

BATANGAS STATE UNIVERSITY  
**CHRONICLE**

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*Merry  
Christmas!*

**WISHING  
YOU  
blessings,  
love,  
and joy  
THIS  
SEASON**



*Leading Innovations, Transforming Lives*



# Bat State U

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BATANGAS STATE UNIVERSITY

# CHRONICLE

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# NEWS



# BatStateU receives ISO 9001:2015 certification



**CERTIFIED.** University President Dr. Tirso A. Ronquillo faces evaluation by ISO external auditors as the top management process owner (center photo); The ISO 9001:2015 test mark logo for BatStateU awarded by TÜV Rheinland Philippines, Inc. after the successful certification (photo inset).

Batangas State University officially received its ISO 9001:2015 certification from TÜV Rheinland Philippines, Inc.

This was awarded after the university surpassed the first surveillance audit conducted on September 4 at four BatStateU campuses: Pablo Borbon Main I and II, ARASOF-Nasugbu and JPLPC-Malvar. The ISO certification covers the scope of design, development and implementation of higher education services.

Ms. Jean Laguitao, Mr. Hilario Capili, Mr. Lionell Aala, and Ms. Elisa Cruz were the auditors sent by the external certification body to lead the surveillance visit.

The university incurred zero non-conformity and has been regarded with positive feedback on its curricular design and development. According to Ms. Laguitao (Audit Leader), the university has displayed its full commitment to continuous improvement in providing efficient services to its clients. High rating for customer satisfaction was also maintained with zero complaints recorded.

University President Dr. Tirso A.

Ronquillo congratulated the members of the academic community in his speech during the closing program. He recognized the joint efforts of Ms. Helen A. Evalle (ISO Consultant), Prof. Rogelio A. Antenor (University ISO Focal Person), Asst. Prof. Jovito P. Permante (JPLPC-Malvar ISO Focal Person), Assoc. Prof. Erwin A. Caparas (ARASOF-Nasugbu ISO Focal Person), Dr. Michael C. Godoy (University Lead Auditor), Engr. Mario G. Bukas (Documents Controller), and the staff of the Quality Assurance

Office, in leading the university's transitioning to ISO 9001:2015.

"The university's commitment to provide quality service does not end here" said Dr. Ronquillo. He encouraged the academic community to continue the delivery of genuine services to its customers without expecting anything in return from them.

ISO 9001:2015 is the latest set of standards developed by the International Organization for Standardization (ISO).



**QUALITY ASSURANCE.** As one of the audit areas, the Office of Guidance and Counseling undergoes document review to assess its adherence to the international standards set by ISO.

# BatStateU collaborates with Chinese universities on energy, power

Batangas State University formed collaborations with Shanghai University of Electric Power, Shanghai Electric Power Construction (SEPC), and other universities and enterprises on energy and electricity during the Regional Energy Interconnection Forum on October 25-27 at Yangpu District, Shanghai, China.

In July of this year, representatives from SUEP and SEPC flew to BatStateU and signed a memorandum of understanding (MoU) to build partnerships and provide opportunities for faculty members and students to actively participate in educational programs and practices in the areas of academic, administrative and professional development.

On October 26, the International Association of Universities for the Development of Electric Power Technologies' (ADEPT) history was introduced to the delegates, and the "B&R (Belt and Road) Regional Association of Energy and Power Universities" (RAEP) and the "B&R Cooperation of Energy Industries and Universities" (CEIU) were established, with BatStateU as one of founding members and signatories.

RAEP and CEIU are associations that seek to strengthen the cultural exchanges and mutual learning within the universities of different countries, and jointly promote the peaceful development of Asia.

The B&R Initiative (BRI), also known as the Silk Road Economic Belt (SREB) and the 21st Century Maritime Silk Road (MSR), was an initiative by China to hopefully "strengthen the



**SEPC-BATSTATEU PARTNERSHIP.** BatStateU and SEPC discuss possible collaborations, which include the exchange of faculty and employees, and industry immersions.

infrastructure trade and investment links between China and some 65 other countries that account collectively for over 30% of global GDP, 62% of population, and 75% of known energy reserves". It was made to enhance the connections among Asia, Europe and Africa to have better trade flows and improve regional economic growth and development.

Meanwhile, on the 2<sup>nd</sup> day, a memorandum of agreement (MoA)

was signed by BatStateU President Tirso Ronquillo, Asia Development Bank Energy and Technology Chief Consultant Zhai Yongping, and the Dean of Federation University Australia's Institute and Technology Department Syed Islam for the Nikola Tesla Museum and the Nikola Tesla Institute.

Furthermore, the conference reinforced BatStateU's ties with SEPC, discussing plans for the university's faculty and employees. A possible collaboration between SEPC and BatStateU on the establishment of the BatStateU Technopark was also discussed.

The BatStateU representatives who attended the said conference were Dr. Ronquillo, University and Board Secretary Enrico Dalangin, and BatStateU JPLPC-Malvar, Lipa City and Mabini Campuses Executive Director Expedito Acorda.



**BENCHMARKING SUEP.** BatStateU officials watch a video presentation showcasing the best practices of Shanghai University Electric Power. This was followed by a visit on the university's laboratories, which house their equipment on power generation.



## ABET visits BatStateU undergrad programs

Striving for global competencies, Batangas State University was visited by the Engineering and Computing Accreditation Commissions (EAC and CAC) of the Accreditation Board for Engineering and Technology (ABET) for an on-site evaluation of three of its undergraduate programs in engineering and informatics, October 29-31.

ABET is a US-based organization that accredits academic programs in

the fields of natural science, engineering and computing science in colleges and universities worldwide.

The programs visited were the Bachelor of Science in Computer Engineering, Bachelor of Science in Sanitary Engineering, and the Bachelor of Science in Information Technology.

EAC Chair Dr. Janet Callagan explained the purpose of the accreditation. "We do assessment to

see what students have learned and not learned, and we use the results to improve the program and make a better process."

Focusing on the round symbolism of the ABET logo, the EAC Chair also expressed her admiration for BatStateU as "the principle of continuous improvement is embraced by the entire university and not just in engineering."

During the on-site visit, the program evaluators assessed the program's adherence to the ABET standards through review of instructional materials, classroom and laboratory visits, and interviews with officials, faculty members, staff and students of concerned colleges.

With six engineering programs accredited by ABET on November 23, 2016, BatStateU is the first state university in the Philippines to have programs accredited by ABET.

Given the accreditation status, the programs, faculty and graduates of the university are proven to be globally competitive in education and profession.



**WORLD-CLASS EDUCATION.** Left to right: Dr. Richard Kai (IT Program Evaluator [PEV]), Dr. Amos Olanjuju (IT PEV), Dr. Janet Callagan (EAC Chair), Dr. Cary Laxer (CAC Chair), Dr. Tirso Ronquillo (BatStateU President), Dr. Shridhar Malayappan (CpE PEV) and Dr. Prahlad Murthy (SE PEV) during the opening program of the ABET accreditation, October 29.

## Five programs face AACUP Level IV Phase I accreditation visit

Five programs of the university underwent Level IV Phase I accreditation by the Accrediting Agency of Chartered Colleges and Universities in the Philippines (AACUP) on November 19-23 held at BatStateU Pablo Borbon Main II, Batangas City.

BS Civil Engineering, BS Computer Engineering, BS Electrical Engineering, BS Electronics Engineering and Bachelor of Industrial Technology were the programs assessed by the AACUP survey team. These programs were evaluated based on the following areas: Area I (Vision, Mission, Goals and Objectives); Area II (Faculty); Area III (Curriculum and Instruction); Area IV (Support to Students); Area V (Research), Area VI (Extension and Community Involvement); Area VII (Library); Area VIII (Physical Plant and Facilities); Area IX (Laboratories); and Area X (Administration).

During the opening program, the Vice President for Academic Affairs Dr. Erma B. Quinay, imparted the university's strong commitment to quality education, making sure that all its programs are at par with international standards.

Survey Team Coordinator Dr. Helen F. Delos Santos, on the other

hand, gave the statement of purpose and introduced the members of the team which include AACUP Executive Director Dr. Manuel T. Corpus, as the consultant.

According to Dr. Delos Santos, each program must have a minimum grand mean of 4.50 with 5.00 as the maximum, to qualify for Level IV status.



**UNDER EVALUATION.** The accreditors interview the teaching and non-teaching employees of the five programs under evaluation to assess their competence and compliance to the set of standards and requirements established by AACUP.

## Team SIGAW bags National Gawad KALASAG award



**FOR THE COUNTRY.** BatStateU Team SIGAW (Solar-Powered Isotropic Generator of Acoustic Wave) bags the Special Recognition (Group Category) Award in the 20th National Gawad KALASAG Search for Excellence in Disaster Risk Reduction and Management (DRRM) and Humanitarian Assistance.

Batangas State University's Team SIGAW (Solar-Powered Isotropic Generator of Acoustic Wave) proved excellence in humanitarian service as it bagged the Special Recognition (Group Category) in the 20th National Gawad KALASAG Search for Excellence in Disaster Risk

Reduction and Management (DRRM) and Humanitarian Assistance at the AFP Theater in Quezon City, December 4.

Organized by the Office of Civil Defense - National Disaster Risk Reduction and Management Council (NDRRMC), the Gawad KALASAG

(Kalamidad at Sakuna Labanan SARiling Galing ang Kaligtasan) is an annual awarding ceremony for significant initiatives in the promotion and advancement of DRRM in the country.

This year's ceremonies were graced by NDRRMC Chairperson and National Defense Secretary Delfin N. Lorenzana, as the guest of honor and speaker, who led the conferment of GK national awards together with NDRRMC Executive Director and OCD Administrator Usec. Ricardo B. Jalad and Department of Interior and Local Government Assistant Secretary Manuel B. Felix.

BatStateU President Dr. Tirso A. Ronquillo and Vice President for Research, Development and Extension Services Engr. Albertson D. Amante received the award on behalf of the project team composed of Emmanuel Bobis, Eugene Ereño, Carlito Mayo and Rojay Flores.

Committed to develop high-impact researches for the community, SIGAW was designed and developed as a tsunami early warning device for seaside communities. In 2015, the university started the installation of 17 units of SIGAW units in the province of Batangas.

## CHED, UniFAST hold 2nd NSRTS 2018

The Commission on Higher Education (CHED) and the Unified Financial Assistance System for Tertiary Education (UniFAST) hosted the 2nd NSRTS Summit 2018 at the Development Academy of the Philippines in Tagaytay City, November 24-26.

More than 400 student leaders from all over the country attended the said summit. The event was projected to define the importance of the student leaders' role in the framework of state universities and colleges in Philippine higher education institutions for the academic year 2018-2019.

Among the speakers in the summit were CHED and UniFAST Governing Board Chairperson J. Prospero De Vera III, Philippine Association of State Universities and Colleges (PASUC) President Tirso A. Ronquillo, Naval State University OIC-President



**FUTURE LEADERS.** PASUC President Dr. Tirso A. Ronquillo encourages the regents and trustees to be role models for their fellow students and to advance developmental agenda to the Board.

and Philippine Federation of State Universities and Colleges Student Leaders Inc. (PFSUCSLI) Adviser Victor C. Cañez, Jr., RA 10931 co-author and Cabinet Secretary Karlo Alexi Nograles, Senator Sherwin "Win" Gatchalian, and Presidential Legislative Liaison Office

Undersecretary Attorney Ryan Estevez.

The student regents and trustees signed the pledge of commitment to show their pledge in continuously improving the aid for students who are members of the Pantawid Pamilyang Pilipino Program (4Ps).

## BatStateU hosts IEC, Advocacy on Federalism forum

Batangas State University hosted the forum for the Information, Education and Communication (IEC) and Advocacy on Federalism to higher education stakeholders in CALABARZON, October 26.

Conducted by the Commission on Higher Education (CHED) and the Consultative Committee (ConCom) to Review the 1987 Constitution, the forum is a series of discussions held in different regions that aimed to spread awareness and tackle concerns on federalism.

Atty. Susan U. Ordinario, ConCom Commissioner, gave the overview of the draft federal constitution, while Atty. Joselito C. Alisuag, CHED-Office of Institutional Quality Assurance and Governance Director, talked about the profile of Region IV and its Higher Education Institutions. Dr. J. Prospero E. De Vera II, Chairperson of the Commission on Higher Education shared an outlook of higher education in a federal constitution.

Dr. De Vera emphasized that there is no single structure of federalism that the country should follow since each federal country has its own structure depending on what the country needs. He suggested that the Philippines



**FEDERALISM ADVOCACY.** Left to right at the interview panel: Vice President for Administration and Finance Atty. Luzviminda Rosales, ConCom Commissioner Atty. Susan U. Ordinario, CHED Chairperson Dr. J. Prospero E. De Vera II, and OIC Director IV of CHEDRO IV Dr. Juliet M. Paras during the IEC and Advocacy on Federalism to Higher Education Stakeholders press conference.

should put the decision-making and creation of guidelines for higher education institutions under the federal government, and allow implementation per state so as to avoid confusion and still have uniformity among SUCs and LUCs.

Before the forum, a press

conference with national and local media was held at the Function Hall of 7<sup>th</sup> floor, CIRTC Building, Pablo Borbon Main I with Dr. De Vera, Atty. Ordinario, Dr. Paras, and BatStateU Vice President for Administration and Finance Atty. Luzviminda Rosales as speakers in the panel.

## PDRRMC recognizes BatStateU in 2018 year end evaluation



**COUNCIL AWARDEE.** BatStateU VP for Administration and Finance Atty. Luzviminda C. Rosales receives the plaque of recognition for Batangas State University during PDRRMC's Year End Evaluation and Recognition, December 17.

The Batangas Provincial Disaster Risk Reduction Management Council (PDRRMC) awarded Batangas State University a plaque of recognition at the Provincial Auditorium, Hilltop Capitol, Batangas City, December 17.

The university received recognition for its commitment and support to the latter's initiatives on disaster preparedness, prevention, mitigation, response, recovery and rehabilitation.

Vice President for Administration and Finance Atty. Luzviminda C. Rosales received the award during PDRRMC's Year End Evaluation and Recognition.

Twenty-nine institutions and agencies including BatStateU were recognized during the event which was graced by Batangas Governor Hermilando "Dodo" Mandanas, Office of Civil Defense Region IV-A Director Olivia M. Luces and Batangas DRRM officials.

# BatStateU, RDC join hands for Yakap Bayan

The Batangas State University community joined the Regional Development Council in the conduct of community outreach activities under the Yakap Bayan program on October 12 and November 26 in Calatagan and San Juan, Batangas.

Yakap Bayan is an inter-agency program that aims to promote social development in the region by making government services accessible to the community. It was initiated by Secretary Jose Maria Nicomedes Hernandez of the Office of the Presidential Adviser for Southern Tagalog.

## Calatagan: Mobilization and Support Program

Three barangays in Calatagan were visited as beneficiaries of the program – Barangay Bukal, Brgy. Hukay and Brgy. Encarnacion.

In his opening message, Department of Social Welfare and Development (DSWD) Assistant Secretary Jose Antonio Hernandez imparted the government's initiatives on extending help and assistance to various communities. He also elaborated on the program's objective of making government services accessible to them.

Each barangay received a check worth Php 16,666.67 for the purchase of a shallow tubewell. In addition, seeds, seedlings, medicines, slippers for fisherfolks, snacks, banig & malong for senior citizens, and an irrigation pump were given to the



**REACHING OUT.** NEDA IV-A Regional Director Luis G. Banua and BatStateU officials distribute school bags to the elementary students of Bukal, Hukay and Encarnacion schools.

residents of the barangays. They also enjoyed free health and grooming services, such as medical & dental services, manicure, pedicure, haircut and massage from participating government agencies.

A total of 754 indigent pupils of Bukal, Hukay and Encarnacion Elementary Schools received school supplies and food packs. BatStateU also distributed raincoats to the students through Asst. Prof. Armando V. Mendoza, Jr., Director for Extension Services; Engr. Edzel M. Gamab, Director for External Affairs; Dr. Agnes D. Arellano, Asst. Director for Alumni Affairs; and Dr. Vanessa V. Castillo, Director for Public Relations.

Mayor Peter Oliver M. Palacio expressed his gratitude to the organizers and donors of the activity.

## San Juan: All-in-One Bayanihan

Brgy. Laiya Aplaya was selected for the Yakap Bayan outreach activity in San Juan, Batangas. Barangay Captain Wivin Llana and Mayor Rodolfo Manalo welcomed the residents and program partners during the activity.

DSWD Asst. Secretary Hernandez thanked the public agencies and private organizations that contributed in the government's efforts of facilitating development in the region. Brigadier General Arnulfo Marcelo B. Burgor, Jr., Commander of 202<sup>nd</sup> Brigade of the Armed Forces of the Philippines, and San Juan Chief of Police Major Rosel Encarnacion, also attended the activity, expressing their commitment to support the initiatives of RDC by promoting peace and order in the region.

BatStateU President Tirso A. Ronquillo and National Economic Development Authority Region IV-A Director Luis G. Banua were also present in the event.

Book supplies, food supplements, rice sacks, coconut seedlings, and solar lamps with radio and walkers were distributed to the beneficiaries. At the end of the event, delegates of participating government agencies and private sectors joined hands together with the beneficiaries to show their unity towards regional development.



**JOINED HANDS.** Government agencies, private sector, and local residents stand hand-in-hand to symbolize their cooperation and support for the development of the region.

# Hernandez hailed as region's most outstanding GAD implementer

The Regional Development Council (RDC) IV-A hailed Batangas State University's Gender and Development Assistant Director Maria Theresa Arellano-Hernandez as the Most Outstanding GAD Implementer in CALABARZON under the Individual Category.

The awarding ceremonies were held during the Regional Development Council Full Meeting at NEDA IV-A, Calamba City, December 6.

The awards are given to acknowledge the initiatives of private organizations, government agencies, higher education institutions, and individuals in promoting and mainstreaming gender and development principles in the region.

Through the leadership of Assistant Director Hernandez, Batangas State University also gained recognition as the First Runner-Up under the State Universities and Colleges Category. She received



**MOST OUTSTANDING GAD IMPLEMENTER.** BatStateU Asst. Director for Gender and Development Maria Theresa A. Hernandez (center) receives a plaque of recognition from National Economic Development Authority IV-A Director Luis G. Banua, Regional Development Council (RDC) IV-A Chairperson and Batangas Governor Hermilando I. Mandanas, Southern Tagalog Presidential Adviser Secretary Jose Maria Nicomedes Hernandez, and RDC IV-A Co-Chairperson Engr. Ladislao Andal (left to right).

the award on behalf of University President Dr. Tirso A. Ronquillo.

Winners in other categories were the Department of Social Welfare and Development Region IV-A for

regional line agencies; Quezon under the province category; Cavite State University under the SUC category, and Laguna State Polytechnic University as second runner-up.

## University hosts SCSD/SP 4<sup>th</sup> quarter meeting



**PARTNERS IN REGIONAL DEVELOPMENT.** On behalf of the university, VPAF Atty. Luzviminda C. Rosales receives the resolution of appreciation for hosting the 2018 fourth quarter SCSD/SP meeting from CALABARZON RDC Director and SCSD/SP Vice-Chairperson Luis G. Banua.

Batangas State University hosted the 4<sup>th</sup> quarter meeting of the Sectoral Committee on Social Development/Social Protection (SCSD/SP) at the Function Hall, 7<sup>th</sup> Floor, CIRTC Building, BatStateU Pablo Borbon Main I, Batangas City, November 6.

National Economic Development Authority (NEDA) IV-A Director Luis G. Banua presided the meeting as the Vice Chairperson for SCSD/SP. Vice President for Administration and Finance (VPAF) Atty. Luzviminda C. Rosales represented BatStateU President Dr. Tirso A. Ronquillo, who is also the Chairperson for SCSD/SP.

The status of SCSD/SP banner projects, 2019 work programs, various reports of SCSD/SP's subcommittees, and thrusts and initiatives of state universities and member agencies in CALABARZON were discussed during the meeting.

As part of the agenda, the BatStateU Inclusive Social Innovation for Regional Growth (BISIG) was endorsed to the Regional Development Council Region IV-A,

after the presentation given by Engr. Neres Ann S. Manguiat, University Research Associate I at the university's Center for Technopreneurship and Innovation (CTI).

The establishment of BISIG aims to meet the needs of various communities that will pave the way to sustainable development. This will serve as a social innovation hub in the region that will promote innovative education, relevant researches, high-impact extension projects, regional collaborations, and social enterprises.

Atty. Rosales presented the university's thrusts and priorities for the next ten years called BASICS, which stands for Brand Excellence, Access, Social Relevance, Inclusive Innovation, Capacity and Sustainability. This includes strengthening the university's academic programs, building a smarter campus, creating more comprehensive and community-oriented extension service projects, producing more relevant research outputs, and establishing innovative partnerships between the academic and industry sectors.

## BatStateU hosts RDC IV-A Research & Statistics forum



**STRENGTHENING CAPACITIES.** PSA IV-A Regional Director Charito C. Armonia, CHEDRO IV-A Education Supervisor Freddie B. Bulauan, NEDA Usec. Adoracion M. Navarro, NEDA IV-A Regional Director Luis G. Banua, DOST IV-A Asst. Regional Director Dr. Lydia S. Manguiat, and BatStateU VPRDES Engr. Albertson D. Amante during the recognition of resource persons (top photo); Attendees browse through the poster presentations displayed in the venue (bottom photo).

The Regional Development Council (RDC) Region IV-A held its 5<sup>th</sup> CALABARZON Research & Statistics Forum on October 18 at Batangas State University, Main I, Batangas City as this year's host institution.

Bearing the theme, "Innovations for Competitiveness", the forum gathered academicians and researchers from various government and non-government institutions to promote and strengthen the culture of research and statistical capacities in the region.

As keynote speaker, National Economic and Development Authority (NEDA) Undersecretary Adoracion M. Navarro tackled the country's innovation orientation and R&D efforts, expressing the country's demand for intellectual spaces for innovators to create products and services that can find their way to the global market.

Dr. Cielito F. Habito of BrainTrust, Inc., Dr. Caesar B. Cororaton of the Orient Integrated Development Consultants, Inc., and Dir. Charito Armonia of Philippine Statistics Authority (PSA) IV-A were the plenary session resource speakers.

Poster & research presentations on the fields of governance, economics & environment were held simultaneously. RDC IV-A selected top three best presenters for the poster & research presentations, with cash prizes amounting to Php 3,000.00 to Php 10,000.00.

## CTI attends 2<sup>nd</sup> Technology and Innovation Summit

The Batangas State University Center for Technopreneurship and Innovation (CTI) participated in the 2<sup>nd</sup> Philippine Technology Business Incubator (TBI) Summit on December 19 at the Centennial Hall, Manila Hotel.

Hosted by the Philippine Council for Industry, Energy, and Emerging Technology Research and Development (PCIEERD), the summit brought together government-supported private and university-based TBIs to share their ideas and experiences in starting and developing TBIs.

Panel discussions on the roles of the government and accelerators were held. BatStateU President Dr. Tirso A. Ronquillo was among the panel members of the discussion on the role of incubators in helping startups. Incubator managers from Indonesia and Thailand also shared their best practices in technopreneurship and innovation.



**FILIPINO INNOVATORS.** Together with other speakers, BatStateU President Dr. Tirso A. Ronquillo shared the importance of incubators and accelerators in assisting potential entrepreneurs in starting their own business ventures.

Meanwhile, the BatStateU CTI showcased its services and outputs as a grantee of DOST-PCIEERD. The center featured its academic programs, research linkages, and activities geared towards developing an entrepreneurial ecosystem for faculty members,

students, staff, and local community.

The highlight of the TBI summit was the signing of the Memorandum of Understanding for the Startup Assistance Program 2019-2023, which aims to strengthen and promote the Philippine startup community.

## University welcomes robotics Balik Scientist

Batangas State University welcomed a robotics Balik Scientist for a three-day research writing workshop at the University Wellness Center of BatStateU Main I, October 29-31.

Dr. Rodrigo S. Jamisola, Jr. is a senior lecturer on Robotics and Machine Learning at the Mechanical, Energy and Industrial Engineering Department of the Botswana International University of Science and Technology (IUST).

CEAFA faculty members and mechatronics students attended the said workshop, where the Balik Scientist shared insights on technical writing and research fund sourcing. He divided the BatStateU participants into four teams in preparation for the development of the university's project proposal, the Autonomous Underwater Vehicle for the Monitoring of the Verde Island Passage.



**POWER OF IMAGINATION.** As the lead scientist and president of a research and development company, Dr. Rodrigo S. Jamisola, Jr. believes that the resourcefulness and ingenuity of Filipinos are ingredients that will advance them in the global market.

Dr. Jamisola gave important pointers to remember when writing a proper research paper. According to him, the biggest challenge is following through a project up to the recommendation, and the one who can achieve that will succeed in implementing a research.

Dr. Jamisola is the founder and leader of the Jamisola Research and Development, Inc. The company provides research and development services on projects that involve bio-medical devices, robotics and mechatronics, control systems, simulated environments, or machine vision.

## University cohort incubation program concludes in Palawan

Thirty faculty members underwent the last batch of the CTI University Cohort Incubation Program: Design Thinking Workshop on Technopreneurship and Innovation for 2018 held in Puerto Princesa, Palawan, October 22-24.

The participants engaged in various activities for the course, including the Ideation, Validation, Business Model Canvass, Prototyping, and Pitching – the components of Technopreneurship 101.

Asst. Prof. John Richard Esguerra, together with CTI Staff Neres Ann Manguiat and Emmanuel Bobis, as the facilitators of the workshop, believed that participants can teach the course effectively to their students.

Aside from the workshop, future collaborations and partnerships were also opened to the participating universities and organizations to further expand the reach of CTI.

Participants hailed from the El Nido, Narra, and Main campuses of

Palawan State University, Palawan National High School, Puerto Princesa City Science National High School, Western Philippines University, and JCI Puerto Princesa.

BatStateU is one of the five main Technopreneurship Hubs under the TechHub Program of the Philippine Development Foundation (PhilDev) and the Commission on Higher Education (CHED). The TechHubs were established to promote innovation and entrepreneurship in different regions.



**PROMOTING NATIONAL INNOVATION.** Asst. Prof. John Richard Esguerra opens the design thinking workshop with a brief overview of the program (left photo); The participants and facilitators make heart symbols in support of the TechHub Program of PhilDev and CHED (right photo).

# HIGHLIGHTS





# LOOKING BACK ON 2018

**JANUARY**



BatStateU Target Setting for FY 2018

**FEBRUARY**



Creation of VIP CORALS

**MARCH**



The President's Report 2014-2018

**APRIL**



Quality Management System Awareness Seminar Series

**MAY**



Reappointment of President Ronquillo

**JUNE**



MOA Signing on Free Tuition Law

**JULY**



ASEAN Conference and Exposition on Disaster Risk Management and Climate Change Adaptation 2018

**AUGUST**



First Philippine-Taiwan University Presidents' Forum

**SEPTEMBER**



JPLPC-Malvar's 50th Founding Anniversary

**OCTOBER**



Regional Energy Interconnection Forum

**NOVEMBER**



ISO 9001:2015 Certification

**DECEMBER**



Team SIGAW Special Recognition in 20th National Gawad KALASAG

# benchmarking best practices in the operationalization of technology parks and innovation hubs



Dr. Tirso A. Ronquillo, University President, Assoc. Prof. Albertson D. Amante, VP for Research, Development and Extension Services, and Asst. Prof. John Richard M. Esguerra, BatStateU CTI Staff participated in a study visit at the United States of America for the Commission on Higher Education – Institutional Development and Innovation Grant (CHED – IDIG) Funded project: Establishment of South Luzon Hub for Technopreneurship and Innovation (TechHub). The activity was done in partnership with the Philippine Development Foundation through its Innovation for Social Impact Platform funded by Australian Aid – UNDP.

From November 3 to November 17, they visited research facilities and tech companies in California, namely, MIPS and Wave Computing, Plug and Play in Sunnyvale Silicon Valley, California, and in North Carolina, The Research Triangle

Institute and Research Triangle Park, The Frontier, First Flight, NC Entrepreneurship Clinic, Raleigh Headquarters; NC State Library and NC State Springboard Hub.

The objective of the visit is to benchmark the best practices of different agencies, and to learn how innovation hubs, research centers and technology parks are operated.

The team consisted of representatives from five universities: Batangas State University (BatStateU), University of Science & Technology of Southern Philippines (USTSP), University of San Carlos (USC), St. Louis University (SLU) and University of the Philippines – Diliman (UP Diliman). They also visited different universities, including the University of California Berkeley, Stanford University, University of California Merced, University of California Sta. Cruz, Santa Clara University, and North Carolina State University.



### MEETING WITH MIPS, WAVE COMPUTING AND DADO BANATAO

Wave Computing is a Silicon Valley AI startup specializing in data flow processing of Deep Neural Networks. It acquired MIPS Technologies, an electronics company which has been transitioning from high-performance CPUs to power efficient processors for Internet-Of-Things devices and other low-power applications. Dado Banatao is one of its main investors.



**LEARNINGS:** Role of the academe in the advent of Industry 4.0; Possible Collaboration on Artificial Intelligence (AI) and Data Analytics; Inclusive Social Innovation Partnership (ISIP); and Operations of Tech - Based enterprises and startups in Silicon Valley.



### VISIT TO UC BERKELEY

The UC Berkeley is a public research university in the United States founded in 1868. Berkeley has since grown to instruct over 40,000 students in approximately 350 undergraduate and graduate degree programs. The university is also popular because of their programs on innovation and entrepreneurship, one of which is run by the Sutardja Center for Entrepreneurship and Technology.

**LEARNINGS:** Operation and programs of the Sutardja Center for Entrepreneurship and Technology (SCET), one of the many Technology Business Incubators of UC Berkeley; Incorporation of latest Technology trends such as Data Science and AI in Technopreneurship; and Sustainability plans.



### PLUG AND PLAY TECH CENTER

Plug and Play Tech Center is a network startup accelerator and corporate innovation platform with its global headquarters located in Sunnyvale, California in Silicon Valley. It claims to be the largest accelerator in the world. One of its founders is a Filipino named Jojo Flores. Plug and Play is known as one of the world's largest accelerators.

**LEARNINGS:** How a Filipino - owned tech company made it in Silicon Valley; Partnership Programs; Industry Engagements; and Plug and Play Revenue Stream and Business Model.

### STANFORD UNIVERSITY

Leland Stanford Junior University (often referred to as Stanford University or simply Stanford) is an American private research university in Palo Alto, California. Stanford is known for its academic strength, wealth and proximity to Silicon Valley. Dubbed as a place for learning, discovery, innovation, expression and discourse, it is ranked as one of the world's top universities.

**LEARNINGS:** Operation and programs of the Stanford Technology Venture Programs (STVP); Incubation programs solely for students and faculty members of Stanford; DFJ Entrepreneurial Leaders; ACCEL Innovation Scholars; and eCorner Platform for teaching Technopreneurship.



### SANTA CLARA UNIVERSITY

Located in the heart of Silicon Valley, Santa Clara University combines high-tech innovation with a social consciousness grounded in the Jesuit educational tradition. It houses the Frugal Innovation Hub, which fulfills Santa Clara University's comprehensive and holistic Jesuit mission.

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

UC Santa Cruz is a public university in California. It is a mixture of the intimacy of a small, liberal arts college with the depth and rigor of a major research university. The Cirtris Day in Santa Cruz, Dado Banatao Institute guested distinguished speakers who shared on the emerging applications of Artificial Intelligence.



### UNIVERSITY OF CALIFORNIA, MERCED

UC Merced is a public institution founded in 2005. With more than 7,000 undergraduates, its setting is rural, and the campus size is 815 acres. UC Merced claims to be the only institution in the United States to have all of its buildings on campus to be LEED certified. Its Triple Net Zero Commitment is expected to create zero net landfill waste and zero net greenhouse gas emissions by the year 2020.

**LEARNINGS:** Facilitation of research with the industry through capstone projects; Potential PCARI Collaboration; Operation of UC Merced Venture Lab; Social Innovation aspect of tech - based startups; and Research projects focused on agriculture automation.





### RTI INTERNATIONAL

RTI is an independent, nonprofit institute that provides research, development, and technical services to government and commercial clients worldwide.

**LEARNINGS:** RTI's local and international partner agencies; Social science research and policy; and Innovation strategies.



### NORTH CAROLINA STATE UNIVERSITY

NC State is one of the top schools for undergraduate entrepreneurship studies, according to the Princeton Review and Entrepreneur magazine in 2018. It is known as a leading research enterprise that excels across disciplines.

**LEARNINGS:** Research park and educational campus; Office and lab space for corporate, governmental and not-for-profit entities; and visit to the James B. Hunt Library.



### POOLE COLLEGE OF MANAGEMENT, ENTREPRENEURSHIP CLINIC

Inspired by the university teaching hospital model, the NC State Entrepreneurship Clinic integrates research, teaching and real world experience by providing a place where faculty, students, entrepreneurs and service providers go to teach, learn and build the next generation of businesses in Raleigh.

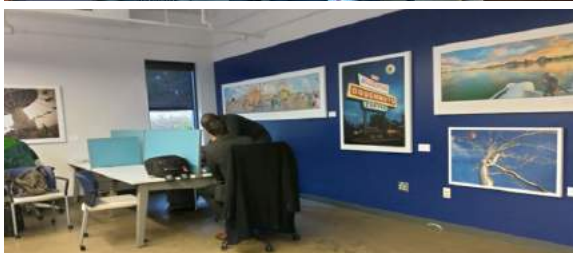


With its headquarters located in Raleigh, one of the Triangle's largest co-working hubs, the Entrepreneurship Clinic immerses students in an entrepreneurial ecosystem. Much like a medical student observing and learning from a surgeon in an operating room, clinicians observe and learn from startup founders.



### THE RESEARCH TRIANGLE PARK

This is the largest research park in the United States, named after the three hub cities of Raleigh, Durham, and Chapel Hill, or more properly for the three major research universities in those three cities (NC State University, Duke University, and the University of North Carolina at Chapel Hill respectively).



**LEARNINGS:** Contribution of the research park to the growth of the state of NC; Uniqueness of Technoparks and their model of operation and services; Global network of Technoparks.

# HOSTING THE FORUM ON FEDERALISM

Batangas State University (BatStateU), in cooperation with the Department of Interior and Local Government (DILG) Region IV-A, the Commission on Higher Education (CHED), and Consultative Committee (ConCom) to Review the 1987 held a forum to intensify public information on federalism at the 4<sup>th</sup> floor, Amphitheater, CITE Building, Pablo Borbon Main I, October 19.

In order to understand the proposed federal system of government in the country, Executive Director of the Local Government Development Foundation Professor Edmund S. Tayao and Atty. Neri Javier Colmenares of Bayan Muna Partylist were invited by BatStateU and DILG Region IV-A as resource persons.

ConCom member Tayao highlighted federalism as the answer to effective governance thus will bring progress to the country, as it hopes to empower the people in the regions to alleviate themselves from poverty.

Atty. Colmenares, on the other hand, said that the system and not the constitution is the reason why the country is still impoverished.

He stressed that the country is poor because of contractualization, corruption and political dynasty.

BatStateU President Dr. Tirso A. Ronquillo acknowledged the efforts of the government to let the Filipinos understand federalism. In his welcome message, Dr. Ronquillo shared among the more than 800 guests and participants from various local government agencies and members of the media the importance of communicating the supporting and opposing arguments of federalism.

Meanwhile, DILG Region IV-A Director Manuel Q. Gotis recognized BatStateU's commitment in supporting the activities of the government and the dedication of the guest speakers in sharing their knowledge and expertise on federalism.

In his closing remarks, Fr. Roy Macatangay recognized the efforts of the credible guest speakers and shared to the audience the importance of information dissemination to be able to fully understand federalism.





*"As an academic, it's still really quite an experience to study the centralization and the federalism in this country because to be honest, some of us might think it's a new idea. But it has always been there ever since... The current public institutions that shape the presidential form of government is outright indigenous... You have to find a way to make local governments work together."*

**Professor Edmund S. Tayao**

*"If some professionals, referring to those group of individuals who have obtained education degree...are not well conversant on the subject matter for this forum, what more can we expect from the other sectors of society whom we call the marginalized and the less-privileged, which to our common knowledge are quite substantial in terms of figures in our demographics? We are hoping for a lot of serious discourse, obviously because of the public interest attached to it."*

**Atty. Ruel V. Canobas**



*"Wala 'yan sa porma ng gobyerno. Of course, it's important. It's not decisive for economic development... wala 'yan sa porma. Kasi kung sa porma ka uunlad, lahat ng bansa nag-federal system na. Kaya sana mawala itong obsession sa form as the solution to our problems."*

**Atty. Neri Javier Colmenares**

*"For a federal form of government to succeed in this country, kailangan may respect for culture and tradition. Dahil kung form of federalism na hiniram sa ibang bansa, baka hindi maging successful tayo... Ito ay para sa ating bansa, para sa ating ikabubuti."*

**DILG Region IV-A Director Manuel Q. Gotis**





# Christmas with the





# RED SPARTANS

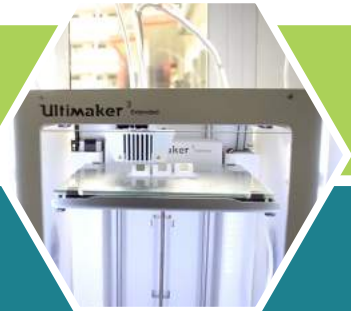
The yuletide season has come again! In the spirit of love and sharing, the Red Spartans gathered to celebrate Christmas at JPLPC-Malvar's newly inaugurated gymnasium on December 21 - a first time for the said campus to host the joyous celebration. The crowd was entertained with lively song and dance performances by representatives from BatStateU's 11 campuses, and enjoyed a holiday feast served with savoury food. It is, indeed, merry to spend Christmas with the Red Spartans.

# Launching the LIKHA-FabLab:

## Labospace for Innovation Knowledge Honing and Application Fabrication Laboratory

The Department of Trade and Industry (DTI) and Batangas State University (BatStateU) launched the LIKHA-FabLab (Labospace for Innovation Knowledge Honing and Application Fabrication Laboratory) on December 27 at BatStateU Pablo Borbon Main II, Batangas City.





With around Php 12 million worth of facilities and equipment, the FabLab is set to function for digital designs, 3D printing, laser engraving/cutting, CNC wood router, vacuum formatting, large format printing, and CNC metal milling. This shall accommodate university students (mostly in the fields of engineering) and micro, small and medium enterprises (MSMEs).

BatStateU President Dr. Tirso A. Ronquillo said that the FabLab would further inspire and motivate students since they will have opportunities to ideate, design products, and afterwards see the whole picture of what they have created using 3D printers. He also mentioned that he is grateful for DTI's commitment and support to BatStateU.

According to DTI Region IV-A Director Marilou Toledo, the agency granted the funds under the Shared Service Facility for MSMEs in collaboration with state universities and colleges. She stressed the essence of using technology to develop products, innovate and achieve maximum production.

Aside from LIKHA-FabLab, DTI IV-A has already launched Antipolo Institute of Technology's first Innovation Design Engineering and Art Fabrication Laboratory (IDEA FabLab) in Rizal and University of the Philippines- Los Baños' Start-up Innovation and Business Opportunity Linkages (SIBOL) in Laguna.





# ***STRATEGIC PLANNING*** ***2019 - 2029***

Setting the goals and milestones of  
Batangas State University for  
the next ten years



BatStateU senior and junior officials convened for a two-day workshop in preparation for its Strategic Plan 2019-2029, a ten-year university development plan, at the Lecture Room, CITE Building, BatStateU Pablo Borbon Main I, Batangas City, December 11 and 12.

“The strategic planning workshop is an opportunity for everybody to dream. If there are obstacles, if there are gaps, the role of the leaders in this room is to essentially remove the obstacles no matter what,” said Former Director of CHED Planning, Research and Knowledge Management Office Dr. Napoleon K. Juanillo as he introduced his lecture, Teaching, Research and Extension Excellence in Global Universities in the Era of Innovation and Industry 4.0.

“To go beyond the ordinary” was instilled into the minds of university administrators in Dr. Juanillo’s lecture which taught them the proper way of creating the most effective strategic plan. “The world is spinning too fast, we want to spin as fast as we can with the world,” he said, articulating the need to set the bars higher.

Before the speaker’s lecture, BatStateU President Dr. Tirso A. Ronquillo presented the accomplishments of the university for the past four years under his administration, enabling the officials to acquire a deeper understanding about the university’s goals. He stated the importance of visioning together towards the ambition of “going global”.

The president’s presentation highlighted the university achievements on eight major areas: 1) educational excellence and improved academic services; 2) research productivity, leadership and innovation; 3) extension services; 4) infrastructure development; 5) financial management; 6) foreign and local partnerships; 7) innovations and good governance; and 8) other significant accomplishments.

As part of the two-day activity, participants went through a series of group activities allowing them to identify concerns starting from how they envision BatStateU graduates and faculty members in the future, to identifying gaps, strengths and points for improvement.



# PROGRAM OFFERINGS

## COLLEGE OF LAW

Bachelor of Laws

## COLLEGE OF ENGINEERING, ARCHITECTURE AND FINE ARTS

Master of Engineering

- Major in Civil Engineering
- Major in Chemical Engineering
- Major in Computer Engineering
- Major in Electrical Engineering
- Major in Electronics Engineering
- Major in Environmental Engineering
- Major in Industrial Engineering
- Major in Mechanical Engineering

Master of Science in Computer Engineering

Master of Science in Electronics Engineering

Bachelor of Science in Chemical Engineering

Bachelor of Science in Civil Engineering

Bachelor of Science in Computer Engineering

Bachelor of Science in Electrical Engineering

- Major in Machine Automation & Process Control
- Major in Renewable Energy Resource Design

Bachelor of Science in Electronics Engineering

- Major in Information & Communication Technology
- Major in Microelectronics

Bachelor of Science in Food Engineering

Bachelor of Science in Industrial Engineering

Bachelor of Science in Instrumentation & Control Engineering

Bachelor of Science in Mechanical Engineering

Bachelor of Science in Mechatronics Engineering

Bachelor of Science in Petroleum Engineering

Bachelor of Science in Sanitary Engineering

Bachelor of Science in Architecture

Bachelor of Fine Arts major in Visual Communication

Bachelor of Science in Interior Design

## COLLEGE OF INFORMATICS AND COMPUTING SCIENCES

Master of Science in Computer Science

Master of Science in Information Technology

Bachelor of Science in Computer Science

Bachelor of Science in Information Technology

- Major in Management Information System

## COLLEGE OF TEACHER EDUCATION AND HUMAN KINETICS

Doctor of Education in Educational Management

Doctor of Philosophy Major in Mathematics Education

Doctor of Philosophy

- Major in Educational Management

Master of Arts in Education

- Major in Educational Management (Thesis/ Non-Thesis Program)
- Major in Mathematics Teaching
- Major in Science Teaching
- Major in English Language Teaching
- Major in Filipino Language Teaching
- Major in Physical Education
- Major in Psychology
- Major in Social Studies Teaching
- Major in Technology and Livelihood Education Teaching

Bachelor of Elementary Education

Bachelor of Early Childhood Education

Bachelor of Secondary Education

- Major in Science
- Major in English
- Major in Filipino
- Major in Mathematics
- Major in Social Studies

Bachelor of Technology & Livelihood Education

- Major in Home Economics

Bachelor of Technical-Vocational Teacher Education

- Major in Garments, Fashion and Design
- Major in Electronics Technology
- Major in Electrical Technology
- Major in Automotive Technology
- Major in Computer Programming Technology
- Major in Food and Service Management

Bachelor of Physical Education

## COLLEGE OF ARTS AND SCIENCES

Doctor of Philosophy in English

Master of Science in Mathematics

Master of Arts in English

Master of Chemistry

Bachelor of Science in Biology

Bachelor of Science in Chemistry

Bachelor of Science in Criminology

Bachelor of Science in Development Communication

Bachelor of Science in Mathematics

Bachelor of Science in Psychology

Bachelor of Science in Fisheries

Bachelor of Arts in English

Bachelor of Arts in Communication

## COLLEGE OF ACCOUNTANCY, BUSINESS, ECONOMICS AND INTERNATIONAL HOSPITALITY MANAGEMENT

Doctor of Public Administration

Doctor of Business Administration

Master of Business Administration

Master in Disaster Risk Management

Diploma in Disaster Risk Management

Bachelor of Science in Accountancy

Bachelor of Science in Management Accounting

Bachelor of Science in Business Administration

- Major in Business Economics
- Major in Financial Management
- Major in Human Resource Management
- Major in Marketing Management
- Major in Operations Management

Bachelor of Science in Hospitality Management

Bachelor of Science in Tourism Management

Bachelor in Public Administration

Bachelor of Science in Customs Administration

Bachelor of Science in Entrepreneurship

## COLLEGE OF INDUSTRIAL TECHNOLOGY

Doctor of Technology

Master of Technology

Bachelor of Industrial Technology

- Major in Automotive Technology
- Major in Civil Technology
- Major in Computer Technology
- Major in Drafting Technology
- Major in Electrical Technology
- Major in Electronics Technology
- Major in Food Technology
- Major in Instrumentation and Control Technology
- Major in Mechanical Technology
- Major in Mechatronics Technology
- Major in Welding and Fabrication Technology

Bachelor of Science in Food Technology

## COLLEGE OF NURSING AND ALLIED HEALTH SCIENCES

Bachelor of Science in Nursing

Bachelor of Science in Nutrition and Dietetics

## COLLEGE OF AGRICULTURE & FORESTRY

Bachelor of Science in Agriculture

Bachelor of Science in Forestry

## INTEGRATED SCHOOL

Kindergarten

Grades I - VI

Grades VII - X - Junior High School

Grade XI-XII - Senior High School



## **University Vision**

A globally recognized institution of higher learning that develops competent and morally upright citizens who are active participants in nation building and responsive to the challenges of the 21st century

## **University Mission**


Batangas State University is committed to the holistic development of productive citizens by providing a conducive learning environment for the generation, dissemination and utilization of knowledge through innovative education, multidisciplinary research collaborations, and community partnerships that would nurture the spirit of nationhood and help fuel national economy for sustainable development.

## **University Core Values**

Faith  
Patriotism  
Human Dignity  
Integrity  
Mutual Respect  
Excellence

## **Quality Policy**

Batangas State University is committed to provide quality service to all customers and satisfy applicable requirements through continuous improvement of all university processes.



BATANGAS STATE UNIVERSITY

# CHRONICLE



**BATANGAS STATE UNIVERSITY**

Rizal Avenue Extension, Batangas City, Philippines 4200

*Leading Innovations, Transforming Lives*

Tel. No. (043) 980 - 0385

President's Office loc. 1546

Public Relations Office loc. 1143

Email Address: [president@batstate-u.edu.ph](mailto:president@batstate-u.edu.ph)

Official Website: [www.batstate-u.edu.ph](http://www.batstate-u.edu.ph)