



Republic of the Philippines
TARLAC STATE UNIVERSITY
UNIVERSITY RESEARCH OFFICE
Tarlac City



ANNUAL REPORT 2019

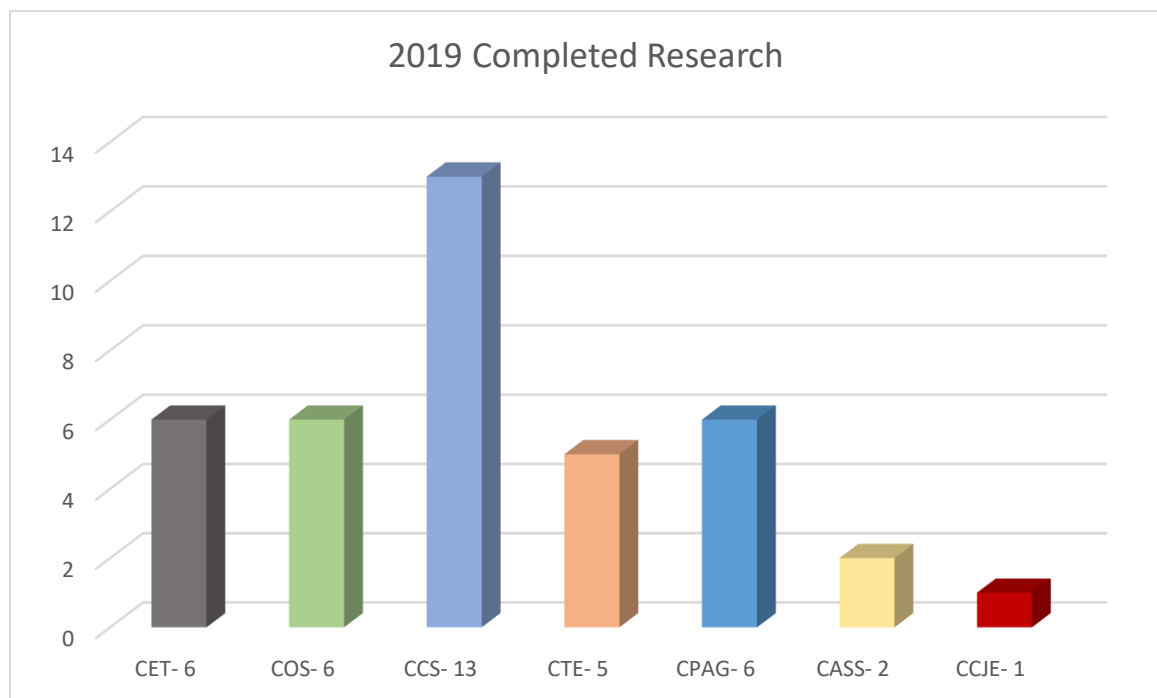
One of the major accomplishments of the University Research Office is the inauguration of the Museo- Archivo Tarlaqueno, initiated by Dr. Lino Dizon. Also, the 1st National Research Conference was held this year participated by delegates from different provinces in the Philippines.

In terms of its core function, to oversee, coordinate, consolidate, and operationalize the conduct of research activities of the university, a total of 39 completed research papers (ABLESS- 17 and STEM- 22), 15 published researches (Scopus- 13, ISI- 1 and other international peer reviewed journal- 1), 13 research papers presented in national research conferences and 134 research- based citations were recorded.

RESEARCH SERVICES

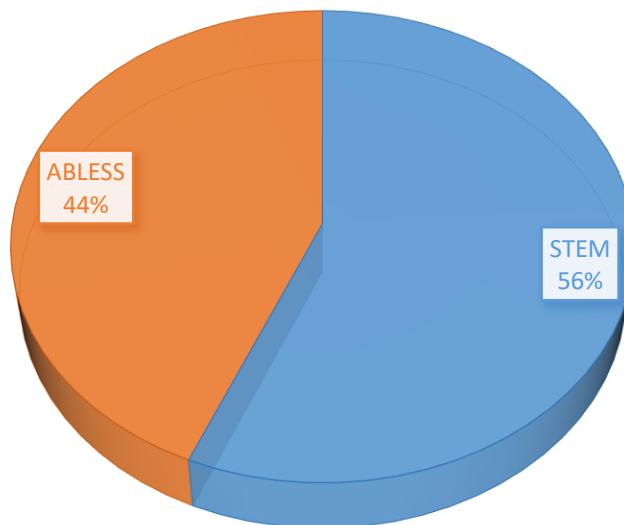
Completed Research

A total number of 39 research papers (17- ABLESS and 22- STEM). The figure and table below show the completed researches in 2019 and the awards/ recognitions received:





CATEGORY OF COMPLETED RESEARCH



No.	Research Title	Author/s	College	Awards/ Recognition
1	Exploring the Experiences of Men as Early Childhood Educators	Niño Corpuz	CTE	<ul style="list-style-type: none"> 1st place- In-House Review of Completed Researches (Social Science category) Best Paper- 2019 GAD National Congress
2	Sediment Characterization and Heavy Metal Pollution Assessment in Laguna de Bay, Philippines	Bertrand Aldous Santillan	COS	<ul style="list-style-type: none"> 1st place- In-House Review of Completed Researches (STEM category) Best Paper- 1st Annual National PCSMT Research Congress
3	GIS Based Analysis of Urbanization and Water Quality Trends in Laguna de Bay, Philippines	Bertrand Aldous Santillan	COS	<ul style="list-style-type: none"> 2nd place- In-House Review of Completed Researches (STEM category)



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				<ul style="list-style-type: none"> Presented in the 1st Annual National PCSMT Research Congress
4	Delivery of Health Services in an Adopted Community: Positive Outcomes and Areas for Refinement	Alma M. Corpuz, Adora Obregon, Mary Jane N. Rigor, Lorna C. Gamis, Ma. Susan Z. Maglaqui, Lucila O. Sunga, and Estrella B. Pagco	COS	<ul style="list-style-type: none"> Presented in the 1st National Research Conference
5	Web-based Faculty Promotion Evaluation System Using NBC 461 CCE/QCE	Heidilyn Gamido	CCS	
6	Developing a Secured Image File Management System Using Modified Advanced Encryption Standard	Marlon Gamido	CCS	
7	Disaster Risk Reduction and Management of Tarlac City	Murphy Mohammed	CET	
8	Local Public Enterprise: Its Impact in the Local Economic Development in the Province of Tarlac	Maria Tiara Fatima F. Galang	CPAG	<ul style="list-style-type: none"> 2nd place- In-House Review of Completed Researches (Social Science category) Best Paper- 1st National Research Conference
9	Level of Competitiveness on Resiliency in the 3rd District of Tarlac an Analysis	Patricia Estrada	CPAG	<ul style="list-style-type: none"> 3rd place- In-House Review of Completed Researches (Social Science category)
10	Modified SHA-1 Algorithm	Rogel Quilala	CCS	
11	QR Code Integrity Verification Based on Modified SHA-1 Algorithm	Rogel Quilala	CCS	
12	Improved MSHA-1 Algorithm with Mixing Method	Rogel Quilala	CCS	<ul style="list-style-type: none"> 3rd place- In-House Review of Completed



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				Researches (STEM Category)
13	Modified AES for text and image encryption	Heidilyn Gamido	CCS	
14	Implementation of a Bit-Permutation-based Advanced Encryption Standard for Securing Text and Image Files	Heidilyn Gamido	CCS	<ul style="list-style-type: none"> • 2nd place In-House Review of Completed Researches (STEM Category)
15	The Development and Fabrication of the Automated Machine for Smoked Fish System	Aldrin Joar Taduran	CET	
16	An Improved Overlapping Clustering Algorithm to Detect Outliers	Alvincent Danganan	CCS	
17	OCA: Overlapping Clustering Application Unsupervised Approach for Data Analysis	Alvincent Danganan	CCS	
18	An Enhanced Overlapping Clustering for Data Analysis Approach	Alvincent Danganan	CCS	
19	Development of Molding Machine for Petal-Shape Gum Paste	Adam Rombaoa	CET	
20	9 -Element Electronically Steerable Parasitic Array Radiator Antenna for Ultra High Frequency Band	Don Louie Sanvictores	CET	
21	Modified Blowfish Algorithm	Theda Flare Quilala	CCS	
22	Securing Electronic Medical Records using Modified Blowfish Algorithm	Theda Flare Quilala	CCS	
23	Optimization of Traditional Muscovado Cook Stove in Gerona Tarlac	Larry Suboc	CET	<ul style="list-style-type: none"> • 3rd place In-House Review of Completed Researches (STEM Category)
24	Energy Consumption Analysis in a Computer Laboratory	Dennis Virtudazo	CCS	
25	Composition and Process of Producing Sweet Potato- Based Desserts	Lea Milan	COS	
26	Career Success and Acquired Competency Skills of the Graduates of the Bachelor of Secondary Education-Physical Science of the College of Education, Tarlac State University	Jayson Punzalan	CTE	
27	Amidst Difficulties: Challenges and Coping Mechanisms of Farmers in a Flood-Prone Community	Jersey Pangilinan	CASS	



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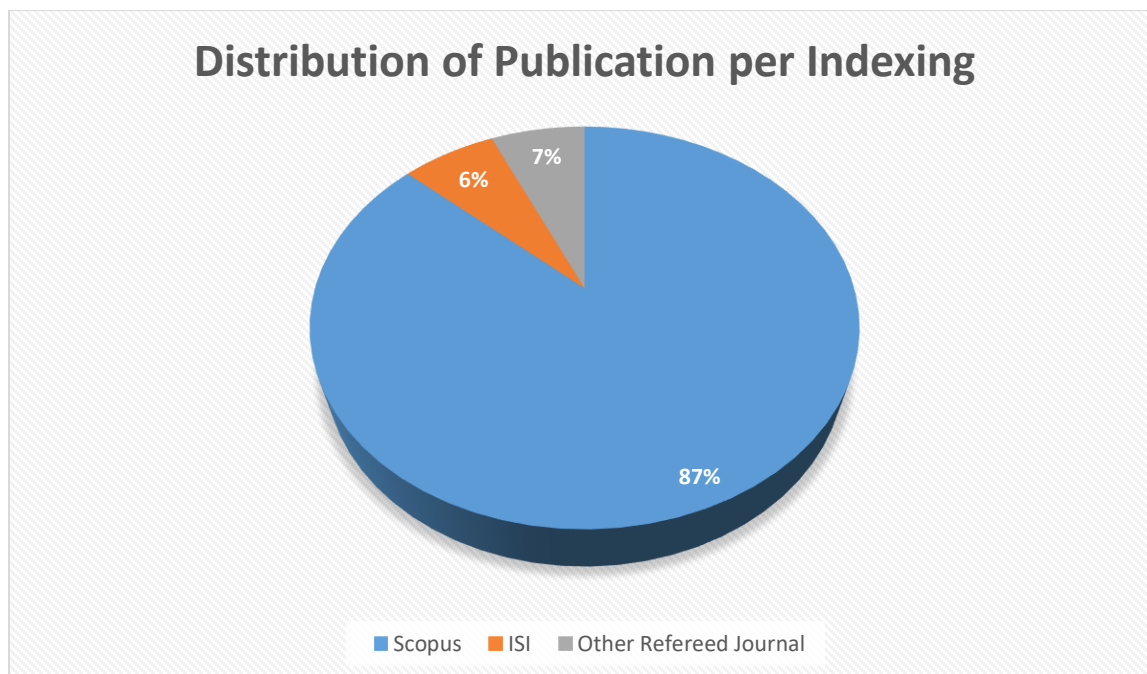
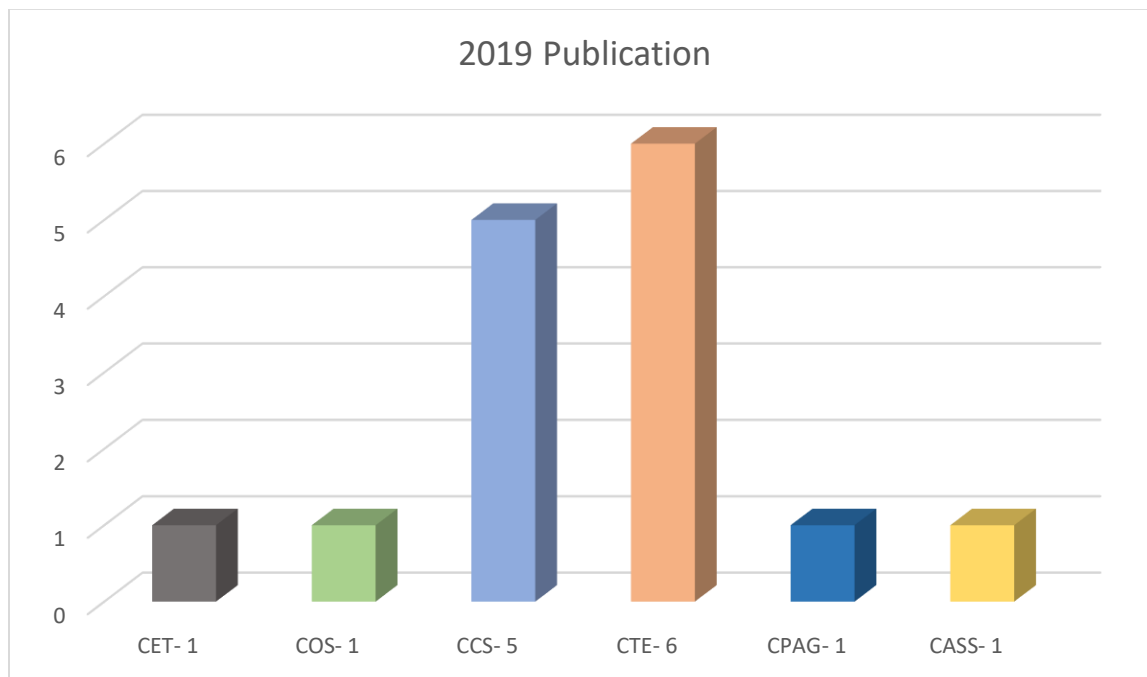


28	Continuing Professional Development of the Teacher Education Faculty among State Universities and Colleges in Region III	Ninez Tulo	CTE	
29	Victim Survivor of Forced Labor Among Aetas: A Case Study in Tarlac	Ramil Las Igan	CCJE	
30	Employability Self-Efficacy Scale for Technical-Vocational Senior High School Students	Rosana Pablico	CTE	
31	Assessment of Extension Support Services to Micro-Food Processors' Compliance to RA 10611 or Food Safety Act Of 2013	Vien Jamaica Samson	CPAG	
32	The Role of Authentic Leadership and Authentic Followership to Self – Efficacy, Work Engagement and Organizational Commitment Among Nurses	Lucila Sunga	COS	<ul style="list-style-type: none"> • 3rd place In-House Review of Completed Researches (ABLESS Category)
33	An Ergonomic Risk Assessment in Relation to Productivity in an Aerospace Components Manufacturing Company	Anna Angeles	CET	
34	Student Publications Management Practices and Challenges in State Universities in Region III: Basis for a Proposed Management Framework	Gladie Natherine Cabanizas	CASS	
35	Citizen Satisfaction on Governance and Response in the Municipality of Concepcion, Tarlac: An Evaluation	Patricia Ann Estrada	CPAG	
36	Optimal Control on a Discrete Time Model for Tuberculosis	Nancy Mati and John Sebastian Simon	COS	
37	Praxis of Organizational Development in the National Government Agencies: Towards a Proposed Innovative Model	Ma. June S. Carlos	CPAG	
38	Gauging Sustainable Competitiveness in the Philippines: An Analysis of the Cities and Municipalities Competitiveness Index (CMCI)	Ma. Tiara Fatima Galang	CPAG	
39	Linguwistikong Etnograpiya ng Filipinas	Arlyn Cura, Daisy Inalvez, Raffy Aganon	CTE	<ul style="list-style-type: none"> • 2nd place In-House Review of Completed Researches (ABLESS Category)



Research Publications

The University Research Office has recorded a total number of 15 publications for this year. The table and below shows the list of publications produced.





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No	Research Title	Author/s	College	Name of Journal	Indexing
1	Development and Validation of Infographics Based on the Least Mastered Competencies in Physics	Cynthia Quiambao and Jayson Punzalan	CTE	International Journal of Recent Technology and Engineering	Scopus
2	Comparative Review of the Features of Automated Software Testing Tools	Heidilyn Gamido	CCS	International Journal of Electrical Computer Engineering	Scopus
3	Achievement Motivation vis- a-vis Personality Type: Implications for Academic Success	Marie Paz Angeles	CASS	International Journal of Social Sciences and Humanities	Other refereed journal
4	River Flood Hazard Modelling: Forecasting Flood Hazard for Disaster Risk Reduction	Murphy Mohammed	CET	Civil Engineering Journal	ISI
5	Analysis of the Licensure Examination for Teachers (LET) performance of Bachelor of Elementary Education Graduates: Basis for Enhancement in Curriculum and Instruction	Nelvin Nool	CTE	Asia Life Science	Scopus
6	Development and Validation of Worktext in Fundamentals of Mathematics	Nelvin Nool	CTE	Asia Life Sciences	Scopus
7	Exploring the Potentials of Edmodo with Journal Writing in Learning Mathematics	Nelvin Nool	CTE	Asia Life Sciences	Scopus
8	OCA: Overlapping Clustering Application Unsupervised Approach for Data Analysis	Alvincent Danganan	CCS	Indonesian Journal of Electrical Engineering and Computer Science	Scopus
9	Developing a Secured Image File Management System using Modified Advanced Encryption Standard	Heidilyn Gamido	CCS	Bulletin of Electrical Engineering and Informatics	Scopus
10	Modified AES Cipher Round and Key Schedule	Edjie De Los Reyes	CCS	Indonesian Journal of Electrical Engineering and Informatics	Scopus
11	File Encryption Based on Reduced-round AES with Revised Round Keys and Key Schedule	Edjie De Los Reyes	CCS	Indonesian Journal of Electrical Engineering and Computer Science	Scopus



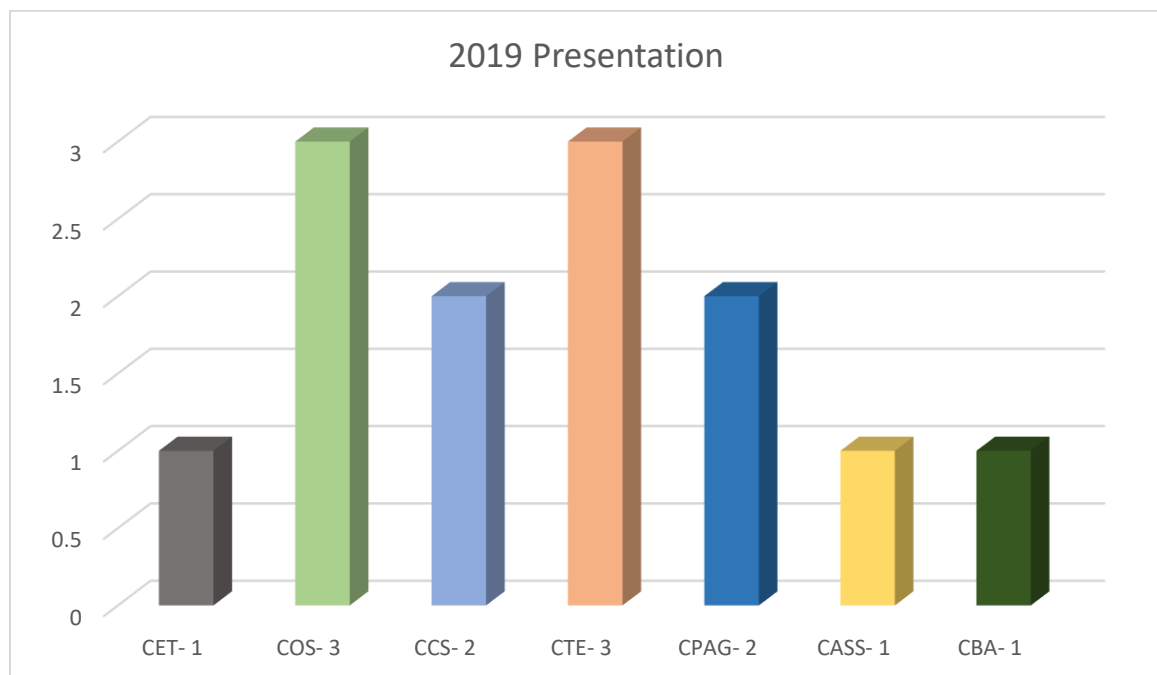
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12	Praxis of Organizational Development in the National Government Agencies: Towards a Proposed Innovative Model	Ma. June S. Carlos	CPAG	International Journal of Administration	Scopus
13	Optimal Control on a Discrete Time Model for Tuberculosis	Nancy L. Mati and John Sebastian Simon	COS	Thai Journal of Mathematics	Scopus
14	Influence of Faculty Members' Educational Attainment on Graduates' LET Performance among State Universities and Colleges	Nelvin R. Nool, Maria Agnes P. Ladia, & Elizabeth P. Balanquit	CTE	Revista Kasmera	Scopus
15	Assessment of the Qualifications and Competencies of the Technology and Livelihood Education Faculty in Teacher Education Institutions	Rosario C. Salas	CTE	Revista Kasmera	Scopus

Research Presentation

The Research Office has recorded a total number of 13 research presentations. The table and below shows the list of the research presentations.





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No	Research Title	Presenter	College	Conference Title	Date and Venue	Type of Conference
1	The Entrepreneurs in Tarlac Province: An Analysis	Joseph M. Melegrito	CTE	1 st National Research Conference	October 3-5, 2019	National
2	Utilization of Taro for Innovative Flavored Chips Product	Limuel Pavico	CBA	Entrepreneurs' National Educators Association, Inc. National Conference	February 7-9, 2019	National
3	Achievement Motivation vis- a- vis Personality Type: Implications for Academic Success	Marie Paz Angles	CASS	1 st National Research Conference	October 3-5, 2019	National
4	Electric Vehicle with Backup Solar Charger Research Project	Leo Piao	CTE	6th National Technology Festival 2019	April 10-12, 2019	National
5	Development of Integrated Administrative Management System: Procurement Module for Tarlac State University	Heidilyn Gamido	CCS	1 st National Research Conference	October 3-5, 2019	National
6	WebApp for Energy Management System	Dennis Virtudazo	CCS	1 st National Research Conference	October 3-5, 2019	National
7	Energy Audit of Engineering Building of Tarlac: Input to Energy Efficiency Sustainability	Ferdinand Marcos	CET	1 st National Research Conference	October 3-5, 2019	National
8	Exploring the Experiences of Men as Early Childhood Educators	Nino Corpuz	CTE	1 st National Research Conference	October 3-5, 2019	National
9	Level of Competitiveness on Resiliency in the 3rd District of Tarlac: An Analysis	Patricia Ann Estrada	CPAG	Cities and Municipalities Competitiveness Index Academic Symposium 2019	October 15, 2019	National



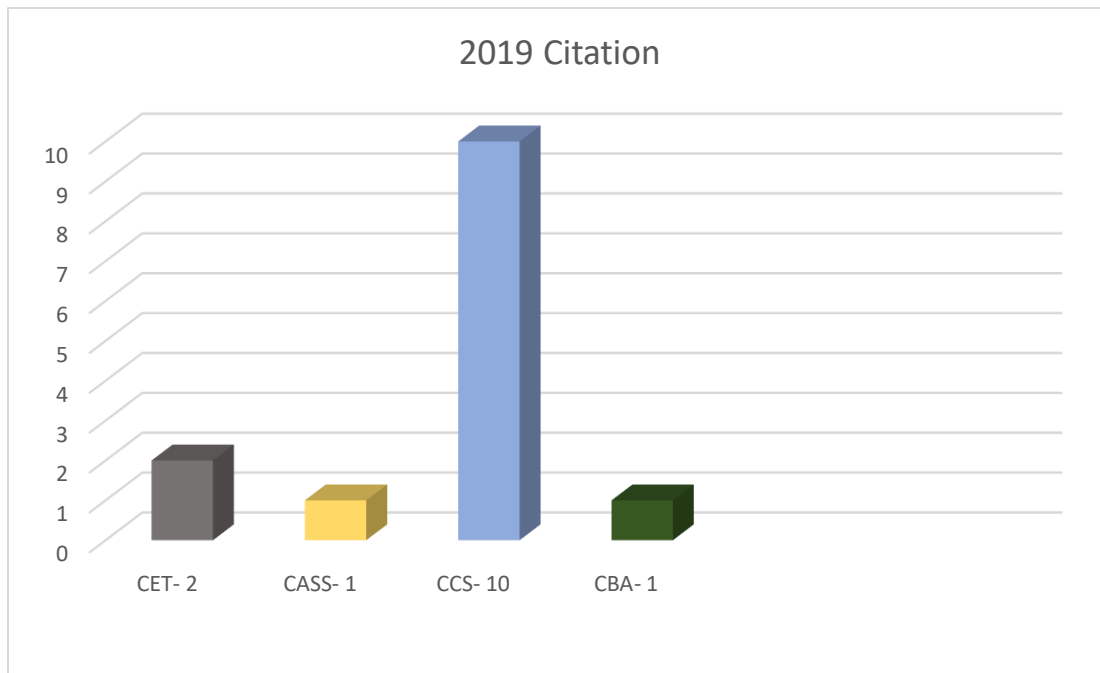
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10	Local Public Enterprise: Its Impact in the Local Economic Development	Ma. Fatima Tiara Galang	CPAG	1 st National Research Conference	October 3-5, 2019	National
11	Sediment Characterization and Heavy Metal Pollution Assessment in Laguna de bay, Philippines	Bertrand Aldous Santillan	COS	1st Annual National PCSMT Research Congress	August 28-30, 2019	National
12	GIS-based Analysis of Urbanization and Water Quality Trends in Laguna de Bay	Bertrand Aldous Santillan	COS	1st Annual National PCSMT Research Congress	August 28-30, 2019	National
13	Delivery Health Services in an Adopted Community: Positive Outcomes and Areas for Refinement	Adora Obregon	COS	1 st National Research Conference	October 3-5, 2019	National

Research- based Citations

The University Research Office has recorded a total number of 14 research- based citations. The table below shows the complete list of research- based citations in different journals:





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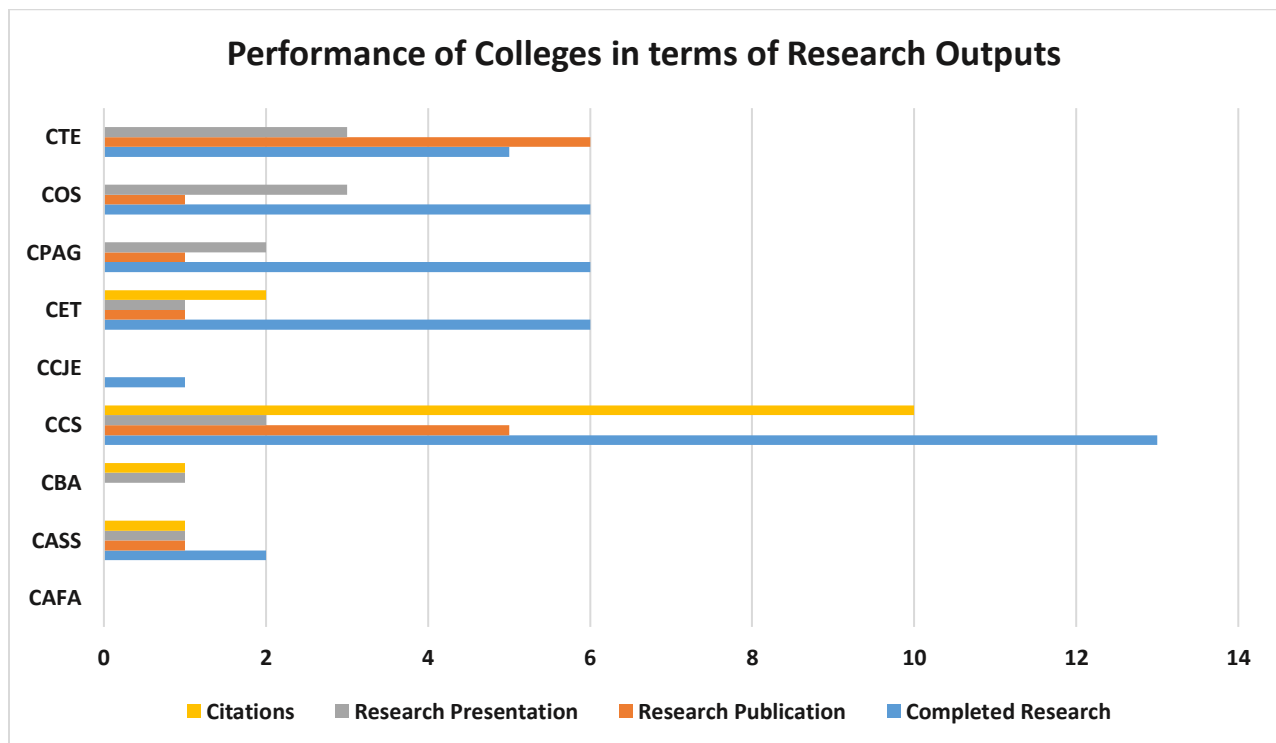
No	Research Title	Author/s	College	Citing Journal	Indexing
1	Researcher and Non- Researcher Teachers' Evaluation of ELT Materials: Converging or Diverging?	Brendalyn Manzano	CASS	Iraninan Journal of Language Teaching Research	Scopus
2	Sanitary Conditions of Food Vending Sites and Food Handling Practices of Street Food Vendors along the Peripheral Area of Tarlac State University, Main Campus: Implication for Food Hygiene and Safety	Criselda Alamo-Tonelada, Ferdinand Y. Silaran, Maria Cristina A. Bildan	CBA	Journal of Economics and Finance	Other Refereed Journal
3	Implementation of Modified AES as Image Encryption Scheme	Heidilyn Gamido	CCS	Telkomnika	Scopus
4	Implementation of Modified AES as Image Encryption Scheme	Heidilyn Gamido	CCS	International Journal of Advanced Trends in Computer Science and Engineering	Scopus
5	Disaster Risk Reduction and Management of Tarlac City	Murphy Mohammed	CET	Bulletin of Mathematics	Other Refereed Journal
6	Disaster Risk Reduction and Management of Tarlac City	Murphy Mohammed	CET	Journal of Environmental Engineering and Landscape Management	Other Refereed Journal
7	An Improved Overlapping Clustering Algorithm to Detect Outlier	Alvincent Danganan	CCS	International Journal of Innovative Technology and Exploring Engineering	Scopus
8	An Improved Overlapping Clustering Algorithm to Detect Outlier	Alvincent Danganan	CCS	International Journal of Innovative Technology and Exploring Engineering	Scopus
9	Modified AES for Text and Image Encryption	Heidilyn Gamido	CCS	International Journal of Supply Chain Management	Scopus



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10	Modified AES for Text and Image Encryption	Heidilyn Gamido	CCS	International Journal of Electrical and Computer Engineering	Scopus
11	Modified AES for Text and Image Encryption	Heidilyn Gamido	CCS	Indonesian Journal of Electrical Engineering and Computer Science	Scopus
12	Modified SHA-1 Algorithm	Rogel Quilala	CCS	Indonesian Journal of Electrical Engineering and Computer Science	Scopus
13	Modified Blowfish Algorithm	Theda Flare Quilala	CCS	Journal of Baghdad College of Economic Sciences University	Scopus
14	Modified Blowfish Algorithm	Theda Flare Quilala	CCS	International Journal of Scientific and Technology Research	Scopus





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Capacity Building

Below is the table showing the seminars/trainings conducted by the University Research Office in 2019:

TITLE OF TRAINING	DATE	NO OF TRAINED FACULTY/STAFF
Seminar Workshop on Basic Patent Search and Patent Drafting	February 19-21, 2019	25
Seminar- Echo on Impact Assessment	March 22, 2019	20
Seminar Workshop on Research Writing for External Funding	October 25, 2019	25
1 st National Research Conference	October 3-5, 2019	9

Seminar Workshop on Basic Patent Search and Patent Drafting

A Seminar Workshop on Basic Patent Search and Patent Drafting was held on February 19-21, 2019 at TSU Alumni Center, Lucinda Campus, Tarlac City in collaboration with the TDTCO.



Sample Photos during the event

Seminar- Echo on Impact Assessment

For the trainings attended by faculty members be beneficial to the University, an echo seminar/ training should be conducted. Last March 22, 2019, Mr. Wesley S. Gagarin, the Head



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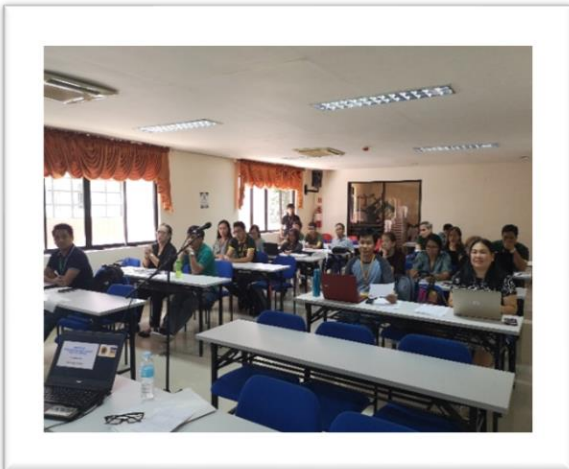
of the research Services Unit, conducted an Echo- Seminar on Impact Evaluation attended by chosen faculty members and staff from different colleges and office



Sample Photos during the event

Seminar Workshop on Research Writing for External Funding

Part of the mandate of the office is to capacitate the faculty researchers with the knowledge needed in research writing. Last October 25, 2019, the URO organized a seminar workshop on Research Writing for External Funding participated by 25 faculty researchers with existing research proposals from the College of Engineering and Technology and College of Science. The Assistant Regional Director of DOST 3, Mr. Wilfredo Sibal, was invited to be the resource speaker.



Sample Photos during the event



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1st National Research Conference

The TSU, initiated by the University Research Office organized the 1st National Research Conference held on October 3-5, 2019 at the TSU Lucinda Extension Campus. The Department Research Chairpersons were invited to attend and participate to capacitate them with research skills.



Sample Photo during the event

In- House reviews of Completed Researches

The University Research Office conducted 2 In- House Reviews of Completed Researches (Mid- year and In- House). During the Mid- year In- House Review, a total of 12 completed researches were presented while there are 36 completed researches were presented during the Year- end In- House Review.

Mid- Year In- House Review of Completed Researches

The University Research Office held the 2019 Mid- Year In- House Review of Completed Researches on June 14, 2019 at the Training Room, RED Bldng., TSU Lucinda Campus. A total of 12 completed researches were presented adjudged by a set of intelligent external panels from different field of expertise. At the end, COS faculty member, Mr. Aldous Bertrand Santillan bagged the 1st and 2nd awards for the STEM category while Dr. Niño Corpuz of COEd won 1st place in the SSBEEd category.



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Sample Photos during the event

Year- end In- House Review of Completed Researches

The 2019 Year- end In- House Review of Completed Researches was held on December 6, 2019 at the TSU Lucinda Extension Campus. This year, the In- House Review was divided into parallel sessions. A set of external evaluators for each session were also invited to judge the research papers. Also, stakeholders from LGUs and other government agencies like DOST attended and witnessed the said event. This year, there is a total of 39 researches presented by faculty researchers from the different colleges.



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Sample Photos during the event

Other Activities

1st National Research Conference

The TSU, initiated by the University Research Office organized the 1st National Research Conference held on October 3-5, 2019 at the TSU Lucinda Extension Campus. The said conference was attended by 34 research presenters from different institutions like Catanduanes State University, Central Luzon State University, Don Honorio Ventura State University, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), Department of Interior and Local Governance, Bukidnon State University, Bulacan State University, Palawan State University and Tarlac State University. Also, Dr. Custer Deocarís from CHED, Dr. Rowena Cristina Guevara from DOST and DOST 3 Regional Director Dr. Julius Caesar Sicat attended the event as keynote speakers.





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Sample Photos during the event

Panrehiyong Seminar sa Filipino

The annual seminar for teachers with CPD units organized by the Pamantasang Sentro ng Wikang Filipino was held on October 25-27, 2019 entitled "Panrehiyong Seminar sa Filipino". The seminar was attended by teachers in the DepEd Tarlac Province.





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Sample Photos during the event

Aguinaldo @ 150 National Forum on Tarlac as the Last Capital of Aguinaldo Republic

The Center for Tarlaqueno Studied successfully conducted a forum on Tarlac as the Last Capital of Aguinaldo Republic as part of the celebration of Aguinaldo @ 150 on November 8, 2019. The event was conducted in partnership with the Local Government Unit of Tarlac. This forum was funded by the National Historical Commission of the Philippines through a research proposal submitted by Dr. Lino Dizon.



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Sample Photos during the event

Inauguration and Blessing of the Museo- Archivo Tarlaqueño

With the initiative of Dr. Lino Dizon, Head of the Center for Tarlaqueño Studies, old CCS rooms at the Engineering Building was converted into a university museum which will be called the Museo- Archivo Tarlaqueño. The museum was inaugurated on July 12, 2019 which was witnessed by the University Administrative Council led by Dr. Myrna Mallari and representatives from the Provincial Governor and City Mayor.





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Food Technology Project Consultation with Dr. Azanza and Benchmarking at UP Diliman

With the initiative of Dr. Lea Milan of COS- FT, a research project was submitted to DOST for possible funding. Last, November 20, 2019, a group of faculty researchers from College of Science together with the URO Director and staff went to the UP Diliman and conducted a benchmarking activity and consultation with one of the professors in the Department of Science and Nutrition.



Sample Photos during the event

STRDC Project Proposal Presentation

Last November 27, 2019, an STRDC Project Proposal Presentation was presented on to DOST – PCIEERD, Bicutan, Taguig. The said presentation was led by the URO Director and the rest of the team.



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Sample Photo during the event

RES Strategic Planning

The RES Strategic Planning was held on December 2-3, 2019 at the Venus Parkview Hotel, Baguio City. Highlight of the activity is the presentation of plans for 2020. Major accomplishments per office for 2019 were also presented.



Sample Photos during the event



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College Research Colloquium

College of Teacher Education

The College of Education, through the initiative of the college dean, Dr. Erwin Lacanlale and the DRCs held their College Colloquium on February 28, 2019 wherein 25 quality research proposals were presented. A very competitive and passionate external panel was also invited to help improve the presented research proposals.



Sample Photos during the event

College of Computer Studies

A total of 9 researches were presented during the College of Computer Studies 2019 Research Colloquium on March 6, 2019. The colloquium was made possible through the very active college dean assisted by the Department Research Chairpersons.



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Sample Photos during the event

College of Science

The College of Science held their 2019 College Colloquia on March 27, 2019 wherein 16 research proposals were presented. A set of external panels were also invited to give inputs on improving the presented research proposals.





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Sample Photos during the event

College of Engineering and Technology

A total of 17 research proposals were presented during the College of Engineering and Technology Colloquia held on March 29, 2019 at the Engineering Building. The ARD for Technical Operations of DOST was invited to witness the research presentations.





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College of Public Administration and Governance and the College of Criminal Justice Education

The College of Public Administration and Governance and the College of Criminal Justice Education held their joint research colloquium on April 10, 2019 at the Dean's Office of the CPAG wherein a total of 9 research proposals were presented.



Sample Photos during the event

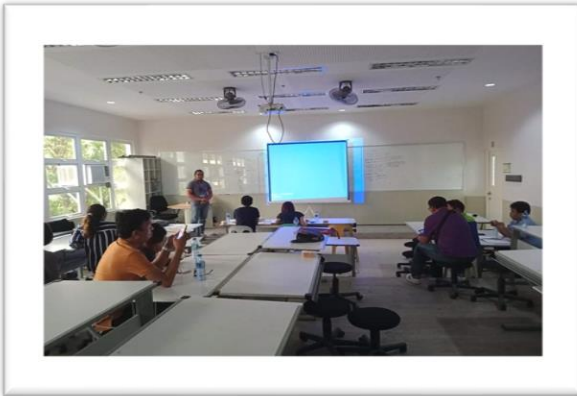


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College of Architecture and Fine Arts

The College of Architecture and Fine Arts successfully conducted its research colloquium on April 16, 2019 wherein a total of 3 research proposals were presented.



Sample Photos during the event