

ISBN :



# CONFERENCE PROGRAMS AND ABSTRACT

**INTERNATIONAL CONFERENCE  
FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY 2020**

**NOVEMBER 10-11, 2020**

**Palembang, Province of South Sumatera  
Indonesia**

Organized By :

Collaborate With :



## FOREWORD FROM GENERAL CHAIR 4<sup>th</sup> FIRST 2020 INTERNATIONAL CONFERENCE



Assalamu'alaikum wr wb,

Thank to Allah SWT, the most gracious, the most merciful, and may prayers and peace be upon our prophet, Muhammad SAW and upon his companions

First of all, I also would like to say thank you very much for choosing FIRST 2020 and SNAPTEKMAS 2020. I also would like to convey my warm welcome to all FIRST 2020 and SNAPTEKMAS 2020 keynote speakers and all participant.

Thank to the God, although we are facing the corona pandemic, the researchers are still be able to produce good research and still have great spirit in finding new technique or methods in many areas. The purpose of the FIRST is basically to provide the researchers and academia to exchange, to discuss the results of their study so that it can meet the industrial needs and government regulations, and also to publish the research. Although, this year conference should be held virtually, however, it is hoped that the FIRST 2020 and SNAPTEKMAS 2020 are still able to facilitate researchers from all over the world to meet and to make opportunities to collaborate.

FIRST has been held for four times and organized by State Polytechnic of Sriwijaya. The previous beginning FIRST conference was a National Conference and it was held on October 27, 2015, with the theme: Peningkatan Kualitas SDM melalui Penelitian Teknologi Tepat Guna dalam Menghadapi Ekonomi Asean. On 2016, the FIRST was upgraded in order to enhance the quality of the conference. The first FIRST international conference was held in State Polytechnic of Sriwijaya, on October 18-19, 2016, while the second FIRST international conference was held on October 30-31, 2019 at Horison Ultima Hotel Palembang, and the 3<sup>rd</sup> FIRST was held on October 9-10, 2019, at Excelton Hotel Palembang, Indonesia.

This 4<sup>th</sup> FIRST 2020 International Conference has attracted 8 participants, i.e., from Malaysia, Brunei Darussalam, Japan, Taiwan, Thailand, United Kingdom, Hungary, and Cambodia. While SNAPTEKMAS has become the destination of 6 biggest university in Indonesia.

This year FIRST 2020 and SNAPTEKMAS 2020 conference is held on November 11, 2020, at Beston Hotel. This conference will present:

1. Prof. Chiaki Ogino, from Kobe University, an expert in biodiesel field
2. Dr. Wahyu Caesarendra, S.T., M. Eng., from Universiti Brunei Darussalam, an expert in mechanical engineering
3. Prof. Yuliansyah, M.S.A., Ph.D, Akt, CA, from Lampung University, an expert in Accounting
4. Dr. Dodi Reza Alex Noerdin, as Bupati Musi Banyuasin, expert in government policy for technology implementation
5. Assoc. Prof. Dr. Mohammed N Adurazq, from Management and Science University (MSU), an expert in health technology, and
6. Dr. Muhammad Haikal Satria, IPM, from Jakarta Global University, an expert in health



Finally, I also want to say thank you very much for your participation, I hope that you can enjoy this FIRST 2020 and SNAPTEKMAS 2020.

Wassalamu'alaikum wr wb

## FOREWORD FROM DIRECTOR OF STATE POLYTECHNIC OF SRIWIJAYA



Assalamu'alaikum wr wb,

In the name of Allah, the most gracious, the most merciful. First of all, I would like to convey my warm welcome to all of FIRST 2020 and SNAPTEKMAS 2020 keynote speakers and all participant of FIRST 2020 and SNAPTEKMAS 2020. It is my great pleasure to meet and see you in this event.

As we know, the corona pandemic has hit many sectors in the world. Not only the economic one but also the social, and education. As incredibly crucial to the growth and sustainability of innovation and learning within the academic community, some events, such as: academic conferences, seminars, and even lectures themselves, have also been the worst hit by this corona pandemic. A lot of important events has been adversely affected due to region-wide lockdowns.

Therefore, to accommodate the researchers from all over the world and to be consistent in maintaining the continuity and the development of science and technology, the FIRST 2020 and SNAPTEKMAS 2020 are still held in this year although in virtual way. The FIRST 2020 and SNAPTEKMAS 2020 become one of State Polytechnic of Sriwijaya annual event. It is hope that FIRST 2020 and SNAPTEKMAS 2020 become one of the conferences that support the advance of the science and technology.

As our attention on COVID-19 tragedy, in this year, we also make a cooperation with the ITKJ (institut Teknologi Kesehatan Jakarta) or now JGU (Jakarta Global University) that focuses on the health and health technology. Therefore, in this occasion, We also invite special issues research about COVID-19 to participate in FIRST 2020 and SNAPTEKMAS 2020 conferences.

Finally, I also want to say thank you very much for your participation, I hope that you can enjoy this conference and can follow all of the agenda until the closing of this conference.

Wassalamu'alaikum wr wb

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## **KEYNOTE SPEAKER**



**Prof. Dr. Chiaki Ogino**

Chiaki OGINO is the Professor of Department of Chemical Science and Engineering, Graduate School of Engineering, Kobe University, Japan. He received his B.Sc., M.Sc., and Ph.D. in Chemical Engineering at Kobe University, Japan. He has supervised more than 50 over master course students, and 10 over doctor course students in Kobe University. He is the author or co-author of over 230 peer-reviewed journal papers and 40 reviews and book chapters. His research interests are wide and concern: production of biofuels and chemicals from biomass based on synthetic biotechnology by Yeast, Fungi and Actinomycetes, and development of novel drug and gene delivery systems based on nanobiotechnology.

## KEYNOTE SPEAKER



### Wahyu Caesarendra, PhD

Assistant Professor of General Engineering Faculty of Integrated Technologies, Universiti Brunei Darussalam, Jalan Tungku Link, Gadong BE1410, Brunei Darussalam. Research Interests: Machine Learning, Product Design, Mechatronics, and Smart Manufacturing Ph.D. Mechanical Engineering, University of Wollongong, Australia (2015) M.Eng. (Hons.). Mechanical Design Engineering, Pukyong National University, South Korea (2010) B.Eng. (Hons.) Mechanical Engineering, Diponegoro University, Indonesia (2005). EMPLOYMENT HISTORY: Assistant Professor Faculty of Integrated Technologies, Universiti Brunei Darussalam (08/10/2018 - date). Assistant Professor Department of Mechanical Engineering, Diponegoro University (Jul 2017 – Des 2019). Visiting Asst. Prof. National Taiwan University of Science and Technology (August 2019). Lecturer Department of Mechanical Engineering, Diponegoro University (Dec 2010 – Jun 2017). Postdoctoral Research Fellow School of Mechanical and Aerospace Engineering, Nanyang Technological University (02/02/2017 - 19/09/2018).



## KEYNOTE SPEAKER



### **Prof. Yuliansyah, M.S.A., Ph.D, Akt, CA**

Bachelor at Jenderal Soedirman University – Indonesia 1998, Magister Program M.S.A. Meinders School of Business, Oklahoma City, University, United State of America 2006, Doctoral Program Ph.D Division of Business, University of South Australia, Australia 2012. Founder and Chairman of The Ujang Syahrir Foundation and Founder and Chairman of Goodwood Publishing ([goodwoodpub.com](http://goodwoodpub.com)). Board Committee of Asia Pacific of Management Accounting Association, International Consultant for Qualitative Study (Nvivo Program), The Quality Assurance Team for the Forensic Auditor Professional Certification Institute, Member of Asian Academy of Management, British Accounting and Finance Association Member.

## KEYNOTE SPEAKER



**Dr. H. Dodi Reza Alex Lic, Econ, MBA**

Doctor of Public Administration Program, Faculty of Social & Political Sciences, Padjadjaran University, Bandung, West Java. Fellowship on IDEAS 2.0, Massachusetts Institute of Technology (MIT) Sloan School of Management, Cambridge MA, USA. Master of Business Administration (MBA), Solvay Business School, Université Libre de Bruxelles, Brussels, Belgium. Graduated with the title of Magna Cum Laude. Licencié en Sciences Economiques (Bachelor of Economics), University of Leuven (UCL), Louvain-la-Neuve, Belgium. Graduated with the title 'Grande Distinction (High Honor). Top 2%, A thesis written in French, received the BBL Prize Award. Primary and Secondary Education in Indonesia and Canada. 2017-2022 as Regent of Musi Banyuasin Period, 2014-2016 as Deputy Chairperson of Commission VI DPR RI and Deputy Chairperson of the Golkar Party Faction DPR RI. 2013-2015 as PT. Liga Indonesia Commissioner, Jakarta, Indonesia. In 2009-2014 as Member of the DPR / MPR-RI for the period of 2009-2014.

## **KEYNOTE SPEAKER**



**Dr. Muhammad Haikal Satria, IPM**

Expertise : Software Engineering, Medical Informatics, Communication Protocol in Healthcare, Software as Medical Devices, QoS Provision in Data Communication. Universiti Teknologi Malaysia Johor, Malaysia Phd (on Electronics engineering) 2007 – 2014. Dissertation : Integration of Multimetric Path Management Into 802.11s For Telemedicine Quality Of Service Provision Universitaet Duisburg Essen Duisburg, Germany MSc (Master of Science) 2006. Thesis : Implementation of a secure RMI connection in a web service monitoring application. University of Indonesia Depok, Indonesia MT (Master of Engineering) 2006 University of Indonesia Depok, Indonesia ST (Bachelor in Engineering) 2003, Thesis : Downlink connectivity on MC-DS-CDMA in Rayleigh dan Rician fading channel.

## KEYNOTE SPEAKER



**Assoc. Prof. Dr. Mohammed N. Abdulrazaq Alshekhly**


Field of specialisation : Semi-solid Metal Processing, Advanced Materials Joining, Internet of things (IoT), Robotics. Fields of interest : Metal Processing , Metallurgy Friction welding, Metal Matrix Composites, Materials Failure Analysis, Surface engineering/ Wear of materials, Biomedical sciences. Doctor of Philosophy (Ph.D) In Mechanical and Materials Engineering. Department of Mechanical and Materials Engineering, National University Of Malaysia (UKM) (2011–2015). Master In Mechanical Engineering, Department of Mechanical and Materials Engineering, National University Of Malaysia (UKM) (2009 – 2010). B.Sc. In Mechanical/Production Engineering. Department of production & Metallurgy Engineering, University of Technology–Baghdad (2002 – 2006).

**RUNDOWN**  
**The 4<sup>th</sup> FIRST 2020 INTERNATIONAL CONFERENCE**  
**(FORUM IN RESEARCH SCIENCE AND TECHNOLOGY)**  
**SNAPTEKMAS (Seminar Nasional Aplikasi Teknologi pada Masyarakat) 2020**

**Palembang, South Sumatera, Indonesia**

<b>Wednesday, November 11, 2020</b>					
<b>No.</b>	<b>Session</b>	<b>Person in Charge</b>	<b>Time Allotment (WIB)</b>	<b>Liaison Officer</b>	
1.	<b>Registration</b>	Event Section Committee	07.00 – 08.00	M.Miftakhul Amin, S.Kom., M.Eng	
2.	<b>The Opening Ceremony</b>	Event Section Committee	08.00 – 09.00		
3.	Do'a				
4.	Indonesian National Anthem				
5.	Chair Report Speech				
6.	Speech and Opening Remarks by Director of State Polytechnic of Sriwijaya				
7.	Souvenirs Gift, Group Photos				
<b>PLENARY SESSION</b>					
<b>No.</b>	<b>Keynote Speaker</b>	<b>Affiliation</b>	<b>Time Allotment (WIB)</b>	<b>Moderator</b>	<b>Liaison Officer</b>
1.	Prof. Chiaki Ogino	Kobe University, Japan	09.00 – 09.30	Dr. Martha Aznury, S.Pd., M.Si.	Dr. Nyayu Latifah Husni, M.T.
2.	Dr. Dody Reza Alex Noerdin	Pemkab, Sekayu, Indonesia	09.30 – 10.00		
3.	Wahyu Caesarendra, S.T., M.Eng., Ph.D.	University of Brunei Darussalam, Brunei	10.00 – 10.30	Dr. Nyayu Latifah Husni, M.T.	Doeslohal Djumrianti, S.E.MIS., Ph.D
4.	Prof. Yuliansyah, M.S.A., Ph.D., Ak., CA.	University of Lampung, Indonesia	10.30 – 11.00		
5.	Dr. Muhammad Haikal Satria, IPM.	Jakarta Global University, Indonesia	11.00 – 11.30	Dra.Tiur Simanjuntak M.Pd.	Dr. Ade Silvia Handayani, M.T.
6.	Assoc. Prof. Dr. Mohammed N Adurazaq	Management and Science University (MSU), Malaysia	11.30 – 12.00		

<b>PARALEL SESSION</b>					
<b>No.</b>	<b>Theme</b>	<b>Room</b>	<b>Time</b>	<b>Moderator</b>	<b>Articles</b>
1.	TRACK 1 (Engineering and Science)	1	13.00 – 16.30	Jaksen M. Amin, M.Si./ Indah Purnamasari, M.Eng.	22
2.	TRACK 1 (Engineering and Science)	2	13.00 – 16.30	Dr. Eng. Tresna Dewi, M.Eng/ Ozkar F.H., M.Eng	22
3.	TRACK 1 (Engineering and Science)	3	13.00 – 16.30	Dr. Martha Aznury, M.Si./ Dr. Indrayani, ST, MT/	22
5.	TRACK 2 (Computer Science, , Computer Engineering, Information System, Informatics Management)	5	13.00 – 16.30	M.Miftakhul Amin, M.Eng /Aryanti, M.Kom.	21
6.	TRACK 2 (Computer Science, , Computer Engineering, Information System, Informatics Management)	6	13.00 – 16.30	Dr. Nyayu Latifah H./ Rika Sadariawati, M.Si.	21
7.	TRACK 3 (Social Science)	7	13.00 – 16.30	Doeslohal Djumrianti, S.E.MIS., Ph.D/ Dr. Marieska Lupikawati	16
8	TRACK 3 (Social Science)	8	13.00 – 16.30	Dr. Sari Lestari ZR/ Dr. Rita Martini	16
9	SNAPTEKMAS 1	9	13.00 – 16.30	Yurni Oktarina, ST, MT/ Yogi F, MT	20
10	SNAPTEKMAS 2	10	13.00 – 16.30	Leni Novianti, M.Kom./ Maivi Kusnandar, M.Kom	20
11	SNAPTEKMAS 3	11	13.00 – 16.30	M Husni Mubarak, M.Si./ Alan Novi, Tumpunu, MT	20
12	SNAPTEKMAS 4	12	13.00 – 16.30	Dr. Ade Silvia H/ Edwin F, M.Ac.	14
<b>CLOSSING SESSION</b>					



Event	Time	Room
<ul style="list-style-type: none"><li>- Closing Ceremony</li><li>- Announcement of:<ol style="list-style-type: none"><li>1. Best Paper FIRST IC 2020</li><li>2. Best Paper SNAPTEKMAS 2020</li><li>3. Best Presenter FIRST IC 2020</li><li>4. Best Presenter SNAPTEKMAS 2020</li></ol></li><li>- Quiz Online</li></ul>	16.30– 17.00	Main Room

# RUNDOWN

## TRACK 1

### (Engineering and Science)

ROOM : 1  
 TIME : Wednesday, 11 November, 2020/ 13.00 - 16.30  
 ARTICLES : 22  
 MODERATOR : Jaksen M. Amin, M.Si./ Indah Purnamasri, M.Eng

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	2079	Yusabri, Muhammad Yerizam, Aida Syarif	Characterization Of Blending Composition Variations In Fatty Acid Methyl Ester (Fame) Biofuels With Diesel To Biodiesel	Politeknik Negeri Sriwijaya, Pt. Pertamina (Persero) Refinery Unit Iii
2	13.10-13.20	2082	Pamilia Coniwanti, Fitri Hadiah, David Bahrin, Liza Novriani, Gracia Mei Lie Justina, Robinsyah	Processing Plastic Waste Hdpe And Pp On Pyrolysis Temperature Using Cu- Al <sub>2</sub> O <sub>3</sub> Catalyst Into An Alternative Liquid Fuel	Sriwijaya of University
3	13.20-13.30	2749	Yohandri Bow , Leila Kalsum, Abu Hasan, A.husaini	The Purification of Biogas with Monoethanolamine (MEA) Solution Based on Biogas Flow Rate	Politeknik Negeri Sriwijaya
4	13.30-13.40	2758	Rusdianasari, Yohandri Bow, Adi Syakdani, Muhammad Taufik	Filtration and Electrocoagulation as a Combined Process for Electroplating Wastewater	Politeknik Negeri Sriwijaya
5	13.40-13.50	2415	Novarini, Sigit Kurniawan, Rusdianasari, Yohandri Bow	Study Of Temperature And Use Of Catalysts In The Pyrolysis Of Ldpe Plastic Waste On The Quantity Of Oil Fuel Products Produced	Politeknik Jambi, Politeknik Negeri Sriwijaya
6	13.50-14.00	2077	Rika Musiana, Abu Hasan, Rd Kusumanto	Titanium Dioxide Soaking Time Effects On Dssc Powers And Efficiency	Politeknik Negeri Sriwijaya
7	14.00-14.10	2086	Juarsa, Aida Syarif, Leila Kalsum	Effect Of Feed Composition And Product Quantity Of Co- Processing Refined	Politeknik Negeri Sriwijaya, Pertamina



				Bleached Deodorized Palm Oil (Rbdpo)	Refinery Unit Iii Plaju, Palembang
8	14.10-14.20	2748	Ibnu Hajar , Fadarina, Mustain,	Hajar Tofu Industrial Liquid Waste Treatment by Electrocoagulation Method	Politeknik Negeri Sriwijaya
9	14.20-14.30	2626	KA Ridwan, Anerasari M, Taufik Jauhari, Ida Febriana	Effect Of Temperature On Biofuels Production With Catalytic Cracking Process	State Polytechnic of Sriwijaya
10	14.30-14.40	2573	Lety Trisnaliani1a, Aida Syarif, Sahrul Effendy, Tahdid, Rima Daniar	Effect Of Bentonite On The Yield And Composition Of Products From Thermolysis Of Polystyrene Waste	Politeknik Negeri Sriwijaya
11	14.40-14.50	2665	Muhammad Yerizam, Muhammad Zaman , Taufiq Jauhari, Nur Yuli, Riwen Setiawan, Umaidella Afrilla	PRODUCTION OF BIO-PELET BRIQUETTES FROM COCONUT SHELL WASTE AS ALTERNATIVE ENERGY FOR HOUSEHOLD SCALE	Politeknik Negeri Sriwijaya
12	14.50-15.00	2707	Zurohaina1, Irawan Rusnadi, Fatria, Arizal Aswan, Rima Daniar	Catalytic Pyrolysis Of Styrofoam Waste Using Zeolite Catalyst To Produce Liquid Fuel	Polytechnic Of Sriwijaya
13	15.00-15.10	2715	Ahmad Zikri, Indah Puspita, Erlinawati, Sutini PL, Agus M Elbi Zalita P, Andre Krismantoro	Production Of Green Diesel From Crude Palm Oil (CPO) Through Hydrotreating Process By Using Zeolite Catalyst	State Polytechnic of Sriwijaya
14	15.10-15.20	2723	Muhammad Hanif Fatin, A. Husaini, Leila Kalsum	Effect Of Adding Palm Oil Mill Effluent (POME) And Slurry On Biogas From Cow Manure To Produced Methane Gas	Politeknik Negeri Sriwijaya
15	15.20-15.30	2796	Aida Syarif, Rusdianasari, M. Yerizam, Sahirman Yusi	CHARACTERIZATION OF THERMAL ACTIVATED FLY ASH ADSORBENT BY STUDYING THE EFFECT OF TEMPERATURE	Politeknik Negeri Sriwijaya

16	15.30-15.40	2516	A Hasan, I Purnamasari, M Yerizam, A Hasan, R Junaidi	Drying Rate Of Skim Milk From Virgin Coconut Oil Remaining Water	Sriwijaya State Polytechnic
17	15.40-15.50	2656	Ibnu Hajar, Fadarina, Mustain Zamhari, Selastia Yuliati	Tofu Industrial Wastewater Treatment by Electrocoagulation Method	Politeknik Negeri Sriwijaya
18	15.50-16.00	2792	Elina Margaretty, Erwana Dewi, Leila Kalsum, Aisyah Suci Ningsih	BIOCELLULOSE MEMBRANE OF COCONUT WATER	Politeknik Negeri Sriwijaya
19	16.00-16.10	2794	Jaksen M. Amin, Idha Silviyati, Endang Suraptiah, Rima Dania	Surfactant Methyl Ester Sulfonate From Crude Palm Oil (CPO)- based Methyl Ester	Politeknik Negeri Sriwijaya
20	16.10-16.20	2250	Husaini A, Zaman M, Chodijah S, Hilwatullisan, Ibrahim	Oil Palm Empty Bunches As An Alternative Raw Material For Making Bioplastics	Politeknik Negeri Sriwijaya
21	16.20-16.30	2511	Azharuddin, Syafei, Didi Suryana, Indra Hb, M R Rahmaddy Y Pratomo, M A Ariasya	The Effect Of The Catalyst (Naoh) On The Processing Of Waste Used Oil Into Liquid Fuel	State Polytechnic Of Sriwijaya
22	16.30-16.40	2766	Ella Sundari, Soengeng Witjahjo, Eka Satria Martomi, Dodi Tafrant	DESIGN AND PROTOTYPE OF PAVING BLOCK MAKING MACHINE	Politeknik Negeri Sriwijaya

# RUNDOWN TRACK 1 (Engineering and Science)

ROOM : 2  
 TIME : Wednesday, 11 November, 2020/ 13.00 - 16.30  
 ARTICLES : 22  
 MODERATOR : Dr. Eng. Tresna Dewi, M.Eng/ Ozkar F.H., M.Eng

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	2094	Sujito, Mokh. Sholihul Hadi, I Made Wirawan, Faiz Syaikhoni, Abdullah Iskandar Syah, Danny Mayrawan	Water Quality Monitoring System In Gurame Fish Cultivation Based On Esp32	Universitas Negeri Malang
2	13.10-13.20	2426	Fatahul Arifin, Fenoria Putri, Iskandar, Mulyadi, Suparjo, Franando, Yusuf Dewantoro Herlambang	Optimization Of Stroke Rehabilitation Hand Component Of 3d Printing With Taguchi Method Approach	Politeknik Negeri Sriwijaya, Politeknik Negeri Semarang
3	13.20-13.30	2457	Ismail T, Dyos S, Joni Y, Samuel S, Abdurahman W, Aldi Y	Experimental Research Of The Influence Of Hot Machining Method On Aisi 4340 Lathe Machine Process Towards Specific Cutting Energy And Surface Roughness	Sriwijaya University
4	13.30-13.40	2487	Sujito, M.Z. Falah, M. R. Faiz	Study Of Capacitor Placement To Improve The Voltage Profile In Contingency Conditions Of The 150 Kv Madura Electricity Power System	Universitas Negeri Malang
5	13.40-13.50	2488	Tresna Dewi, Ahmad Taqwa, Rusdianasari, Rd Kusumanto, And Carlos Sitompul	The Investigation Of Sea Salt Soiling On Pv Panel	Politeknik Negeri Sriwijaya
6	13.50-14.00	2490	Yurni Oktarina, Tresna Dewi, Pola Risma, And	Real-Time Wireless Concept Of Vehicle To Vehicle Charging System	Politeknik Negeri Sriwijaya

			Muhammad Nawawi		
7	14.00-14.10	2522	Zainal Abidin , M. Yanis, M. Zahri Kadir, Astuti , Akbar Teguh Prakoso, Edo Syahrizal, Ardiyansyah Syahrom, Hasan Basri	Optimization Of Fdm 3d Printing Process Parameter For Improving Porosity Accuracy Of Pla Scaffold	Universitas Sriwijaya, Universiti Teknologi Malaysia,
8	14.10-14.20	2527	Risky Utama Putra, Akbar Teguh Prakoso, Amir Putra Md Saad, Ardiyansyah Syahrom, Hasan Basri	Fatigue Prediction Of Porous Magnesium Bone Scaffold Using Finite Element Method	Universitas Sriwijaya, Universiti Teknologi Malaysia
9	14.20-14.30	2763	Bambang Guntoro, Zainuddin, M. Yunus, Siswandi	THE GROUNDING SYSTEM IN FEEDER TOMAT PT. PLN (PERSERO) ULP MARIANA	Politeknik Negeri Sriwijaya
10	14.30-14.40	2510	Dp Putra, Romli, D Seprianto, Hasan Basri	Optimization Of Production Process Parameters Of Dlp Type 3d Printer Design For Product Roughness Value	Universitas Sriwijaya
11	14.40-14.50	2592	Ali Nurdin, Jon Endri, Ibnu Ziad, Ciksadan	Design Of Electronic Instruments As Tools Air Pollution Detection	Politeknik Negeri Sriwijaya
12	14.50-15.00	2249	W Adipradana, A Sofijan, Rahmawati, I Bizzy, R Sipahutar, M A Fajri	Datalogger Experimental Analysis Based On Arduino Mega 2560 On A 100 Wp Monocrystalline Solar Panel Using Perforated Plate	Sriwijaya University
13	15.00-15.10	2722	Romli, M. Afif Rizkiawan, Karmin, Sairul Effendi, Firdaus	The Effect Of Induction Heating On Tensile Test Specimens' Clamping Products Through The Medium Carbon Steel Materials' Engineering Technique	State Polytechnic Of Sriwijaya

14	15.10-15.20	2484	D Mayrawan, Sujito, I M Wirawan, F S Aziz, A I Syah, Ma Ashidiqi	Development Internet Of Things For Water Quality Monitoring System For Gouramy Cultivation	Universitas Negeri Malang
15	15.20-15.30	2485	M Z Falah, Sujito, I Mwirawan	Contingency Analysis On 150 Kv Electricity Power System On The Madura Island Based On The 1p1q Method	Universitas Negeri Malang
16	15.30-15.40	2797	Ozkar F. Homzah,* Tri Widagdo, Mardiana, Ibnu Asrofi, Destra A Pratama	Prototype of Small Savonius Wind Turbine	Politeknik Negeri Sriwijaya
17	15.40-15.50	2780	Yahya, Muhammad Rasid, Dicky Seprianto, Yahya	The Formation of Machine Components Using Powder Metallurgy Method Utilizing Metal Powder from Grinding Process	Politeknik Negeri Sriwijaya
18	15.50-16.00	2736	Noer Fadzri Perdana Dinata, Hasan Basri	Simulation-Based Analysis On Vacuum Actuated Soft Robotic Gripper: Trajectory And Stress Intensity Factor	Universitas Sriwijaya
19	16.00-16.10	2731	Lulu Khoirunnisa, Hasan Basri	Failure Analysis And Performance Assessment Of Tubular Air Heater At PLTU South Sumatra V	Universitas Sriwijaya
20	16.10-16.20	2787	Almadora Anwar Sani, Rachmat Dwi S, Irawan Malik, Ali Medi, Agus Nugraha	Automatic simulation of moving products using Line Follower and Conveyor	Politeknik Negeri Sriwijaya
21	16.20-16.30	2751	Mirdiansyah, Ahmad Taqwa, Yohandri Bow	Monitoring Depth of Discharge of a Valve Regulated Lead Acid Battery in a Standalone PV System	Politeknik Negeri Sriwijaya
22	16.30-16.40	2650	A Zamheri, D Seprianto, Carlos RS Indri A, TC Persada <sup>5</sup>	The Effect of Parameter Process 3D Printer Technology Digital Light Processing to Geometric of Shaft	Politeknik Negeri Sriwijaya

# RUNDOWN

## TRACK 1

### (Engineering and Science)

ROOM : 3  
 TIME : Wednesday, 11 November, 2020/ 13.00 - 16.30  
 ARTICLES : 22  
 MODERATOR : Dr. Martha Aznury, M.Si./ Dr. Indrayani, ST, MT

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	2073	Fadhila Firdausa, Sri Rezki Artini, Ahmad Syapawi, Puryanto	Bending Test Galvalum Cold Formed Steel Beam With Variation Mortar And Reinforcement Bars	Polytechnic Of Sriwijaya
2	13.10-13.20	2089	Pataras M, Kadarsa E, Permata D Y, Khairunnisa S, Akbar M A, Pratama Y	Index Of Retained Strength And Weight Loss On Flexible Pavement Ac-Wc And Hrs-Wc Using Polymer Products Ethylene Vinyl Acetate (Eva) And Styrene-Butadiene-Styrene (Sbs)	Sriwijaya University
3	13.20-13.30	2101	Adhitya B B, Pataras M, Kurnia A Y, Wiranda N, Wulansari W, Islami B M	Utilization Of Residual Sand Materials From The Mining Of Kaolin And Tin In Bangka Island On Flexible Pavement Structure	Sriwijaya University
4	13.30-13.40	2218	Ika Sulianti, Ibrahim, Indah Ayu Wiloka, Reta Iftitah Sari	The Influence Of Anadara Granosa's Shell Waste As A Substitute Of Fine Aggregate In Mixed Asphalt Concrete Wearing Course (Ac-Wc)	State Polytechnic Of Sriwijaya
5	13.40-13.50	2236	S Nisumanti, N Puspita, S Mulyaningsih,	Analysis Of The Impact Of Palembang - Indralaya (Palindra) Toll Road To Palembang – Indralaya National Road Service Levels	Universitas Indo Global Mandiri

6	13.50-14.00	2402	Sazili Harnawansyah, Herlinawati, Bastoni Hasasi, Radius Pranoto	The Effect Of Fly Ash As A Part Cement Institution On High-Quality Concrete Fc'35	Sriwijaya State Polytechnic
7	14.00-14.10	2553	Mahmuda, Revias, Siswa Indra, Sumiati	The Use Of Cold-Formed Steel As A Substitute For Reinforcement On Structural Of Lightweight Concrete Beams	State Polytechnic Sriwijaya
8	14.10-14.20	2724	Ibrahim, Amiruddin, And Ika Sulianti, And Agus Subrianto	The Effect Of Air Pressure On Foamed Mortar Production	State Polytechnic Of Sriwijaya
9	14.20-14.30	2767	Efrilia Rahmadona, , Sudarmadji, Norca Praditya, M. Ade Surya Pratama,	The Characteristics of Folding Bicycle Users Against The Selection of Transportation Modes in Palembang City	Politeknik Negeri Sriwijaya
10	14.30-14.40	2081	Rosdiana, Moeksin	Effect Of Amount Potassium Hydroxide, Methanol, And Electricity Current On The Production Process Of Methyl Esters From Used Frying Oil	Sriwijayaof University
11	14.40-14.50	2611	Moch.Absor, Yusri, A.Latif, A. Fuad Z.Muhammad Yusri R.	Optimization Of Public Trasport Service Bus Rapid Transit (Brt) Trans Musi In The City Of Palembang	Politeknik Negeri Sriwijaya
12	14.50-15.00	2109	Yonki Alexander Volta, Rusdianasari, Syahirman Yusi	Life Cycle Assessment (Lca) In Pulp & Paper Mills: Comparison Between Mfo With Biomass In Lime Kiln	Politeknik Negeri Sriwijaya
13	15.00-15.10	2120	Farida Ali, Lia Cundari, Siti Miskah, Hendri Prasetyo	Effect Of Variations Concentration And Ph Of Liquid Smoke In The Immersion With Various Types Of Fish	Universitas Sriwijaya
14	15.10-15.20	2154	Indrayani , Andi Herius, Akhmad Mirza, Ricky Ravsyhan Alhafez	Comparison Of The Use Of Fly Ash And Rice Husk Ash In The Making Of Geopolymer Concrete	Politeknik Negeri Sriwijaya

15	15.20-15.30	2235	Norma Puspita	Flexural Strength Analysis Of Concrete With The Addition Of B3 Waste As An Additive To Ordinary Portland Cement (Opc)	Universitas Indo Global Mandiri
16	15.30-15.40	2811	Agung Budi Santoso, Martha Aznuri, Nova Rachmadona, Robert Junaidi, Fertarina Pratiwi	Simulation of Silage Production from Water Hyacinth ( <i>Eichornia crassipes</i> ) as Ruminants Feed Based on The Increase of <i>Aspergillus niger</i>	<i>University, Bangkok, Thailand, Politeknik Negeri Sriwijaya, Kobe University, Japan</i>
17	15.40-15.50	2645	Sumiati, Mahmuda, Ahmad Syapawi	The placement position of hollow cores in the ideal longitudinal direction on the reinforced concrete beam	State Polytechnic Sriwijaya
18	15.50-16.00	2741	Nova Rachmadona, Martha Aznury, Chiaki Ogino	Production of Biodiesel from Unrefined Plants-Derived Oil by Immobilized <i>Aspergillus oryzae</i> Expressing <i>Bacillus thermocatenulatus</i> Lipase	Kobe University, Japan
19	16.00-16.10	2571	Darma Prabudi, Kosim, Zainuddin, Raja Marpaung	Partial Substitution Of Cement Using Fly Ash And Carbite Waste In The Making Of Normal Concrete	Sriwijaya State Polytechnic
20	16.10-16.20	2660	Hendi Warlika Sedo Putra, Maya Fitri Oktarini, Primadella	Community Adaptation to Traditional Markets during the Pandemic Period in Palembang City	Politeknik Negeri Sriwijaya
21	16.20-16.30	2809	Martha Aznury, Elina Margerty, Melianti Sofiah, Yuniar, Sufi Awwaliyah	EFFECT OF FERMENTATION TIME AND PERCENTAGE OF MORINGA ( <i>Moringa oleifera</i> ) FLOUR VARIATIONS ON VITAMIN C OF YOGURT	Politeknik Negeri Sriwijaya
22	16.30-16.40	2744	R.Marpen, A. Hasan, AN.Sari,HWS.Putra, R. Pranoto	Road Damage Conditions Analysis Of Tanjung Api-Api - Gasing District Road Based On Surface	Politeknik Negeri Sriwijaya



				Distress Index (Sdi) Method	
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# RUNDOWN TRACK 2

**(Computer Science, , Computer Engineering, Information System, Informatics Management)**

ROOM : 5  
 TIME : Wednesday, 11 November, 2020/ 13.00 - 16.30  
 ARTICLES : 21  
 MODERATOR : M.Miftakhul Amin, M.Eng /Aryanti, M.Kom.

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	2550	Muhammad Aris Ganiardi, Indri Ariyanti, Nita Novita, Delta Khairunissa	DATA MODEL PATTERN FOR DATA WAREHOUSE WEB APPLICATION OF INFORMATION PORTAL (Case study : Hidyatullah Integrated Islamic Boarding School, Banyuasin Regency)	Politeknik Negeri Sriwijaya
2	13.10-13.20	2577	Dedy Kurniawan, Ahmad Rifai, Ariansyah Saputra	Inventory control and EOQ forecasting tools as effective decision-making model	Universitas Sriwijaya, Politeknik Negeri Sriwijaya
3	13.20-13.30	2096	Sujito Sujito, Faiz Syaikhoni Aziz, Aji Prasetya Wibawa, I Made Wirawan, Ari Priharta, Abdullah Iskandar Syah, Tran Huu Duy	Increasing Sensitivity of pH Detection Using Computer Vision Based Biosensors	Universitas Negeri Malang Dalat University
4	13.30-13.40	2603	Ica Admirani, Ikhthison Mekongga, Isnaini Azro, Hidayati Ami, Rian Rahmanda Putra	Adaptive Fuzzy time Series Method to Forecasting Enrollments of New Student (Case Study : Department of Computer Engineering, State Polytechnic of Sriwijaya)	Politeknik Negeri Sriwijaya
5	13.40-13.50	2613	Azwardi, Yulian Mirza, Alan Novi Tompunu, Ariansyah Saputra	ROOM SAFETY SYSTEM USING FACE RECOGNITION USING TELEGRAM	Politeknik Negeri Sriwijaya

				AND RASPBERRY PI BASED HISTOGRAM OF ORIENTED METHOD	
6	13.50-14.00	2618	Ahyar Supani, Ahmad Bahri Joni Malyan, Herlambang Saputra, Indarto, Yuli Andriani	Telemetry Design Accuration of Patient's Temperature with IoT Approach	Politeknik Negeri Sriwijaya, Universitas Sriwijaya
7	14.00-14.10	2097	Faiz Syaikhoni Aziz, Sujito Sujito, Aji Prasetya Wibawa, I Made Wirawan, Ari Priharto, Abdullah Iskandar Syah, Tran Huu Duy	Image Processing System for pH Classification Using Biosensors	Universitas Negeri Malang Dalat University
8	14.10-14.20	2274	Irma Salamah, Lindawati, Asriyadi, M.Fadhli	Quality Measurement Evaluation of the POLSRI Learning Management System Website Using Importance Performance Analysis (IPA) Method	Politeknik Negeri Sriwijaya
9	14.20-14.30	2620	M. Miftakul Amin, Slamet Widodo, Adi Sutrisman, Ervi Cofriyanti, Ali Firdaus	RESTful Web Service as Data Generator for Reporting of Academic Information System	Politeknik Negeri Sriwijaya
10	14.30-14.40	2666	Abdul Rakhman, Irawan Hadi, Nasron, Martinus Mujur Rose	Design and Implementation of Learning E-Scheduling in Sriwijaya State Polytechnic - Telecommunication Engineering Study Program	Politeknik Negeri Sriwijaya
11	14.40-14.50	2702	Yusniarti, Henny Madora, Ida Wahyuningrum, Muhammad Noval	PHP PROGRAMMING FOR ACHIEVING STUDENTS IN INFORMATICS MANAGEMENT DEPARTMENT STATE OF POLYTECHNIC SRIWIJA	Politeknik Negeri Sriwijaya

12	14.50-15.00	2704	Robinson, Deri Darfin, Zulkarnaini, Ridwan Effendi,	MEDICAL SERVICES APPLICATION OF LECTURERS, STAFF AND STUDENTS IN THE SRIWIJAYA STATE POLYTECHNIC POLYCLINIC	Politeknik Negeri Sriwijaya
13	15.00-15.10	2768	Rahman Hakim, Muhammad Hasan Albana, Widodo, Hanifah Widiastuti and Wahyu Caesarendra	Prototype development of motorbike towing hook toward authorized mechanic perception and investigation	Politeknik Negeri Batam, Universiti Brunei Darussalam
14	15.10-15.20	2770	Mochamad Denny Surindra, Wahyu Caesarendra	Investigation Study of Pressure Different Effect at Evaporator in Organic Rankine Cycle Simulator (ORCS) Using Low-grade Waste Heat	Politeknik Negeri Semarang, Universiti Brunei Darussalam
15	15.20-15.30	2644	Indra Satriadi, Sony Oktapriandy, Hetty Meileni, Desy Aprianty..	Application of Tracking Letter Disposition at State Polytechnic of Sriwijaya based on Android Webview	Politeknik Negeri Sriwijaya,
16	15.30-15.40	1994	Ikhthison Mekongga, Aryanti Aryanti	The Shortest Path Search Application For Base Transceiver Station (Bts) Using A* Algorithm	Politeknik Negeri Sriwijaya, Southern Taiwan University Of Science And Technology, Tainan, Taiwan
17	15.40-15.50	2615	Aryanti Aryanti , Ade Silvia Handayani, Ibnu Ziad, Ikhthison Mekongga, Farid Jatri Abiyyu	Compatibility Of Linux Architecture For Diskless Technology System	Southern Taiwan University Of Science And Technology, Tainan, Taiwan, Politeknik Negeri Sriwijaya
18	15.50-16.00	2636	M. Zakuan Agung, Eka Susanti , R.A Halimatussa'diyah, Susanzefi, Amirah Fakhirah	Reservoir Irrigation System Design Based Wireless Sensor Network	Politeknik Negeri Sriwijaya

<b>19</b>	16.00-16.10	2817	Sarjana, Adewasti, Sholihin, Emilia Hesti	Using Night Vision Camera Robot Based On Internet Of Thing	Politeknik Negeri Sriwijaya
<b>20</b>	16.10-16.20	2726	Yudi Wijanarko, Selamet Muslimin, Renny Maulidda	Biometric Fingerprint Implementation For Presence Checking And Room Access Control System	Politeknik Negeri Sriwijaya
<b>21</b>	16.20-16.30	2663	Ahmad Taqwa, Mohammad Fadhli, Sopian Soim, Ade Silvia Suroso	Prototype Design of Landslide Early Detection System Using LoRa and IoT	Politeknik Negeri Sriwijaya

## RUNDOWN TRACK 2 (Computer Science, , Computer Engineering, Information System, Informatics Management)

ROOM : 6  
 TIME : Wednesday, 11 November, 2020/ 13.00 - 16.30  
 ARTICLES : 21  
 MODERATOR : Dr.Nyayu Latifah H, MT/Rika Sadariawati, M.Si.

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	2078	M. Rudi Sanjaya, Yadi Utama, Dedy Kurniawan, Ariansyah Saputra, Novita Sari, Rahma Destriani, Muhammad Raihan Udda Rahmany	Implementation of Ustadz Search Software for Mubaligh, Qori and Qoriah Categories in Palembang Using an Android-Based Usability Approach	Universitas Sriwijaya, Politeknik Negeri Sriwijaya,
2	13.10-13.20	2619	Leni Novianti, Devi Sartika, Dewi Irmawati, Ienda Meiriska	Application of Campus Parking Area for State Polytechnic of Sriwijaya Based on Smartphone	Politeknik Negeri Sriwijaya
3	13.20-13.30	2669	Devi Sartika, Leni Novianti, Dewi Irmawati, Ienda Meiriska	ANDROID-BASE m- VOTING APPLICATION DEVELOPMENT WITH SIMPLE ADDITIVE WEIGHTING METHOD	Politeknik Negeri Sriwijaya
4	13.30-13.40	2098	M. Rudi Sanjaya, Ariansyah Saputra, Bayu Wijaya Putra, Novita Sari, Rahma Destriani, Muhammad Raihan Udda Rahmany	Design Web Based Online Tutoring Application in Palembang City Using the SUS (System Usability Scale) Method	Universitas Sriwijaya, Politeknik Negeri Sriwijaya,
5	13.40-13.50	2225	Yayuk Ike Melani and Mahmud	Black Box Testing Using Equivalence Partition Method in Sintana Application	STMIK PalComTech, Palembang
6	13.50-14.00	2366	Eko Setiawan and Wiza Yunifa	The Design of A Tool To Measure The Effectiveness and Efficiency of Users	Politeknik PalComTech Palembang

				Towards The Application of Polisiku Application	
7	14.00-14.10	2432	Hendra Hadiwijaya, Febrianty Febrianty, Rezania Agramanisti Azdy	Database Design for Child Special Development Institution's Service Performance E-dashboard (Case Study: Palembang Child Special Development Institution)	Politeknik PalComTech, STMIK Palcomtech
8	14.10-14.20	2440	Dedy Kurniawan, Ariansyah Saputra, M. Rudi Sanjaya, Zaqqi Yamani	Extending The Understanding of Business Intelligence and Its Application In Startups	Universitas Sriwijaya, Politeknik Negeri Sriwijaya,
9	14.20-14.30	2472	Hetty Meileni	THE APPLICATION OF DIGITAL MARKETING FOR UKM IN FACING THE COVID-19 PANDEMIC	Politeknik Negeri Sriwijaya
10	14.30-14.40	2586	Hartati Deviana	Designing Student And Lecturer Attendance System Application Using Progressive Web Apps (PWA)	Politeknik Negeri Sriwijaya
11	14.40-14.50	2760	Donny Novaliendry	Designing augmented reality-based computer devices learning media on android platform	Universitas Negeri Padang
12	14.50-15.00	2706	Alan Novi Tompunu, Nelly Masnila, Zakaria, Azwardi, Ainun Nabila	Public Service Announcement Implementation of Learning at the Sriwijaya State Polytechnic in Minimizing the Risks and Impacts Caused by the Covid-19 Pandemic	Politeknik Negeri Sriwijaya
13	15.00-15.10	2087	Husnawati, Shinta puspasari, Rian Rahmanda Putra	Principal Component Analysis Method For Image Segmentation Of Smart Meter Digital	Indo Global Mandiri University, Politeknik Negeri Sriwijaya

14	15.10-15.20	2838	Muhammad Haikal Satria, Arie Jaenul, Adhes Gamayel	Design of Solar Powered Vaccine Backpack	Jakarta Global University
15	15.20-15.30	2798	Evelina , Amperawan Dewi Permata Sari , Sabilal Rasyad	TRAINER MODULE DESIGN OF ITEM SORTING EQUIPMENT BASED ON HEIGHT AND PLC-BASED TRAFFIC LIGHT PROTOTYPE IN THE SYSTEM LABORATORY	Politeknik Negeri Sriwijaya
16	15.30-15.40	2599	Ade Silvia Handayani, Ahmad Taqwa, Arsyil Shiddik, Nyayu Latifah Husni	Prototype Development Of Heartbeat And Body Temperature Monitoring System Based On Internet Of Things	Politeknik Negeri Sriwijaya
17	15.40-15.50	2661	Ade Silvia Handayani, Jefri Alkausar, Sarjana, Nyayu Latifah Husni, Siti Nurmaini, Irsyadi Yani	Implementation of Fuzzy Logic Type-2 On Mobile Robot Navigation System	Politeknik Negeri Sriwijaya
18	15.50-16.00	2805	Nyayu Latifah Husni, Arganda Meranda, Destra Andika Pratam, Ekawati Prihatini, Selamat Muslimin, Ade Silvia Handayani	Wireless Detector for Lung Sound Disorder based on DSP TMS320C6416 Module	Politeknik Negeri Sriwijaya
19	16.00-16.10	2806	Nyayu Latifah Husni, Qodry Maulana, Ekawati Prihatini, Ade Silvia Handayani, Firdaus	New Navigation Strategy for G-Bot	Politeknik Negeri Sriwijaya
20	16.10-16.20	2824	Ade Silvia Handayani, Nyayu Latifah Husni, Al Fatur Sayid, Rosmalinda Permatasari, Carlos R Sitompul, Sopian Soim	Air Detection Environment System (Adev) Using Android Application for Air Quality in Park Area	Politeknik Negeri Sriwijaya, Universitas Tridianti Palembang
21	16.20-16.30	2775	Carlos R Sitompul, Zainuddin Nawawi, Irfan Jambak, Rumiasih Rumiasih, Anton Firmansyah, Indah Susanti	The condition of the surface severity of the polluted insulator based on harmonic measurements of leakage currents	Politeknik Negeri Sriwijaya



## RUNDOWN TRACK 3 (Social Science)

ROOM : 7  
 TIME : Wednesday, 11 November, 2020/ 13.00 - 16.30  
 ARTICLES : 16  
 MODERATOR : Doeslohal Djumrianti, Ph.D/ Dr. Marieska L

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	2575	Abd. Hamid, Ummasyroh, Jusmawi Bustan, Heri Setiawan	The Influence Of Travel Experience And Destination Quality On Tourist Satisfaction Visiting Culinary Tourism Destinations	State Polytechnic Of Sriwijaya
2	13.10-13.20	2576	A.Jalaludin Sayuti, Munparidi, L.Suhairi Hazizma, Alditia Detmuliati	The Effect Of Organizational Support And Job Characteristics On Employee Engagement	State Polytechnic Of Sriwijaya
3	13.20-13.30	2578	Afrizawati , Faisal, Divianto, Yahya	Implication Of Work Ability And Organization Climate Against Turnover Intention Through Work Satisfaction As Intervening Variables In Global Capital Investama, Palembang PT.	State Polytechnic Of Sriwijaya
4	13.30-13.40	2581	Purwati, Yusleli Herawati, Elisa, Marieska Lupikawati	The Linkage Between Market Orientation, Learning Orientation, And Innovation Capabilities Of Small Scale Restaurant	State Polytechnic Of Sriwijaya
5	13.40-13.50	2589	Yusri, Sri Gustiani, Tiur Simanjuntak, Evi Agustinasari	Strengthening Students' Writing On Project Report Via Project Based Learning To The English Department Students Of Sriwijaya State Polytechnics	State Polytechnic Of Sriwijaya
6	13.50-14.00	2596	Deslochal Djumrianti, Pridson Mandiangan , Hanifati, Alfitriani	Analysis Of Daily Conversation For Online Drivers	Politeknik Negeri Sriwijaya

7	14.00-14.10	2711	Farida Husin, Ibnu Maja, Yulianto Wairan, Lindawati	THE STUDENTS' PERCEPTIONS OF RELIGIOUS RADICALISM AT STATE POLYTECHNIC OF SRIWIJAYA	Politeknik Negeri Sriwijaya
8	14.10-14.20	2733	Koryati Koryati, Aisyah Shahab, Zulkifli Zulkifli, Nian Masna Evawati	The Correlation between Students' Listening Comprehension Strategy and Their TOEIC Score at State Polytechnic of Sriwijaya	Politeknik Negeri Sriwijaya
9	14.20-14.30	2734	Lisbet Octovia Manalu, Budi Rustandi, Budi Somantri	DESCRIPTION OF ANXIETY LEVELS OF PRE SCHOOL CHILDREN WITH THALASEMIA WHO WILL GET BLOOD TRANSFUSE IN THE THALASEMIA POLY AT AL-IHSAN BALEENDAH HOSPITAL, BANDUNG	Rajawali Health Institute Bandung
10	14.30-14.40	2759	Setiawan Priatmoko, Dávid Lóránt,,	A Story of a Cup of Coffee Review of Google Local Guide Review	STIE Pariwisata API Yogyakarta, Indonesia/ Szent Istvan University School of Economics and Regional Science Gödöllő, Hungary
11	14.40-14.50	2788	Desloehal Djumrianti , Augustus E. Oseso-Asare	Asian women's roles in family holiday: A case study of Indonesian females	Politeknik Negeri Sriwijaya , University of Sunderland, United Kingdom
12	14.50-15.00	2789	Desloehal Djumrianti , Augustus E. Oseso-Asare	Analysis of Daily Conversation for Online Drivers	Politeknik Negeri Sriwijaya , University of Sunderland, United Kingdom

13	15.00-15.10	2791	Muhamad Erwin, Ahmad Taqwa, Dicky Seprianto, Ahmad Zamheri	The Customary Philosophy of the Anak Dalam Tribe as part of the soul of the nation's law	Politeknik Negeri Sriwijaya
14	15.10-15.20	2612	Alhushori, Yusnizal Firdaus, Markoni Badri, Muhammad Yusuf	THE INFLUENCE OF LEADERSHIP STYLE, AND MOTIVATION WORK STRUCTURE TO MUARA ENIM COMMUNITY HEALTH CENTER (EQUATION STRUCTURAL METHOD APPROACH)	State Polytechnic Of Sriwijaya
15	15.20-15.30	2713	Ayu Puspasari	SETTLEMENT OF CASES OF TERMINATION OF EMPLOYMENT AT THE INDUSTRIAL RELATION COURT IN PALEMBANG CITY	Politeknik Negeri Sriwijaya
16	15.30-15.40	2845	Nur Rizka Erlianta, Marieska Lupikawaty, Titi Andriyani	The Effect of Financial Technology on Financial Inclusion in SMEs in Palembang City	Politeknik Negeri Sriwijaya

## RUNDOWN TRACK 3 (Social Science)

ROOM : 8  
 TIME : Wednesday, 11 November, 2020/ 13.00 - 16.30  
 ARTICLES : 16  
 MODERATOR : Dr. Sari Lestari ZR/ Dr. Rita Martini.

NO	Time	ID	AUTHORS	TITLE	AFFILIATION
1	13.00-13.10	2217	Sarikadarwati, Henny Yulsiati, Sandrayati, Susi Ardiani	The Effect Of Patient Satisfaction Levels On Competency And Facilities At Siti Khadijah Islamic Hospital, Palembang City	Polytechnic Of Sriwijaya
2	13.10-13.20	2579	Aladin, Evada Dewata, Yuliana Sari, Yuli Antina Aryani	The Role Of Small And Medium Enterprises (Smes) And Economic Growth In Indonesia: The Vecm Analysis	Politeknik Negeri Sriwijaya
3	13.20-13.30	2583	Rita Martini, Endah Widyastuti, Sukmini Hartati, Zulkifli, Riana Mayasari	Poverty In South Sumatra Province Is Viewed From Village Fund And Village Fund Allocation	Polytechnic State Of Sriwijaya
4	13.30-13.40	2602	Rosyarmaini, Maria Maria, Nurhasanah Nurhasanah, Yevi Dwitayanti	Impact Of Bumdesa Management On Padesa In Penukal Abab Lematang Ilir Regency	State Polytechnic Of Sriwijaya
5	13.40-13.50	2803	Sri Hartaty, Eka Jumarni F, Anggeraini O, L. Vera R.P.	Factors Affecting Economic Growth in Regencies and Cities in The Province of South Sumatra in 2010 - 2018	Politeknik Negeri Sriwijaya
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# Impact of BUMDesa Management on PADesa in Penukal Abab Lematang Ilir Regency

Rosy Armaini<sup>1,\*</sup> Maria Maria<sup>1</sup> Nurhasanah Nurhasanah<sup>1</sup> Yevi Dwitayanti<sup>1</sup>

<sup>1</sup> *Accounting Major, State Polytechnic of Sriwijaya, Palembang, South Sumatera, Indonesia*

<sup>\*</sup> *Corresponding author Email: [rosyarmaini@polsri.ac.id](mailto:rosyarmaini@polsri.ac.id)*

## ABSTRACT

This study points to prove empirically the increase in PADesa due to the establishment of BUMDesa which is managed by Information Technology Utilization, Community Participation, and Human Resource Competency in Penukal Abab Lematang Ilir Regency. The sample used in the research was the Operational Officer/ Director of the BUMDesa and the Finance Department in each BUMDesa. The data used in this research were obtained from primary data in the form of questionnaires sent directly to respondents via email. The analytical tool that will be used is the Multiple Linear Regression analysis using the SPSS (Statistical Package for Social Science) program. The results in this research indicate that the use of Information Technology Utilization has a negative and significant impact on PADesa, Community Participation has a positive and significant impact on PADesa and Human Resource Competency has no effect on PADesa.

**Keywords:** *BUMDesa, Information Technology Utilization, Community Participation, Human Resource Competency, PADesa.*

## 1. INTRODUCTION

Economic assets in the village must be fully managed by the village community. This institutional form is called BUMDesa as mandated in Undang-Undang Nomor 6 Tahun 2014 tentang Desa, and in accordance with Peraturan Pemerintah Nomor 43 Tahun 2014 tentang Peraturan Pelaksanaan Undang-Undang Nomor 6 Tahun 2014 tentang Desa, each Village can establish Badan Usaha Milik Desa (BUMDesa) based on Village Regulation through a Village Deliberation. The Government Regulation also states that the operational operator of BUMDesa is obliged to report management and management of BUMDesa to the Village Head as Advisor, periodically.

BUMDesa Management is technically regulated in Peraturan Menteri Desa, Pembangunan Daerah Tertinggal, dan Transmigrasi Nomor 4 Tahun 2015 Pendirian, Pengurusan, dan Pengelolaan, dan pembubaran Badan Usaha Milik Desa, which in Pasal 2 states that "The establishment of BUMDesa is targeted as the effort to accommodate all economic sectors and/or public services activities managed by the Village and/or cooperation between villages.

The phenomenon that the researcher adopts is based on President Jokowi's statement at the Limited Meeting at the Presidential Palace in Jakarta, Wednesday, the 11<sup>th</sup>

December 2019 that as many as 2,188 BUMDesa were not operating and 1,670 BUMDesa were operating but had not yet contributed to village income (Ihsanuddin, Kompas.com, 2019).

The benchmark for the researcher is the independence of the Regency in increasing the locally-generated revenue starting from the PADesa. According to Pasal 9 ayat (1) Peraturan Menteri Dalam Negeri Nomor 113 Tahun 2014 tentang Pengelolaan Keuangan Desa, the definition of village income is all money received through a village account which is the right of the village within 1 fiscal year which does not need to be repaid by the village.

Based on Permendesa PDPTT Nomor 4 Tahun 2015 article 12 (3) It is stated that the BUMDesa operational executor has the authority to make financial reports of all BUM Desa business units every month. In addition, the human resources in accounting owned by BUM Desa are generally inadequate, so it is necessary to have an application that can help prepare BUM Desa financial reports easily and simply.

The results of Warijo's research (2014) show that in order to achieve development success, aspects that must be considered include community involvement in development. Furthermore, Siti Ramlah (2018), Community Participation is a prerequisite for the success of the development program.

BUMDesa Management to increase PADesa also needs to be supported by human resources who have competence according to their respective fields of work and are in line with the direction of the vision and mission of the agency so that it can achieve the goals and objectives of the agency. This is in accordance with Peraturan Menteri Dalam Negeri Republik Indonesia Nomor 2 Tahun 2013 which states that to improve the quality of government administration, competent and professional officials are needed. According to Elbadiansyah (2019: 1) "Human Resources are people who are mobilized and employed in an organization or company as a source of driving, thinkers, and planners to achieve the organization goals".

Apart from this, the development of information technology is growing rapidly. The development of information technology has led to electronification in government administration in order to increase time effectiveness and cost efficiency in various fields. Based on Peraturan Presiden Nomor 95 Tahun 2018 tentang Sistem Pemerintahan Berbasis Elektronik, it is written that in order to make the clean, effective, transparent and accountable governance and reliable public services with good quality, it needs an electronic-based governance system which utilizes information technology.

Based on the above phenomena, the research was conducted to empirically prove the increase in PADes due to the establishment of BUMDesa which was managed by the Utilization of Information Technology, Community Participation, and Human Resource Competency.

## **2. RESEARCH DESIGN AND METHODS**

### **2.1 Data Sources**

This research uses questionnaires as the primary data which are given to 130 respondents via e-mail from 65 BUMDesa and data on the level of PADesa as stated in the APBDesa, which were obtained from the Office of the Village Community Empowerment Office of Penukal Abab Lematang Ilir Regency.

### **2.2 Research Population and Samples**

The population used in this research is BUMDesa in Penukal Abab Lematang Ilir Regency, South Sumatra Province which was founded in 2016, which is as many as 65 BUMDesa. The research sample was the Operational Executive/ Director of the BUMDesa and the Finance Department in each BUMDesa.

### **2.3 Research Variable**

#### **2.3.1 Dependent Variable**

The dependent variable in this research is PADesa which is measured as stated in the Village Budget in all

villages in Penukal Abab Lematang Ilir Regency from 2016 - 2019.

#### **2.3.2 Independent Variable**

The independent variables in this research are BUMDesa Management, namely Information Technology Utilization (X1), Community Participation (X2) and Human Resource Competency (X3) in Penukal Abab Lematang Ilir Regency.

## **2.4 Data Analysis Technique**

### **2.4.1 Descriptive Statistics**

Descriptive statistics is a table which describes the maximum, minimum, and average (mean) values, which are used to estimate the population mean of the entire sample that has been predetermined.

### **2.4.2 Validity Test**

According to Sugiyono (2016: 121), a valid measuring tool is a measuring tool that has a significant correlation between the item score and the total score. If the correlation value of an item is  $> 0.3$ , the item is valid. Otherwise, if the correlation value of an item  $< 0.3$ , the item is invalid.

### **2.4.3 Reliability Test**

According to Sugiyono (2016: 121), in making reliability decisions, an instrument may be reliable if the negligence value of a questionnaire is  $> 0.6$ , then the questionnaire instrument is reliable. Otherwise, if the alpha value of an item  $< 0.6$ , it is concluded that the questionnaire is not reliable.

### **2.4.4 Classic Assumption Test**

#### **2.4.4.1 Normality Test**

It is used to test if in the regression model, confounding or residual variables have a normal distribution. The t test and F test assume that the residuals follow a normal distribution. If it is violated, the statistical test will be invalid (Ghozali, 2009). In this research, the normality test method is used by observing the data distribution on diagonal sources on the normal P-P Plot Regression Standardized Residual graph.

#### **2.4.4.2 Multicollinearity Test**

It aims to test if there is a correlation between the independent variables in the regression model. The great regression model should not have correlation between variables, because it will make them orthogonal. Orthogonal variables are those with the correlation value of zero (Ghozali, 2009). The presence of multicollinearity is detected by observing the tolerance

value of the opposite and seeing the variance inflation factor (VIF). These measures indicate which variable is explained by the others. Tolerance measures the variability of the selected independent variable which is not explained by the others. The low tolerance value is the same as a high VIF value (because  $VIF = 1/tolerance$ ). The tolerance value  $\leq 0.1$  or equal to the VIF value  $\geq 10$  is so commonly used to indicate multicollinearity that there is no multicollinearity in the regression model if the VIF value is  $\leq 10$  (Ghozali, 2009).

**2.4.4.3 Heteroscedasticity Test**

It is used to test the inequality of variance from the residuals in the regression model. If the variance remains, it is called homoscedasticity, whereas if it is different it is called heteroscedasticity. The great regression model is the one without heteroscedasticity (Ghozali, 2009). The detection of heteroscedasticity symptoms is done by observing the certain pattern on the scatterplot graph around the values of X1, X2, X3, and Y. If there is a certain pattern, then there has been a symptom of heteroscedasticity.

**2.5 Hypothesis Testing**

**2.5.1 Multiple Linear Regression Test**

This research uses multiple linear regression analysis with testing using the SPSS program as the analytical method. It is applied to see the relationship between the independent variable and the dependent variable.

The regression model used in this research is:

$$Y = \alpha + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + e$$

Information:

- Y = PADesa
- X<sub>1</sub> = Information Technology Utilization in BM
- X<sub>2</sub> = Community Participation in BM
- X<sub>3</sub> = Human Resource Competency in BM
- α = Constant
- β<sub>1</sub> β<sub>2</sub> β<sub>3</sub> = Coefficient of regression line
- e = error
- BM = BUMDesa Management

**2.5.2 Determination Coefficient (R<sup>2</sup>)**

The determination coefficient (R<sup>2</sup>) is basically used to measure the model's ability to explain the dependent variable variation. The ability value of the independent variables in explaining the dependent variable is very limited. A value close to one means that the independent variables provide almost all the information needed to predict the dependent variable (Ghozali, 2009).

**2.5.3 Statistical F-Test**

It is used to test whether the regression model used is feasible with these conditions:

1. If F-count is greater than F-table or the probability is smaller than the level of significance (Sig <0.05), then the research model can be used or the model is not feasible.
2. Then if F-count is smaller than F-table or the probability is greater than the level of significance (Sig.> 0.05), then the research model model cannot be used or the model is not feasible.
3. Next, compare the calculated F-value with the F-value according to the table. If F-count is greater than the F-table value, then the research model is feasible.

**2.5.4 Statistical t-Test**

It is used to test between the independent variables and the dependent variable with the assumption that other variables are considered constant with a confidence level of 5% (α = 0.05). Statistical t-Test was conducted to see the regression coefficient of the individual research variables (Ghozali, 2011). Decision making is made based on the comparison of t-count with t-table. The conclusion of this test is: If t-count > t-table, H<sub>a</sub> is accepted, and If t-count < t-table, H<sub>a</sub> is rejected.

**3. FINDINGS AND CONCLUSIONS**

**3.1 Descriptive Statistics**

**Table 1.** Descriptive Statistics Results

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
TOTALX1	130	13,00	30,00	21,6615	3,12914
TOTALX2	130	19,00	35,00	26,4385	3,76850
TOTALX3	130	24,00	60,00	45,1154	4,86027
TOTALY	130	26,00	42,00	32,5231	3,98877
Valid N (listwise)	130				

Source: SPSS output

The table over appearsthat the independent variable X1, namely the Information Technology Utilization in BM has the minimum (lowest) value of 13.00, the maximum (highest) value of 30.00, the mean (average) value of 21.6615, and the standard deviation of 3.12914. The independent variable X2, namely Community Participation in BM has the minimum (lowest) value of 19.00, the maximum (highest) value of 35.00, the mean (average) value of 26.4385, and the standard deviation of 3.76850. The independent variable X3, namely Human Resource Competency in BM has the minimum value (lowest) of 24.00, the maximum (highest) value of 60.00, the mean (average) value of 45.1154, and the standard deviation of 4.86027. Whereas the dependent variable using the PADesa has the minimum value (lowest) of 26.00, the maximum value (highest) of

42.00, the mean (average) value of 32.5231, and the standard deviation of 3.98877.

**3.2. Validity Test Results**

**Table 2.** Validity Test Results on the Information Technology Utilization Variable

Item-Total Statistics	
	Corrected Item-Total Correlation
X1-1	,714
X1-2	,756
X1-3	,690
X1-4	,735
X1-5	,672
X1-6	,736
X1	1,000

Source: Processed SPSS output (2020)

The table 2 shows the validity test results carried out on the six statements used in the Information Technology Utilization variable (X1) with the calculated r value for the six instrument statements shown in Corrected Item-Total Correlation column. Overall, the calculated r value is so larger than the r value in the table (0.3061) that all six statements can be said as the valid statements.

**Table 3.** Validity Test Results on the Community Participation Variable

Item-Total Statistics	
	Corrected Item-Total Correlation
X2-1	,867
X2-2	,884
X2-3	,670
X2-4	,759
X2-5	,878
X2-6	,824
X2-7	,862
X2	1,000

Source: Processed SPSS output (2020)

The table above shows the validity test results carried out on the seven statements used in the Community Participation variable (X2). The calculated r value is so larger than the r value in the table (0.3061) that all six statements above can be said as the valid statements.

**Table 4** Validity Test Results on the Human Resource Competency Variables

Item-Total Statistics	
	Corrected Item-Total Correlation
X3-1	,528
X3-2	,603
X3-3	,735
X3-4	,761
X3-5	,602
X3-6	,829
X3-7	,774
X3-8	,747
X3-9	,659
X3-10	,778

X3-11	,691
X3-12	,777
X3	1,000

Source: Processed SPSS output (2020)

The table above shows the validity test results carried out on the twelve statements used in the Human Resource Competency variable (X3) with the calculated r value for the instrument statements shown in the Corrected Item-Total Correlation column. Overall, the calculated r value is so larger than the r value in the table (0.3061) that the entire statements above can be said as the valid statements.

**Table 5.** Validity Test Results on the PADesa Variable

Item-Total Statistics	
	Corrected Item-Total Correlation
Y-2	,549
Y-3	,416
Y-5	,870
Y-6	,710
Y-7	,819
Y-8	,650
Y-9	,727
Y	1,000

Source: Processed SPSS output (2020)

The table above shows the validity test results carried out on the nine statements used in the PADesa variable (Y) with the calculated r-value of each instrument shown in Corrected Item-Total Correlation column. Overall, the calculated r-value is so larger than the r value within the table (0.3061) that the entire statements above can be said as the valid statements.

**3.3 Reliability Test Results**

**Table 6** Reliability Test Results on the Information Technology Utilization Variable

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
,787	,910	7

Source: Processed SPSS output (2020)

The output-table above shows the reliability test results on the Information Technology Utilization variable in the questionnaire instrument used in this research. The reliability test comes about to appear that the Cronbach's Alpha value is 0.787, so the questionnaire instrument used can be said to be reliable because it is more noteworthy than the required imporatnce level of 0.600 and has a very high level of significance as it is in the range of 0.700.

**Table 7.** Reliability Test Results on the Community Participation Variable

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
,800	,952	8

Source: Processed SPSS output (2020)

The output-table above shows the reliability test results on the Community Participation variable in the questionnaire instrument used in this research. The results show that the Cronbach's Alpha value is 0.800, so the questionnaire instrument utilized can be said to be reliable because it is more prominent than the required significance level of 0.600 and has a very high level of significance as it is in the range of 0.700.

**Table 8.** Reliability Test Results on the Human Resource Competency Variable

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.766	.939	13

Source: Processed SPSS output (2020)

The output-table above shows the results of the reliability test on Human Resource Competency variable in the questionnaire instrument used in this research. The results show that the Cronbach's Alpha value is 0.766, so the questionnaire instrument utilized can be said to be reliable because it is more prominent than the required significance level of 0.600 and has a very high level of significance as it is in the range of 0.700.

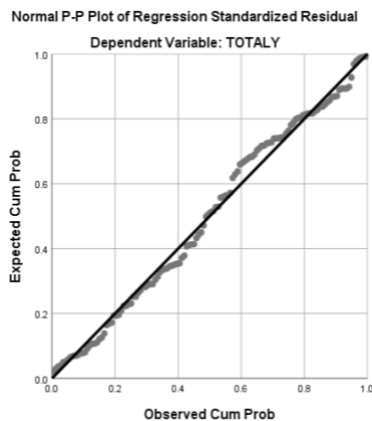
**Table 9.** Reliability Test Results on PADesa Variable

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.780	.894	8

Source: SPSS output processed (2020)

The output-table above appears the comes about the reliability test on the PADesa variable within the questionnaire instrument used in this research. The results show that the Cronbach's Alpha value is 0.780, so the questionnaire instrument utilized can be said to be reliable because it is more prominent than the desired importance level of 0.600 and has a very high level of significance as it is in the range of 0.700.

**3.4 Normality Test Results**



Source: processed SPSS output (2020)

**Figure 1** Normality Test Results

In Figure 1, the dabs spread around the line and take after the corner to corner line, so the leftover value is typical. Hence, the relapse show is appropriate to foresee the village's original income based on the input of the independent variable.

**3.5 Multicollinearity Test Results**

**Table 10.** Multicollinearity Test Results

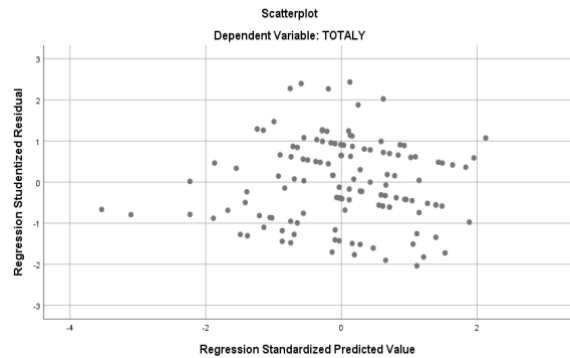
Model		Coefficients <sup>a</sup>					Collinearity Statistics	
		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Tolerance	VIF
		B	Std. Error	Beta				
1	(Constant)	27.434	3.988		6.879	.000		
	TOTALX1	-.324	.119	-.254	-2.723	.007	.837	1.195
	TOTALX2	.214	.093	.202	2.295	.023	.938	1.066
	TOTALX3	.143	.074	.174	1.924	.057	.889	1.125

a. Dependent Variable: TOTALLY

Source: Processed SPSS output (2020)

The table above shows that the resilience value for each variable is more noteworthy than 0.1 and the VIF value is less than 10. Hence, there is no multicollinearity test in this research model.

**3.6 Heteroscedasticity Test Results**



Source: Processed SPSS output (2020)

**Figure 2** Heteroscedasticity Test Results

Figure 2 shows a random form as it does not shape a certain design, so the relapse in this research does not experience heteroscedasticity disorders or in other words the scatterplot does not frame a certain design (spread). This indicates that there is no heteroscedasticity in the relapse design so that the relapse show is feasible to use.

**3.7 Multiple Linear Regression Equation**

**Table 11.** Regression Equation Results

Model		Coefficients <sup>a</sup>					Collinearity Statistics	
		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Tolerance	VIF
		B	Std. Error	Beta				
1	(Constant)	27.434	3.988		6.879	.000		
	TOTALX1	-.324	.119	-.254	-2.723	.007	.837	1.195
	TOTALX2	.214	.093	.202	2.295	.023	.938	1.066
	TOTALX3	.143	.074	.174	1.924	.057	.889	1.125

Source: Processed SPSS output (2020)

Based on the output in table 11 over, the numerous straight relapse condition is written as follows:

$$VOI = \alpha + \beta_1 ITU + \beta_2 CP + \beta_3 CHR + e$$

Information:

- VOI = PADesa
- UIT = Information Technology Utilization in BM
- CP = Community Participation in BM
- CHR = Human Resource Competency in BM
- $\alpha$  = Constant
- $\beta_1 \beta_2 \beta_3$  = Coefficient of regression line
- e = error
- BM = BUMDesa Management

The multiple linear regression equation that can be made based on table 4.13 are:

$$VOI = 27,434 - 0,324UIT + 0,214CP + 0,143CHR + e$$

### 3.8 Determination Coefficient

The determination coefficient ( $R^2$ ) test is carried out to determine how distant the ability of the dependent variable can be clarified by the independent variable. The comes about the determination coefficient ( $R^2$ ) appeared within the taking after table:

**Table 12.** Determination Coefficient Results

Model Summary <sup>b</sup>				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.290 <sup>a</sup>	.084	.062	3.86267
a. Predictors: (Constant), TOTALX3, TOTALX2, TOTALX1				
b. Dependent Variable: TOTALLY				

Source: Processed SPSS output (2020)

Based on the comes about the determination test, it is known that the Adjusted R Square value is 0.062. Thus, the magnitude of the influence exerted by the variables of Information Technology Utilization, Community Participation and Human Resource Competency is 6.2%. Whereas, the remaining of 93.8% which is impacted by other variables is not inspected in this investigate and not mentioned. Thus, the level of the relationship between the independent variable and the dependent variable is weak.

### 3.9. Statistical t-Test

Statistical t-test is utilized to test the impact between the independent variable and the dependent variable and to prove the truth of the hypothesis. The results of the test are explained within the taking after output-table:

**Table 13.** Statistical t-Test Results

Coefficients <sup>a</sup>						
Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.
		B	Std. Error	Beta		
1	(Constant)	27.434	3.988		6.879	.000
	TOTALX1	-.324	.119	-.254	-2.723	.007
	TOTALX2	.214	.093	.202	2.295	.023
	TOTALX3	.143	.074	.174	1.924	.057

a. Dependent Variable: TOTALLY  
Source: Processed SPSS output (2020)

Table 13 shows the significance value of each variable obtained. Information Technology Utilization variable (X1) has the noteworthiness value of 0.007. This importance value is littler than alpha (0.007 < 0.05) so H0 is rejected and accepts Ha. Thus, the results of hypothesis test show that the Information Technology Utilization encompasses a negative and critical impact on PADesa. The variable of Community Participation is 0.023. This significance value is littler than alpha (0.023 < 0.05), so H0 is rejected and accepts Ha. Thus, the result of hypothesis test is that Community Participation has a critical impact on PADesa. Whereas, the Human Resource Competency variable has the importance value more noteworthy than 0.05, i.e. 0.057, which appears that the Human Resource Competency variable has no impact on the PADesa.

### 3.10 Statistical F - Test

Simultaneous test (F Test) is carried out to test the impact of the independent variables together (simultaneously) on changes in the value of the dependent variable. In the simultaneous test, the independent variables are the Information Technology Utilization, Community Participation, and Human Resource Competency. The term used in F test is that in case the calculated F value is more noteworthy than the F value within the table or the likelihood is littler than the noteworthiness level (Sig < 0.05), the inquire about the shiw can be utilized or the demonstrate is doable. Then if the calculated F value is less than the F value within the table or the likelihood is more noteworthy than the significance level (Sig > 0.05), the investigate demonstrate cannot be utilized or the demonstrate is not feasible. The following table shows the test-table results from the regression model between the variables which will be estimated and the inindependent variables.

**Table 14.** Statistical F-Test Results

ANOVA <sup>a</sup>			
Model		F	Sig.
1	Regression	3.854	.011 <sup>*</sup>
	Residual		
	Total		
a. Dependent Variable: TOTALLY			
b. Predictors: (Constant), TOTALX3, TOTALX2, TOTALX1			

Source: Processed SPSS output (2020)

Table 14 identifies that the regression model used produces a noteworthiness value of 0.011. The comes about the hypothesis test provide the evidence that the regression model is feasible in the research. This is adjusted to the decision-making criteria. It shows that Sig 0.000 < alpha value 0.05 so H<sub>0</sub> is rejected and accepts H<sub>a</sub>. Thus, the regression model in the research used is considered feasible. Simultaneously / collectively, the Information Technology Utilization variable, the Community Participation variable, and the Human Resource Competency variable affect the PADesa with a significance value of 0.011.

**4. DISCUSSION**

This research examines the impact of BUMDesa Management in term of Information Technology Utilization, Community Participation, and Human Resource Competency on PADesa in Penukal Abab Lematang Ilir Regency. The discussions for each hypothesis test results in this research are:

1. Variable of Information Technology Utilization variables in BUMDesa Management (X1) has a noteworthiness value of 0.007 is littler than alpha (0.007 < 0.05), so H<sub>0</sub> is rejected and accepts H<sub>1</sub>. The hypothesis test results are that the Information Technology Utilization has a negative critical impact on the PADesa. The use of Information Technology at BUMDesa is still mostly used to help BUMDesa managers manage documents and administrative work aids only. BUMDesa has not yet optimized the benefits of Information Technology as Social Media for online buying and selling of products produced or sold by BUMDesa. However, due to the Covid-19 pandemic, BUM Desa is starting to feel that within the future the utilize of Data Innovation is very much needed and is the spearhead of marketing widely and is not a distance from the introduction of BUMDesa and BUMDesa Products to the general public.
2. Variable of Community Participation in BUMDesa Management has significance value is littler than alpha (0.023 < 0.05), so H<sub>0</sub> is rejected and accepts H<sub>2</sub>. This research is in line with the previously mentioned hypothesis so that the result of hypothesis testing is that Community Participation has a critical impact on PADesa. This implies that the higher the

participation level of the village community in managing BUMDesa, the higher the PADesa. The Community Participation in managing BUMDesa is expected to be better and to be more focused so that the active community will lead to the activity programs and achievements in accordance with the targets that have been previously set.

3. The Human Resource Competency variable in BUMDesa Management has a noteworthiness value more noteworthy than 0.05, i.e. 0.057, so H<sub>0</sub> is acknowledged and H<sub>3</sub> is rejected. It shows that the Human Resource Competency variable partially / individually has no effect on PADesa in Penukal Abab Lematang Ilir Regency. This research is not in line with the previous hypothesis which suspects that there is a positive and noteworthy impact on the Human Resource Competency variable on PADesa.
4. Simultaneously the use of information technology variables, the Community Participation variable, and the Human Resource Competency variable in BUMDesa Management have the effect on the PADesa variable simultaneously in Penukal Abab Lematang Ilir Regency. The effect is significantly positive because the significance level of 0.011 is less than 0.05 or 5% so H<sub>0</sub> is rejected and H<sub>4</sub> is accepted. Thus, overall, the independent variables have a critical impact on the independent variable. The increase of Information Technology Utilization, Community Participation, and maximum human resources competency will increase the PADesa at BUMDesa in Penukal Abab Lematang Ilir Regency. It is also additionally backed by the comes of the determination test that has Adjusted R Square value is 0.062, which implies that the magnitude of the inmpact given by the Information Technology Utilization, Community Participation, and Human Resource Competency variable on the PADesa varibale in Penukal Abab Lematang Ilir Regency is 0.062 or 6.2%. While the remaining of 93.8% which is affected by other components is not inspected in this research and not mentioned.

**5. CONCLUSION**

Partially the Utilization of Information Technology in BUMDesa Management has a negative and critical impact on PADesa, Community Participation in BUMDesa Management has positive and critical impact on PADesa, while Human Resource Competency in BUMDesa Management has no effect on PADesa. Simultaneously the Utilization of Information Technology, Community Participation, and Human Resource Competency in BUMDesa Management has a positive and critical impact on PADesa.

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