 2             | December 1, 2016 - November 30, 2020 |
| Bachelor in Secondary Education major in Mathematics       | Level 2             | December 1, 2016 - November 30, 2020 |
| <b>GRADUATE PROGRAMS</b>                                   |                     |                                      |
| PhD in Mathematical Science major in Mathematics Education | Level 3, Phase 1    | November 2018 - October 2019         |
| PhD in Science Education major in Chemistry                | Level 2             | Dec. 1, 2016 - November 30, 2020     |
| MS-PhD in Science Education Chemistry                      | Candidate           | Sept. 16, 2016 - Sept. 15, 2018      |
| MS in Science Education major in Chemistry                 | Level 2             | Dec. 1, 2016 - November 30, 2020     |
| MS in Environmental Science and Technology                 | Level 2             | Dec. 1, 2016 - November 30, 2020     |
| MS in Technology Communication Management                  | Level 1             | July 16, 2014 - July 15, 2017        |
| MS in Applied Mathematical Sciences                        | Level 3, Phase 2    | Sept. 1, 2017 - August 31, 2021      |
| MS in Teaching Mathematics                                 | Level 3, Phase 2    | Nov. 1, 2016 - October 31, 2020      |
| MS in Teaching Physical Sciences - Physics                 | Level 2             | Oct. 1, 2015 - Sept. 30, 2019        |
| PhD in Educational Planning and Management                 | Level 3, Phase 2    | Nov. 1, 2016 - October 31, 2020      |
| Doctor of Technology Education                             | Level 3, Phase 1    | Oct. 1, 2017 - Sept. 30, 2018        |
| Master in Educational Planning and Management              | Level 3, Phase 2    | Nov. 1, 2016 - October 31, 2020      |
| Master in Arts in Teaching Special Education               | Level 1             | Oct. 1, 2017 - September 30, 2020    |
| Master in Technician Teacher Education                     | Level 3, Phase 2    | Nov. 1, 2016 - October 31, 2020      |
| Master of Arts in Teaching English as Second Language      | Level 1             | Sept. 16, 2016 - Sept. 15, 2019      |
| Master in Public Administration                            | Level 1             | Oct. 1, 2017 - Sept. 30, 2020        |
| Master in Information Technology                           | Level 1             | Sept. 16, 2016 - Sept. 15, 2019      |
| Master in Engineering Program                              | Level 2             | Dec. 1, 2016 - November 30, 2020     |
| Master in Engineering Program                              | Level 2             | Dec. 1, 2016 - November 30, 2020     |

**USTP Claveria**

| Program Name                                      | Accreditation Level                            | Validity                                |
|---|--|---|
| <b>UNDERGRADUATE PROGRAMS</b>                     |  |   |
| Bachelor of Science in Agriculture                | Level 3, Phase 1                               | November 2018 - October 2019            |
| Bachelor in Agricultural Technology               | Level 3<br>Re-accredited                       | August 2016 –<br>July 2020              |
| Bachelor of Science in Agroforestry               | Level 3, Phase 1                               | November 2018 -<br>October 2019         |
| Bachelor of Technology in Horticulture Management | Level 3, Phase 1                               | November 2018 -<br>October 2019         |
| Bachelor of Science in Environmental Engineering  | Level 3, Phase 1                               | November 2018 -<br>October 2019         |
| Bachelor of Food Technology                       | Level 3, Phase 1                               | September 1, 2018 -<br>August 31, 2019  |
| <b>GRADUATE PROGRAMS</b>                          |  |   |
| MS Agriculture                                    | Level 2, Re-accredited                         | October 1, 2017 –<br>September 30, 2021 |
| Doctor of Philosophy in Animal Science            | Candidate<br>(No graduates yet in the program) |   |
| Doctor of Philosophy in Crop Science              | Level 1  | September 1, 2018 -<br>August 31, 2021  |

**USTP Jasaan**

| Program Name  | Accreditation Level    | Validity                                   |
|---|------------------------|--|
| Bachelor of Science in Information Technology           | Level 1, Re-accredited | September 16, 2016 -<br>September 15, 2019 |
| Bachelor of Science in Electrical Technology Management | Level 1, Re-accredited | September 16, 2016 -<br>September 15, 2019 |

**USTP Panaon**

| Program Name                          | Accreditation Level    | Validity                                   |
|---------------------------------------|------------------------|--|
| Bachelor of Science in Marine Biology | Level 1, Re-accredited | September 16, 2016 -<br>September 15, 2019 |



## ENROLLMENT 2018

**SY 2018-2019:** Total number of enrollees (Post Graduates and Undergraduates)

| Program   | SY 2018-2019 |              |             |
|---|--------------|--------------|-------------|
|   | 1st Semester | 2nd Semester | Summer 2018 |
| <b>UNDERGRADUATE PROGRAM</b>  |              |              |             |
| <b><i>Cagayan de Oro</i></b>  |              |              |             |
| Bachelor of Science in Architecture   | 324          | 330          | 25          |
| Bachelor of Science in Civil Engineering  | 650          | 620          | 297         |
| Bachelor of Science in Computer Engineering   | 371          | 341          | 145         |
| Bachelor of Science in Electrical Engineering ( <i>Center of Development</i> )                | 237          | 233          | 115         |
| Bachelor of Science in Electronics Engineering  | 207          | 195          | 140         |
| Bachelor of Science in Mechanical Engineering   | 248          | 235          | 108         |
| Bachelor of Science in Applied Mathematics ( <i>Center of Development</i> )                   | 103          | 94           | 6           |
| Bachelor of Science in Applied Physical Sciences  | 29           | 28           | 23          |
| Bachelor of Science in Chemistry  | 86           | 82           | 19          |
| Bachelor of Science in Environmental Science and Technology                                   | 101          | 99           | 94          |
| Bachelor of Science in Food Science and Technology  | 128          | 117          | 106         |
| Bachelor of Science in Technology Communications Management                                   | 650          | 609          | 177         |
| Bachelor of Science in Automotive Mechanical Technology                                       | 69           | 66           | 59          |
| Bachelor of Science in Electrical Technology and Management                                   | 195          | 175          | 165         |
| Bachelor of Science in Electro-Mechanical Technology  | 704          | 650          | 253         |
| Bachelor of Science in Electronics Communications Technology                                  | 103          | 100          | 82          |
| Bachelor of Science in Information Technology ( <i>Center of Excellence</i> )                 | 1,003        | 950          | 322         |
| Bachelor of Elementary Education major in Special Education                                   | 173          | 169          | 42          |
| Bachelor of Elementary Education major in Technology and Livelihood Education                 | -            | -            | 96          |
| Bachelor of Secondary Education (TLE)   | 225          | 218          | -           |
| Bachelor of Secondary Education Major in Technology and Home Economics                        | 111          | 5            | -           |
| Bachelor of Secondary Education Major in Technology and Livelihood Education                  | 4            | 108          | -           |
| Bachelor of Technology and Livelihood Education Major in Home Economics                       | 90           | 84           | -           |
| Bachelor of Technology and Livelihood Education Major in Industrial Arts                      | 62           | 61           | -           |
| Bachelor of Science in Science Education  | 102          | 91           | -           |
| Bachelor of Science in Mathematics Education  | 113          | 102          | -           |
| Bachelor in Secondary Education major in Mathematics  | 75           | 73           | 24          |
| Bachelor in Secondary Education major in Physical Sciences                                    | 50           | 44           | 30          |
| Bachelor of Science in Public Administration  | -            | -            | -           |
| Bachelor of Technical Teacher Education   | 25           | 25           | 14          |
| Bachelor of Science in Environmental Science Major in Environmental Management and Technology | 40           | 36           | -           |

|  |              |              |              |
|--|--------------|--------------|--------------|
| Bachelor of Science in Environmental Science Major in Natural Resources Management     | 116          | 104          | -            |
| Bachelor of Science in Applied Physics   | 31           | 25           | -            |
| Bachelor of Science in Food Technology   | 139          | 133          | -            |
| Bachelor of Science in Data Science  | 40           | 34           | -            |
| Bachelor of Science in Electronics Technology (DIP-ET)                                 | 117          | 100          | -            |
| Bachelor of Science in Electronics Technology (DIP-MST)                                | 117          | 98           | -            |
| Bachelor of Science in Electronics Technology (DIP-TN)                                 | 116          | 96           | -            |
| Bachelor of Science in Energy Systems and Management                                   | 113          | 98           | -            |
| Bachelor of Science in Autotronics   | 95           | 88           | -            |
| Bachelor of Science in Electro-Mechanical Technology (DIP-MR)                          | 143          | 120          | -            |
| Bachelor of Science in Manufacturing Engineering Technology                            | 77           | 61           | -            |
| Bachelor of Science in Energy Systems and Management                                   | 79           | 66           | -            |
| <b>Total, CDO</b>  | <b>7,461</b> | <b>6,963</b> | <b>2,342</b> |
|  |              |              |              |
| <b>Claveria</b>  |              |              |              |
| Bachelor of Agricultural Technology  | 71           | 65           | 43           |
| Bachelor of Food Technology  | 90           | 89           | 30           |
| Bachelor of Science In Environmental Engineering                                       | 219          | 196          | 33           |
| Bachelor of Science In Agriculture   | 588          | 566          | 99           |
| Bachelor of Science In Agroforestry  | 123          | 103          | 14           |
| Bachelor of Technology in Horticulture Management                                      | 118          | 109          | 4            |
| Bachelor of Science In Hospitality Management  | -            | -            | -            |
| <b>Total, Claveria</b>   | <b>1,209</b> | <b>1,128</b> | <b>223</b>   |
|  |              |              |              |
| <b>Jasaan</b>  |              |              |              |
| Bachelor of Science in Automotive Mechanical Technology                                | 20           | 19           | 12           |
| Bachelor of Science in Electrical Technology and Management                            | 114          | 113          | 72           |
| Bachelor of Science in Information Technology (Old Curriculum)                         | 108          | 104          | 48           |
| Bachelor of Science in Information Technology (New Curriculum)                         | 160          | 134          | -            |
| Bachelor of Science in Energy Systems and Management                                   | 133          | 117          | -            |
| Bachelor of Science in Manufacturing Engineering Technology                            | 88           | 80           | -            |
| <b>Total, Jasaan</b>   | <b>623</b>   | <b>567</b>   | <b>132</b>   |
|  |              |              |              |
| <b>Oroquieta</b>   |              |              |              |
| Bachelor of Secondary Education - Technology and Livelihood Education                  | 263          | 258          | 18           |
| Bachelor of Science in Information Technology (Old Curriculum)                         | 468          | 354          | 14           |
| Bachelor of Technology and Livelihood Education - Home Economics                       | 77           | 75           | -            |
| Bachelor of Technology and Livelihood Education - Information Communication Technology | 37           | 40           | -            |
| Bachelor of Technology and Livelihood Education - Industrial Arts                      | 33           | 81           | -            |
| Bachelor of Science in Information Technology (New Curriculum)                         | 78           | 65           | -            |
| <b>Total, Oroquieta</b>  | <b>956</b>   | <b>873</b>   | <b>32</b>    |

## APPENDIX 6

|  |               |               |              |
|--|---------------|---------------|--------------|
| <b>Panaon</b>  |               |               |              |
| Bachelor of Science in Aquatic Resources Management and Technology (BSARMT)          | 0             | 0             | 0            |
| Bachelor of Science in Marine Biology (BSMB)   | 285           | 256           | 52           |
| Bachelor of Secondary Education Major in Technology Livelihood Education (TLE)       | 109           | 108           | 3            |
| Bachelor of Science in Information Technology  | 280           | 238           | 0            |
| Bachelor of Technology livelihood Education-IA                                       | 44            | 48            | 0            |
| Bachelor of Technology livelihood Education-HE                                       | 49            | 52            | 0            |
| <b>Total, Panaon</b>   | <b>767</b>    | <b>702</b>    | <b>55</b>    |
| <b>Total, Undergraduate</b>  | <b>11,016</b> | <b>10,233</b> | <b>2,784</b> |
|  |               |               |              |
| <b>GRADUATE</b>  |               |               |              |
| <b>Cagayan de Oro</b>  |               |               |              |
| Master of Science in Environment Science and Technology                              | 23            | 15            | 12           |
| Master in Applied Mathematical Sciences  | 22            | 15            | 9            |
| Master of Science in Teaching Mathematics  | 79            | 71            | 39           |
| Master of Science in Teaching Physical Sciences Major in Physics                     | 16            | 8             | 10           |
| Master of Science in Science Education major in Chemistry                            | 30            | 26            | 18           |
| Master of Science in Technology Communication Management                             | 8             | 8             | 3            |
| Master of Engineering Program  | 18            | 23            | 8            |
| Master of Engineering in Civil Engineering   | 32            | 39            | 8            |
| Master of Engineering in Mechanical Engineering                                      | 13            | 17            | 6            |
| Master of Science in Electrical Engineering  | 11            | 8             | 0            |
| Master of Science in Sustainable Development   | 9             | 5             | 0            |
| Professional Science Master in Power System Engineering and Management               | 14            | 12            | 9            |
| Master in Information Technology   | 45            | 25            | 16           |
| Master in Educational Planning and Management  | 8             | 11            | 8            |
| Master of Arts in Teaching Special Education   | 42            | 22            | 19           |
| Master of Arts in Teaching English as a Second Language                              | 22            | 12            | 8            |
| Master in Technician Teacher Education   | 63            | 38            | 49           |
| Master in Public Administration  | 26            | 6             | 0            |
| Doctor of Philosophy in Educational Planning and Management                          | 18            | 11            | 14           |
| Doctor in Technology Education   | 1             | 2             | 1            |
| Doctor of Philosophy in Mathematical Sciences major in Applied Mathematical Sciences | 12            | 14            | 7            |
| Doctor of Philosophy in Mathematical Sciences major in Mathematics Education         | 26            | 27            | 13           |
| Doctor of Philosophy in Science Education major in Chemistry                         | 13            | 17            | 4            |
| <b>Total, CDO</b>  | <b>551</b>    | <b>432</b>    | <b>261</b>   |
|  |               |               |              |
| <b>Claveria</b>  |               |               |              |
| Doctor of Philosophy - Animal Science  | 3             | 3             | 3            |
| Doctor of Philosophy - Crop Science  | 8             | 8             | 7            |
| Master of Science in Agriculture   | 53            | 53            | 48           |
| <b>Total, Claveria</b>   | <b>64</b>     | <b>64</b>     | <b>58</b>    |
| <b>Total, Graduate</b>   | <b>615</b>    | <b>496</b>    | <b>319</b>   |



## GRADUATES SY 2017-2018

### Higher and Advance Education

**SY 2017-2018:** Total number of graduates (Post Graduates and Undergraduates)

| Program  | School Year<br>2017-2018 |
|--|--------------------------|
| <b>• USTP Cagayan de Oro</b>   |                          |
| <b>Graduate Degree</b>   |                          |
| <b><i>College of Information Technology and Computing</i></b>                |                          |
| Master of Science in Technology Communication Management                     | 1                        |
| <b><i>College of Science and Mathematics</i></b>                             |                          |
| Doctor of Philosophy in Mathematical Sciences major in Applied Mathematics   | 2                        |
| Master of Science in Applied Mathematical Sciences                           | 3                        |
| Master of Science in Environmental Science and Technology                    | 1                        |
| <b><i>College of Science and Technology Education</i></b>                    |                          |
| Doctor of Philosophy in Educational Planning and Management                  | 4                        |
| Doctor of Philosophy in Mathematical Sciences major in Mathematics Education | 4                        |
| Doctor in Technology Education   | 2                        |
| Master of Arts in Educational Planning and Management                        | 1                        |
| Master of Arts in Teaching English as Second Language                        | 1                        |
| Master of Science in Teaching Mathematics                                    | 3                        |
| Master of Arts in Teaching Special Education                                 | 4                        |
| Master in Public Administration  | 7                        |
| Master in Technician Teacher Education                                       | 7                        |
| <b>Grand Total for Graduate School</b>                                       | <b>40</b>                |
| <b>Undergraduate Degree</b>  |                          |
| <b><i>College of Engineering and Architecture</i></b>                        |                          |
| Bachelor of Science in Architecture  | 13                       |
| Bachelor of Science in Civil Engineering                                     | 15                       |
| Bachelor of Science in Electronics Engineering                               | 54                       |
| Bachelor of Science in Electrical Engineering                                | 21                       |
| Bachelor of Science in Mechanical Engineering                                | 33                       |
| <b><i>Bachelor of Science in Computer Engineering</i></b>                    | 56                       |
| Bachelor of Science in Information Technology                                | 197                      |
| Bachelor of Science in Technology Communication Management                   | 194                      |
| <b><i>College of Science and Mathematics</i></b>                             |                          |
| <b><i>Bachelor of Science in Applied Mathematics</i></b>                     | 18                       |
| Bachelor of Science in Applied Physical Sciences                             | 16                       |
| Bachelor of Science in Chemistry   | 15                       |
| Bachelor of Science in Environmental Science and Technology                  | 74                       |
| Bachelor of Science in Food Science and Technology                           | 69                       |
| <b><i>College of Science and Technology Education</i></b>                    |                          |
| <b><i>Bachelor of Secondary Education major in Mathematics</i></b>           | 49                       |
| Bachelor of Secondary Education major in Physical Sciences                   | 47                       |
| Bachelor of Secondary Education major in Technology and Livelihood Education | 257                      |

## APPENDIX 7

| Program  | School Year<br>2017-2018 |
|--|--------------------------|
| Bachelor of Secondary Education major in Special Education                         | 153                      |
| Bachelor in Public Administration  | 4                        |
| Bachelor of Technical Teacher Education  | 22                       |
| Certificate of Teaching  | 22                       |
| <b>College of Technology</b>   |                          |
| Bachelor of Science in Automotive Mechanical Technology                            | 46                       |
| Bachelor of Science in Electronics Communications Technology                       | 54                       |
| Bachelor of Science in Electro-Mechanical Technology                               | 100                      |
| Bachelor of Science in Electrical Technology Management                            | 78                       |
| Bachelor of Science in Industrial Technology                                       | 1                        |
| <b>Grand Total for Undergraduate School</b>  | <b>1608</b>              |
| <b>Grand Total, USTP-CDO</b>   | <b>1648</b>              |
|  |                          |
| <b>• USTP Claveria</b>   |                          |
| <b>Graduate Degree</b>   |                          |
| Doctor of Philosophy in Crop Science   | 4                        |
| Master of Science in Agriculture   | 1                        |
| <b>Grand Total for Graduate School</b>   | <b>5</b>                 |
| <b>Undergraduate Program</b>   |                          |
| Bachelor of Agricultural Technology  | 82                       |
| Bachelor of Food Technology  | 34                       |
| Bachelor of Science in Environmental Engineering                                   | 22                       |
| Bachelor of Science in Agriculture   | 127                      |
| Bachelor of Science in Agroforestry  | 33                       |
| Bachelor of Technology in Horticuture Management                                   | 22                       |
| <b>Grand Total for Undergraduate School</b>  | <b>320</b>               |
| <b>Grand Total, USTP-Claveria</b>  | <b>325</b>               |
|  |                          |
| <b>• Clustered Campuses</b>  |                          |
| <b>USTP Jasaan</b>   |                          |
| Bachelor of Science in Information Technology                                      | 20                       |
| Bachelor of Science in Electrical and Technological Management                     | 35                       |
| Bachelor of Science in Auto-Mechanical Technology                                  | 9                        |
| <b>Total</b>   | <b>64</b>                |
|  |                          |
| <b>USTP Oroquieta</b>  |                          |
| Bachelor of Science in Technology and Livelihood Education Major in Home Economics | 175                      |
| <b>Total</b>   | <b>175</b>               |
|  |                          |
| <b>USTP Panaon</b>   |                          |
| Bachelor of Science in Marine Biology  | 41                       |
| Bachelor of Science in Technology and Livelihood Education                         | 30                       |
| <b>Total</b>   | <b>71</b>                |

## APPENDIX 8

### 2018 Research Collaborations

|                                     | Linkage/<br>Partnership/<br>Collaboration<br>Program | Partner/Collaborating<br>institution/s                                  | Institutional type of<br>partner institutions           | For international<br>collaborations:<br>Country/ies in<br>partnership/<br>collaboration<br>with | Nature of<br>Partnership/<br>Collaboration             | Deliverables or Desired<br>Output/s  | Validity of<br>Implementation  | Target<br>beneficiaries                       |
|-------------------------------------|--|---|---|---|--|--|--|---|
| <b>A. GLOBAL COLLABORATIONS (6)</b> |  |   |   |   |  |  |  |   |
| 1                                   | ESTABLISHMENT<br>OF EDUCATIONAL<br>LINKAGES          | "RAJAMANGALA<br>UNIVERSITY OF<br>TECHNOLOGY<br>THANYABURI (RMUTT)"      | A State University in<br>Thailand                       | Thailand  | Academic<br>and Research<br>Collaboration<br>Agreement | Faculty and Staff Exchange,<br>Students Exchange   | April 2018<br>and where the<br>Memorandum<br>of Agreement<br>continues to be<br>active, the two<br>institutions agree<br>to review it after<br>five years from the<br>date hereof. | Faculty<br>members and<br>students of<br>USTP |
| 2                                   | ESTABLISHMENT<br>OF EDUCATIONAL<br>LINKAGES          | "SOUTHERN TAIWAN<br>UNIVERSITY OF SCIENCE<br>AND TECHNOLOGY<br>(STUST)" | A Private University<br>in Yongkang District,<br>Taiwan | Taiwan  | Academic<br>Agreement                                  | Faculty and Staff Exchange,<br>Students Exchange,<br>Collaborative research<br>projects, exchange of<br>academic, conduct of lectures<br>and symposia, exchange of<br>academic information and<br>materials, promotion of other<br>academic cooperation                        | The Agreement<br>shall be in force<br>for a period of five<br>years starting May<br>17, 2018   | Faculty<br>members of<br>USTP                 |
| 3                                   | ESTABLISHMENT<br>OF EDUCATIONAL<br>LINKAGES          | "XIAMEN UNIVERSITY<br>OF<br>TECHNOLOGY<br>(XMUT)"                       | A Private University<br>in Yongkang District,<br>Taiwan | Taiwan  | Academic<br>Agreement                                  | Joint Educational and<br>Research Activities, Exchange<br>of Academic Materials and<br>publications, exchange of<br>faculty for research, lectures,<br>seminars and discussions,<br>exchange of students for study<br>and research, promotion of<br>other academic cooperation | The Agreement<br>shall be in force<br>for a period of five<br>years starting May<br>17, 2018   | Faculty<br>members of<br>USTP                 |



## APPENDIX 8

|   | Linkage/<br>Partnership/<br>Collaboration<br>Program                           | Partner/Collaborating<br>institution/s   | Institutional type of<br>partner institutions  | For international<br>collaborations:<br>Country/ies in<br>partnership/<br>collaboration<br>with         | Nature of<br>Partnership/<br>Collaboration   | Deliverables or Desired<br>Output/s  | Validity of<br>Implementation   | Target<br>beneficiaries  |
|---|--|--|--|---|--|--|---|--|
| 4 | Center for<br>Entrepreneurship<br>and Technology<br>(Technopreneurship<br>101) | "1. Commission on<br>Higher Education<br>(CHED)<br>2. Philippine Science<br>& Technology<br>Development<br>Foundation (PhilDev)" | "1. Government<br>Agency<br>2. Private<br>Foundation"  | Sutardja<br>Center for<br>Entrepreneurship<br>& Technology<br>(University<br>of California<br>Berkeley) | "1. CHED as the<br>funding agency<br>2. PhilDev as<br>implementing<br>partner/Aadviser<br>of CET<br>3. SCET as<br>mentor/adviser<br>for CET" | "1. Development of Innovation<br>& Startup ecosystem<br>2. Enhancement of Startup<br>Incubation Program<br>3. Introduction &<br>implementation of the<br>Technopreneurship course "  | January 2018 -<br>December 2019   | Faculty<br>members<br>& students,<br>neighboring<br>HEIs, the<br>startup<br>community,<br>alumni,<br>professionals/<br>industry, &<br>investment<br>community. |
| 5 | ESTABLISHMENT<br>OF EDUCATIONAL<br>LINKAGES                                    | "HARBIN UNIVERSITY<br>OF SCIENCE AND<br>TECHNOLOGY (HUST)<br>"   | A province-owned<br>Engineering<br>University in<br>Heilongjiang<br>Province, Harbin,<br>China | China   | Academic<br>Agreement  | Joint Educational and<br>Research Activities, Faculty<br>Development Programs,<br>exchange of academic<br>materials and publications,<br>exchange of faculty for<br>research, lectures, seminars<br>and discussions, exchange<br>of students for study and<br>research, promotion of other<br>academic cooperation | The Memorandum<br>of Agreement<br>shall be valid for a<br>period of five years<br>starting July 12,<br>2018 | Faculty<br>members and<br>students of<br>USTP  |
| 6 | USTP and the Royal<br>Animal Group; and<br>USTP and KNOTUS<br>Company, Ltd     | KNOTUS Company Ltd   | Animal Medical<br>Group  | Seoul, Korea  | Instruction and<br>Research  | (1) Instruction; (2) Research;<br>and (3) v or Community<br>Engagements.   | April 30, 2018.   |  |

## APPENDIX 8

|                                      | Linkage/<br>Partnership/<br>Collaboration<br>Program | Partner/Collaborating<br>institution/s  | Institutional type of<br>partner institutions | For international<br>collaborations:<br>Country/ies in<br>partnership/<br>collaboration<br>with | Nature of<br>Partnership/<br>Collaboration   | Deliverables or Desired<br>Output/s  | Validity of<br>Implementation   | Target<br>beneficiaries                       |
|--------------------------------------|--|---|---|---|--|--|---|---|
| <b>B. LOCAL COLLABORATIONS (104)</b> |  |   |   |   |  |  |   |   |
| 1                                    | USTP-TVET<br>PROGRAMS                                | "TECHNICAL<br>EDUCATION AND<br>SKILLS DEVELOPMENT<br>AUTHORITY (TESDA) –<br>REGION X" | National<br>Government                        |   | Establish<br>Technical<br>Working Groups<br>(TWGs) to work<br>on the Terms of<br>Reference | Complementation of the<br>following: 1. Ladderized/<br>Diploma programs for<br>TVET to higher education<br>2. Complementation of<br>trainers, faculty on related<br>GenEd related courses 3.<br>Complementation of facilities<br>and equipment 4. Technological<br>Innovation and Research<br>5. Immersion program of<br>TVET programs 6. USTP TVET<br>programs or assessment<br>centers 7. Cascading of<br>Concieve, Design and Innovate<br>& Operate (CDIO) Framework<br>8. Graduate program for<br>industry practitioners and<br>VochTech Faculty | The Memorandum<br>of Agreement shall<br>take continue in<br>effect for a period<br>of one (1) year<br>starting November<br>23, 2018 | Faculty<br>members and<br>students of<br>USTP |
| 2                                    | ACADEME -<br>INDUSTRY LINKAGE<br>PROGRAM             | "CAGAYAN ELECTRIC<br>POWER AND LIGHT<br>COMPANY, INC.<br>(CEPALCO)"                   | Industry                                      |   | Academe -<br>Industry Linkage<br>Program   | Donation of the Solar<br>Powered Panels, trained<br>faculty and students on the<br>use of renewable energy<br>such as solar power, upgrade<br>of curriculum to improve<br>classroom instruction aligned<br>to the needs of the industry  | The Memorandum<br>of Agreement<br>shall take effect<br>immediately on<br>September 25,<br>2018                                      | Faculty<br>members and<br>students of<br>USTP |

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|   | Linkage/<br>Partnership/<br>Collaboration<br>Program   | Partner/Collaborating<br>institution/s   | Institutional type of<br>partner institutions | For international<br>collaborations:<br>Country/ies in<br>partnership/<br>collaboration<br>with | Nature of<br>Partnership/<br>Collaboration                                | Deliverables or Desired<br>Output/s   | Validity of<br>Implementation  | Target<br>beneficiaries   |
|---|--|--|---|---|---|---|--|---|
| 3 | SCIENCE AND<br>TECHNOLOGY<br>REGIONAL<br>ALLIANCE OF<br>UNIVERSITIES<br>FOR INCLUSIVE<br>NATIONAL<br>DEVELOPMENT<br>(STRAND) | "DEPARTMENT<br>OF SCIENCE AND<br>TECHNOLOGY (DOST)<br>& SCIENCE EDUCATION<br>INSTITUTE (SEI)"  | National<br>Government                        |   | Graduate<br>Scholarship<br>Program  | Graduate scholarship slots to<br>faculty members and students<br>of USTP, final evaluation of the<br>list of potential scholarship<br>qualifiers endorsed by the<br>University, monitoring of the<br>academic performance of<br>the scholars until completion<br>of the degree, application<br>of required sanctions/<br>penalties under appropriate<br>circumstances | June 2017 and<br>shall continue to<br>remain in force<br>unless there are<br>modifications<br>agreed upon<br>by the parties<br>concerned | Faculty<br>members and<br>students of<br>USTP   |
| 4 | ENHANCEMENT<br>ACTIVITY FOR<br>THE SELECTED<br>GRADUATING<br>SENIOR HIGH<br>SCHOOL STUDENTS                                  | "DEPARTMENT<br>OF SCIENCE AND<br>TECHNOLOGY – X (DOST<br>- X) & PROVINCIAL<br>SCIENCE AND<br>TECHNOLOGY CENTER<br>OF MISAMIS ORIENTAL<br>(PSTC-MISOR)" | National<br>Government                        |   | Scholarship<br>Review Classes   | Lecture Handouts for the<br>Intensive Scholarship Exam<br>Review, DOST Scholarship<br>Exam Passers  | July 28, 2018 until<br>October 13, 2018  | Senior High<br>School<br>students<br>qualified and<br>potential<br>to apply<br>for DOST<br>scholarship                          |
| 5 | NGCP-EDUCATE<br>(EDUCATIONAL<br>ASSISTANCE<br>FOR TERTIARY<br>EDUCATION)<br>PROGRAM  | NATIONAL GRID<br>CORPORATION OF THE<br>PHILIPPINES (NGCP)  | National<br>Government                        |   | Scholarship<br>Grants for<br>underprivileged<br>but deserving<br>students | Database of the Scholars'<br>information pertinent to<br>the EDUCATE program of<br>NGCP, Graduates of a 4-year<br>College program or Electrical<br>Engineering program  | This Memorandum<br>of Agreement shall<br>take effect from<br>November 20,<br>2017  | Incoming 1st<br>year, 2nd year,<br>and 3rd year<br>College of<br>USTP qualified<br>under<br>the NGCP<br>eligibility<br>criteria |



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|---|--|--|---|---|--|---|--|---|
| 6 | DBP RESOURCES<br>FOR INCLUSIVE<br>AND SUSTAINABLE<br>EDUCATION (DBP -<br>RISE)   | DEVELOPMENT BANK<br>OF THE PHILIPPINES   | National<br>Government                        |   | Financial<br>Assistance to<br>deserving<br>students from<br>the ranks of un-<br>derprivileged<br>Filipino families | Database of the Scholars' information pertinent to the EDUCATE program of NGCP, Graduates of a 4-year College program or Electrical Engineering program | This Agreement shall remain in force for the duration of the DBP RISE implementation and shall be effective from December 05, 2018 and shall continue to be effective unless either Party serves a written notice of its intention to terminate this Agreement six months. | USTP students qualified under the DBP RISE eligibility criteria |
| 7 | Environmental<br>Impact Assessment<br>of Mercury<br>Contaminated<br>Environments Due to<br>Mining Activities in<br>Barangay Gango,<br>Libona, Bukidnon | "Commission on Higher<br>Education (CHED) -<br>Funding agency and<br>Capitol University" | Government agency<br>and HEI                  |   | Research   | Environmental Impact<br>Assessment Report   | January 2018 -<br>January 2020   | SUCs,<br>HEIs, LGUs<br>and other<br>stakeholders                |
| 8 | Technopreneurship<br>Hub (TechHub)   | Commission on Higher<br>Education (CHED) and<br>PhilDev                                  | Government agency                             |   | Research   | Pitching competition,<br>Innovation Forum   | December 2017 -<br>December 2018   | Start Ups,<br>Small and<br>Medium<br>Enterprises                |

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|----|--|--|---|---|--|---|--------------------------------|--|
| 9  | "Technology Digital<br>Incubation Hub<br>"   | "DOST-PCIEERD<br>Philippine Council for<br>Industry, Energy and<br>Emerging Technology<br>Research and<br>Development" | National<br>Government                        |   | Research                                   | Technology transfer                       | October 2016 -<br>October 2018 | SUCs, HEIs,<br>LGUs,<br>Businesses<br>Community<br>and other<br>stakeholders |
| 10 | Northern Mindanao<br>Consortium for<br>Agriculture and<br>Natural Resources<br>Research and<br>Development | Northern Mindanao<br>State Universities and<br>Colleges  | National<br>Government                        |   | Research<br>Agenda<br>Formulation          | Trainings, IECs, etc.                     | Yearly membership              | Partner SUCs   |
| 11 | "4th Mindanao<br>Policy Research<br>Forum"   | Mindanao<br>Development<br>Authority (MinDA) and<br>Philippine Institute for<br>Development Studies<br>(PIDS)          | National<br>Government                        |   | Research                                   | Forum/ Symposium                          | September 11,<br>2018.         | SUCs,<br>HEIs, LGUs<br>and other<br>stakeholders                             |
| 12 | Computer Literacy<br>Training  | Municipality of Opol   | LGU   |   | Skills Training                            | Computer Literacy                         | January 13, 2018               | LGU<br>employees   |
| 13 | Computer Literacy<br>Training  | Bayanga National High<br>School  | Academe                                       |   | Skills Training                            | Computer Literacy                         | January 13, 2018               | Public School<br>Teachers  |
| 14 | Wholesale<br>Electricity Spot<br>Market (WESM) 101<br>Training Workshop-<br>Batch 3                        | NEA (National<br>Electrification<br>Administration)  | National<br>Government                        |   | Training-<br>Workshop                      | Electric Power Mngt<br>Competency         | February 7-8, 2018             | Mindanao<br>Electric<br>Cooperatives<br>Board of<br>Directors                |
| 15 | Industrial<br>Automation (Basic)<br>Training   | Camiguin Polytechnic<br>State College  | Academe                                       |   | Training-<br>Workshop                      | Basic Industrial Automation<br>Competency | February 20, 2018              | CPSC Students  |

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|----|--|---|---|---|--|--|-------------------------------|---|
| 16 | Innovation Summit<br>2018: Rethinking<br>Issues in Innovation  | NEA (National<br>Electrification<br>Administration) | National<br>Government                        |   | Training-<br>Workshop                      | Innovation Knowledge                   | March 8, 2018                 | Electrical<br>Engineers   |
| 17 | Training-<br>Workshop on Basic<br>Pneumatics   | Bukidnon State<br>University                        | Academe                                       |   | Training-<br>Workshop                      | Basic Pneumatics Competency            | March 9, 2018                 | BSU Students  |
| 18 | DOLE-USTP<br>Livelihood Project -<br>Vulcanizing Shop  | DOLE-X  | National<br>Government                        |   | Livelihood<br>Project                      | Business Enterprise                    | January-March<br>2018         | ISMODA  |
| 19 | DOLE-USTP<br>Livelihood Project<br>- Lagundi Syrup<br>Processing   | DOLE-X  | National<br>Government                        |   | Livelihood<br>Project                      | Business Enterprise                    | January-March<br>2018         | FECUPO  |
| 20 | Solar Energy<br>Training Module<br>- Solar PV<br>System Design<br>Requirements                             | Institute of Integrated<br>Electrical Engineers     | Professional<br>Organization                  |   | Training-<br>Workshop                      | Solar Energy Competency                | April 13-14, 2018             | Registered<br>Master<br>Electricians<br>and Electrical<br>Engineers |
| 21 | Wholesale<br>Electricity Spot<br>Market (WESM)<br>Protocol and Pricing<br>Methodology<br>Training-Workshop | Institute of Integrated<br>Electrical Engineers     | Professional<br>Organization                  |   | Training-<br>Workshop                      | WESM Protocol and Pricing<br>Knowledge | April 13-14, 2018             | Registered<br>Master<br>Electricians<br>and Electrical<br>Engineers |
| 22 | Solar Module   | Institute of Integrated<br>Electrical Engineers     | Professional<br>Organization                  |   | Training-<br>Workshop                      | Solar Energy Competency                | April 19-20, 2018             | Registered<br>Master<br>Electricians<br>and Electrical<br>Engineers |



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|----|---|---|---|---|--|--|-------------------------------|---|
| 23 | Wholesale<br>Electricity Spot<br>Market (WESM) 101<br>Training Workshop-<br>Batch 4               | NEA (National<br>Electrification<br>Administration)             | Government Agency                             |   | Training-<br>Workshop                      | WESM Protocol and Pricing<br>Knowledge | May 3-4, 2018                 | Mindanao<br>Electric<br>Cooperatives<br>Board of<br>Directors |
| 24 | Competency<br>Training Workshop<br>for Elementary<br>Science Teachers<br>(Fun Science, Year<br>2) | Department of<br>Education - Division of<br>Cagayan de Oro City | Academe                                       |   | Competency<br>Enhancement<br>Training      | Content & Pedagogical Skills           | May 28-June 1,<br>2018        | Public<br>Elementary<br>and ALS<br>Teachers                   |
| 25 | Competency<br>Training Workshop<br>for High School<br>Science Teachers                            | Department of<br>Education - Division of<br>Cagayan de Oro City | Academe                                       |   | Competency<br>Enhancement<br>Training      | Content & Pedagogical Skills           | May 28-June 1,<br>2018        | Public High<br>School<br>Teachers                             |
| 26 | GMP Training for<br>Kalabaylabay Coop<br>Sponsored by   | DTI-Misamis Oriental  | Government Agency                             |   | Training-<br>Workshop                      | GMP Knowledge and Skills               | May 21, 2018                  | SMEs  |
| 27 | GMP Training for<br>Bolisong Coop<br>Sponsored by   | DTI-Misamis Oriental  | Government Agency                             |   | Training-<br>Workshop                      | GMP Knowledge and Skills               | May 22, 2018                  | SMEs  |
| 28 | GMP Training<br>Sponsored by  | DOST-Mis Or   | Government Agency                             |   | Training-<br>Workshop                      | GMP Knowledge and Skills               | May 16-17, 2018               | SMEs  |
| 29 | GMP Training for<br>SMES Sponsored by   | Negosyo Center DTI-<br>Misamis Oriental                         | Government Agency                             |   | Training-<br>Workshop                      | GMP Knowledge and Skills               | June 21, 2018                 | SMEs  |

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|----|---|---|---|---|--|-------------------------------------|---|--|
| 30 | Food Processing<br>Training   | DOST-Mis Or   | Government Agency                                   |   | Training-<br>Workshop                      | Food Processing Skills              | May 21-25, 2018   | SMIEs  |
| 31 | Skills Training in<br>Computer Literacy/<br>Office Productivity                                       | Barangay Council of San<br>Francisco de Asis  | LGU   |   | Skills Training                            | Computer Literacy Skills            | "July 14, 21,<br>August 18, August<br>25, September<br>1, 2018" | out of school<br>youth ,wife,<br>officials and<br>office staff |
| 32 | cGMP Awareness<br>Seminar in the<br>Kapatid Mentor Me<br>Program                                      | DTI CAMIGUIN  | Government Agency                                   |   | Awareness<br>Seminar                       | GMP Knowledge                       | "July 20, 2018"   | MSME's<br>Participants   |
| 33 | Advance Electricity<br>Teaching   | IEE-CDO Chapter   | Professional<br>Organization                        |   | Training-<br>Workshop                      | Content Knowledge & Skills          | June 23, 30 & July<br>21, 2018                                  | Accredited<br>electricians in<br>Cag. de Oro<br>City           |
| 34 | Teaching with<br>Technology with<br>Microsoft   | Puerto National High<br>School/ Indahag<br>National High School/<br>Bayanga National High<br>School | Academe   |   | Training-<br>Workshop                      | ICT Knowledge & Skills              | July 28, 2018.  | Public<br>School with<br>Secondary<br>School<br>Teachers       |
| 35 | "Bigay Liwanag<br>Project<br>"  | IEE-CDO, MORESCO- 1<br>Talakag, Bukidnon  | "Professional<br>Organization,<br>Service Provider" |   | Electrification<br>Project                 | Community Empowerment               | August 4, 2018.   | Residents of<br>Dagundalahin,<br>Talakag,<br>Bukidnon          |
| 36 | Food Safety and<br>cGmp Orientation<br>Seminar in the<br>Modularized<br>Business Learning<br>Sessions | DTI   | Government Agency                                   |   | Training-<br>Workshop                      | Food Safety and GMP<br>Knowledge    | "August 1, 2018"  | BLS members  |

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|----|---|--|---|---|--|--|--------------------------------------|---|
| 37 | Skills Training for<br>Banana Ketchup<br>Making                                     | DTI CARP                                   | Government Agency                             |   | Skills Training                            | Banana Ketchup Production<br>Skills      | August 10, 2018                      | female<br>members of<br>Luna Farmer's<br>Multi Purpose<br>Cooperative |
| 38 | Training for GMP/<br>Food Safety<br>Awareness Training<br>and Binangkal<br>Making   | DTI CARP                                   | Government Agency                             |   | Training-<br>Workshop                      | GMP Knowledge & Food<br>Safety Awareness | "September 12,<br>2018"              | female<br>members<br>of Aya - aya<br>and Balintad<br>Cooperative      |
| 39 | Computer Literacy:<br>MS Word   | Life Project 4 Youth                       | NGO   |   | Skills Training                            | Computer Literacy Skills                 | June - September<br>2018             | 15 hearing<br>impaired  |
| 40 | Computer Literacy:<br>MS Word   | Life Project 4 Youth                       | NGO   |   | Skills Training                            | Computer Literacy Skills                 | June - September<br>2018             | 15 out of<br>school youth   |
| 41 | Computer Literacy:<br>MS Excel  | Life Project 4 Youth                       | NGO   |   | Skills Training                            | Computer Literacy Skills                 | June - September<br>2018             | 15 hearing<br>impaired  |
| 42 | Computer Literacy:<br>MS Excel  | Life Project 4 Youth                       | NGO   |   | Skills Training                            | Computer Literacy Skills                 | June - September<br>2018             | 15 out of<br>school youth   |
| 43 | "Skills Training<br>in Small Engine<br>Mechanic<br>Module 1: The<br>Diesel Engine " | Barangay Council, San<br>Francisco De Asis | LGU   |   | Skills Training                            | Small Engine Mechanic<br>Competency      | July 7,14,21,28 &<br>August 11, 2018 | Residents of<br>San Francisco<br>de Asis                              |



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|----|--|---|---|---|--|--|--|---|
| 44 | "Skills Training<br>in Small Engine<br>Mechanic<br>Module 2: The<br>Gasoline Engine "                  | Barangay Council, San<br>Francisco De Asis                | LGU   |   | Skills Training                            | Gasoline Engine Competency                 | August 18, 25,<br>Sept. 7, 14, 29,<br>2018 | Residents of<br>San Francisco<br>de Asis  |
| 45 | Enhancing Public<br>Secondary<br>Mathematics<br>Teachers SEARS<br>MT (SEAMEO)<br>Competence Phase<br>1 | Department of<br>Education, Division of<br>Cagayan de Oro | Government Agency                             |   | Competency<br>Enhancement                  | Content Knowledge & Skills                 | Sept. 1,8,15, 2018                         | Selected<br>Junior High<br>School<br>Teachers<br>in Div. of<br>Cagayan de<br>Oro City |
| 46 | Media Literacy<br>Seminar  | Brgy 22   | LGU   |   | Training-<br>Workshop                      | Media Literacy Skills                      | September 22,<br>2018.                     |   |
| 47 | Language &<br>Communication<br>Skills Development<br>for Job Seekers:                                  | Life Project 4 Youth                                      | NGO   |   | Training-<br>Workshop                      | Language & Communication<br>Skills         | June - September<br>2018                   | "yummies ( 15<br>out of school<br>youth<br>"  |
| 48 | Language &<br>Communication<br>Skills Development<br>for Job Seekers                                   | Life Project 4 Youth                                      | NGO   |   | Training-<br>Workshop                      | Language & Communication<br>Skills         | June - September<br>2018                   | "hear us (15<br>Deaf and<br>mute)"  |
| 49 | Skills Training<br>in Computer<br>and Hardware<br>Installation/<br>Troubleshooting                     | Army Signal Regiment<br>4th Signal Battalion              | Government Agency                             |   | Skills Training                            | Computer & Hardware<br>Installation Skills | September 1, 8,<br>15, 22, 29, 2018        | Army<br>Personnel   |

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|----|---|--|---|---|--|--|----------------------------------|-------------------------|
| 50 | Training for GMP/<br>Food Safety<br>Awareness Training  | DA-RFO X & DOST X                            | Government Agency                             |   | Skills Training                            | GMP & Food safety knowledge<br>& Skills            | September 20-21,<br>2018         | MSMEs                   |
| 51 | Tree Growing  | DENR, PNP, City<br>Government, CHED          | Government Agency                             |   | Environmental<br>Preservation              | Forest Cover                                       | "September 29,<br>2018"          | MSME's<br>Participants  |
| 52 | CCTV/Wiring<br>Installation Building<br>Wiring/Smoke<br>Detector and Fire<br>Alarm/Industrial<br>Motor Controls   | FIBECO                                       | Private Entity/<br>Cooperative                |   | Skills Training                            | CCTV/Wiring Installation<br>Competencies & Skills  | Sept. 14, 2018                   | 140<br>electricians     |
| 53 | "Skills Training in<br>Electronics Products<br>Assembly and<br>Servicing Module 1<br>Introduction to<br>Electronics and<br>Basic Measuring<br>and Testing<br>Devices" | Army Signal Regiment<br>4th Signal Battalion | Government Agency                             |   | Skills Training                            | Electronic Products Assembly<br>& Servicing Skills | August 29 -<br>September 2, 2018 | Army<br>Personnel       |
| 65 | Special Topics on<br>English Language<br>Teaching:<br>Action Research<br>(Organizing and<br>Revising Literature:<br>An Intercontinental<br>Approach)                  | East City Central School                     | Academe                                       |   | Training-<br>Workshop                      | Research Skills                                    | February 9, 2018                 | Teachers                |

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|----|--|--|---|---|--|---|-------------------------------------|---------------------------------------|
| 66 | Special Topics on<br>English Language<br>Teaching: Applied<br>Linguistics/Reading<br>and Writing in<br>Multilingual<br>Context/Pedagogy<br>and Technology) | East City Central School               | Academe                                       |   | Training-<br>Workshop                      | Content & Pedagogical Skills                                    | Feb. 2 & 16, 2018                   | Teachers                              |
| 67 | Special Topics on<br>English Language<br>Teaching: Applied<br>Linguistics/Reading<br>and Writing in<br>Multilingual<br>Context/Pedagogy<br>and Technology) | East City Central School               | Academe                                       |   | Training-<br>Workshop                      | Content & Pedagogical Skills                                    | July 20, 2018                       | Teachers                              |
| 68 | Skills Training<br>in Computer<br>and Hardware<br>Installation/<br>Troubleshooting   | Brgy. San Francisco de<br>Asis         | LGU   |   | Skills Training                            | Computer & Hardware<br>Installation & Troubleshooting<br>Skills | Oct.6, 20, 27,<br>November 3, 2018  | Out-of<br>School Youth,<br>Unemployed |
| 69 | Computer Literacy:<br>MS Powerpoint  | Life Project 4 Youth                   | NGO   |   | Skills Training                            | Computer Literacy   | June - September<br>2018 (16 hours) | Hear Us (Deaf<br>& Mute)              |
| 70 | Computer Literacy:<br>MS Powerpoint  | Life Project 4 Youth                   | NGO   |   | Skills Training                            | Computer Literacy   | June - September<br>2018            | Yummies<br>(out of school<br>youth)   |
| 71 | Computer Literacy:<br>Internet   | Life Project 4 Youth                   | NGO   |   | Skills Training                            | Computer Literacy   | June - September<br>2018 (16 hours) | Hear Us (Deaf<br>& Mute)              |



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|----|--|---|---|---|--|-------------------------------------|---|--|
| 72 | Computer Literacy:<br>Internet   | Life Project 4 Youth                                      | NGO   |   | Skills Training                            | Computer Literacy                   | June - September<br>2018                    | Yummies<br>(out of school<br>youth)              |
| 73 | Computer<br>Literacy: Network<br>Technology  | Life Project 4 Youth                                      | NGO   |   | Skills Training                            | Computer Literacy                   | June - September<br>2018                    | Hear Us (Deaf<br>& Mute)                         |
| 74 | Computer<br>Literacy: Network<br>Technology  | Life Project 4 Youth                                      | NGO   |   | Skills Training                            | Computer Literacy                   | June - September<br>2018                    | Yummies<br>(out of school<br>youth)              |
| 75 | Enhancing Public<br>Secondary<br>Mathematics<br>Teachers SEARS<br>MT (SEAMEO)<br>Competence Phase<br>2                                     | Department of<br>Education, Division of<br>Cagayan de Oro | Government Agency                             |   | Competency<br>Enhancement                  | Competency Enhancement              | November 17, 24<br>2018 December 1,<br>2018 | Public High<br>School Math<br>Teachers           |
| 76 | Training Workshop<br>on Data Processing,<br>Interpretation and<br>Presentation among<br>Barangay Officials<br>and Staff of CDOC<br>Phase 2 | Liga ng mga Barangay,<br>CDOC                             | LGU   |   | Training-<br>Workshop                      | Computer Literacy Skills            | November 6 - 10,<br>2018                    | Barangay<br>Captains,<br>Councilors<br>and Staff |
| 77 | Training on Cassava<br>Squid Chips Making  | DTI- Mis. Occ. & Mis.<br>Occ. Police Provl. Office        | Government Agency                             |   | Skills Training                            | Cassava Chips Production Skills     | April 19-20, 2018                           | Drug<br>Surrenderers                             |
| 78 | Plastiknology<br>Training  | DTI- Mis. Occ. & Mis.<br>Occ. Police Provl. Office        | Government Agency                             |   | Skills Training                            | Handicraft making Skills            | May 31-June 1,<br>2018                      | BJMP Inmates                                     |
| 79 | Plastiknology<br>Training  | DTI-Misamis Occidental                                    | Government Agency                             |   | Skills Training                            | Handicraft making Skills            | April 26-27, 2018                           | Women of<br>Calamba                              |

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|----|---|--|---|---|--|---|-------------------------------|---|
| 80 | Computer Literacy<br>on Computer<br>Concepts and<br>Keyboarding | National Commission of<br>Indigenous People                            | Government Agency                             |   | Skills Training                            | Computer Literacy                             | May 19, 2018                  | Indigenous<br>Peoples                             |
| 81 | Computer Literacy<br>on Word Processing                         | National Commission of<br>Indigenous People                            | Government Agency                             |   | Skills Training                            | Computer Literacy                             | May 20 and 27,<br>2018        | Indigenous<br>Peoples                             |
| 82 | Computer Literacy<br>on Spreadsheets                            | National Commission of<br>Indigenous People                            | Government Agency                             |   | Skills Training                            | Computer Literacy                             | June 2 and 3, 2018            | Indigenous<br>Peoples                             |
| 83 | Computer Literacy<br>on Powerpoint<br>Presentations             | National Commission of<br>Indigenous People                            | Government Agency                             |   | Skills Training                            | Computer Literacy                             | June 9 and 10,<br>2018        | Indigenous<br>Peoples                             |
| 84 | Arduino Workshop  | J. H. Cerilles State<br>College-Pagadian<br>Campus                     | Academe                                       |   | Skills Training                            | Arduino Skills                                | April 18-20, 2018             | JHSC<br>Students                                  |
| 85 | Class Management<br>System End User<br>Training                 | DepEd-VNCMCS   | Government Agency                             |   | Skills Training                            | Class management System<br>Knowledge & Skills | May 28, 2018                  | DepEd School<br>Teachers/<br>VNCMCS               |
| 86 | SLEC-D  | DepEd-VNCMCS   | Government Agency                             |   | Skills Training                            | Competency Enhancement                        | May 28, 2018                  | DepEd School<br>Teachers/<br>VNCMCS               |
| 87 | Plastiknology<br>Training                                       | DTI-Misamis Occidental   | Government Agency                             |   | Skills Training                            | Handicraft making Skills                      | July 20-21, 2018              | Drug<br>Surrenderers                              |
| 88 | Academe-Industry<br>Partnership                                 | Casinglot National High<br>School                                      | Academe                                       |   | On-the-Job<br>Training                     | Length of training in Industry                | Open Contract                 | Faculty<br>members and<br>students of<br>USTP-CDO |
| 89 | Academe-Industry<br>Partnership                                 | Department of<br>Environmental and<br>Natural Resources -<br>Region 10 | National<br>Government                        |   | On-the-Job<br>Training                     | Length of training in Industry                | 5 years                       | Faculty<br>members and<br>students of<br>USTP-CDO |

## APPENDIX 8

|    | Linkage/<br>Partnership/<br>Collaboration<br>Program | Partner/Collaborating<br>institution/s   | Institutional type of<br>partner institutions | For international<br>collaborations:<br>Country/ies in<br>partnership/<br>collaboration<br>with | Nature of<br>Partnership/<br>Collaboration         | Deliverables or Desired<br>Output/s | Validity of<br>Implementation | Target<br>beneficiaries                           |
|----|--|--|---|---|--|-------------------------------------|-------------------------------|---|
| 90 | Academe-Industry<br>Partnership                      | Innovuze Solutions, Inc.   | Industry                                      |   | On-the-Job<br>Training<br>and Faculty<br>Immersion | Length of training in Industry      | 5 years                       | Faculty<br>members and<br>students of<br>USTP-CDO |
| 91 | Academe-Industry<br>Partnership                      | Maxim Philippine<br>Operating Corporation  | Industry                                      |   | Faculty<br>Immersion                               | Length of training in Industry      | Open Contract                 | Faculty<br>members and<br>students of<br>USTP-CDO |
| 92 | Academe-Industry<br>Partnership                      | Molugan National High<br>School  | Academe                                       |   | On-the-Job<br>Training                             | Length of training in Industry      | Open Contract                 | Faculty<br>members and<br>students of<br>USTP-CDO |
| 93 | Academe-Industry<br>Partnership                      | Pepsi Cola Products<br>Philippines, Inc.   | Industry                                      |   | On-the-Job<br>Training                             | Length of training in Industry      | 1 year                        | Faculty<br>members and<br>students of<br>USTP-CDO |
| 94 | Academe-Industry<br>Partnership                      | Tagoloan National High<br>School   | Academe                                       |   | On-the-Job<br>Training                             | Length of training in Industry      | Open Contract                 | Faculty<br>members and<br>students of<br>USTP-CDO |
| 95 | Academe-Industry<br>Partnership                      | The First Analytical<br>Services and Technical<br>Cooperative (F.A.S.T.<br>Laboratories) | Industry                                      |   | On-the-Job<br>Training                             | Length of training in Industry      | 5 years                       | Faculty<br>members and<br>students of<br>USTP-CDO |
| 96 | Academe-Industry<br>Partnership                      | Toyota Cagayan de Oro<br>City, Inc.  | Industry                                      |   | On-the-Job<br>Training                             | Length of training in Industry      | 5 years                       | Faculty<br>members and<br>students of<br>USTP-CDO |



## APPENDIX 8

|     | Linkage/<br>Partnership/<br>Collaboration<br>Program                                   | Partner/Collaborating<br>institution/s       | Institutional type of<br>partner institutions | For international<br>collaborations:<br>Country/ies in<br>partnership/<br>collaboration<br>with | Nature of<br>Partnership/<br>Collaboration         | Deliverables or Desired<br>Output/s   | Validity of<br>Implementation    | Target<br>beneficiaries                           |
|-----|--|--|---|---|--|---|----------------------------------|---|
| 97  | Academe-Industry<br>Partnership  | Ulric Solar Power<br>Enterprises Corporation | Industry                                      |   | On-the-Job<br>Training<br>and Faculty<br>Immersion | Length of training in Industry  | 5 years                          | Faculty<br>members and<br>students of<br>USTP-CDO |
| 98  | Academe-Industry<br>Partnership  | Wilmar Edible Oils<br>Phils. Inc.            | Industry                                      |   | On-the-Job<br>Training                             | Length of training in Industry  | 2 months                         | Faculty<br>members and<br>students of<br>USTP-CDO |
| 99  | Repair,<br>Reconditioning and<br>Fabrication Services<br>for the Coco Coir<br>Machines | Department of Trade<br>and Industry          | Government Agency                             |   | Innovations  | Repaired and reconditioned<br>innovated machines  | January -<br>December 2018       | Cooperatives<br>and livelihood<br>in Barangays    |
| 100 | Misamis<br>Oriental - 1 Rural<br>Electric Service<br>Cooperative, Inc.                 | MORESCO 1                                    | Cooperative prime<br>mover of Electricity     |   | Faculty<br>immersion                               | To be updated on the current<br>trends of Renewable energy,<br>ICT Capability and other<br>engineering related researches | March 2017-March<br>2018         | USTP Faculty                                      |
| 101 | Technology<br>Business Incubation  | DOST - PCIEERD                               | Government Agency                             |   | Business<br>Incubation                             | Delopment and growth of<br>local startups   | October 2016 -<br>September 2018 | Local Startups                                    |
| 102 | Department of<br>Information and<br>Communication<br>Technology                        | DICT   | Government Agency                             |   | ICT Faculty  | Trained ICT faculty   | March 2017-March<br>2018         | USTP Faculty                                      |

## APPENDIX 8

|     | Linkage/<br>Partnership/<br>Collaboration<br>Program  | Partner/Collaborating<br>institution/s   | Institutional type of<br>partner institutions | For international<br>collaborations:<br>Country/ies in<br>partnership/<br>collaboration<br>with | Nature of<br>Partnership/<br>Collaboration    | Deliverables or Desired<br>Output/s  | Validity of<br>Implementation        | Target<br>beneficiaries                                   |
|-----|---|--|---|---|---|--|--------------------------------------|---|
| 103 | Innovuze Solutions,<br>Inc.   | Innovuze Solutions, Inc.   | Private Corporation                           |   | Faculty expertise<br>and Student<br>immersion | 1. Faculty offers technical<br>training and provide for<br>resource speakers/experts<br>2. Assist on IP applications<br>3. Student will publish<br>research related projects | January 8, 2018 -<br>January 8, 2023 | Faculty<br>members<br>& students,<br>of USTP<br>Community |
| 104 | Strengthening<br>the Operational<br>Systems and<br>Innovation<br>Capabilities of<br>NMFIC – An<br>Institutional<br>Support for the<br>Enhancement of<br>NMFIC Operation | "Department of Science<br>and Technology-X (Dir.<br>Alfonso P. Alamban)<br>-Provincial Science and<br>Technology Center of<br>Misamis Oriental (Engr.<br>Junelyn Louvena B.<br>Ruiz)<br>-University of Science<br>and Technology of<br>Southern Philippines<br>(Ruth Guinita-<br>Cabahug,DTE)" | Government                                    |   | Support<br>to NMFIC<br>Operation              |  | March 2018 -<br>February 2019        | NMFIC   |

*List Of Active Partnerships As A Result Of Extension Activities*

|    | Name of Agency   | Title   | Duration/Effectivity              | Status as of December 2018 |
|----|--|---|-----------------------------------|----------------------------|
| 1  | Department of Trade and Industry   | Abaca Coir Machine  | 1 year                            | Completed                  |
| 2  | National Electrification Administration (NEA) and National Center for Electric Cooperative Consumers Organization (NCECCO) | The Power Institute   | November 2017                     | Ongoing                    |
| 3  | Life Project for Youth Organization  | Lanauge and Communication Skills Development for Job Seekers  | March 9, 2018 to December 8, 2018 | Completed                  |
| 4  | Department of Education – Division of Cagayan de Oro City  | Competency Training Workshop for Elementary Science Teachers  | May 28 – June 1, 2018             | Completed                  |
| 5  | Department of Education – Division of Cagayan de Oro City  | Competency Training Workshop for High School Science Teachers   | May 21 to June 1, 2019            | Completed                  |
| 6  | Barangay Council of San Francisco de Asis, El Salvador City  | Computer Literacy/Office Productivity   | June to September 2020            | Completed                  |
| 7  | Barangay Council of San Francisco de Asis, El Salvador City  | Skills Training in Residential Building Wiring Installation   | June to September 2018            | Completed                  |
|    |  | Skills Training in Small Engine Mechanic  |                                   |                            |
| 8  | Vicente N. Chavez Memorial Central School  | Department of SLEC-D: A Mobile Application of Sign Language of English-Cebuano Translator for Deaf and Mute | January to December 2018          | Completed                  |
| 9  | JH Cerilles State College, Pagadian Campus   | Arduino Workshop  | April 18 to 20, 25-27, 2018       | Completed                  |
| 10 | National Commission of Indigenous People   | Computer Concepts and Keyboarding   | May 19, 2018                      | Completed                  |
|    |  | Computer Literacy on Work Processing  | May 20 and 27, 2018               |                            |
|    |  | Computery Literacy on Spreadsheets  | June 2 and 3, 2018                |                            |
|    |  | Computer Literacy on Powerpoint Presentations   | June 9 and 10, 2018               |                            |



## APPENDIX 9

|    | Name of Agency  | Title   | Duration/Effectivity          | Status as of December 2018 |
|----|---|---|-------------------------------|----------------------------|
| 11 | Department of Trade and Industry – Misamis Occidental & Misamis Occidental Police Provincial Office | Livelihood Trainings for Potential and Existing Micro Small and Medium Enterprise                       | 2018 to 2019                  | Completed                  |
| 12 | Municipality of Jasaan  | Website Development   | August 1, 2018                | Completed                  |
| 13 | Army Signal Regiment, 4th Signal Battalion  | Computer Hardware and Software Installation/ Troubleshooting  | June-September, 2018          | Completed                  |
|    |   | Network Technology Training   |                               | Completed                  |
|    |   | Electronics Products Assembly and Servicing   |                               | Completed                  |
| 14 | Department of Environment and National Resources  | Advocacy on Promoting Interest in Environmental Science, Environmental Impact Assessment and Evaluation | Until revoked                 | Completed                  |
| 15 | Department of Education   | Enhancing Public Secondary Mathematics Teachers SEARS MT (SEAMEO) Competence-Phase I and II             | Sept to November, 2018        | Completed                  |
| 16 | Barangay 22   | Environmental Advocacy among Households Living along the Bitan-ag Creek in Barangay 22, CDO City        | August to October 2018        |                            |
| 17 | Institute of Integrated Electrical Engineers of the Philippines                                     | Bigay Liwanag Project   | June to August, 2018          | Completed                  |
| 18 | Department of Education – ICT Service   | Capability Building for IT Officials  | October to November 2018      | Completed                  |
| 19 | Department of Trade and Industry – Misamis Occidental   | Livelihood Trainings for Potential and Existing Micro Small and Medium Enterprise                       | October 2017 to December 2019 | Completed                  |
| 20 | LGU of Panaon, Misamis Occidental   | Mangrove Planting and Coastal Cleanup   | November 2018                 | Completed                  |

*Extension Programs*

|   | Name of Program                                  | Projects/Activities   | Place/Venue                                     | Date of Training/<br>Activity              | Beneficiaries                           |
|---|--|---|---|--|---|
| 1 | Lifelong Learning for Local Government Officials | Computer Literacy Training  | Computer Laboratory USTP                        | January 13, 2018                           | LGU (Opol) employees                    |
|   |  | Training Workshop on Data Processing, Interpretation and Presentation among Barangay Official and Staff of CDOC Phase 2 | USTP ICT Lab                                    | November 6 to 10, 2018                     | Barangay Captains, Councilors and Staff |
| 2 | Competency Enhancement for Science Teachers      | Competency Training Workshop for High School Science Teachers   | USTP Cagayan de Oro                             | May 28 to June 1, 2019                     | Public High School Teachers             |
|   |  | Competency Training Workshop for Elementary Science Teachers (Fun Science, Year 2)                                      | USTP Cagayan de Oro                             | May 28 to June 1, 2018                     | Public Elementary and ALS Teachers      |
| 3 | Competency Enhancement for Mathematics Teachers  | Enhancing Public Secondary Mathematics Teachers SEARS MT (SEAMEO) Competence Year 2, Phase 1                            | USTP-CDO  | Sept 1, 8, 15, 2018                        | Selected Junior High School Teachers    |
|   |  | Enhancing Public Secondary Mathematics Teachers SEARS MT (SEAMEO) Competence Year 2, Phase 2                            | USTP-CDO  | November 17, 24, 2018 and December 1, 2018 | Public High School Math Teachers        |
| 4 | Skills Training for Army Personnel               | Skills Training in Computer and Hardware Installation/Troubleshooting   | USTP Information and Communication Laboratories | July to September 2018                     | 40 Army Personnel                       |
|   |  | Skills Training in Network Technology Training  | USTP Computer Laboratory                        | October 12, 13, 20, 27, 2018               | Army Personnel                          |
|   |  | Skills Training in Electronics Products Assembly and Servicing  | USTP Electronics Laboratory                     | August to September, 2018                  | Army Personnel                          |
| 5 | Capability Building for IT Officials             | Network Infrastructure Training for DepEd Officials – Cluster 1   | La Union  | October 3 to 5, 2018                       | DepEd IT Officials                      |
|   |  | Network Infrastructure Training for DepEd Officials – Cluster 2   | Camiguin  | October 10 to 12, 2018                     | DepEd IT Officials                      |
|   |  | Network Infrastructure Training for DepEd Officials – Cluster 3   | Damaguete                                       | October 17 to 19, 2018                     | DepEd IT Officials                      |
|   |  | Network Infrastructure Training for DepEd Officials – Cluster 4   | Puerto Princesa City                            | October 14 to 16, 2018                     | DepEd IT Officials                      |
|   |  | Network Infrastructure Training for DepEd Officials – Cluster 5   | Butuan City                                     | October 24 to 26, 2018                     | DepEd IT Officials                      |

## APPENDIX 10

|   | Name of Program                          | Projects/Activities    | Place/Venue                   | Date of Training/<br>Activity | Beneficiaries      |
|---|--|------------------------|-------------------------------|-------------------------------|--------------------|
| 6 | Skills Training Program in Plastiknology | Plastiknology Training | USTP Oroquieta Campus         | May 19 to 20, 2018            | Women Residents    |
|   |  | Plastiknology Training | BJMP-Oroquieta City           | May 21 to June 1, 2018        | BJMP Inmates       |
|   |  | Plastiknology Training | Calamba, Misamis Occidental   | April 26 to 27, 2018          | Women of Calamba   |
|   |  | Plastiknology Training | Bonifacio, Misamis Occidental | July 20 to 21, 2018           | Drug Surrenderers  |
|   |  | Plastiknology Training | USTP Oroquieta                | December 14 and 15, 2018      | Indigenous Peoples |



*Extension Services*

| Name of Trainings  | Date conducted        | No. of clients served with technical advice |
|--|-----------------------|---|
| Passion for Fashion: A Training on Passion Fruit Production  | January 25, 2018      | 20  |
| Farmers' Forum on Irrigation Services  | January 15-22, 2018   | 107   |
| Agriculture Trends in Australia and Opportunities for Application under Philippine Setting"                | February 23, 2018     | 313   |
| Ube Production and Processing  | February 21-23, 2018  | 66  |
| Coffee Production and Processing   | February 26-28, 2018  | 30  |
| Soybean Production and Processing  | February 26-28, 2018  | 40  |
| Adlai & Peanut Production and Processing   | March 5-7, 2018       | 168   |
| Yam Production and Processing  | March 7-9, 2018       | 36  |
| Training on Organic Vegetable Gardening, Horticultural Plants and Parliamentary Skills                     | March 10-11, 2018     | 81  |
| Inconvenient Truth About Rice  | March 14, 2018        | 350   |
| Farm Record keeping  | March 22-24, 2018     | 60  |
| Training on Soils and Nutrient Management Strategies in Improving Vegetable Production in Misamis Oriental | May 24-25, 2018       | 80  |
| SARAI Phase II Local Inception and Seminar   | September 10-12, 2018 | 100   |
| Radio University in Backyard Gardening   | Sept 25- Oct 22, 2018 | 140   |
| Radio University on Mushroom Production  | Oct 25- Nov 13, 2018  | 140   |
| Radio University Graduation  | November 27, 2018     | 212   |
| Farmers' Field Day & Agripreneur Summit  | November 28, 2018     | 150   |
| Training on Household Backyard Gardening and Food Safety & Sanitation                                      | December 17, 2018     | 80  |
| Training on Organic Agriculture, Biofertilizer and Record Management                                       | December 18, 2018     | 50  |
| Training on Diversified Integrated Farming and Soil Analysis   | December 19, 2018     | 50  |
| Training on Livestock Management and Poultry Raising   | December 20, 2018     | 80  |
| <b>Total Number of Persons Trained</b>   |                       | <b>2442</b>                                 |

## RESEARCH AND EXTENSION SERVICES

*USTP Claveria***FY 2018:** Number of research studies completed

| Fiscal Year | Number of Research Completed |
|-------------|------------------------------|
| 2018        | 13                           |

**FY 2018:** Research Citations

| Fiscal Year | Journals |
|-------------|----------|
| 2018        | 78       |

\*30 faculty members were cited in journals in 2018

**FY 2018:** Research outputs presented in local, region, national and international fora

| Fiscal Year | Local | Regional | Int'l |
|-------------|-------|----------|-------|
| 2018        | 7     | 7        | 10    |

**FY 2018:** Research outputs published in recognized journal

| Fiscal Year | ISI/Thomson/Scopus | International | National | Clarivate | Total |
|-------------|--------------------|---------------|----------|-----------|-------|
| 2018        | 5                  | 4             | 1        | 24        | 34    |

**FY 2018:** Research outputs submitted for patenting or patented

| Fiscal Year | Patent (Invention/Utility Model) | Industrial Design/Copyright/Trademark |
|-------------|----------------------------------|---------------------------------------|
| 2018        | 30                               | 19                                    |

**FY 2018:** Externally-funded Researches

| Fiscal Year | Research Grant (Amount) | Number of Grants |
|-------------|-------------------------|------------------|
| 2018        | 21, 359, 284            | 2                |

**FY 2018:** Research funding

|          | 2016         | 2017         | 2018         |
|----------|--------------|--------------|--------------|
| Research | 9,972,123.16 | 8,071,590.00 | 5,023,902.00 |

**FY 2018:** Institutional Awards and Recognition in Research and innovation

|          | Number of Awards/Recognition       |
|----------|------------------------------------|
| National | CHED JIP Recognized Journal (MJST) |

**FY 2018:** Percentage of faculty engaged in research/innovation**Advanced Education**

| Fiscal Year | Absolute Value                     | % of faculty |
|-------------|------------------------------------|--------------|
| 2018        | 69                                 | 86.06%       |
| National    | CHED JIP Recognized Journal (MJST) |              |

## Research outputs completed within the year (CY 2018)

|   | Title  | Duration | Date Started  | Date Completed | Proponents  | Funding Type   |
|---|--|----------|---------------|----------------|---|--|
| <b>College of Engineering and Architecture (CEA)</b>      |  |          |               |                |   |  |
| 1   | Development of a Prototype Low Cost Intelligent Solar Powered Water Pumping System   | 12 mos.  | October 2016  | October 2018   | Rojien V. Morcilla<br>Reuel C. Pallugna<br>Leonel L. Pabilona<br>Clark Darwin M. Gozon    | Institutionally-Funded   |
| 2   | Low Cost Biomass Fired Fuel Adaptable Micro Combined   | 24 mos.  | October 2016  | October 2018   | Reuel C. Pallugna<br>Dionel O. Albina<br>Christopher S. Dolino                            | Institutionally-Funded   |
| 3   | Low Cost Intelligent STEM Educational Robotics   | 12 mos.  | January 2017  | January 2018   | Diogenes Armando D. Pascua<br>Bronson G. Mabulay<br>Aileen A. Sieras                      | USAID STRIDE   |
| <b>College of Science and Mathematics (CSM)</b>           |  |          |               |                |   |  |
| 4   | Food Product Development of Tubo Juice with Extended Shelf-life  | 3 mos.   | April 2018    | June 2018      | Wiliva G. Andoy<br>Vilma P. Zacal   | Externally-Funded (Tubo J Proprietor)                                |
| 5   | Meat Processing Development of Culled Duck to Instant Duck Meat-based Food   | 3 mos.   | November 2017 | January 2018   | Wiliva G. Andoy, et al.   | Externally-Funded (Rice Duck Movement, Inc.)                         |
| 6   | Product Design and Processing of Flavored Peanut in a Shell  | 3 mos.   | November 2017 | January 2018   | Jonathan H. Perez<br>Christy Marie V. Alsado  | Externally-Funded (Department of Trade and Industry-Lanao del Norte) |
| <b>College of Science and Technology Education (CSTE)</b> |  |          |               |                |   |  |
| 7   | Integration of Technology in Mathematics Teaching and Learning among School Teachers of Department of Education                            | 12 mos.  | January 2018  | October 2018   | Dennis B. Roble<br>Elmer C. Castellano<br>Marife V. Ubalde<br>Marlon Francis Serifa       | Institutionally-Funded   |
| 8   | Public Mathematics Teachers' Competence: The Southeast Asian Regional Standards (SEAMEO) in Selected Schools Division in Northern Mindanao | 12 mos.  | January 2018  | October 2018   | Laila S. Lomibao<br>Dennis B. Roble<br>Ma. Antonietta A. Bacabac<br>Marlon Francis Serifa | Institutionally-Funded   |



## APPENDIX 13

|   | Title   | Duration | Date Started   | Date Completed | Proponents  | Funding Type  |
|---|---|----------|----------------|----------------|---|---|
| 9   | Culture-Based Video Lessons Production  | 7 mos.   | October 2017   | April 2018     | Fernando T. Capilitan   | National Commission for Culture and the Arts (NCCA) |
| <b>College of Information Technology and Computing (CITC)</b> |   |          |                |                |   |   |
| 10  | Citizen Patrol: A Mobile Application for Crime Incident Reporting and Visualized Web-based Monitoring                 | 8 mos.   | August 2016    | October 2018   | Maricel A. Esclamado<br>Michael P. dela Cruz<br>Jeyran G. Labrador          | Institutionally-Funded                              |
| 11  | GrabTutorSE: A Mobile-based Appointment and Evaluation System for Peer Tutorials among Students in the Tertiary Level | 6 mos.   | May 2018       | October 2018   | Al-Monte Vince M. Calo<br>Jocelyn B. Barbosa<br>Jocelyn L. Garrido          | Institutionally-Funded                              |
| <b>College of Technology (COT)</b>                            |   |          |                |                |   |   |
| 12  | Design and Development of an Instructional Conveyor System  | 12 mos.  | September 2016 | October 2018   | Alenogines L. San Diego<br>Romeo M. de Asis<br>Romano A. Pimentel           | Institutionally-Funded                              |
| 13  | Design and Development of Industrial Control Panel for Mechatronics Standard System and Automation Training Program   | 12 mos.  | August 2016    | October 2018   | Romano A. Pimentel<br>Camilo Jose S. Salvaña III<br>Alenogines L. San Diego | Institutionally-Funded                              |

## APPENDIX 14

### 2018 Research Publication (USTP Cagayan de Oro)

|   | Type of Research                        | Author  | Title of Article   | Name of Journal/ Book   | Vol./Issue/ Pages           | Year of Publication | Publisher  | Editor                   |
|---|---|---|--|---|-----------------------------|---------------------|--|--------------------------|
| 1 | Institutionally Funded Research Project | "Maria Teresa M. Fajardo Gloria R. Patlunag Malinda E. Saarenas"  | Perceived Professional Development Needs Among Public Secondary School Science Teachers                                  | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316   | "Vol.30 No.2 pp. 279-283"   | April 2018          | "Publications International Lahore, Pakistan"      | Prof. Dr. M. Azam Sheikh |
| 2 | Faculty Initiated Project               | "Dennis A. Apuan, John Fruto, Teresita Perez, Rene Juan Claveria, Mars Tan, Mary Jean Apuan, Elaine Perez (XU)" | Phytostabilization Potential of Saccharum spontaneum in chromium contaminated soil                                       | "Clarivate Analytics Journal of Biodiversity and Environmental Science (JBES) ISSN: 2220-6663 eISSN: 2222-3045  | "Vol. 13 No. 4 pp. 116-123" | 2018                | International Network for Natural Sciences-INNSPUB | Dr. M. Anowar Razy       |
| 3 | Faculty Initiated Project               | Ramir Phillip Jones V. Sonsona  | Exploring Millennials' Engagement with Youtube and Media Usage and Needs Gratifications                                  | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316"  | Vol. 30 No. 5 pp. 731-734   | 2018                | "Publications International Lahore, Pakistan"      | Prof. Dr. M. Azam Sheikh |
| 4 | Faculty Initiated Project               | "Jade Cassandra P. Ejem Jessa G. padero Yuraya O. Palasan Wendell T. Talampas Gina C. Lacang"                   | Biomass Profiling of Identified Wood and Non-Wood Resources in Miasamis Oriental and Bukidnon, Philippines               | "Clarivate Analytics Journal of Biodiversity and Environmental Science (JBES) ISSN: 2220-6663 eISSN: 2222-3045" | "Vol. 12 No. 6 pp. 263-272" | June 30, 2018       | International Network for Natural Sciences-INNSPUB | Dr. M. Anowar Razy       |
| 5 | Faculty Initiated Project               | Maria Teresa M. Fajardo   | Reading Infusion Activities and its Effect on Students' Chemistry Achievement and Attitude                               | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316"  | "Vol.30 No.2 pp. 267-270"   | April 2018          | "Publications International Lahore, Pakistan"      | Prof. Dr. M. Azam Sheikh |
| 6 | Faculty Initiated Project               | Rosie G. Tan  | Strengthening the Students' Achievement in Mathematics through Problem Posing  | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316"  | "Vol. 30 No. 2 pp. 229-232" | April 2018          | "Publications International Lahore, Pakistan"      | Prof. Dr. M. Azam Sheikh |
| 7 | Faculty Initiated Project               | "Vima Socorro J. Tandog Art Walden A. Dejoras "   | Shuffled Practice Format of Mathematics Problem Solving: Its Effects on Student Performance and Mathematics Test Anxiety | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316"  | "Vol. 30 No. 2 pp. 249-253" | March-April 2018    | "Publications International Lahore, Pakistan"      | Prof. Dr. M. Azam Sheikh |

## APPENDIX 14

|    | Type of Research          | Author   | Title of Article  | Name of Journal/ Book   | Vol./Issue/ Pages            | Year of Publication | Publisher   | Editor                    |
|----|---------------------------|--|---|---|------------------------------|---------------------|---|---------------------------|
| 8  | Faculty Initiated Project | "Dennis B. Roble<br>Laila S. Lomibao<br>Charita A. Luna<br>"   | Enhancing Students' Mathematics Creativity in Calculus through Pre-Within-Post Problem Posing Tasks   | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316"  | "Vol. 30 No. 2 pp. 255-261"  | April 2018          | "Publications International Lahore, Pakistan"                                 | Prof. Dr. M. Azam Sheikh  |
| 9  | Faculty Initiated Project | "Janneth Q. Rondina,<br>Charita A. Luna, Dennis A. Tarepe"   | Strengthening the Students' Achievement and Reducing Anxiety in Mathematics Through Kinesthetic Teaching Technique                            | "Clarivate Analytics Science International Lahore ISSN: 1013-5316"  | "Vol. 30 No. 3 pp. 477-480"  | May-June 2018       | Publications International Lahore, Pakistan                                   | Dr. M. Azam Sheikh        |
| 10 | Faculty Initiated Project | Maria Teresa M. Fajardo  | "Practice and Quality of Living Environment of High Dengue incidence and Low Dengue incidence Communities: A Comparative Study"               | "Clarivate Analytics Journal of Biodiversity and Environmental Science (JBES) ISSN: 2220-6663 eISSN: 2222-3045" | "Vol. 13 No. 2 pp. 163-172"  | August 14, 2018     | International Network for Natural Sciences-INNSPUB                            | Dr. M. Anowar Razy        |
| 11 | Faculty Initiated Project | "Richel E. Relox<br>Leonardo Florece (UPLB)"   | Responses of Fruit Bats to Physical Factors of Selected Forest Patches in Mt. Kitanglad Range, Bukidnon, Philippines                          | "Clarivate Analytics Journal of Biodiversity and Environmental Science (JBES) ISSN: 2220-6663 eISSN: 2222-3045" | "Vol. 12 No. 3 pp. 324-333"  | March 30, 2018      | International Network for Natural Sciences-INNSPUB                            | Dr. M. Anowar Razy        |
| 12 | Faculty Initiated Project | "Antonio-Abdu Sami M. Magomnang<br>Sergio C. Capareda (Texas A & M University)"  | Effects of Sequential Sodium Hydroxide Ultrasonication and Hot Water Treatment of Rice Straw and Coconut Shell on Biogas Production           | "Clarivate Analytics Indian Journal of Science and Technology ISSN: 0974-6846 eISSN: 0974-5645"                 | "Vol. 11 No. 18 pp. 1-12"    | May 2018            | Indian Society for Education and Environment & Informatics Publishing Limited | Prof. Natarajan Gajendran |
| 13 | Faculty Initiated Project | "Florife D. Liwanag,<br>Daniel Mostrales,<br>Kristine Sanchez, Ruben Tudio, Vincent Malales,<br>and Ma. Teresa Ignacio (MSU-IT)" | GIS-based Estimation of Catchment Basin Parameters and Maximum Discharge Calculation using Rational Method of Luinab Catchment in Iligan City | "Clarivate Analytics Philippine Journal of Science ISSN: 0031-7683"   | "Vol. 147 No. 2 pp. 327-342" | June 2018           | Manila : Bureau of Science  | Dr. Caesar A. Saloma      |



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|    | Type of Research                 | Author   | Title of Article   | Name of Journal/ Book   | Vol./Issue/ Pages                       | Year of Publication | Publisher   | Editor                    |
|----|----------------------------------|--|--|---|---|---------------------|---|---------------------------|
| 14 | Faculty Initiated Project        | "Liezl M. Jabile, Reynaldo M. Vequizo, Romnick B. Unabia, Jun Rey S. Lincuna, Majvell kay G. Odarve-Vequizo and Shigenobu R. Miñoza (MSU-IIT)" | Structural, Crystallographic and Morphological Properties of Microwave-Assisted Growth of Nano-Apatite Powders   | "Scopus Materials Today: Proceedings eISSN: 2214-7853"  | "Vol. 5 Issue 7 Part 1 pp. 14824-14829" | June 11, 2018       | Elsevier B.V.   | S. Bland                  |
| 15 | Faculty Initiated Project        | "Mary Jean D. Salvaña Alma N. Abug"  | Reduction Estimates of CO2 Emission at the Relocation Site of Typhoon Victims: An Alternative to Climate Resiliency  | "Clarivate Analytics Journal of Biodiversity and Environmental Science (JBES) ISSN: 2220-6663 eISSN: 2222-3045" | "Vol. 13 No. 5 pp. 83-90"               | November 5, 2018    | International Network for Natural Sciences-INNSPUB                            | Dr. M. Anowar Razy        |
| 16 | Externally-Funded Project (DENR) | "Wendel D. Talampas Ruel C. Cabahug"   | Morphotectonic Characteristics of the Iponan River Watershed in Cagayan de Oro City, Philippines   | "Clarivate Analytics Mindanao Journal of Science and Technology ISSN: 2244-0410/2449-3686"                      | "Vol. 16 pp. 115-131"                   | 2018                | University of Science and Technology of Southern Philippines                  | Dr. Ruel R. Cabahug       |
| 17 | Faculty Initiated Project        | "Rhoda A. Namoco Kathleen C. Mendoza, Raymond O. Pailagao, Jenefer B. Vallar"  | Optimizing Nutrient Intake of Holstein Dairy Cattle during Early Lactation using Locally Available By-Products   | "Clarivate Analytics Indian Journal of Science and Technology ISSN: 0974-6846 eISSN: 0974-5645"                 | "Vol. 11 Issue 27 pp. 1-7"              | July 2018           | Indian Society for Education and Environment & Informatics Publishing Limited | Prof. Natarajan Gajendran |
| 18 | Faculty Initiated Project        | "Consorcio S. Namoco Jr. Jeffrey Balangao F.J. Podioton A.E.C. Ambolode, N.M. Anacleto (MSU-IIT)"  | Production of Iron-Chromium-Nickel Metal Alloys via Reduction of Mixed Chromite Ore from Zambales and Laterite Ore from Taganito, Surigao del Norte under Argon Atmosphere | "Clarivate Analytics Indian Journal of Science and Technology ISSN: 0974-6846 eISSN: 0974-5645"                 | "Vol. 11 Issue 37 pp. 1-11"             | October 2018        | Indian Society for Education and Environment & Informatics Publishing Limited | Prof. Natarajan Gajendran |
| 19 | Faculty Initiated Project        | "Consorcio S. Namoco Jr. Lilibeth Coronel (MSU Naawan) Wilfredo Badoy (Ateneo de Davao)"   | Identification of an Efficient Filtering-Segmentation Technique fro Automated Counting of Fish Fingerlings   | "Clarivate Analytics The International Arab Journal of Information Technology ISSN: 1683-3198"                  | "Vol. 15 No. 4 pp. 708-713"             | July 2018           | Zarka Private University  | Dr. Mohammad Hassan       |

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|    | Type of Research          | Author   | Title of Article   | Name of Journal/ Book   | Vol./Issue/ Pages              | Year of Publication | Publisher  | Editor                    |
|----|---------------------------|--|--|---|--------------------------------|---------------------|--|---------------------------|
| 20 | Faculty Initiated Project | Jennefer O. Parcutilo  | Does Paired Formative Assessment Enhance Mathematics Performance?  | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316"  | "Vol. 30 No. 5 pp. 771-442"    | October 2018        | "Publications International Lahore, Pakistan"                | Prof. Dr. M. Azam Sheikh  |
| 21 | Faculty Initiated Project | "Marife V. Ubalde<br>Cyrille Mae D. Rosales"   | Predictive Efficacy of Student and Teacher Related Factors on Students' Mathematics Learning                                   | "Clarivate Analytics Science International (Lahore) ISSN: 1013-5316"  | "Vol. 30 No. 6 pp. 819-823"    | November 2018       | "Publications International Lahore, Pakistan"                | Prof. Dr. M. Azam Sheikh  |
| 22 | Faculty Initiated Project | "Anna Fay A. Edulsa<br>Marylene S. Eder<br>Kenn Geno G. Malinao<br>Dexter L. Duat"         | Heatmobi: Temperature and Humidity Monitoring for Household and Warehouse Mobile Application                                   | "Clarivate Analytics Indian Journal of Science and Technology ISSN: 0974-6846 (print); 0974-5645 (online)"                    | "Volume 11, No. 47 pp. 1-7"    | 2018                | Indian Society for Education and Environment                 | Prof. Natarajan Gajendran |
| 23 | Faculty Initiated Project | "Maria Antonieta A. Bacabac<br>Dennis B. Roble<br>Garry Becoy"                             | Teachers' Beliefs on the Nature of mathematics and Its Implications to the teaching and Learning of Mathematics                | "Clarivate Analytics Science International (Lahore) ISSN:1013-5316"   | "Volume 30, No. 6 pp. 833-836" | 2018                | "Publications International Lahore, Pakistan"                | Prof. Dr. M. Azam Sheikh  |
| 24 | Faculty Initiated Project | "Ruel R. Cabahug<br>Arguita, MB<br>Dela Torre, S.M.E<br>Valledor, M.S.<br>Olivares, SM.D." | Factors Influencing the Delay of Road Construction Projects in Northern Mindanao   | "Clarivate Analytics Mindanao Journal of Science and Technology ISSN: 2244-0410/2449-3686"                                    | "Vol. 16 pp. 213-223"          | 2018                | University of Science and Technology of Southern Philippines | Dr. Ruel R. Cabahug       |
| 25 | Faculty Initiated Project | "Sofia C. Naelga<br>Oliva P. Canencia"   | Product Variations, Formulation and Marketability of Stevia Leaf Extract as Organic Sweetener for Bread and Pastry             | "Clarivate Analytics International Journal of Advanced Biotechnology and Research ISSN: 0976-2612 (print) 2278-599x (online)" | "Vol. 9 Issue 4 pp. 282-306"   | November 2018       | BiolT International Journals                                 | Prof. Vasudeo Zambare     |
| 26 | Faculty Initiated Project | "Ruelson S. Solidum<br>Arnold C. Alguno (MSU-IIT)<br>Rey Capangpangan (CSU)"               | Controlling the Surface Plasmon Absorption of Silver Nanoparticles via Green Synthesis Using Pennisetum purpureum Leaf Extract | "Scopus Key Engineering Materials ISSN: 1662-9795 eISSN: 1013-9826"   | "Vol.772/ pp. 73-77"           | July 4, 2018        | Trans Tech Publications Inc.                                 | Prof. Erian A. Armanios   |
| 27 | Faculty Initiated Project | "Marycris P. Egot<br>Arnold C. Alguno (MSU-IIT)"   | Preparation and Characterization of Cellulose Acetate from Pineapple (Ananas comosus) Leaves                                   | "Scopus Key Engineering Materials ISSN: 1662-9795 eISSN: 1013-9826"   | "Vol. 772/ pp. 8-12"           | July 2018           | Trans Tech Publications Inc.                                 | Prof. Erian A. Armanios   |

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|    | Type of Research          | Author  | Title of Article  | Name of Journal/ Book   | Vol./Issue/ Pages                                   | Year of Publication  | Publisher                       | Editor                  |
|----|---------------------------|---|---|---|---|----------------------|---------------------------------|-------------------------|
| 28 | Faculty Initiated Project | "Kenneth M. Senados<br>Reynaldo M. Veqizo<br>(MSU-IIT)"                                 | "Effects of Thermal Annealing on the Diode Properties and Space Charge Limited Conduction of the Physical Vapor- Deposited n-ZnS/p-Si (1000) heterojunctions" | "Scopus<br>Materials Today:<br>Proceedings<br>eISSN: 2214-7853"   | "Vol.5<br>pp. 15174-15179"                          | July 2018            | Elsevier B.V.                   | S. Bland                |
| 29 | Faculty Initiated Project | "Yamilita M. Pabilona<br>Helen M. Rara (MSU-IIT)"                                       | Connected Hop Domination in Graphs under some Binary Operations   | "Scopus<br>Asian-European Journal of Mathematics<br>ISSN: 1793-5571"  | "Vol. 11<br>No. 5<br>pp. 1850075-1 -<br>1850075-11" | August 2018          | World Scientific                | Jorg Koppitz            |
| 30 | Faculty Initiated Project | "Leonel L. Pabilona<br>Jonas-Noe P. Belitor<br>Eliseo Villanueva (MSU-IIT)"             | A Performance Evaluation and Optimization of a 135MW Circulating Fluidized Bed (Cfb) Coal Based Thermal Power Plant Turbine Cycle using Exergy Analysis       | "International Refereed<br>Innovative Energy and Research<br>ISSN: 2576-1463"   | "Vol. 7<br>Issue 2<br>pp. 1-11"                     | 2018                 | OMICS<br>International          | B.V. Babu               |
| 31 | Faculty Initiated Project | "Leonel L. Pabilona<br>Jameson R. Almedilla<br>Eliseo Villanueva (MSU-IIT)"             | Performance Evaluation and Off Design Analysis of the HP and LP Feed Water Heaters on a 3x135MW Coal Fired Power Plant  | "International Refereed<br>Journal of Applied<br>Mechanical Engineering<br>ISSN: 2168-9873"                                       | "Vol. 7<br>Issue 3<br>pp. 1-4"                      | 2018                 | OMICS<br>International          | Chuan Chiang Chen       |
| 32 | Faculty Initiated Project | "Reuel Pallugna<br>Clark Darwin M. Gozon<br>Dionel O. Albina"                           | Integration of Off-grid PV/ Wind Hybrid and On-grid PV System Using an Isolated Bi-directional DC-DC Converter  | "International Refereed<br>International Journal on Power Engineering and Energy<br>ISSN: Print 2314-7318 and Online (2314-730x)" | Vol. 9 no.3 pp.<br>851-861                          | 2018                 | INFOMESR                        | Prof. Waheed Sabry      |
| 33 | Faculty Initiated Project | "Kathleen E. Padrigalan<br>Ruvel J. Cuasito<br>Charlie L. Miparanum Jr."                | Optimization of a Low-Cost Programmable Logic Controller Educational Trainer  | "International Refereed<br>International Journal<br>of Engineering and<br>Techniques<br>ISSN: 2395-1303"                          | "Vol. 4/ Issue 6/<br>pp. 143-151"                   | December 11,<br>2018 | International<br>Research Group | Prof. Galal Ali Hassaan |
| 34 | Faculty Initiated Project | Francis Thaise A. Cimene<br>and Fiona Mary M.<br>Cabrillos, Maria Eliza D.<br>Santander | Language and Maratabat: A Potential Source of Ethnic Conflict   | "National Refereed<br>Asia Pacific Journal for<br>Social and Behavioral<br>Sciences<br>ISSN: 1656-5207<br>eISSN: 2599-4891"       | "Vol. 15<br>"                                       | December 27,<br>2018 | Bukidnon State<br>University    | Dr. Maribel G. Valdez   |



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2018 Research Publication (USTP Claveria)

| Title of Research   | Proponents/ Authors                              | Title of Journal/Book                   | Year of Publication | Publisher      | Extent of Circulation |
|---|--|---|---------------------|----------------|-----------------------|
| Optimization of oil yield from Hevea brasiliensis seeds through ultrasonic-assisted solvent extraction via response surface methodology                   | Mabayo, VF<br>Ido, AL<br>Arazo, RO<br>Cagas, D   | Sustainable Environment Research        | 2018                | Elsevier, Inc. | International         |
| Ultrasound-assisted synthesis of adsorbents from groundwater treatment residuals for hexavalent chromium removal from aqueous solutions                   | Arazo, RO  | Groundwater for Sustainable Development | 2018                |                |                       |
| Optimization bio-oil yield from Swietenia macrophylla seeds via ultrasonic cavitation through response surface methodology                                | Joyno, JR<br>Joyno, CQ<br>Arazo, RO<br>Ido, AL   | Energy, Ecology and Environment         | 2018                |                |                       |
| Increased bio-oil yield from Swietenia macrophylla seeds through microwave pretreatment and ultrasonic-assisted solvent extraction                        | Joyno, JR<br>Joyno, CQ<br>Arazo, RO<br>Ido, AL   | Sustainable Environment Research        | 2018                | Elsevier, Inc. | International         |
| A cost-effective approach for chicken egg weight estimation through computer vision   | Aragua, A<br>Mabayo, VF                          |   |                     |                |                       |
| Application of central composite design in the optimization of lipid yield from Scenedesmus obliquus microalgae by ultrasonic-assisted solvent extraction | Ido, AL  | Energy                                  | 2018                |                |                       |
| Assessing bioethanol extraction potential from waste pulps of cassava (Manihot esculenta Crantz) via aerobic fermentation                                 | Icalina, MA<br>Cubio, GM<br>Arazo, RO<br>Ido, AL |   | 2018                | Springer       | International         |

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| Title of Research   | Proponents/ Authors                | Title of Journal/Book                                       | Year of Publication | Publisher                | Extent of Circulation |
|---|------------------------------------|---|---------------------|--------------------------|-----------------------|
| Efficiency of Calcium Carbonate from Eggshells as an Adsorbent for Cadmium Removal in Aqueous Solution  | Tizo, M<br>Arazo, RO<br>Mabayo, VI | Sustainable Environment Research                            | 2018                | Elsevier, Inc.           | International         |
| Optimization and characterization of bio-oil produced from Ricinus communis seeds via ultrasonic-assisted solvent extraction                            | Arazo, RO<br>Ido, AL<br>Tizo, M    | Sustainable Environment Research                            | 2018                | Elsevier, Inc.           | International         |
| Productivity and Fruit Quality of Red-fleshed Dragon Fruit, <i>Hylocereus polyrhizus</i> (Britton and Rose) under Jasaan Series                         | Gonzaga, NR<br>Gonzaga, AB Jr.     | Journal of Multidisciplinary Studies<br>Vol. 6, Issue No. 2 | 2018                |                          | National              |
| Physiological Efficiency of Corn-legumes Intercropping Systems under Conservation Agriculture Practice Systems (CAPS) in Northern Mindanao, Philippines | Gonzaga, AB Jr.                    | Mindanao Journal of Science and Technology Vol.16           | 2018                |                          | National              |
| Growth and Yield Response of Lettuce and Tomato Grown Under Drip or Manual Irrigation   | Gonzaga, NR<br>Gonzaga, AB Jr.     | Annals of Tropical Research                                 | 2017                | Visayas State University | International         |
| Growth and Yield Performance of Lettuce ( <i>Lactuca sativa</i> Linn) under Protected and Conventional Cultivation                                      | Gonzaga, NR                        | Annals of Tropical Research                                 | 2017                | Visayas State University | International         |
| Performance of Fresh Market Tomato ( <i>Solanum lycopersicum</i> Mill) Lines as Influenced by Pruning   | Gonzaga, NR<br>Gonzaga, AB Jr.     | Annals of Tropical Research                                 | 2017                | Visayas State University | International         |

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| Title of Research   | Proponents/ Authors  | Title of Journal/Book           | Year of Publication | Publisher | Extent of Circulation |
|---|--|---------------------------------|---------------------|-----------|-----------------------|
| Participatory implementation of improving productivity and fruit quality of durian (Durio zibethinus) by enhanced fertilization in Southern Philippines”    | Gonzaga, NR<br>Gonzaga, AB Jr<br>Cabahug, LM                   | Acta Horticulturae 1213         | 2018                | ISHS      | International         |
| Phenotypic and postharvest characterization of potential tomato (Solanum lycopersicum L.) lines for mid-elevation farmers of Northern Mindanao, Philippines | Gonzaga, NR<br>Gonzaga, AB Jr.<br>Alcantara, CG<br>Quirino, RA | Acta Horticulturae 121          | 2018                | ISHS      | International         |
| Response of High-yielding Upland Rice to Fertilization for Intensive Nutrient Production System   | Taylaran, RD<br>Gonzaga, AB Jr.                                | PRISM Multidisciplinary Journal | 2018                |           | National              |



## List of Best Papers

| USTP Claveria                |   |
|------------------------------|---|
| RANK                         | TITLE OF PAPER  |
| COMPLETED RESEARCH AFNR      |   |
| 1 <sup>st</sup>              | Assessing bioethanol extraction potential from wastes pulps of cassava ( <i>Manihot esculenta</i> ) via aerobic fermentation<br>Researchers:<br><i>Mark Anthony A. Icalina, Reymar H. Jaro, Don Nelson C. Potato, Romnick T. Talemporos, Lover G. Manuel, Princess M. Napinas, Greg M. Cubio, Alexander L. Ido, Renato O. Arazo</i>             |
| 2 <sup>nd</sup>              | Response surface optimization of biogas production from wastes pulps of Cassava ( <i>Manihot esculenta</i> Cranz) via anaerobic digestion<br>Researcher:<br><i>Mark Anthony A. Icalina, Reymar H. Jaro, Don Nelson C. Potato, Romnick T. Talemporos, Lover G. Manuel, Princess M. Napinas, Greg M. Cubio, Alexander L. Ido, Renato O. Arazo</i> |
| 3 <sup>rd</sup>              | Increased bio-oil yield from Swietenia macrophylla seeds via ultrasonic-assisted solvent extraction<br>Researchers:<br><i>Rey P. Gumaling, Jay R E. Agusan, Neil Ven Cent R. Ellacer, Gretel Mary T. Abi Abi, Jasmin Roxatte P. Pajaron, Jose Rey Q. Joyno, Alexander L. Ido, Renato O. Arazo</i>   |
| ON-GOING RESEARCH AFNR       |   |
| 1 <sup>st</sup>              | Enhance yield of red-fleshed dragon fruit ( <i>Hylocereus costarinsis</i> Weber) as influenced by different levels of Phosphorus under Southern Philippines<br>Researchers:<br><i>Nelda R Gonzaga, Apolinario B Gonzaga, Jr, Rainier I Pajinag , and Rosalito A Quirino</i>   |
| 2 <sup>nd</sup>              | Characterization of Phenological Stages using BBCH Scale under Claveria Ecological Condition<br>Researchers:<br><i>Rainier I Pajinag, Apolinario B Gonzaga Jr, Nelda R Gonzaga, Rosalito A Quirino</i>  |
| COMPLETED RESEARCH NON- AFNR |   |
| 1 <sup>st</sup>              | Typology of small-scale Falcata seedling growers in Region 10<br>Researchers<br><i>Micheal Arie P. Medina, Richmund A. Palma, Medardo G. Cosadio, Imelda U. Hebron, Joevil Pepania, Ma. Mona Michelle Delada, Rosalito A. Quirino, Luderick A. Monsanto II</i>  |
| 2 <sup>nd</sup>              | Impact monitoring and evaluation of i-HELP extension<br>Researchers:<br><i>Mario T. Blane, Cielo R. Tion, Alphany D. Aragua, Glenfford L. Esparcia, Maribel R. Soriso, Estrella L. Paguidopon, Jose Rey Jpyno, Val Irvin F. Mabayo, Grace Vergie P. Nillama, Mayflor Basco, Alexander L. Ido, Renato O. Arazo</i>                               |
| 3 <sup>rd</sup>              | Women in Tobacco Farms of Claveria, Misamis Oriental<br>Researchers:<br><i>Dennis A. Mugot, Ramil S. Pagon, Isabelita C. Bodbod, Maribel S. Tizo, Rudelyn A. Molina</i>   |

## APPENDIX 15

| THESES/DISSERTATIONS |   |
|----------------------|---|
| 1 <sup>st</sup>      | Estimation of soil sediment yield of the four corn mono-cropping systems in Claveria, Southern Philippines as influenced by rainfall using the Water Erosion Prediction Project<br>Researcher:<br>Grace Vergie P Nillama  |
| 2 <sup>nd</sup>      | Growth, yield and pH quality of lettuce ( <i>Lactuca sativa</i> L.) in response to N application and methods of irrigation under open field cultivation<br>Researcher:<br>Elenita P Salinas   |
| 3 <sup>rd</sup>      | Nutrient use efficiency and performance of cabbage ( <i>Brassica olearaceae</i> L.) genotype in response to levels of N fertilizers<br>Researcher:<br>Chona Q Allego  |
| POSTER               |   |
| 1 <sup>st</sup>      | Yield Performance of Cassava as Influenced by Methods of Planting<br>Researcher:<br>Apolinario B Gonzaga Jr., Nelda R Gonzaga, Duff M Sarausa, Melecyn Jane Alcarde, Rosalito A Quirino, Cyril John Nagal   |
| 2 <sup>nd</sup>      | Phenological Growth Stages of Red fleshed Dragon Fruit ( <i>Hylocereus polyrhilus</i> Britton and Rose) using Extended BBCH Scale under Southern Philippines Condition<br>Researcher:<br>Apolinario B Gonzaga Jr., Nelda R Gonzaga, Rainier I Pajinag, Rosalito A Quirino, Cyril John Nagal |
| 2 <sup>nd</sup>      | Optimization of oil yield from <i>Hevea brasiliensis</i> seeds through ultrasonic-assisted solvent extraction via response surface methodology<br>Researcher:<br>Mabayo VF, Aranas JRC, Cagas DP, Cagas VJ  |
| 3 <sup>rd</sup>      | Nutrient and In vivo digestibility of Hybrid <i>Brachiaria</i> with and without <i>Arachis pintoi</i><br>Researcher:<br>Imelda U Hebron   |
| 3 <sup>rd</sup>      | Optimization of process parameters in the upgrading of <i>Scenedemus obliquus</i> oil into green gasoline by nickel-impregnated biochar catalyst<br>Researcher:<br>Alexander L Ido  |

Paper presentations in regional, national and international fora and scientific conferences

USTP Cagayan de Oro

| Presenter/Author                                   |  | Title of Research Paper  | Title, Venue and Date of Conference where the Research Output was Presented                           |                                    |                      |  |
|--|--|--|---|------------------------------------|----------------------|--|
|  |  |  | Title   | Venue                              | Date                 | Organizer  |
| International Conference                           |  |  |   |                                    |                      |  |
| College of Science and Technology Education (CSTE) |  |  |   |                                    |                      |  |
| 1.   | Maria Teresa M. Fajardo*                           | Incorporating Lesson Study into Student Teachers' In-Campus Practice: Challenges and Sustainability Issues                                   | ISERD - 466th International Conference on Education and E-Learning (ICEEL)                            | Bangkok, Thailand                  | October 21-22, 2018  | ISERD  |
| 2.   | Laila S. Lomibao*Janeth Q. RondinaTito M. Mariquit | Enriching Mathematics Practice-Teaching Experience through Lesson Study  | World Association of Lesson Studies (WALS) International Conference 2018                              | Beijing, P.R. China                | November 23-26, 2018 | Beijing Normal University                                    |
| 3.   | Sofia C. Naelga                                    | Product Variation, Formulation and Marketability of Fresh Stevia (Rebuadiana Bertoni) Leaf Extract as Organic Sweetener for Bread and Pastry | 480th ICSTM: International Conference on Science, Technology and Management                           | Hotel Miel-parque, Yokohama, Japan | October 8-9, 2018    | ICSTM  |
| 4.   | Victor S. Rosales Adviser: Alenogines L. San Diego | Expanded Training Module for Electrical Installation and Maintenance National Certificate Level Two  | 2nd International Conference on Recent Innovations in Business, Economics and Social Sciences (RIBES) | Hotel H2O Manila                   | December 14-15, 2018 | Research Publication & Innovation Centre Philippines (RRICP) |
| 5.   | Bernardo T. Crisologo Adviser: Sofia C. Naelga     | Innovated Product on Fish Tilapia (Oreochromis niloticus) Dumplings  | 3rd International Conference on Recent Innovations in Business, Economics and Social Sciences (RIBES) | Hotel H2O Manila                   | December 14-15, 2019 | Research Publication & Innovation Centre Philippines (RRICP) |
|  |  |  |   |                                    |                      |  |
| 6.   | Anabelle C. Dumaog Adviser: Sofia C. Naelga        | Acceptability of Vipers Bowstring (Sanseviera trifasciata) Fiber as a Raw Material for Handicraft Products Cagayan de Oro City               | 4th International Conference on Recent Innovations in Business, Economics and Social Sciences (RIBES) | Hotel H2O Manila                   | December 14-15, 2020 | Research Publication & Innovation Centre Philippines (RRICP) |
| 7.   | Sofia C. Naelga                                    | Physico-Chemical Properties, Microbial Analyses and Acceptability of Fern (Diplazium esculentum (Retz.) Sw.) Pesto                           | 5th International Conference on Recent Innovations in Business, Economics and Social Sciences (RIBES) | Hotel H2O Manila                   | December 14-15, 2021 | Research Publication & Innovation Centre Philippines (RRICP) |



| Presenter/Author  |   | Title of Research Paper   | Title, Venue and Date of Conference where the Research Output was Presented                                       |   |                      |  |
|---|---|---|---|---|----------------------|--|
|   |   |   | Title   | Venue   | Date                 | Organizer  |
| 8.  | Gina C. Lacang*<br>Mariel Jane T. Cuerquis<br>Kristine Jade P. Quirante                   | Bioaccumulation of Lead, Mercury and Nitrated of Macrobrachium rosenbergii (Shrimp) as Indicator of Water Pollution in Iponan River, Cagayan de Oro City                      | 11th International Conference and Scientific Meeting of the Philippine Network of Educators on Environment (PNEE) | Northern Iloilo Polytechnic State College, Estancia, Iloilo   | October 17-19, 2018  | PNEE   |
| 9.  | Richel Relox*<br>Crismie Ann G. Cailing<br>John Luigi S. Caban<br>Rae Kristine M. Cultura | Avifauna in the Rehabilitated Mangrove Forest, Laguindingan, Misamis Oriental   | 11th International Conference and Scientific Meeting of the Philippine Network of Educators on Environment (PNEE) | Northern Iloilo Polytechnic State College, Estancia, Iloilo   | October 17-19, 2018  | PNEE   |
| <b>College of Engineering and Architecture (CEA)</b>          |   |   |   |   |                      |  |
| 10.   | Antonio Abdu-Sami M. Magomnang*   | Effects of Sequential Pretreatment of Rice Straw and Coconut Shell for Improved Biomethane Production   | 7th International Multi-Conference on Engineering and Technology Innovation 2018                                  | Taoyuan, Taiwan   | 6-Nov-18             | IMETI 2018   |
| <b>National Conference</b>                                    |   |   |   |   |                      |  |
| <b>College of Science and Mathematics (CSM)</b>               |   |   |   |   |                      |  |
| 11.   | Ramir Philip Jones V. Sonsona   | Traversing MTB-MLE's Language Policy: Establishing Academic Development for Lifelong Learning   | 2nd National Conference Workshop on Language and Literature 2018 (NCWoLL 2018)                                    | MSU-IIT, Iligan City  | November 15-17, 2018 | Department of English, MSU-IIT                     |
| <b>College of Engineering and Architecture (CEA)</b>          |   |   |   |   |                      |  |
| 12.   | Adonis A. Closas<br>Eliseo P. Villanueva  | Determination of Specific Moisture Evaporation Rate, Energy Consumption and Specific Energy Consumption at Varying Sample Load Capacity per Batch Drying in a Heat Pump Dryer | 66th Philippine Society of Mechanical Engineers (PSME) Annual National Convention                                 | SMX Convention Center, MOA Complex, Pasay City                | October 17-20, 2017  | PSME 2018  |
| <b>College of Information Technology and Computing (CITC)</b> |   |   |   |   |                      |  |
| 13.   | Miriam A. Mejias<br>Roberto A. Del Rosario Jr.<br>Mary Ann M. Ramos                       | Development of an Automated Machine for Defective Corn Segregation and Classification of Diplodia Ear Rot and Gibberella Ear Rot Diseases                                     | 2018 ICpEP National Conference on Computer Applications, Innovations, Technologies and Engineering (CAITE 2018)   | Hotel Supreme Convention Plaza, Magsaysay Avenue, Baguio City | November 26-29, 2018 | Institute of Computer Engineers of the Philippines |

| Presenter/Author  | Title of Research Paper  | Title, Venue and Date of Conference where the Research Output was Presented          |   |                      |  |
|---|--|--|---|----------------------|--|
|   |  | Title  | Venue   | Date                 | Organizer  |
| 14. Miriam A. Mejias<br>Jezam L. Zamora<br>James Albert B. Mira<br>Thea Roselle C. Quiando                            | 2018 ICpEP National Conference on Computer Applications, Innovations, Technologies and Engineering ( CAITE 2018)   | Aerial Footage Scanner for Rice Field Damage ussing Quadcopter with Mission Planning | Hotel Supreme Convention Plaza, Magsaysay Avenue, Baguio City | November 26-29, 2018 | Institute of Computer Engineers of the Philippines |
| 15. Jodie Rey D. Fernandez<br>Kim F. Yacapin<br>Lea N. Sevilla  | 2018 ICpEP National Conference on Computer Applications, Innovations, Technologies and Engineering ( CAITE 2018)   | Sign Language Gesture Translation Using Pattern Recognition                          | Hotel Supreme Convention Plaza, Magsaysay Avenue, Baguio City | November 26-29, 2018 | Institute of Computer Engineers of the Philippines |
| 16. Aileen A. Sieras<br>Charles Matthew G. Coming   | 2018 ICpEP National Conference on Computer Applications, Innovations, Technologies and Engineering ( CAITE 2018)   | Mobile-based Application for Monitoring of Water Supply in the Rice Fields           | Hotel Supreme Convention Plaza, Magsaysay Avenue, Baguio City | November 26-29, 2018 | Institute of Computer Engineers of the Philippines |
| 17. Mary Ann E. Telen<br>Wencel Jean S. Carranza<br>Maricel C. Dalde<br>Aileen A. Sieras<br>Christian Grant O. Bunane | 2018 ICpEP National Conference on Computer Applications, Innovations, Technologies and Engineering ( CAITE 2018)   | Reduction of Carbon Dioxide in PUJ Exhaust Pipes Using Multi-Step Filtering System   | Hotel Supreme Convention Plaza, Magsaysay Avenue, Baguio City | November 26-29, 2018 | Institute of Computer Engineers of the Philippines |
| <b>Regional Conference</b>  |  |  |   |                      |  |
| <b><i>College of Science and Mathematics (CSM)</i></b>  |  |  |   |                      |  |
| 18. Rhoda A. Namoco*<br>Kathleen C. Mendoza<br>Raymond O. Pailagao<br>Jenefer B. Vallar                               | Optimizing Nutrient Intake of Holstein Dairy Cattle during Early Lactation using Locally-available By-products   | Research Conference and Organizational Meeting of MSP-Mindanao                       | University of Mindanao, Matina, Davao City                    | October 24-26, 2018  | MSP Regions 10, 12 & ARMM                          |
| 19. Sheryl S. Yañez*<br>Oliva P. Canencia   | Ecological and Demographic Factors Associated with Dengue Virus Incidence in Cagayan de Oro City, Philippines: A Geographic Information System Application | Department of Health Research Forum  | Philtown Hotel, Cagayan de Oro City                           | 26-Oct -18           | DOH 10   |

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| Presenter/Author  |  | Title of Research Paper   | Title, Venue and Date of Conference where the Research Output was Presented |   |                      |           |
|---|--|---|---|---|----------------------|-----------|
|   |  |   | Title   | Venue                                       | Date                 | Organizer |
| 20.   | Client Ely Escabarte<br>Kimberly Ricalde<br>Jessa Pagara<br>Sheryl S. Yañez                                      | Geographic Information System Based Surveillance of Dengue Mosquito (Aedes) Breeding Sites in the Identified Barangays of Cagayan de Oro City, Misamis Oriental | Department of Health Research Forum   | Philtown Hotel, Cagayan de Oro City         | 26-Oct-18            | DOH 10    |
| 21.   | Fabio D. Guno, Jr.<br>Peterson T. Banga<br>Al-Keerve B. Balangyao<br>Phoebe L. Galeon                            | Sucrose Index of RTD Beverages  | Department of Health Research Forum   | Philtown Hotel, Cagayan de Oro City         | 26-Oct-18            | DOH 10    |
| 22.   | Lolimae Versoza Mahinay<br>Julie Catherine A. delos Santos   | Assessing Leptospirosis' Cases and Susceptible Barangays of Transmission in Cagayan de Oro Using Logistic Regression Technique                                  | Department of Health Research Forum   | Philtown Hotel, Cagayan de Oro City         | 26-Oct-18            | DOH 10    |
| <b>College of Engineering and Architecture (CEA)</b>          |  |   |   |   |                      |           |
| 23.   | Diogenes Armando Pascua<br>Maria Cizel Deroy<br>Aeus Joshua Espaldon<br>Johanna Ericka Osa<br>Gian Paulo Macalla | Design and Implementation of an Automated Fish Feeder Robot for the Philippines Aquaculture Industry: Feeding Mechanism and Floater Design Module               | 2018 Regional Symposium on R&D Highlights (RSRDH) and Farmers' Forum        | MSU-Naawan Campus, Naawan, Misamis Oriental | November 15-16, 2018 | NOMCAARRD |
| <b>College of Information Technology and Computing (CITC)</b> |  |   |   |   |                      |           |
| 24.   | Aileen A. Sieras   | Design and Development of an Automated Device for Monitoring of Water Supply and Irrigation   | 2018 Regional Symposium on R&D Highlights (RSRDH) and Farmers' Forum        | MSU-Naawan Campus, Naawan, Misamis Oriental | November 15-16, 2018 | NOMCAARRD |



*USTP Claveria*

| Title of Research/Proponent(s)  | Title of Fora/<br>Conferences/<br>Congress   | Date                 | Venue  |
|---|--|----------------------|--|
| <b>Regional</b>   |  |                      |  |
| Phenological Growth Stages of Red fleshed Dragon Fruit ( <i>Hylocereus polyrhizus</i> Britton and Rose) using Extended BBCH Scale under Southern Philippines Condition<br>Presenter: Gonzaga, NR Quirino RA, Nagal CJ | Regional Symposium on Research and Development Highlights  | November 15-16, 2018 | Marawi State University Naawan Campus (MSU-Naawan)                             |
| <b>National</b>   |  |                      |  |
| Integrated Crop Management (ICM) to enhance vegetable profitability and food security in the Southern Philippine and Australia<br>Presenter: Gonzaga, NR  | ACIAR-PCAARRD Philippines Horticulture Program Annual Review                                       | July 2017            | Quest Hotel, Cebu City   |
| Optimization of process parameters in the upgrading of <i>Scenedemus obliquus</i> oil to green gasoline and diesel by Nickel-impregnated biochar catalyst<br>Presenter: Ido, AL                                       | 10th Annual National Convention of the Society of Environmental Engineers of the Philippines, Inc. |                      | Bro. Andrew Gonzales Hall, de La Salle University, City of Manila, Philippines |
| Assesment of the potential of duckweed ( <i>Lemna minor</i> L.)<br>Presenter: Mabayo, VI  | 10th Annual National Convention of the Society of Environmental Engineers of the Philippines, Inc. |                      | Bro. Andrew Gonzales Hall, de La Salle University, City of Manila, Philippines |
| <b>International</b>  |  |                      |  |
| Growth, Yield and Postharvest quality of Cabbage ( <i>Brassica oleracea</i> L.) in response to different level of Nitrogen fertilizer<br>Presenter: Gonzaga, NR   | 4th AFSA International Conference on "Food Safety and Food Security"                               | August 9-11, 2018    | Angkor Paradise Hotel, Sim Reap, Cambodia                                      |
| Performance and postharvest quality of Tomato ( <i>Solanum lycopersicon</i> Mill) as influenced by different level of Nitrogen<br>Presenter: Gonzaga, AB  | 4th AFSA International Conference on "Food Safety and Food Security"                               | August 9-11, 2018    | Angkor Paradise Hotel, Sim Reap, Cambodia                                      |
| Influence of various system on the growth and yield of Lettuce ( <i>Lactuca sativa</i> L.) under protected cultivation system<br>Presenter: Gonzaga, NR   | 4th AFSA International Conference on "Food Safety and Food Security"                               | August 9-11, 2018    | Angkor Paradise Hotel, Sim Reap, Cambodia                                      |

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| Title of Research/Proponent(s)  | Title of Fora/<br>Conferences/<br>Congress   | Date                 | Venue  |
|---|--|----------------------|--|
| <b>Regional</b>   |  |                      |  |
| Phenological Growth Stages of Red fleshed Dragon Fruit ( <i>Hylocereus polyrhilus</i> Britton and Rose) using Extended BBCH Scale under Southern Philippines Condition<br>Presenter: Gonzaga, NR Quirino RA, Nagal CJ | Regional Symposium on Research and Development Highlights  | November 15-16, 2018 | Marawi State University Naawan Campus (MSU-Naawan)                             |
| <b>National</b>   |  |                      |  |
| Integrated Crop Management (ICM) to enhance vegetable profitability and food security in the Southern Philippine and Australia<br>Presenter: Gonzaga, NR  | ACIAR-PCAARRD Philippines Horticulture Program Annual Review                                       | July 2017            | Quest Hotel, Cebu City   |
| Optimization of process parameters in the upgrading of <i>Scenedemus obliquus</i> oil to green gasoline and diesel by Nickel-impregnated biochar catalyst<br>Presenter: Ido, AL                                       | 10th Annual National Convention of the Society of Environmental Engineers of the Philippines, Inc. |                      | Bro. Andrew Gonzales Hall, de La Salle University, City of Manila, Philippines |
| Assesment of the potential of duckweed ( <i>Lemna minor</i> L.)<br>Presenter: Mabayo, VI  | 10th Annual National Convention of the Society of Environmental Engineers of the Philippines, Inc. |                      | Bro. Andrew Gonzales Hall, de La Salle University, City of Manila, Philippines |
| <b>International</b>  |  |                      |  |
| Growth, Yield and Postharvest quality of Cabbage ( <i>Brassica oleracea</i> L.) in response to different level of Nitrogen fertilizer<br>Presenter: Gonzaga, NR   | 4th AFSA International Conference on "Food Safety and Food Security"                               | August 9-11, 2018    | Angkor Paradise Hotel, Sim Reap, Cambodia                                      |
| Performance and postharvest quality of Tomato ( <i>Solanum lycopersicon</i> Mill) as influenced by different level of Nitrogen<br>Presenter: Gonzaga, AB  | 4th AFSA International Conference on "Food Safety and Food Security"                               | August 9-11, 2018    | Angkor Paradise Hotel, Sim Reap, Cambodia                                      |
| Influence of various system on the growth and yield of Lettuce ( <i>Lactuca sativa</i> L.) under protected cultivation system<br>Presenter: Gonzaga, NR   | 4th AFSA International Conference on "Food Safety and Food Security"                               | August 9-11, 2018    | Angkor Paradise Hotel, Sim Reap, Cambodia                                      |

| Title of Research/Proponent(s)   | Title of Fora/<br>Conferences/<br>Congress  | Date                 | Venue                                     |
|--|---|----------------------|---|
| Influence of mulching on productivity of Tomato ( <i>Solanum lycopersicon</i> Mill) subjected to drip irrigation<br>Presenter: Gonzaga, NR   | 4th AFSA International Conference on "Food Safety and Food Security"              | August 9-11, 2018    | Angkor Paradise Hotel, Sim Reap, Cambodia |
| Growth, yield and postharvest quality of ampalaya ( <i>Momordica charantia</i> L.) under protected cultivation in response to different pruning techniques<br>Presenter: Gonzaga, NR | 2nd International Conference on Environment, Livelihood and Services (ICELS 2018) | November 19-22, 2018 | C-ASEAN, CW Tower, Bangkok, Thailand      |
| Performance of Tomato ( <i>Solanum lycopersicum</i> Linn) in Response to Vermi Leachate Application at varying Fermentation Period<br>Presenter: Gonzaga, AB Jr                      | 2nd International Conference on Environment, Livelihood and Services (ICELS 2018) | November 19-22, 2018 | C-ASEAN, CW Tower, Bangkok, Thailand      |
| Growth and Yield Performance of Tomato Cultivars under Protected and Conventional Cultivation<br>Presenter: Gonzaga, AB Jr   | 2nd International Conference on Environment, Livelihood and Services (ICELS 2018) | November 19-22, 2018 | C-ASEAN, CW Tower, Bangkok, Thailand      |
| Public Perception On Corporate Social Responsibilities Of Various Agricultural Industries In Northern Mindanao, Philippines<br>Presenter: Gonzaga, NR                                | 2nd International Conference on Environment, Livelihood and Services (ICELS 2018) | November 19-22, 2018 | C-ASEAN, CW Tower, Bangkok, Thailand      |
| Exploring English Listening Comprehension for Developing a Listening Enhancement Compendium<br>Presenter: Bodbod, I  | 4th International Conference in Latest Trends of Education and Research           |                      | Puerto Princesa City, Palawan             |
| Job Enabling English Proficiency Program (JEEP): Its Implications to Student's Academic Performance and Employability Skills<br>Presenter: Salaaan, N                                | 4th International Conference in Latest Trends of Education and Research           |                      | Puerto Princesa City, Palawan             |



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### Research Citations (USTP Cagayan de Oro)

| Researcher(s)   | Title of Research Output   | Title of Article where the Research Output was Cited   | Title of Journal                                |
|---|--|--|---|
| <b>College of Science and Mathematics (CSM)</b>                                       |  |  |   |
| Mae Oljae P. Canencia<br>Angelo Mark P. Walag   | Physico-Chemical Parameters And Macrobenthic Invertebrates Of The Intertidal Zone Of Gusa, Cagayan De Oro City, Philippines  | Impacts Of Urbanization And Landscape Patterns On The Earthworm Communities In Residential Areas In Beijing  | Science of the Total Environment                |
| Mae Oljae P. Canencia<br>Angelo Mark P. Walag   | Physico-Chemical Parameters And Macrobenthic Invertebrates Of The Intertidal Zone Of Gusa, Cagayan De Oro City, Philippines  | Biochemical Changes In Mussels Submitted To Different Time Periods Of Air Exposure   | Environmental Science and Pollution Research    |
| Mae Oljae P. Canencia<br>Angelo Mark P. Walag   | Physico-Chemical Parameters And Macrobenthic Invertebrates Of The Intertidal Zone Of Gusa, Cagayan De Oro City, Philippines  | Diversity and Abundance of Macrobenthos in a Subtropical Estuary, Bangladesh   | Species   |
| Mae Oljae P. Canencia<br>Angelo Mark P. Walag   | Physico-Chemical Parameters And Macrobenthic Invertebrates Of The Intertidal Zone Of Gusa, Cagayan De Oro City, Philippines  | Sociodemographic of Two Municipalities Towards Coastal Waters and Solid Waste Management: The Case Of Macajalar Bay, Philippines   | EnvironmentAsia                                 |
| Mae Oljae P. Canencia<br>Angelo Mark P. Walag   | Physico-Chemical Parameters And Macrobenthic Invertebrates Of The Intertidal Zone Of Gusa, Cagayan De Oro City, Philippines  | Diversity of Bivalves in Tanjung Balai Asahan Waters, North Sumatra, Indonesia   | Biodiversitas                                   |
| Mae Oljae P. Canencia<br>Angelo Mark P. Walag   | Physico-Chemical Parameters And Macrobenthic Invertebrates Of The Intertidal Zone Of Gusa, Cagayan De Oro City, Philippines  | Effects Of Extensive Bottom Cultivation Of Tropical Oyster Crassostrea Belcheri On Benthic Invertebrate Community Structure In Ban Don Bay, Suratthani Province, Southern Thailand | Aquaculture International                       |
| Mae Oljae P. Canencia<br>Angelo Mark P. Walag   | Physico-Chemical Parameters And Macrobenthic Invertebrates Of The Intertidal Zone Of Gusa, Cagayan De Oro City, Philippines  | Survey Of Echinoderms In The Intertidal Zone Of Goso-On And Vinapor, Carmen, Agusan Del Norte, Philippines   | Environmental and Experimental Biology          |
| Juana S. Angagan<br>Inocencio E. Buot Jr.<br>Richel E. Relox<br>Carmelita M. Rebancos | Ethnobotany Of The Plant Resources In Conner, Apayao, Northern Luzon, Philippines  | Spatial Distribution of Kalantas (Toona calantas Merr. & Rolfe) in the Molawin–Dampalit Watershed, Mount Makiling Forest Reserve, Philippines                                      | Ecosystems & Development Journal                |
| Richard I. Licayan,<br>Romeo M. Del Rosario,<br>Nenita D. Palmes<br>Oliva P. Canencia | Phytochemical Profiles, Total Flavonoids, Total Phenolic Content and Antioxidant Activities Via Free Radical Scavenging Activities (FRSA) of Philippine Herbal Vines | Medicinal Uses, Phytochemistry And Pharmacological Activities Of Antigonon leptopus Hook. And Arn. (Polygonaceae): A Review  | Journal of Chemical and Pharmaceutical Research |
| Elmer C. Castellano<br>Rose Ann L. Ugbinada<br>Sergio R. Canoy, Jr                    | Secure Domination in the Joins of Graphs   | On the Secure Domination Numbers of Maximal Outerplanar Graphs   | Discrete Applied Mathematics                    |

| Researcher(s)  | Title of Research Output   | Title of Article where the Research Output was Cited   | Title of Journal  |
|--|--|--|---|
| Rhoda A. Namoco<br>Eleajen M. Lago<br>Raymond O. Pailagao<br>Jenefer B. Vallar                 | An Integer Programming Approach for Patrol Police Allocation in an Urban City in the Philippines   | An Innovative Approach to Determining High-Risk Nodes in a Complex Urban Rail Transit Station: A Perspective of Promoting Urban Sustainability | Sustainability  |
| Van Ryan Kristopher<br>R. Galarpe<br>R. B. Parillaa  | Influence of Seasonal Variation on the Biophysicochemical Properties of Leachate and Groundwater in Cebu City Sanitary Landfill, Philippines     | Avaliação Sazonal Da Qualidade Das Águas Superficiais E Subterrâneas Na Área De Influência Do Lixão De Salinópolis, PA                         | Ambiente & Água - An Interdisciplinary Journal of Applied Science           |
| Van Ryan Kristopher<br>R. Galarpe<br>R. B. Parillaa  | 6.1 Influence of Seasonal Variation on the Biophysicochemical Properties of Leachate and Groundwater in Cebu City Sanitary Landfill, Philippines | Comparative Studies Of Health Impact Of Solid Waste Disposal Sites In Nagar Nigam Ayodhya, India   | International Journal of Scientific Research and Review                     |
| Van Ryan Kristopher<br>R. Galarpe<br>R. B. Parillaa  | Influence of Seasonal Variation on the Biophysicochemical Properties of Leachate and Groundwater in Cebu City Sanitary Landfill, Philippines     | Avaliação Sazonal Da Qualidade Das Águas Superficiais E Subterrâneas Na Área De Influência Do Lixão De Salinópolis, PA.                        | Revista Ambiente & Água   |
| Van Ryan Kristopher<br>R. Galarpe<br>R. B. Parillaa  | Influence of Seasonal Variation on the Biophysicochemical Properties of Leachate and Groundwater in Cebu City Sanitary Landfill, Philippines     | Sociodemographic of Two Municipalities Towards Coastal Waters and Solid Waste Management: The Case of Macajalar Bay, Philippines               | EnvironmentAsia   |
| Alambatin, AK.,<br>Germano, JC.,<br>Pagaspas, DL.,<br>Peñas, FM., Pun-an,<br>A. & Galarpe, VRK | Drinking Water Quality of Selected Tap Water Samples in Cagayan de Oro (District II), Philippines.   | Drinking Water Quality from Water Vending Machines in Selected Public Schools in Cebu City, Philippines  | International Journal on: Environmental Science and Sustainable Development |
| Van Ryan Kristopher, R. Galarpe  | Review on the Impacts of Waste Disposal Sites in the Philippines   | Perception Of The Selected Residents On Household Composting In A Highly Urbanized Area, Manila, Philippines                                   | Journal of Ecology & Natural Resources.                                     |
| Van Ryan Kristopher, R. Galarpe  | Review on the Impacts of Waste Disposal Sites in the Philippines   | Sociodemographic Of Two Municipalities Towards Coastal Waters And Solid Waste Management: The Case Of Macajalar Bay, Philippines               | EnvironmentAsia   |
| Van Ryan Kristopher, R. Galarpe  | Review on the Impacts of Waste Disposal Sites in the Philippines   | Nasal Microflora Of Adult Waste Pickers Of Iligan City, Philippines  | Int. J. Biosci.   |
| Galarpe, V. R. K. R., & Parilla, R.B.  | Analysis of heavy metals in Cebu City sanitary landfill, Philippines   | Comparative Studies Of Health Impact Of Solid Waste Disposal Sites In Nagar Nigam Ayodhya, India   | International Journal of Scientific Research and Review                     |

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| Researcher(s)   | Title of Research Output   | Title of Article where the Research Output was Cited   | Title of Journal  |
|---|--|--|---|
| Galarpe, V. R. K. R., & Parilla, R.B.   | Analysis of heavy metals in Cebu City sanitary landfill, Philippines   | Sociodemographic Of Two Municipalities Towards Coastal Waters And Solid Waste Management: The Case Of Macajalar Bay, Philippines   | EnvironmentAsia   |
| Galarpe, V. R. K. R., & Parilla, R.B.   | Opportunities and Threats to Adjacent Community in a Sanitary Landfill, Philippines  | Comparative Studies Of Health Impact Of Solid Waste Disposal Sites In Nagar Nigam Ayodhya, India   | International Journal of Scientific Research and Review |
| Galarpe, V. R. K. R., & Parilla, R.B.   | Opportunities and Threats to Adjacent Community in a Sanitary Landfill, Philippines  | Sociodemographic Of Two Municipalities Towards Coastal Waters And Solid Waste Management: The Case Of Macajalar Bay, Philippines   | EnvironmentAsia   |
| Heyasa, B. B. L., & Van Ryan Kristopher, R. Galarpe   | Initial Development and Testing of Microcontroller-MQ2 Gas Sensorfor University Air Quality Monitoring.  | Designing And Implementing Applications Of Smart Home Appliances   | Modern Applied Science                                  |
| Heyasa, B. B. L., & Van Ryan Kristopher, R. Galarpe   | Initial Development and Testing of Microcontroller-MQ2 Gas Sensorfor University Air Quality Monitoring.  | Sociodemographic Of Two Municipalities Towards Coastal Waters And Solid Waste Management: The Case Of Macajalar Bay, Philippines   | EnvironmentAsia   |
| Dennis A. Mugot Cordulo P. Ascano, II, Queenilyn B. Albutra, Vicenta V. Ansigbat, Sherryl L. Paz, and Cesar G. Demayo . | An inventory of tree species diversity in and around gold-mined areas in a montane village in Cagayan De Oro City, Philippines                             | Inventory And Morphometrics Of Anuran Species Found In Mt. Kilala Of The Mt. Hamiguitan Range Wildlife Sanctuary, Governor Generoso, Davao Oriental, Philippines Article | Philippine Journal of Science                           |
| Wendell D. Talampas, Ruel Cabahug   | Catchment Characterization to Understand Flooding in Cagayan de Oro River Basin in Northern Mindanao, Philippines  | Hypsometric Properties Of Mountain Landscape Of Hunza River Basin Of The Karakoram Himalaya  | Journal of Mountain Science                             |
| Queenilyn B. Albutra, Mark Anthony J. Torres, Cesar G. Demayo   | Outline And Landmark Based Geometric Morphometric Analysis In Describing Sexual Dimorphism In Wings Of The White Stem Borer (Schirpophaga Innotata Walker) | Wing Vein Shape Signal In Culicoides oxystoma (Schultzei Group) In Nigeria - Tool For Discrimination (Diptera: Ceratopogonidae) Using Geometric Approach                 | Zoologischer Anzeiger                                   |
| Ramir Philip Jones V. Sonsona   | The Manifestation of Filipinos' Religiosity in Their Oral Literature   | The Axiological Relevance Of The Tumba-Tumba Festival In Paoay, Ilocos Norte, Philippines  | International Forum                                     |
| Marvelisa L. Carmona Takeshi Naganuma & Yukiho Yamaoka  | Identification by HPLC-MS of Carotenoids of the Thraustochytrium CHN-1 Strain Isolated from the Seto Inland Sea  | Investigation Of Composition, Structure And Bioactivity Of Extracellular Polymeric Substances From Original And Stress-Induced Strains Of Thraustochytrium Striatum      | Carbohydrate Polymers                                   |



| Researcher(s)  | Title of Research Output  | Title of Article where the Research Output was Cited  | Title of Journal             |
|--|---|---|------------------------------|
| Marvelisa L. Carmona<br>Takeshi Naganuma<br>&Yukiho Yamaoka                                | Identification by HPLC-MS of Carotenoids of the Thraustochytrium CHN-1 Strain Isolated from the Seto Inland Sea   | Isolation Of High Carotenoid-Producing Aurantiochytrium Sp. Mutants And Improvement Of Astaxanthin Productivity Using Metabolic Information       | Journal of Oleo Science      |
| Marvelisa L. Carmona<br>Takeshi Naganuma<br>&Yukiho Yamaoka                                | Identification by HPLC-MS of Carotenoids of the Thraustochytrium CHN-1 Strain Isolated from the Seto Inland Sea   | Taxonomy, Ecology And Biotechnological Applications Of Thraustochytrids: A Review   | Biotechnology Advances       |
| Yukiho Yamaoka<br>Marvelisa L. Carmona<br>Jose M. Oclarit<br>Kazuo Jin<br>Yasuyuki Shibata | Arsenic compounds in marine sponge (Haliclona permolis, Halichondria japonica, Halichondria okadai and Haliclona sp. white) from Seto Inland Sea, Japan | Comparative Study On The Bioaccumulation And Biotransformation Of Arsenic By Some Northeastern Atlantic And Northwestern Mediterranean Sponges    | Chemosphere                  |
| Yukiho Yamaoka<br>Marvelisa L. Carmona<br>Jose M. Oclarit<br>Kazuo Jin<br>Yasuyuki Shibata | Arsenic compounds in marine sponge (Haliclona permolis, Halichondria japonica, Halichondria okadai and Haliclona sp. white) from Seto Inland Sea, Japan | Marine Sponges As A Powerful Tool For Trace Elements Biomonitoring Studies In Coastal Environment   | Marine Pollution Bulletin    |
| Yukiho Yamaoka,<br>Marvelisa L. Carmona<br>Shinji Oota                                     | Growth and Carotenoid Production of Thraustochytrium sp. CHN-1 Cultured under Superbright Red and Blue Light-emitting Diodes                            | Taxonomy, Ecology And Biotechnological Applications Of Thraustochytrids: A Review   | Biotechnology Advances       |
| Yukiho Yamaoka,<br>Marvelisa L. Carmona<br>Shinji Oota                                     | Growth and Carotenoid Production of Thraustochytrium sp. CHN-1 Cultured under Superbright Red and Blue Light-emitting Diodes                            | Effects Of Light Intensity, Light Quality, And Illumination Period On Cell Growth, TFA Accumulation, And DHA Production In Cryptocodinium Sp. SUN | Journal of Applied Phycology |
| Yukiho Yamaoka,<br>Marvelisa L. Carmona<br>Shinji Oota                                     | Growth and Carotenoid Production of Thraustochytrium sp. CHN-1 Cultured under Superbright Red and Blue Light-emitting Diodes                            | A Possible Trifunctional B-Carotene Synthase Gene Identified In The Draft Genome Of Aurantiochytrium Sp. Strain KH105                             | Genes                        |
| Yukiho Yamaoka<br>Marvelisa L. Carmona<br>Jose M. Oclarit<br>Kazuo Jin<br>Yasuyuki Shibata | Characterization of water-soluble organoarsenic compounds in marine sponges   | Comparative Study On The Bioaccumulation And Biotransformation Of Arsenic By Some Northeastern Atlantic And Northwestern Mediterranean Sponges    | Chemosphere                  |
| Yukiho Yamaoka<br>Marvelisa L. Carmona<br>Jose M. Oclarit<br>Kazuo Jin<br>Yasuyuki Shibata | Characterization of water-soluble organoarsenic compounds in marine sponges   | Marine Sponges As A Powerful Tool For Trace Elements Biomonitoring Studies In Coastal Environment   | Marine Pollution Bulletin    |

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| Researcher(s)   | Title of Research Output   | Title of Article where the Research Output was Cited  | Title of Journal  |
|---|--|---|---|
| Yukiho Yamaoka<br>Marvelisa L. Carmona<br>Jose M. Oclarit<br>Kazuo Jin Yasuyuki Shibata   | Characterization of water-soluble organoarsenic compounds in marine sponges  | Furanosesterterpenes From The Guangxi Sponge <i>Biemna Fortis</i> Topsent   | Biochemical Systematics and Ecology   |
| Eusebio V. Angara,<br>Gerardo S. Rillon,<br>Marvelisa L. Carmona,<br>Joer Ef M. Ferreras,<br>Myra I. Vallejo,<br>Arah C. G. G. Amper,<br>Maria L. D. G. Lacuna  | Diversity and abundance of phytoplankton in Casiguran waters, Aurora Province, Central Luzon, Northern Philippines | Planktonic Diatom Species Succession In San Francisco Bay (September 2015 - December 2017)  | Keith, T. (2018). Planktonic Diatom Species Succession in San Francisco Bay (September 2015-December 2017). |
| Eusebio V. Angara,<br>Gerardo S. Rillon,<br>Marvelisa L. Carmona,<br>Joer Ef M. Ferreras,<br>Myra I. Vallejo,<br>Arah C. G. G. Amper,<br>Maria L. D. G. Lacuna  | Diversity and abundance of phytoplankton in Casiguran waters, Aurora Province, Central Luzon, Northern Philippines | Net-Phytoplankton Communities In The Western Boundary Currents And Their Environmental Correlations   | Journal of Oceanology and Limnology   |
| Hong Quan Nguyen<br>Mohanasundar Radhakrishnan<br>Thi Thao Nguyen<br>Huynh Maria Luisa Bains-Salingay<br>Long Phi Ho<br>Peter Van der Steen<br>Assela Pathirana | Water Quality Dynamics of Urban Water Bodies during Flooding in Can Tho City, Vietnam                              | A Location Intelligence System For The Assessment Of Pluvial Flooding Risk And The Identification Of Storm Water Pollutant Sources From Roads In Suburbanised Areas | Water   |
| Hong Quan Nguyen<br>Mohanasundar Radhakrishnan<br>Thi Thao Nguyen<br>Huynh Maria Luisa Bains-Salingay<br>Long Phi Ho<br>Peter Van der Steen<br>Assela Pathirana | Water Quality Dynamics of Urban Water Bodies during Flooding in Can Tho City, Vietnam                              | Multivariate Hybrid Modelling Of Future Wave-Storms At The Northwestern Black Sea   | Water   |

| Researcher(s)   | Title of Research Output  | Title of Article where the Research Output was Cited   | Title of Journal   |
|---|---|--|--|
| Hong Quan Nguyen<br>Mohanasundar<br>Radhakrishnan<br>Thi Thao Nguyen<br>Huynh<br>Maria Luisa Baino-Salingay<br>Long Phi Ho<br>Peter Van der Steen<br>Assela Pathirana | Water Quality Dynamics of Urban Water Bodies during Flooding in Can Tho City, Vietnam                                     | Urban Surface Water Quality, Flood Water Quality And Human Health Impacts In Chinese Cities. What Do We Know?              | Water  |
| Sergio R. Canoy, Jr.<br>Gina A. Malacas<br>Dennis A. Tarepe   | Locating-Dominating Sets in Graphs  | Interior Domination In Graphs Under Some Binary Operations   | Applied Mathematical Sciences  |
| Wenceslao A. Coronado<br>Charita A. Luna<br>Dennis A. Tarepe  | Improving students van Hiele and proof-writing ability using Geometer's sketchpad   | The Learning Of Integration In Calculus Using The Autograph Technology   | Advanced Science Letters   |
| Josephine C. Visande  | Developing Critical Thinking Skills among Education Students Through Formative Education                                  | The Use Of The ASSIM Model For Technology Integration In Instructional Delivery By Faculty Members And Pre-Service Teacher | Advanced Learning and Teaching Environments-Innovation, Contents and Methods       |
| Laila S. Lomibao<br>Charita A. Luna<br>Rhoda A. Namoco  | Enhancing Mathematics Teachers' Quality through Lesson Study  | Beginning Teacher Induction Practices In The Context Of Large Classes  | HONAI: International Journal for Educational, Social, Political & Cultural Studies |
| MMN Apao,<br>FG Teves,<br>MRSB Madamba  | Sequence analysis of putative swrW gene required for surfactant serrawettin W1 production from Serratia marcescens        | Novel Editing Peptides: Surfactin, Iturin And Fengycin   | Journal of Microbes and Infections   |
| <b>College of Engineering and Architecture (CEA)</b>  |   |  |  |
| Ambrosio B. Cultura II<br>Ziyad M. Salameh  | Performance Evaluation Of A Supercapacitor Module For Energy Storage Applications   | Rf Energy Harvesting Networks: Existing Techniques And Hardware Technology   | Wireless Information and Power Transfer: A New Paradigm for Green Communications   |
| Ambrosio B. Cultura II<br>Ziyad M. Salameh  | Design and Analysis of a 24 Vdc to 48 Vdc Bidirectional DC-DC Converter Specifically for a Distributed Energy Application | Design Of Bidirectional Dc-Dc Converter Based On Single Chip Microcomputer   |  |
| Antonio-Abdu Sami M.<br>Magomnang<br>Eliseo P. Villanueva   | Removal of Hydrogen Sulfide from Biogas using Dry Desulfurization Systems   | Utilization Of Steel Wool As Removal Media Of Hydrogen Sulfide In Biogas   | IOP Conference Series: Earth and Environmental Science                             |



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| Researcher(s)  | Title of Research Output   | Title of Article where the Research Output was Cited   | Title of Journal                                       |
|--|--|--|--|
| Antonio-Abdu Sami<br>M. Magomnang<br>Eliseo P. Villanueva  | Removal of Hydrogen Sulfide from Biogas using Dry Desulfurization Systems  | Development Of A Low-Cost Biogas Filtration System To Achieve Higher-Power Efficient Ac Generator                      | AIP Conference Proceedings                             |
| Antonio-Abdu Sami<br>M. Magomnang<br>Eliseo P. Villanueva  | Utilization of the Uncoated Steel Wool for the Removal of Hydrogen Sulfide from Biogas                                   | Utilization Of Steel Wool As Removal Media Of Hydrogen Sulfide In Biogas   | IOP Conference Series: Earth and Environmental Science |
| Edward Peter F. Rollo<br>Leonel L. Pabilona<br>Antonio-Abdu Sami<br>M. Magomnang<br>Eliseo P. Villanueva<br>Dianne Mae M. Magomnang    | Analysis of Biogas Production from Cow, Chicken and Swine Manure   | Evaluating The System Performance Of A Pressure Swing Adsorption (PSA) Unit By Removing The Carbon Dioxide From Biogas | Indian Journal of Science and Technology               |
| Paulino E. Labis<br>Rey G.Visande<br>Reuel C.Pallugna<br>Nolan D.Caliao  | The Contribution Of Renewable Distributed Generation In Mitigating Carbon Dioxide Emissions                              | Economic Growth Based In Carbon Dioxide Emission Intensity   | Physica A: Statistical Mechanics and its Applications  |
| Ruel R. Cabahug  | A Survey on the Implementation of Safety Standards of On-going Construction Projects in Cagayan de Oro City, Philippines | Detecting Non-Hardhat-Use By A Deep Learning Method From Far-Field Surveillance Videos                                 | Automation in Construction                             |
| Consortorio S. Namoco Jr, Takashi Iizuka, Nobuo Hatanaka, Norio Takakura, Katsuhiko Yamaguchi  | Numerical Investigation of Flexural Properties of Sheet Metals Subjected to Embossing and Restoration Process            | Variation Of Tensile And Bending Rigidities Of A Duplex Embossed Steel Sheet By Small Uniaxial Tensile Deformation     | Journal of Materials Processing Technology             |
| Consortorio S. Namoco Jr, Takashi Iizuka, Nobuo Hatanaka, Norio Takakura, Katsuhiko Yamaguchi  | Numerical Investigation of Flexural Properties of Sheet Metals Subjected to Embossing and Restoration Process            | Variation Of Tensile And Bending Rigidities Of A Duplex Embossed Steel Sheet By Small Uniaxial Tensile Deformation     | Journal of Materials Processing Technology             |
| Liezl M. Jabile<br>Reynaldo M.Vequizo<br>Romnick B.Unabia<br>Jun Rey S.Lincuna<br>Majvell Kay<br>G.Odarve-Vequizo<br>Shigenobu R.Miñoz | Structural, crystallographic and morphological properties of microwave-assisted growth of nano-apatite powders           | Preliminary Study On Copper-Doped Hydroxyapatite Coatings Obtained Using Solution Precursor Plasma Spray Process       | Surface and Coatings Technology                        |

| Researcher(s)   | Title of Research Output  | Title of Article where the Research Output was Cited  | Title of Journal   |
|---|---|---|--|
| Dionel O. Albina<br>Karsten Millrath<br>N. J. Themelis    | Effects of Feed Composition on Boiler Corrosion in Waste-to-Energy Plants                           | Influence Of Ammonium Dihydrogen Phosphate On Combustion Performance And Ash Characteristics During Combustion Of Zhundong Coal | Combustion Science and Technology  |
| Dionel O. Albina  | Theory And Experience On Corrosion Of Waterwall And Superheater Tubes Of Waste-To-Energy Facilities | Effect Of Surface Roughness On Corrosion Behavior Of The Superalloy IN718 In Simulated Marine Environment                       | Journal of Alloys and Compounds  |
| Dionel O. Albina  | Theory And Experience On Corrosion Of Waterwall And Superheater Tubes Of Waste-To-Energy Facilities | Salt Induced Corrosion Behaviour Of Superalloy IN718  | Materials Today: Proceedings   |
| Dionel O. Albina  | Theory And Experience On Corrosion Of Waterwall And Superheater Tubes Of Waste-To-Energy Facilities | Reviewing The Potential Of Waste-To-Energy (WTE) Technologies For Sustainable Development Goal (SDG) Numbers Seven And Eleven   | Renewable Energy Focus   |
| Dionel O. Albina  | Theory And Experience On Corrosion Of Waterwall And Superheater Tubes Of Waste-To-Energy Facilities | Bildning Och Sulfatering Av Fluorider I Aska Vid Förbränning  | Digitala Vetenskapliga Arkivet   |
| <b>College of Science and Technology Education (CSTE)</b> |   |   |  |
| Laila S. Lomibao<br>Charita A. Luna<br>Rhoda A. Namoco    | The Influence of Mathematical Communication on Students' Mathematics Performance and Anxiety        | Deskripsi Komunikasi Matematis Siswa Smp Negeri 9 Salatiga Pada Materi Operasi Aljabar  | Jurnal Pendidikan Berkarakter  |
| Laila S. Lomibao<br>Charita A. Luna<br>Rhoda A. Namoco    | The Influence of Mathematical Communication on Students' Mathematics Performance and Anxiety        | Strengthening The Students' Achievement And Reducing Anxiety In Mathematics Through Kinesthetic Teaching Technique              | Science International  |
| Laila S. Lomibao<br>Charita A. Luna<br>Rhoda A. Namoco    | The Influence of Mathematical Communication on Students' Mathematics Performance and Anxiety        | Argumentation: Building Students' Capacity For Reasoning Essential To Learning Mathematics And Sciences                         | Problems, Resources, and Issues in Mathematics Undergraduate Studies                     |
| Laila S. Lomibao<br>Charita A. Luna<br>Rhoda A. Namoco    | The Influence of Mathematical Communication on Students' Mathematics Performance and Anxiety        | Algebraic Learning Through Caring Community Based On Lesson Study For Learning Community  | Algebraic Learning Through Caring Community Based On Lesson Study For Learning Community |
| Laila S. Lomibao<br>Charita A. Luna<br>Rhoda A. Namoco    | The Influence of Mathematical Communication on Students' Mathematics Performance and Anxiety        | Veri İşleme Öğrenme Alanına Yönelik Sınıf İçindeki Söylemlerin Matematiksel Dil Bağlamında İncelenmesi                          | Turkish Journal of Computer and Mathematics Education (TURCOMAT)                         |

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| Researcher(s)  | Title of Research Output   | Title of Article where the Research Output was Cited   | Title of Journal   |
|--|--|--|--|
| Laila S. Lomibao<br>Charita A. Luna<br>Rhoda A. Namoco   | The Influence of Mathematical Communication on Students' Mathematics Performance and Anxiety   | Enhancing Students' Mathematical Creativity In Calculus Through Pre-Within-Post Problem Posing Tasks               | Science International (Lahore)   |
| Oliva P. Canencia<br>Marlou D. Dalugdug<br>Athena Marie B. Emano<br>Richard C. Mendoza<br>Angelo Mark P. Walag | Slaughter Waste Effluents and River Catchment Watershed Contamination In Cagayan De Oro City, Philippines  | Water Quality: Mindanao Island Of The Philippines  | Translating National Policy to Improve Environmental Conditions Impacting Public Health Through Community Planning |
| Marife Valenton-Ubalde<br>Charita A. Luna<br>Rhoda A. Namoco .   | The Influence of Bridging the Knowing-Doing Gap through the Zone of Generativity on Pupils' Achievement, Retention and Anxiety towards Mathematics | Strengthening The Students' Achievement And Reducing Anxiety In Mathematics Through Kinesthetic Teaching Technique | Science International  |
| Marife Valenton-Ubalde<br>Charita A. Luna<br>Rhoda A. Namoco   | The Influence of Bridging the Knowing-Doing Gap through the Zone of Generativity on Pupils' Achievement, Retention and Anxiety towards Mathematics | Enhancing Students' Mathematical Creativity In Calculus Through Pre-Within-Post Problem Posing Tasks               | Science International  |
| <b>College of Information Technology and Computing (CITC)</b>  |  |  |  |
| Jocelyn Barbosa<br>Kyubum Lee<br>Sunwon Lee<br>Bilal Lodhi<br>Jae-Gu Cho<br>Woo-Keun Seo<br>Jaewoo Kang        | Efficient quantitative assessment of facial paralysis using iris segmentation and active contour-based key points detection with hybrid classifier | A Tour Toward The Development Of Various Techniques For Paralysis Detection Using Image Processing                 | Biologically Rationalized Computing Techniques For Image Processing Applications                                   |
| Jocelyn Barbosa<br>Kyubum Lee<br>Sunwon Lee<br>Bilal Lodhi<br>Jae-Gu Cho<br>Woo-Keun Seo<br>Jaewoo Kang        | Efficient quantitative assessment of facial paralysis using iris segmentation and active contour-based key points detection with hybrid classifier | A Survey On Computer Vision For Assistive Medical Diagnosis From Faces   | Journal of Biomedical and Health Informatics   |
| Junar Landicho<br>Anghela Perpetua<br>Dela Cerna<br>Jeric James<br>Marapao<br>Gerwin Balhin<br>Rachelle Paid   | Hortari: a Gamification Application for Engaged Teaching and Learning in Higher Education  | A Training Algorithm To Reinforce Generic Competences In Higher Education Students                                 | Advances in Computing  |

*Research Citation (USTP Claveria)*

| Title of Paper Cited   | Citing Paper   | Title of Journal/<br>Book   | Authors                |
|--|--|---|------------------------|
| Removal of sodium diclofenac from aqueous solution by adsorbents derived from cocoa pod  | Implementation of the Method of Electrochemical Destruction during Disposal of Pharmaceutical Glass Waste                                | Ecology   | Arazo, RO              |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals   | Removal of Cr(VI) from its Aqueous Solution Using Green Adsorbent: Pistachio Shell: a Fixed Bed Column Study and GA-ANN Modeling         | Water Conservation Science and Engineering                                      | Arazo, RO              |
| Effects of pyrolysis temperature on product yields and energy recovery from co-feeding of cotton gin trash, cow manure, and microalgae: A simulation study | Fodder Radish Seed Cake Pyrolysis for Bio-oil Production in a Rotary Klin Reactor  | Chemical Engineering & Processing: Process Intensification                      | Arazo, RO              |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Bio oil production   | Energy Conversion and Management 144(2017) 235-242 Bionergy and Biofuels (book) | Arazo, RO              |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Development and application of a continuous fast microwave pyrolysis system for sewage sludge utilization                                | Bio resources Technology  | Arazo, RO              |
| Removal of sodium diclofenac from aqueous solution by adsorbents derived from cocoa pod husks  | The use of activated carbon for the removal of pharmaceuticals from aqueous solutions: A review  | Rev Environ Science Biotechnology   | Arazo, RO              |
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge  | The leaching characteristics of heavy metals from hydro chars of digested swine manure   | Journal of Agro Environmental Science   | Arazo, RO              |
| Biodiesel production from Swietenia macrophylla (Mahogany) seeds   | Production of biodiesel from Switenia macrophylla seed   | Mechanical Engineering and Renewable Energy                                     | Arazo, RO<br>Mugot, DM |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from ground water treatment residuals  | Adsorption behaviors of hazardous methylene blue and hexavalent chromium on novel materials derived from Pterospermum acerifolium shells | Journal of Molecular Liquids  | Arazo, RO              |
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge  | Comparison of phosphorous recovery from incinerated sewage sludge ash (ISSA) and pyrolyzed sewage sludge char (PSSC)                     | Journal of the Japan Institute of Energy, 97, 31-39 (2018)                      | Arazo, RO              |
| Effects of pyrolysis temperature on product yields and energy recovery from co-feeding of cotton gin trash, cow manure, and microalgae: A simulation study | Carbonization of sugarcane bagasse and heat transfer property by pyrolysis in superheated steam and nitrogen atmosphere                  | Journal of the Japan Institute of Energy, 97, 31-39 (2018)                      | Arazo, RO              |



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| Title of Paper Cited  | Citing Paper  | Title of Journal/<br>Book  | Authors   |
|---|---|--|-----------|
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor                                     | Bio electrochemical bio refining (book)   | Oak Ridge National Lab. (ORNL) Oak Ridge, TN (United States)   | Arazo, RO |
| Removal of sodium diclofenac from aqueous solution by adsorbents derived from cocoa pod husks   | Removal of nickel ions from aqueous solutions by manganese dioxide derived from groundwater treatment sludge  | Journal of Cleaner production  | Arazo, RO |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals                                | Removal of nickel ions from aqueous solutions by manganese dioxide derived from groundwater treatment sludge  | Journal of Cleaner production  | Arazo, RO |
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge                                   | Fate and distribution of heavy metals during thermal processing of sewage sludge  | Applied Thermal Engineering Journal of Environmental Chemical Engineering  | Arazo, RO |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor                                     | Application of central composite design in the optimization of lipid yield from <i>Scenedesmus obliquus</i> microalgae by ultra-sonic assisted solvent extraction | Energy   | Arazo, RO |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor                                     | Conversion of Solid Waste to Fuels and Chemicals Through Pyrolysis  | Journal of Environmental Chemical Engineering  | Arazo, RO |
| Assessing biodiesel production from sewage sludge derived bio-oil   | Recent development on sustainable biodiesel production using sewage sludge  | 3 Biotech (2018) 8:45  | Arazo, RO |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals                                | Effect of Cu 2+ doping on the physico chemical properties and chromate adsorption capacity of goethite  | Separation Science and Technology  | Arazo, RO |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals                                | Sequestration of Hexavalent Chromium from Aqueous Medium Using Bio char prepared from Water   | Chemical Science International Journal   | Arazo, RO |
| Evaluating the physicochemical and bacteriological characteristics of Aligodon River as source of potable water for a new Claveria Water System | Water Quality: Mindanao Island of the Philippines (Book Chapter)  | Translating National Policy to Improve Environmental Conditions Impacting Public Health Through Community Planning | Ido, AL   |

| Title of Paper Cited   | Citing Paper  | Title of Journal/Book                          | Authors                            |
|--|---|--|------------------------------------|
| In situ transification of <i>Chlorella</i> sp. Microalgae using LiOH-pumice catalyst   | Application of central composite design in the optimization of lipid yield from <i>Scenedesmus obliquus</i> microalgae by ultra-sonic assisted solvent extraction | Energy   | Ido, AL                            |
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge  | Evaluation of chemical characteristics of biochar synthesized pyrolytically from lignocellulose biomass   | Trends in Biosciences 10 (27), 5695-5699, 2017 | Arazo, RO                          |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals   | Bone powder as a low-cost adsorbent for the removal of Hg (II) and Cr (VI) ions from aqueous solutions  | Toxin Reviewers (Taylor and Francis)           | Arazo, RO                          |
| Biodiesel production from <i>Swietenia macrophylla</i> (Mahogany) seeds  | Optimized bio-oil yield from <i>Swietenia macrophylla</i> seeds via ultrasonic cavitation through response surface methodology                                    | Energy, Ecology and Environment                | Arazo, RO<br>Mugot, DM             |
| Biodiesel production from <i>Swietenia macrophylla</i> (Mahogany) seeds  | Increased bio-oil yield from <i>Swietenia macrophylla</i> seeds through microwave pretreatment and ultrasonic assisted solvent extraction                         | Sustainable Environment Research               | Arazo, RO<br>Mugot, DM             |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Increased bio-oil yield from <i>Swietenia macrophylla</i> seeds through microwave pretreatment and ultrasonic assisted solvent extraction                         | Sustainable Environment Research               | Arazo, RO                          |
| Application of central composite design in the optimization of lipid yield from <i>Scenedesmus obliquus</i> microalgae by ultrasonic-assisted solvent extraction | Increased bio-oil yield from <i>Swietenia macrophylla</i> seeds through microwave pretreatment and ultrasonic assisted solvent extraction                         | Sustainable Environment Research               | Ido, AL                            |
| Optimization of oil yield from <i>Hevea brasiliensis</i> seeds through ultrasonic-assisted solvent extraction via response surface methodology                   | Increased bio-oil yield from <i>Swietenia macrophylla</i> seeds through microwave pretreatment and ultrasonic assisted solvent extraction                         | Sustainable Environment Research               | Mabayo, VI<br>Ido, AL<br>Arazo, RO |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Optimized bio-oil yield from <i>Swietenia macrophylla</i> seeds via ultrasonic cavitation through response surface methodology                                    | Energy, Ecology and Environment                | Arazo, RO                          |
| Assessing biodiesel production from sewage sludge derived bio-oil  | Optimized bio-oil yield from <i>Swietenia macrophylla</i> seeds via ultrasonic cavitation through response surface methodology                                    | Energy, Ecology and Environment                | Arazo, RO                          |

| Title of Paper Cited   | Citing Paper   | Title of Journal/<br>Book                          | Authors  |
|--|--|--|--|
| Increased bio-oil yield from <i>Swietenia macrophylla</i> seeds through microwave pretreatment and ultrasonic-assisted solvent extraction                        | Optimized bio-oil yield from <i>Swietenia macrophylla</i> seeds via ultrasonic cavitation through response surface methodology | Energy, Ecology and Environment                    | Arazo, RO<br>Joyno, JR<br>Joyno, CQ<br>Ido, AL |
| Application of central composite design in the optimization of lipid yield from <i>Scenedesmus obliquus</i> microalgae by ultrasonic-assisted solvent extraction | Optimized bio-oil yield from <i>Swietenia macrophylla</i> seeds via ultrasonic cavitation through response surface methodology | Energy, Ecology and Environment                    | Ido, AL  |
| Optimization of oil yield from <i>Hevea brasiliensis</i> seeds through ultrasonic-assisted solvent extraction via response surface methodology                   | Optimized bio-oil yield from <i>Swietenia macrophylla</i> seeds via ultrasonic cavitation through response surface methodology | Energy, Ecology and Environment                    | Arazo, RO<br>Mabayo, VI<br>Ido, AL             |
| Effects of pyrolysis temperature on product yields and energy recovery from co-feeding of cotton gin trash, cow manure, and microalgae: A simulation study       | Pyrolysis of Pearl Millet and Napier Grass hybrid (PMN10TX15): feasibility, Byproducts, and Comprehensive Characterization     | International Journal of Renewable Energy research | Arazo, RO                                      |
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge  | Production of Lightweight Aggregates from Sewage Sludge and Dredged Sediment   | Nature Environment and Pollution Technology        | Arazo, RO                                      |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals   | Manganese and iron recovery from groundwater treatment sludge by reductive acid leaching and hydroxide precipitation           | Journal of Environmental Management                | Arazo, RO                                      |
| Ultrasound-assisted synthesis of adsorbents from groundwater treatment residuals for hexavalent chromium removal from aqueous solutions                          | Manganese and iron recovery from groundwater treatment sludge by reductive acid leaching and hydroxide precipitation           | Journal of Environmental Management                | Arazo, RO                                      |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Thermochemical conversion of press seed cake produced from non-edible biomass  | RMIT University                                    | Arazo, RO                                      |
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge  | Leaching characteristics and phytotoxic effects of sewage sludge biochar   | Journal of Material Cycles and Waste Management    | Arazo, RO                                      |

| Title of Paper Cited  | Citing Paper   | Title of Journal/<br>Book   | Authors   |
|---|--|---|-----------|
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor | Pyrolysis of textile dyeing sludge in fluidized bed and microwave-assisted auger reactor: Comparison and characterization of pyrolysis products                          | Journal of hazardous Materials 359 (2018) 454-464                                       | Arazo, RO |
| Assessing biodiesel production from sewage sludge derived bio-oil   | Use of fermentation technology for value-added industrial research   | Principles and Applications of Fermentation Technology<br>Publisher: John Wiley & Sons, | Arazo, RO |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor | Bio-oil production using residual sewage sludge after lipid and carbohydrate extraction  | Environmental Engineering Research  | Arazo, RO |
| Compositions of solid wastes generated from a school campus   | Solid waste management at University Campus (Part 5/10): Characterization and quantification of waste and relevance of the waste hierarchy in its management             | Journal of Environmental and Earth Science  | Arazo, RO |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor | Fast pyrolysis of sisal residue in a pilot fluidized bed reactor   | ACS Energy and Fuels  | Arazo, RO |
| Removal of Sodium diclofenac from aqueous solution by adsorbents derived from cocoa                         | Tea waste derived activated carbon for the adsorption of sodium diclofenac from wastewater: adsorbent characteristics, adsorption isotherms, kinetics and thermodynamics | Environmental Science and Pollution Research  | Arazo, RO |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor | Pyrolysis of textile dyeing sludge in fluidized bed and microwave-assisted auger reactor: Comparison and characterization of pyrolysis products                          | Energy  | Arazo, RO |
| Assessing biodiesel production from sewage sludge derived bio-oil   | Evaluation of gaseous and solid products from the pyrolysis of waste biomass blends for energetic and environmental applications   | Fuel  | Arazo, RO |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor | Application of a Bio-modifier as Fog Sealants to Delay Ultraviolet Aging of Bituminous Materials   | Journal of Materials in Civil Engineering   | Arazo, RO |



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| Title of Paper Cited   | Citing Paper   | Title of Journal/<br>Book                     | Authors  |
|--|--|---|--|
| In situ transification of <i>Chlorella</i> sp. Microalgae using LiOH-pumice catalyst   | Augmentation of native microalgae based biofuel production through statistical optimization of campus sewage wastewater as low-cost growth media                         | Journal of Environmental Chemical Engineering | Arazo, RO                                      |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals   | Effect of lime on stability of Chromium in Stainless Steel Slag  | Minerals                                      | Arazo, RO                                      |
| Assessing biodiesel production from sewage sludge derived bio-oil  | Upgrading of <i>Scenedesmus obliquus</i> oil to high-quality liquid-phase biofuel by nickel-impregnated biochar catalyst   | Journal of Cleaner Production                 | Arazo, RO                                      |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Upgrading of <i>Scenedesmus obliquus</i> oil to high-quality liquid-phase biofuel by nickel-impregnated biochar catalyst   | Journal of Cleaner Production                 | Arazo, RO                                      |
| In situ transification of <i>Chlorella</i> sp. Microalgae using LiOH-pumice catalyst   | Upgrading of <i>Scenedesmus obliquus</i> oil to high-quality liquid-phase biofuel by nickel-impregnated biochar catalyst   | Journal of Cleaner Production                 | Ido, AL  |
| Application of Central composite design in the optimization of lipid yield from <i>Scenedesmus obliquus</i> microalgae by ultrasound-assisted solvent extraction | Upgrading of <i>Scenedesmus obliquus</i> oil to high-quality liquid-phase biofuel by nickel-impregnated biochar catalyst   | Journal of Cleaner Production                 | Ido, AL  |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Comparative evaluation of the performance of an improved biomass cook stove and the traditional stoves of Iran   | Sustainable Environment Research              | Arazo, RO                                      |
| Increased bio-oil yield from <i>Swietenia macrophylla</i> seeds through microwave pretreatment and ultrasonic-assisted solvent extraction                        | Pyrolysis of Palm Kernel Shell with Internal Recycling of Heavy oil  | Bioresource Technology                        | Arazo, RO<br>Ido, AL<br>Joyno, JR<br>Joyno, CQ |
| Optimization of oil yield from <i>Hevea brasiliensis</i> seeds through ultrasonic-assisted solvent extraction via response surface methodology                   | Optimization and Characterization of bio-oil produced from <i>Ricinus communis</i> seeds via ultrasonic-assisted solvent extraction through response surface methodology | Sustainable Environment Research              | Mabayo, VI<br>Arazo, RO<br>Ido, AL             |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor  | Optimization and Characterization of bio-oil produced from <i>Ricinus communis</i> seeds via ultrasonic-assisted solvent extraction through response surface methodology | Sustainable Environment Research              | Arazo, RO                                      |

| Title of Paper Cited  | Citing Paper   | Title of Journal/ Book  | Authors                            |
|---|--|---|------------------------------------|
| Application of central composite design in the optimization of lipid yield from <i>Scenedesmus obliquus</i> microalgae by ultrasonic -assisted solvent extraction | Optimization and Characterization of bio-oil produced from <i>Ricinus communis</i> seeds via ultrasonic-assisted solvent extraction through response surface methodology | Sustainable Environment Research                              | Ido, AL                            |
| Biodiesel production from <i>Swietenia macrophylla</i> (Mahogany) seeds   | Sodium Hydroxide is an effective catalyst for synthesis of Biodiesel from <i>Swietenia macrophylla</i> seeds   | International Journal of Scientific & Engineering             | Mugot, DM<br>Arazo, RO             |
| Assessing biodiesel production from sewage sludge derived bio-oil   | Bio-oil derived from Palm empty fruit bunches: Fast pyrolysis, Liquefaction and future prospects   | Biomass and Bioenergy   | Arazo, RO                          |
| Bio-oil production from dry sewage sludge by fast pyrolysis in an electrically-heated fluidized bed reactor   | Utilization of municipal sludge in adsorption of cadmium and phenol in Saudi Arabia  | Desalination and Water Treatment                              | Arazo, RO                          |
| Removal of Sodium diclofenac from aqueous solution by adsorbents derived from cocoa   | Magnetic quaternary chitosan hybrid nanoparticles for the efficient uptake of diclofenac from water  | Carbohydrate Polymers   | Arazo, RO                          |
| Assessing biodiesel production from sewage sludge derived bio-oil   | Efficiency of Calcium carbonate from eggshells as an adsorbent for cadmium removal in aqueous solution   | Sustainable Environment Research                              | Arazo, RO                          |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals  | Efficiency of Calcium carbonate from eggshells as an adsorbent for cadmium removal in aqueous solution   | Sustainable Environment Research                              | Arazo, RO                          |
| An inventory of Avian Species within and outside the hydraulic king mining area   | Inventory and Morphometric of Anuran Species Found in Mt. Kilala of the Mt. Hamiguitan Range Wildlife Sanctuary, Governor Generoso, Davao Oriental, Philippines          | Philippine Journal of Science 147 (4): 629-638, December 2018 | Mugot, DM                          |
| Assessing biodiesel production from sewage sludge derived bio-oil   | Efficiency of Calcium carbonate from eggshells as an adsorbent for cadmium removal in aqueous solution   | Sustainable Environment Research                              | Arazo, RO                          |
| Optimization of oil yield from <i>Hevea brasiliensis</i> seeds through ultrasonic-assisted solvent extraction via response surface methodology                    | Efficiency of Calcium carbonate from eggshells as an adsorbent for cadmium removal in aqueous solution   | Sustainable Environment Research                              | Mabayo, VI<br>Ido, AL<br>Arazo, RO |

## APPENDIX 17

| Title of Paper Cited  | Citing Paper  | Title of Journal/<br>Book                                      | Authors                            |
|---|---|--|------------------------------------|
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge   | Effect of pyrolysis temperature on characteristics, chemical speciation and risk evaluation of heavy metals in biochar derived from textile dyeing sludge | Ecotoxicology and Environmental Safety                         | Arazo, RO                          |
| Removal of Sodium diclofenac from aqueous solution by adsorbents derived from cocoa pod husk  | Moringa oliefera biomass residue for the removal of pharmaceuticals from water  | Journal of Environmental Chemical safety                       | Arazo, RO                          |
| Leaching of heavy metals from fast pyrolysis residues produced from different particle sizes of sewage sludge   | Chapter 19 - Potential toxic compounds in Biochar: Knowledge gaps between biochar research safety   | Biochar from Biomass and waste (Fundamentals and Applications) | Arazo, RO                          |
| Effects of pyrolysis temperature on product yields and energy recovery from co-feeding of cotton gin trash, cow manure and microalgae: A simulation study | Systematic analysis of Biomass derived fuels for fuel cells   | International Journal of Hydrogen Energy                       | Arazo, RO                          |
| Optimization of oil yield from Hevea brasiliensis seeds through ultrasonic-assisted solvent extraction via response surface methodology                   | Removal of sludge from waste Automotive engine using response suffice methodology   | Universal Review Journal                                       | Mabayo, VI<br>Ido, AL<br>Arazo, RO |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals  | Adsorption Behavior of Inorganic and Organic Phosphate by Iron Manganese Plaques on Reed Roots in Wetlands  | Sustainability Journal   | Arazo, RO                          |
| Hexavalent chromium removal from aqueous solution by adsorbents synthesized from groundwater treatment residuals  | Sodium diclofenac removal from a pharmaceutical wastewater by electro Fenton process  | Separation Science and Technology                              | Arazo, RO                          |
| In situ transification of Chlorella sp. Microalgae using LiOH-pumice catalyst   | Simultaneous extraction-reaction process for biodiesel production from microalgae   | Energy Reports   | Ido, AL                            |

*Completed Research and Development Projects/Studies*

| Title of Research  | Proponents  | Date Started | Date Completed | Source of Funds    |
|--|---|--------------|----------------|--------------------|
| Growth and Yield Performance of Lettuce grown under Different Levels of Drip Irrigation under Protected Structure  | Gonzaga, NR<br>Gonzaga, AB Jr.<br>Pepito, SL<br>Octavio, RP<br>Gordon, R              | 2017         | 2018           | ACIAR - ICM        |
| Influence of Various Irrigation System on the Growth and Yield of Lettuce under Protected Structure  | Gonzaga, NR<br>Gonzaga, AB Jr.<br>Pepito, SL<br>Octavio, RP<br>Gordon, R<br>Harper, S | 2017         | 2018           | ACIAR - ICM        |
| Growth and Yield Response of High-value Vegetable on different Irrigation Method   | Gonzaga, NR<br>Gonzaga, AB Jr.<br>Pepito, SL<br>Octavio, RP<br>Gordon, R              | 2016         | 2018           | ACIAR - ICM        |
| Growth, Yield and Postharvest quality of Cabbage ( <i>Brassica oleracea</i> L.) in response to different level of Nitrogen fertilizer  | Gonzaga, AB Jr,<br>Gonzaga, NR<br>Pepito, SLA<br>Octavio RP Harper, S                 | 2016         | 2018           | ACIAR - ICM        |
| Pest Dynamics of Lettuce as influenced by variety and levels of nitrogen in the vegetable bowl of Misamis Oriental   | Salatan, ET<br>Gonzaga, AB Jr,<br>Gonzaga, NR<br>Pepito, SLA<br>Octavio, R            | 2017         | 2018           | ACIAR - ICM        |
| Yield Performance of Green Onion ( <i>Allium fistulosum</i> ) as Influence by Different Planting Distances and Organic and Inorganic Fertilizer  | Gonzaga, NR<br>Gonzaga, AB Jr,<br>Dollen, AT<br>Alcarde, ML<br>Quirino, RA            | 2017         | 2018           | USTP<br>Claveria   |
| Yield Performance of Cassava ( <i>Manihot esculenta</i> ) as Influence by Different Detopping Intervals under Claveria Condition   | Gonzaga, NR<br>Gonzaga, AB Jr<br>Sarausa DM<br>Alcarde, ML<br>Quirino, RA             | 2016         | 2018           | USTP<br>Claveria   |
| Bio-efficacy evaluation of mushroom ( <i>Pleurotus ostreatus</i> ) waste extract as foliar spray on the yield of cabbage, cauliflower ( <i>Brassica oleracea</i> ) and lettuce ( <i>Lactuca sativa</i> ) | Alcantara, CG<br>Gonzaga, NR Quirino,<br>RA Abregana, L<br>Dollen, AT                 | 2016         | 2018           | USTP<br>Claveria   |
| LAMISCA Farmer's Irrigators Satisfaction Survey CY 2017  | Gonzaga, NR Quirino,<br>RA  | Nov-2018     | Dec-2018       | NIA-LAMISCA<br>IMO |



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| Title of Research   | Proponents  | 2016     | 2018       | USTP Claveria     |
|---|---|----------|------------|-------------------|
| Assesing bioethanol extraction from waste pulps of Cassava ( <i>Manihot esculenta</i> Crantz) via aerobic fermentation  | Arazo, RO<br>Cubio, GM<br>Ido, AL                                       | Jan 2017 | March 2018 | USTP Claveria CET |
| Optimized Production of Biogas from Waste Pulps of Cassava ( <i>Manihot esculenta</i> Crantz) via anaerobic fermentation through reponse surface methodology        | Arazo, RO<br>Cubio, GM<br>Ido, AL                                       | Jan 2017 | March 2018 | USTP Claveria CET |
| Agronomic Efficiency of Cassava ( <i>Manihot esculenta</i> ) as Influence by Methods of Planting under Claveria Condition   | Gonzaga AB, Jr,<br>Gonzaga NR<br>Quirino RA<br>Sarausa DM<br>Alcarde MI | 2016     | 2018       | USTP Claveria     |
| Optimization and characterization of bio-oil produced from <i>Ricinus communis</i> seeds via ultrasonic-assisted extraction through response surface methodology    | Arazo, RO<br>Tizo, MS<br>Ido, AL  | Jan 2017 | March 2018 | USTP Claveria CET |
| Increased bio-oil yield from <i>Swietenia macrophylla</i> seeds through microwave pretreatment and ultrasonic assisted solvent extraction                           | Arazo, RO<br>Joyno, JRQ<br>Joyno, CQ<br>Ido, AL                         | Jan 2017 | March 2018 | USTP Claveria CET |
| Optimized bio-oil yield from <i>Swietenia macrophylla</i> seeds via ultrasonic cavitation through response surface methodology                                      | Arazo, RO<br>Joyno, JRQ<br>Joyno, CQ<br>Ido, AL                         | Jan 2017 | March 2018 | USTP Claveria CET |
| Assessment of duckweed ( <i>Lemna minor</i> L.) plant potential in treating lead-contaminated water through phytoremediation in stationary and recirculated set-ups | Ido, AL<br>Mabayo, VI<br>Arazo, RO                                      | Jan 2017 | March 2018 | USTP Claveria CET |

*On-going Research and Development Projects/Studies*

| Project Title  | Study Title   | Researchers   | Duration                 |
|--|---|---|--------------------------|
| Biofuel Production from Biomass  | Production of bioethanol and biogas from cassava waste pulp through aerobic and anaerobic fermentation                                  | Arazo, RO<br>Ido, AL<br>Cubio, G<br>Joyno, JRQ  | 2017-2018                |
| Productivity Evaluation of Organic Passion Fruit   | Production of Bio-oil from rice bran through ultrasonic assisted solvent extraction   | NR Gonzaga<br>AB Gonzaga<br>Alcarde ML<br>RA Quirino  | 2017-2018                |
| Project 2.1 Community-Level SARAI-Enhanced Agricultural Monitoring System (CL SEAMS) and Crop Advisories                                       | Sub-Program 2: Crop Environment Monitoring and Forecasting  | Gonzaga, AB Jr.<br>Gonzaga, NR<br>Taylaran, RD<br>Batuigas, AMT<br>Sarausa, DM<br>Nagal, CJ |                          |
| Harnessing the Economic Potential of Underutilized Root Tuber, Ube ( <i>Dioscorea alata</i> Linn.) through Research, Development and Extension | Agronomic Performance of Selected Ube Varieties under Claveria condition  | Gonzaga, Jr., AB  | 2018-2020                |
|  | Yield Performance of Ube as Influenced by Varying Setts Preparation   | Alcantara, CG<br>Dollen, AT<br>Abregana, L  |                          |
|  | Efficiency of using pre-sprouted and non-sprouted ube as planting materials with varying fertilizer recommendations                     | Gonzaga, NR   |                          |
|  | Performance of pruned and unpruned ube with different staking designs   | Taylaran, RD  |                          |
|  | Postharvest quality of ube using different storage facilities   | Quirino, RA   |                          |
|  | Ube peeling as potential feed source for native chicken   | Hebron, IU<br>Alcarde, ML   |                          |
|  | Development of Ube ( <i>Dioscorea</i> spp.) Tubers into Herbal Capsule and Juice  | Quirino, RA   |                          |
|  | Varietal evaluation of ube varieties as good source for nutraceutical products  | Alcantara, CG<br>Magallanes, J  |                          |
|  | Extension Component<br>Conduct of trainings on:<br>1. Community organizing<br>2. Ube production Ube processing<br>3. Farm Business Plan | Gonzaga, NR;<br>Alcantara, CG;<br>Sevandal, R;<br>Quirino, RA                               |                          |
|  | Yield Performance of Pole Sitao ( <i>Vigna unguilata</i> ) As Influence By De topping Intervals   | Gonzaga AB<br>Gonzaga NR<br>Dollen AT<br>Sarausa DM   | June 2017 -<br>June 2019 |

## APPENDIX 20

### *Funded Research Projects/Studies (USTP Claveria)*

| Funded Research Projects/<br>Studies | Number Of Research Funded  |
|--------------------------------------|--|
| External                             | Optimization of the Production and Uses of FertiGroe N, P and K Nanofertilizers in Selected Agricultural Crops   |
|                                      | Farmers Satisfaction Survey Report – CY 2018 for 35 Communal Irrigation Systems (CIS) Irrigators Associations within LAMISCA IMO                             |
|                                      | Farmers Satisfaction Survey Report – CY 2018 for 10 National Irrigation Systems (NIS) Irrigators Associations within LAMISCA IMO                             |
|                                      | Yield Performance of Passion Fruit ( <i>Passiflora edulis</i> var. <i>flavicarpa</i> ) in Response to Different Organic Amendments                           |
|                                      | Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines (SARAI) Phase 2. Sub-Program 2: Crop Environment Monitoring and Forecasting |
|                                      | HORT 020: Integrated Crop Management (ICM) to enhance vegetable profitability and food security in the Southern Philippines and Australia                    |
|                                      | SMCN/2012/029 “Soil and nutrient management strategies for sustainable vegetable production in Southern Philippines  |
| Institutional                        | Performance Evaluation of Dragon Fruit under Mid-Elevation Areas in Claveria, Northern Mindanao  |
|                                      | Yield Performance of Pole Sitao ( <i>Vigna unguilata</i> ) As Influence by De topping Intervals  |
|                                      | Harnessing the Economic Potential of Underutilized Root Tuber, Ube ( <i>Dioscorea alata</i> Linn.) through Research, Development and Extension               |
|                                      | Yield Performance of Green Onion ( <i>Allium fistulosum</i> ) As Influence by Different Planting Distance and Organic and In-organic Fertilization           |
|                                      | Agronomic Efficiency of cassava ( <i>Manihot esculenta</i> ) as influence by Detopping Intervals   |
|                                      | Biofuel Production from Biomass  |
|                                      | Student’s satisfaction survey on the Office of Student Affairs services  |
|                                      | Academic performance and health behaviors of MOSCAT students   |

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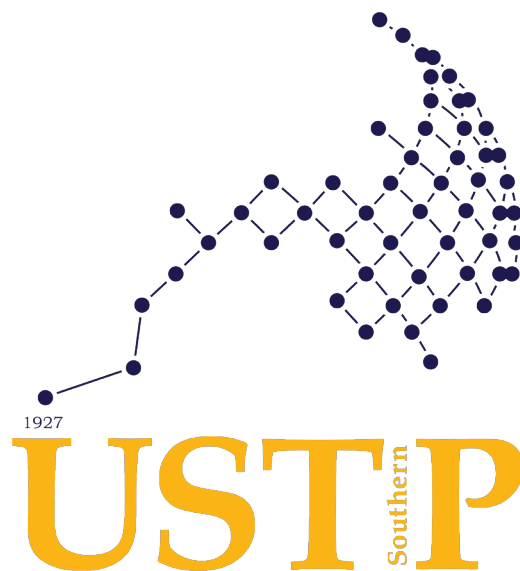
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