ISBN :

2020 4th INTERNATIONAL CONFERENCE

FIRST

FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY (FIRST)

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 :

Politeknik Negeri Sriwijaya

Tut Wuri Handayani

Collaborate With :

msu management & science university

JGU Jakarta Global University

ORGANIZING COMMITTEE

International Advisory Committee
Prof. Erry Yulian Triblas Adesta, International Islamic University, Malaysia
Prof. Yasushi Kiyoki, Keio University, Japan
Assoc. Prof. Dr. Augustus E. Osseo-Asare University of Sunderland, United Kingdom
Prof. Eddy Yusuf, Ph.D., Management Science University, Malaysia
Prof. Win-jet Luo, Ph.D., National Chin-Yi University of Technology, Taiwan
Yu-Lieh Wu, Ph.D., National Chin-Yi University of Technology, Taiwan
Prof. Chiaki Ogino, Kobe University, Japan
Wahyu Caesarendra, S.T., M.Eng., Ph.D., University of Brunei Darussalam, Brunei
Prof. Yuliansyah, M.S.A., Ph.D., Ak., CA., University of Lampung, Indonesia
Dr. Muhammad Haikal Satria, IPM, Jakarta Global University, Indonesia
Assoc. Prof. Dr. Mohammed N Adurazaq, Management and Science University (MSU), Malaysia

Steering Committee
Dr. Ing. Ahmad Taqwa, M.T, Politeknik Negeri Sriwijaya, Indonesia
Dr. RD. Kusumanto, MM, Politeknik Negeri Sriwijaya, Indonesia
Prof. Dr. Ir. Siti Nurmaini, Universitas Sriwijaya, Indonesia
Prof Aldes Lesbani S.Si,M.Si,Ph.D, Universitas Sriwijaya, Indonesia
Yu-Lieh Wu, Ph.D., National Chin-Yi University of Technology, Taiwan
Dr. Zulhadi Zakaria, Politeknik Seberang Perai, Malaysia
Dr.Ir.Rusdianasari, M.Si, Politeknik Negeri Sriwijaya, Indonesia
Asst. Prof. Dr. Dodik Siswantoro, S.E., M.Sc. Acc., Universitas Indonesia
Irsyadi Yani, ST., M.Eng. PhD, Universitas Sriwijaya, Indonesia
Dr. Gancar Candra Premananto SE., M.Si., Universitas Airlangga
Dr. Yohandri Bow, M.Si, Politeknik Negeri Sriwijaya, Indonesia
Dr. Yuli Yetri, M.Si, Politeknik Negeri Padang
Dr. Marieska Verawaty, M.Si., Universitas Sriwijaya, Indonesia
Dr. Eng. Tresna Dewi, M.Eng., Politeknik Negeri Sriwijaya, Indonesia
Dr. Maya Fitri Oktarini S.T., M.T., Universitas Sriwijaya, Indonesia
Ir. Indra Chandra Setiawan, M.T., PT. Toyota Motor Manufacturing, Indonesia

General Chair
Dr.Rita Martini, SE.,M.Si.,Ak.,CA, Politeknik Negeri Sriwijaya, Indonesia

General co-Chairs
Dr. Ade Silvia Handayani, S.T, M.T., Politeknik Negeri Sriwijaya, Indonesia
Carlos R. Sitompul, S.T.,M.T., Politeknik Negeri Sriwijaya, Indonesia
Ir. Jaksen M. Amin, M.Si, Politeknik Negeri Sriwijaya, Indonesia

Publication Chairs
Dr. Nyayu Latifah Husni, S.T., M.T, Politeknik Negeri Sriwijaya, Indonesia
Deris Stiawan, M,Kom, PhD., Universitas Sriwijaya, Indonesia
Dr. Martha Aznury, M.Si., Politeknik Negeri Sriwijaya, Indonesia

Technical Program Chairs
Fatahul Arifin, ST., Dipl Eng. EPD., M.EngSc, PhD, Politeknik Negeri Sriwijaya, Indonesia
Dr. Herlambang Saputra, S.Pd., M.Kom., Politeknik Negeri Sriwijaya, Indonesia

Finance Chairs & Treasurer
Dr. Marieska Lupikawati, S.E., M.M, Politeknik Negeri Sriwijaya, Indonesia

Public Relation Chairs
Nelly Masnila, S.E, M.Si, Ak, Politeknik Negeri Sriwijaya, Indonesia
Ahmad Zamheri, S.T, M.T, Politeknik Negeri Sriwijaya, Indonesia
Drs Zakaria MPd., Politeknik Negeri Sriwijaya, Indonesia
Desloehal Djumrianti, S.E., MIS., PhD, Politeknik Negeri Sriwijaya, Indonesia
Leni Novianti, M.Kom., Politeknik Negeri Sriwijaya, Indonesia
M. Miftahul Amin, S.Kom., M.Eng., Politeknik Negeri Sriwijaya, Indonesia
Dr. Ir. Abu Hasan, M.Si., Politeknik Negeri Sriwijaya, Indonesia
Ir. Irawan Rusnadi, M.T. , Politeknik Negeri Sriwijaya, Indonesia
Dr. Indrayani, ST., M.T. , Politeknik Negeri Sriwijaya, Indonesia
Dra. Tiur Simanjuntak, M.Ed.M, Politeknik Negeri Sriwijaya, Indonesia
Sukandar S.Si.,M.T,Ph.D., Institut Teknologi Bandung, Indonesia
Dr. GK Marriappen, Politeknik Seberang Perai, Malaysia
Ir. Irwin Bizzy, M.T., Universitas Sriwijaya, Indonesia
Dr. Sari Lestari Zainal Ridho, SE., M.Ec, Politeknik Negeri Sriwijaya, Indonesia
Dr. Ir.Leila Kalsum, M.T, Politeknik Negeri Sriwijaya, Indonesia
Dr. Leily Nurul Komariah, S.T., M.T., Universitas Sriwijaya, Indonesia
Dr, Rosmalinda Permatasari ST MT, Universitas Tridinanti Palembang, Indonesia
Erliza Yuniarti, S.T., M.Eng, Universitas Muhammadiyah Palembang, Indonesia
Firdaus, S.T., M.Kom., Universitas Sriwijaya, Indonesia
Ervi Cofriyanti, S.Si, M.T.I, Politeknik Negeri Sriwijaya, Indonesia
Lindawati, ST., M.Ti., Politeknik Negeri Sriwijaya, Indonesia
Yogi Eka Fernandes, S.Pd., M.T., Politeknik Negeri Sriwijaya, Indonesia
Ozkar Firdausi Homzah, S.T., M.T., Politeknik Negeri Sriwijaya, Indonesia

Table of Content

FOREWORD FROM GENERAL CHAIR 4th FIRST 2020 INTERNATIONAL CONFERENCE 2
FOREWORD FROM DIRECTOR OF STATE POLYTECHNIC OF SRIWIJAYA 4
ORGANIZING COMMITTEE 5
KEYNOTE SPEAKER 7
Prof. Dr. Chiaki Ogino 7
KEYNOTE SPEAKER 8
Wahyu Caesarendra, PhD 8
KEYNOTE SPEAKER 9
Prof. Yuliansyah, M.S.A., Ph.D, Akt, CA 9
KEYNOTE SPEAKER 10
Dr. H. Dodi Reza Alex Lic, Econ, MBA 10
KEYNOTE SPEAKER 11
Dr. Muhammad Haikal Satria, IPM 11
KEYNOTE SPEAKER 12
Assoc. Prof. Dr. Mohammed N. Abdulrazaq Alshekhly 12
RUNDOWN 13
The 4th FIRST 2020 INTERNATIONAL CONFERENCE 13
(FORUM IN RESEARCH SCIENCE AND TECHNOLOGY) 13
SNAPTEKMAS (Seminar Nasional Aplikasi Teknologi pada Masyarakat) 2020 13
RUNDOWN 16
TRACK 1 16
(Engineering and Science) 16
RUNDOWN 19
TRACK 1 19
(Engineering and Science) 19
RUNDOWN 22
TRACK 1 22
(Engineering and Science) 22
RUNDOWN 26
TRACK 2 26
(Computer Science, , Computer Engineering, Information System, Informatics Management) 26
RUNDOWN 30
TRACK 2 30
(Computer Science, , Computer Engineering, Information System, Informatics Management) 30

RUNDOWN 33
TRACK 3 (Social Science) 33
RUNDOWN 36
TRACK 3 (Social Science) 36
CHARACTERIZATION OF BLENDING COMPOSITION VARIATIONS IN FATTY ACID METHYL ESTER (FAME) BIOFUELS WITH DIESEL TO BIODIESEL 51
ID : 2079 51
Yusabri[1,2,] Muhammad Yerizam[3], Aida Syarif[4] 51
[1] Applied Master of Renewable Energy Engineering, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia 51
[2]Crude Distillation and Gas Plant Production, PT. Pertamina (Persero) Refinery Unit III, Jalan Beringin, Kompleks Pertamina Refinery Unit III Plaju, Palembang, 30268 Indonesia. 51
[3] Chemical Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia 51
[4] Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia. 51
PROCESSING PLASTIC WASTE HDPE AND PP ON PYROLYSIS TEMPERATURE USING CU-AL2O3 CATALYST INTO AN ALTERNATIVE LIQUID FUEL 52
ID : 2082 52
Pamilia Coniwanti1, Fitri Hadiah1, David Bahrin1, Liza Novriani1, Gracia Mei Lie Justina1, Robinsyah1 52
1Chemical Engineering Department, Sriwijaya of University, Jl. Raya Palembang-Prabumulih KM. 32, Inderalaya, Ogan Ilir 30662, Indonesia 52
THE PURIFICATION OF BIOGAS WITH MONOETHANOLAMINE (MEA) SOLUTION BASED ON THE BIOGAS FLOW RATE 53
Id : 2749 53
Yohandri Bow[1], Leila Kalsum[2], Abu Hasan[2], A. Husaini[3], Rusdianasari[2] 53
[1]Energy Engineering Department, Politeknik Negeri Sriwijaya, Palembang, 30139 Indonesia 53
[2]Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan 53
Srijaya Negara, Palembang, 30139 Indonesia 53
[3]Chemical Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya, ... 53
Negara, Palembang, 30139 Indonesia. 53
FILTRATION AND ELECTROCOAGULATION AS A COMBINED PROCESS FOR ELECTROPLATING WASTEWATER 54
ID : 2758 54
Rusdianasari1,* Yohandri Bow2, Adi Syakdani3, Muhammad Taufik3 54
1 Renewable Energy Engineering Department, PoliteknikNegeri Sriwijaya, Palembang, Indonesia 54

2 Energy Engineering Departmen, Politeknik Negeri Sriwijaya, Palembang, Indonesia .. 54

3Chemical Engineering Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia 54

STUDY OF TEMPERATURE AND USE OF CATALYSTS IN THE PYROLYSIS OF LDPE PLASTIC WASTE ON THE QUANTITY OF OIL FUEL PRODUCTS PRODUCED 55

ID : 2415 55

Novarini[1], Sigit Kurniawan[2], Rusdianasari[3], Yohandri Bow[4] 55

[1] Mechanical Engineering Department, Politeknik Jambi, Jambi, Indonesia 55

[2] Electronic Engineering Department, Politeknik Jambi, Jambi, Indonesia 55

[3] Chemical Engineering Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia 55

[4] Energy Engineering Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia . 55

TITANIUM DIOXIDE SOAKING TIME EFFECTS ON DSSC POWERS AND EFFICIENCY 56

ID : 2077 56

Rika Musiana1, Abu Hasan2, RD Kusumanto3 56

[1]Applied Renewable Energy Engineering Study Program, Politeknik Negeri Sriwijaya,... 56

Jalan Srijaya Negara, Palembang, 30139 Indonesia. 56

[2]Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan 56

Srijaya Negara, Palembang, 30139 Indonesia. [3]Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan 56

Srijaya Negara, Palembang, 30139 Indonesia. 56

EFFECT OF FEED COMPOSITION AND PRODUCT QUANTITY OF CO-PROCESSING REFINED BLEACHED DEODORIZED PALM OIL (RBDPO) 57

Id : 2086 57

Juarsa[12], Aida Syarif[3], Leila Kalsum[3] 57

[1] Applied Master of Renewable Energy Engineering, Politeknik Negeri Sriwijaya, ... 57

Jalan Srijaya Negara, Bukit Besar, Palembang, 30139, Indonesia 57

[2] Crude Distillation and Light End Production, Pertamina Ltd. (Persero) Refinery Unit III, Beringin Road, Complex of Pertamina Refinery Unit III Plaju, Palembang, 30268 Indonesia 57

[3] Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, ... 57

Jalan Srijaya Negara, Bukit Besar, Palembang, 30139, Indonesia 57

TOFU INDUSTRIAL LIQUID WASTE TREATMENT BY ELECTROCOAGULATION METHOD 58

ID : 2748 58

Ibnu Hajar[1,*] Fadarina[1,] Mustain Zamhari[1,] Selastia Yuliati[1] 58

[3]Chemical Engineering Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia 58

EFFECT OF TEMPERATURE ON BIOFUELS PRODUCTION WITH CATALYTIC CRACKING PROCESS 59

ID : 2626 59

KA Ridwan[1,2], Anerasari M[1], Taufik Jauhari[1], Ida Febriana[1] 59

[1]Chemical Engineering Department, State Polytechnic of Sriwijaya, South Sumatra, Indonesia........ 59

EFFECT OF BENTONITE ON THE YIELD AND COMPOSITION OF PRODUCTS FROM THERMOLYSIS OF POLYSTYRENE WASTE 60

ID : 2573 60

Lety Trisnaliani[1a], Aida Syarif[1], Sahrul Effendy[1], Tahdid[1], Rima Daniar[1] 60

[1]Energy Department, Politeknik Negeri Sriwijaya 60

PRODUCTION OF BIO-PELET BRIQUETTES FROM COCONUT SHELL WASTE AS ALTERNATIVE ENERGY FOR HOUSEHOLD SCALE 61

ID : 2665 61

Muhammad Yerizam*1, Muhammad Zaman 1, Taufiq Jauhari1 , Nur Yuli 1, Riwen Setiawan1 , Umaidella Affrilla1........ 61

1Jurusan Teknik Kimia,Politeknik Negeri Sriwijaya Jl. Srijaya Negara, Bukit Besar, Palembang 30139, Indonesia........ 61

CATALYTIC PYROLYSIS OF STYROFOAM WASTE USING ZEOLITE CATALYST TO PRODUCE LIQUID FUEL 62

ID : 2707 62

Zurohaina[1*], Irawan Rusnadi, Fatria, Arizal Aswan, Rima Daniar 62

[1] Department of Chemical Engineering, Polytechnic of Sriwijaya, Palembang, Indonesia 62

PRODUCTION OF GREEN DIESEL FROM CRUDE PALM OIL (CPO) THROUGH HYDROTREATING PROCESS BY USING ZEOLITE CATALYST........ 63

ID : 2715 63

Ahmad Zikri*, Indah Puspita, Erlinawati, Sutini PL, Agus M Elbi Zalita P, Andre Krismantoro 63

Energy Engineering, Chemical Engineering Department, State Polytechnic of Sriwijaya 63

Jl. Srijaya Negara Bukit Besar Palembang 30139, Telp +62711353414 / fax +62711355918........ 63

EFFECT OF ADDING PALM OIL MILL EFFLUENT (POME) AND SLURRY ON BIOGAS FROM COW MANURE TO PRODUCED METHANE GAS 64

ID : 2723 64

Muhammad Hanif Fatin[1],* A. Husaini[2], Leila Kalsum[3] 64

[1] Applied Renewable Energy Engineering Study Program, Politeknik Negeri Sriwijaya, Jalan Srijaya Negera, Palembang, 30139 Indonesia........ 64

[2]Chemical Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia........ 64

[3] Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia. 64

CHARACTERIZATION OF THERMAL ACTIVATED FLY ASHADSORBENT BY STUDYING THE EFFECT OF TEMPERATURE 65

ID : 2796 65
Aida Syarif[1], Rusdianasari, M.Yerizam,Sayhirmanyusi, ... 65
[1]Jurusan Teknik Kimia Program Studi Magister Terapan Teknik Energi Baru Terbarukan 65
Politeknik Negeri Sriwijaya, Jalan Srijaya Negara Bukit Besar Palembang 65
DRYING RATE OF SKIM MILK FROM VIRGIN COCONUT OIL REMAINING WATER 66
ID : 2516 66
A Hasan[1], I Purnamasari[1,2] , M Yerizam[1], A Hasan[1] and R Junaidi[1] 66
[1]Chemical Engineering Department, State Polytechnic of Sriwijaya, South Sumatera, Indonesia.. 66
TOFU INDUSTRIAL WASTEWATER TREATMENT BY ELECTROCOAGULATION METHOD 67
ID : 2656 67
Ibnu Hajar[1],[*] Fadarina[1], Mustain Zamhari[1], Selastia Yuliati[1] 67
[3]Chemical Engineering Department 67
BIOCELLULOSE MEMBRANE OF COCONUT WATER... 68
ID : 2792 68
Elina Margaretty[1], Erwana Dewi[2], Leila Kalsum[3], Aisyah Suci Ningsih[1]......................... 68
[1)]. Lecturer D3-Chemical Engineering Sriwijaya State Polytechnic, Palembang, Indonesia 68
[2)].Lecturer D4- Industrial Chemical Technology, Sriwijaya State Polytechnic, Palembang, Indonesia.. 68
[3)]. Lecturer S2- Renewable Energy Engineering, Sriwijaya State Polytechnic, Palembang, Indonesia.. 68
SURFACTANT METHYL ESTER SULFONATE FROM CRUDE PALM OIL (CPO)- BASED METHYL ESTER.. 69
ID : 2794 69
Jaksen[1], Idha Silviyati[1], Endang Supraptiah[1], Rima Daniar[2]....................................... 69
[1)].Lecturer of Chemical Engineering Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia.. 69
[2)].Lecturee of Energy Engineering Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia.. 69
OIL PALM EMPTY BUNCHES AS AN ALTERNATIVE RAW MATERIAL FOR MAKING BIOPLASTICS 70
ID : 2250 70
Husaini A[1], Zaman M[1], Chodijah S[1], Hilwatullisan[1], Ibrahim [2] 70
[1]Chemical engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia.. 70
[2]Chemical engineering Study Program, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia.. 70
Corresponding author E-mail address :husaini@polsri.ac.id 70

THE EFFECT OF THE CATALYST (NaOH) ON THE PROCESSING OF WASTE USED OIL INTO LIQUID FUEL 71
ID : 2511 71
Azharuddin[1], Syafei[1], Didi Suryana[1], Indra HB[1], M R Rahmaddy[1] 71
Y Pratomo[1], M A Ariasya[1] 71
[1)] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Palembang, 30154, Indonesia........ 71
DESIGN AND PROTOTYPE OF PAVING BLOCK MAKING MACHINE 72
ID : 2766 72
Ella Sundari[1], Soegeng Witjahjo [1], Eka Satria Martomi[1], Dodi Tafrant[1]........ 72
Lecturer of Mechanical Engineering Departement, Sriwijaya State Polytechnic 72
[*]Jln. Srijayanegara Bukit Lama, Palembang. 72
WATER QUALITY MONITORING SYSTEM IN GURAME FISH CULTIVATION BASED ON ESP32 73
ID : 2094 73
Sujito[1], Mokh. Sholihul Hadi[1] ,I Made Wirawan[1], Faiz Syaikhoni[2], Abdullah Iskandar Syah[2], ... 73
Danny Mayrawan[2]........ 73
[1] Dosen Jurusan Teknik Elektro, Fakultas Teknik, Universitas Negeri Malang 73
[2] Mahasiswa Jurusan Teknik Elektro, Fakultas Teknik, Universitas Negeri Malang........ 73
OPTIMIZATION OF STROKE REHABILITATION HAND COMPONENT OF 3D PRINTING WITH TAGUCHI METHOD APPROACH........ 74
ID : 2426 74
Fatahul Arifin[1], Fenoria Putri[1], Iskandar[1], Mulyadi[1], Suparjo[1], Franando[1], Yusuf Dewantoro Herlambang[2(*)] 74
[1]Mechanical Engineering Department, Politeknik Negeri Sriwijaya, Palembang, 30154, Indonesia........ 74
[2]Mechanical Engineering Department, Politeknik Negeri Semarang, Semarang, 50275, Indonesia........ 74
EXPERIMENTAL RESEARCH OF THE INFLUENCE OF HOT MACHINING METHOD ON AISI 4340 LATHE MACHINE PROCESS TOWARDS SPECIFIC CUTTING ENERGY AND SURFACE ROUGHNESS........ 75
ID : 2457 75
Ismail T[1], Dyos S[2], Joni Y[3], Samuel S[4],Abdurahman W[5], Aldi Y[6]........ 75
[123456]Mechanical Engineering, Engineering Faculty of Sriwijaya University,........ 75
Jln Raya Palembang - Inderalaya Km 32, Indonesia........ 75
STUDY OF CAPACITOR PLACEMENT TO IMPROVE THE VOLTAGE PROFILE IN CONTINGENCY CONDITIONS OF THE 150 KV MADURA ELECTRICITY POWER SYSTEM 76
ID : 2487 76
Sujito [1*], M. Z. Falah[1], M. R. Faiz[1]........ 76

[1] Electrical Engineering Department, Universitas Negeri Malang, Indonesia 76

THE INVESTIGATION OF SEA SALT SOILING ON PV PANEL 77

ID : 2488 77

Tresna Dewi[1], Ahmad Taqwa[2], Rusdianasari[2], RD Kusumanto[1], and Carlos Sitompul[1] ... 77

[1]Electrical Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia... 77

[2]Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan 77

Srijaya Negara, Palembang, 30139 Indonesia.. 77

REAL-TIME WIRELESS CONCEPT OF VEHICLE TO VEHICLE CHARGING SYSTEM................ 78

ID: 2490 78

Yurni Oktarina[1], Tresna Dewi[1], Pola Risma[1], and Muhammad Nawawi[1] 78

[1]Electrical Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara Palembang, Indonesia 30139... 78

OPTIMIZATION OF FDM 3D PRINTING PROCESS PARAMETER FOR IMPROVING POROSITY ACCURACY OF PLA SCAFFOLD... 79

ID : 2522 79

Zainal Abidin [1], M. Yanis [1], M. Zahri Kadir [1], Astuti [1], Akbar Teguh Prakoso[1], Edo Syahrizal[1], Ardiyansyah Syahrom[2,3], Hasan Basri[1,*].. 79

Department of Mechanical Engineering, Faculty of Engineering, Universitas Sriwijaya, Indralaya 30662, Ogan Ilir, South Sumatera, Indonesia 79

Department of Applied Mechanics and Design, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai 81310, Johor, Malaysia 79

Medical Device and Technology Center (Meditec), Institute of Human-Centered and Engineering (IHCE), Universiti Teknologi Malaysia, Skudai 81310, Johor, Malaysia....... 79

FATIGUE PREDICTION OF POROUS MAGNESIUM BONE SCAFFOLD USING FINITE ELEMENT METHOD 80

ID: 2527 80

Risky Utama Putra[1], Akbar Teguh Prakoso[1], Amir Putra Md Saad[2,3], Ardiyansyah Syahrom[2,3], Hasan Basri[1,*] 80

Mechanical Engineering Master Study Program, Faculty of Engineering, Universitas Sriwijaya, Indralaya 30662, Ogan Ilir, South Sumatera, Indonesia 80

Department of Applied Mechanics and Design, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai 81310, Johor, Malaysia 80

Medical Device and Technology Center (Meditec), Institute of Human-Centered and Engineering (IHCE), Universiti Teknologi Malaysia, Skudai 81310, Johor, Malaysia....... 80

THE GROUNDING SYSTEM IN FEEDER TOMAT PT. PLN (PERSERO) ULP MARIANA 81

ID : 2763 81

Bambang Guntoro, Siswandi, Zainuddin Idris, M. Yunus 81

Email : bguntoro57@gmail.com 81

OPTIMIZATION OF PRODUCTION PROCESS PARAMETERS OF DLP TYPE 3D PRINTER DESIGN

FOR PRODUCT ROUGHNESS VALUE 82
ID : 2510 82
DP Putra[1], Romli[2], D Seprianto[2], Hasan Basri[1,*] 82
[1] Mechanical Engineering Master Study Program, Universitas Sriwijaya 82
Jalan Srijaya Negara Bukit Besar Palembang, Sumatera Selatan, 30139, Indonesia 82
[2] Mechanical Engineering Department, Politeknik Negeri Sriwijaya 82
Jalan Srijaya Negara Bukit Besar Palembang, Sumatera Selatan, 30139, Indonesia 82
DESIGN OF ELECTRONIC INSTRUMENTS AS TOOLS AIR POLLUTION DETECTION 83
ID : 2592 83
Ali Nurdin[1](**ali_viking_kps@yahoo.com**. aalinurdin67@gmail.com), Jon Endri, ... 83
Ibnu Ziad[3], Ciksadan[4] 83
[1,2,3,4] Politeknik Negeri Sriwijaya 83
Jl. Srijaya Negara Bukit Besar – Palembang 83
Datalogger experimental analysis based on arduino mega 2560 on a 100 wp monocrystalline solar panel using perforated plate 84
ID : 2249 84
W Adipradana[1], A Sofijan[2], Rahmawati[3], I Bizzy[4], R Sipahutar[5], M A Fajri[6] 84
[1,2,3,6] Department of Electrical Engineering, Engineering Faculty, Sriwijaya University, Indonesia 84
[4,5] Department of Mechanical Engineering, Engineering Faculty, Sriwijaya University, Indonesia 84
A_sofijan@ft.unsri.ac.id 84
THE EFFECT OF INDUCTION HEATING ON TENSILE TEST SPECIMENS' CLAMPING PRODUCTS THROUGH THE MEDIUM CARBON STEEL MATERIALS' ENGINEERING TECHNIQUE 85
ID : 2722 85
Romli[1,*], M. Afif Rizkiawan[1], Karmin[1], Sairul Effendi[1], Firdaus[1] 85
[1] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia 85
DEVELOPMENT INTERNET OF THINGS FOR WATER QUALITY MONITORING SYSTEM FOR GOURAMY CULTIVATION 86
ID: 2484 86
D Mayrawan[2] , Sujito [1,2*] , I M Wirawan [2], F S Aziz [1,2] , A I Syah[2], M A A Shidiqi[2] 86
[1] Electrical Engineering Postgraduate, Universitas Negeri Malang, Indonesia 86
[2] Electrical Engineering Department, Universitas Negeri Malang, Indonesia 86
CONTINGENCY ANALYSIS ON 150 KV ELECTRICITY POWER SYSTEM ON THE MADURA ISLAND BASED ON THE 1P1Q METHOD 87
ID : 2485 87
M Z Falah [1], Sujito [1*], I M Wirawan[1] 87
[1] Electrical Engineering Department, Universitas Negeri Malang, Indonesia 87
PROTOTYPE OF SMALL SAVONIUS WIND TURBINE 88

ID : 2797 88
Ozkar F. Homzah[1,*] Tri Widagdo[1] Mardiana[1] Ibnu Asrofi[1] Destra A Pratama[2] 88
[1]Department of Mechanical Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia... 88
[2]Department of Electrical Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia 88
THE FORMATION OF MACHINE COMPONENTS USING POWDER METALLURGY METHOD UTILIZING METAL POWDER FROM GRINDING PROCESS 89
ID : 2780 89
Yahya, S.T.,M.T [1], Muhammad Rasid, S.T.,M.T [2],... 89
Dicky Seprianto, S.T.,M.T.[3], Sipроni, S.T.,M.T.[4].. 89
Departement of Mecahanical Engineering, Politeknik Of Sriwijaya, Palembang, Indonesia 89
SIMULATION-BASED ANALYSIS ON VACUUM ACTUATED SOFT ROBOTIC GRIPPER: TRAJECTORY AND STRESS INTENSITY FACTOR 90
ID :2736 90
Noer Fadzri Perdana Dinata[1], Hasan Basri[1,*] 90
[1]Mechanical Engineering Master Study Program, Universitas Sriwijaya, Jalan Srijaya Negara Bukit Besar Palembang, Sumatera Selatan, 30139, Indonesia......................... 90
[*]Corresponding author. Email: hasan_basri@unsri.ac.id 90
FAILURE ANALYSIS AND PERFORMANCE ASSESSMENT OF TUBULAR AIR HEATER AT PLTU SOUTH SUMATRA V 91
ID : 2731 91
Lulu Khoirunnisa[1], Hasan Basri[2,*].. 91
[1]Mechanical Engineering Master Study Program, Universitas Sriwijaya........................ 91
Jalan Srijaya Negara Bukit Besar Palembang, Sumatera Selatan, 30139, Indonesia 91
AUTOMATIC SIMULATION OF MOVING PRODUCTS USING LINE FOLLOWER AND CONVEYOR 92
ID : 2787 92
Almadora Anwar Sani[1],[*] Rachmat Dwi S [2], Irawan Malik[3], Ali Medi[4], Agus Nugraha[5]..... 92
[1] mechanical engineering, Politeknik Negeri Sriwijaya, ... 92
[2] mechanical engineering, Politeknik Negeri Sriwijaya 92
[3] mechanical engineering, Politeknik Negeri Sriwijaya 92
[4] mechanical engineering, Politeknik Negeri Sriwijaya 92
[5] mechanical engineering, Politeknik Negeri Sriwijaya 92
MONITORING DEPTH OF DISCHARGE OF A VALVE REGULATED LEAD ACID BATTERY IN A STANDALONE PV SYSTEM.. 93
ID : 2751 93
Mirdiansyah[1],* Ahmad Taqwa[2], Yohandri Bow[3]... 93

[1] Applied Renewable Energy Engineering Study Program, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia 93

[2] Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia 93

[3]Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia 93

The Effect of Parameter Process 3D Printer Technology Digital Light Processing to Geometric of Shaft 94

ID : 2650 94

A Zamheri[1,*] D Seprianto[2], Carlos RS[3], Indri A[4], TC Persada[5] 94

[1] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia 94

[2] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia 94

[3] Electrical Engineering Department, State Polytechnic of Sriwijaya, Indonesia 94

[4] Informatics Management Department,, State Polytechnic of Sriwijaya, Indonesia 94

[5] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia 94

BENDING TEST GALVALUM COLD FORMED STEEL BEAM WITH VARIATION MORTAR AND REINFORCEMENT BARS. 95

ID : 2073 95

Fadhila Firdausa, Sri Rezki Artini, Ahmad Syapawi, Puryanto 95

Civil Engineering Polytechnic of Sriwijaya 95

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) 95

ID : 2089 95

Pataras M[1], Kadarsa E[2], Permata D Y[3], Khairunnisa S[4], Akbar M A[5], Pratama Y[6] 96

[1]Civil Engineering Department, Sriwijaya University, Raya Prabumulih Road, Indralaya, Sumatera Selatan 96

[2]Civil Engineering Department, Sriwijaya University, Raya Prabumulih Road, Indralaya, Sumatera Selatan 96

[3]Civil Engineering Department, Sriwijaya University, Raya Prabumulih Road, Indralaya, Sumatera Selatan 96

UTILIZATION OF RESIDUAL SAND MATERIALS FROM THE MINING OF KAOLIN AND TIN IN BANGKA ISLAND ON FLEXIBLE PAVEMENT STRUCTURE 97

ID : 2101 97

Adhitya B B[1], Pataras M[2], Kurnia A Y[3], Wiranda N[4], Wulansari W[5], Islami B M[6] 97

[1]Civil Engineering Department, Sriwijaya University, Indralaya, Sumatera Selatan 97

[2]Civil Engineering Department, Sriwijaya University, Indralaya, Sumatera Selatan 97

[3]Civil Engineering Department, Sriwijaya University, Indralaya, Sumatera Selatan 97

THE INFLUENCE OF ANADARA GRANOSA'S SHELL WASTE AS A SUBSTITUTE OF FINE AGGREGATE IN MIXED ASPHALT CONCRETE WEARING COURSE (AC-WC) 98

ID : 2218 98
Ika Sulianti[1], Ibrahim[1], Indah Ayu Wiloka[1], Reta Iftitah Sari[1] 98
[1.] State Polytechnic of Sriwijaya, Jl. Srijaya Negara Bukit Besar Palembang 30139, ... 98
South Sumatera – Indonesia 98
ANALYSIS OF THE IMPACT OF PALEMBANG- INDRALAYA (PALINDRA) TOLL ROAD TO PALEMBANG – INDRALAYA NATIONAL ROAD SERVICE LEVELS 99
ID : 2236 99
S Nisumanti*, N Puspita, and S Mulyaningsih, ... 99
Civil Engineering Department, Universitas Indo Global Mandiri, Jalan Jend. Sudirman KM.4 No.629 Palembang, Indonesia 99
THE EFFECT OF FLY ASH AS A PART CEMENT INSTITUTION ON HIGH-QUALITY CONCRETE FC'35 100
ID: 2402 100
Sazili Harnawansyah[1], Herlinawati1[(*)], Bastoni Hasasi[1], Radius Pranoto[1] 100
[1] Civil Engineering Department, Sriwijaya State Polytechnic, Palembang, 30154, Indonesia 100
THE USE OF COLD-FORMED STEEL AS A SUBSTITUTE FOR REINFORCEMENT ON STRUCTURAL OF LIGHTWEIGHT CONCRETE BEAMS 101
ID : 2553 101
Mahmuda[1], Revias[2], Siswa Indra[3], Sumiati[4] 101
Civil Engineering Departement, State Polytechnic Sriwijaya, Srijaya Negara street, Bukit Besar Palembang, 30139, Indonesia 101
THE EFFECT OF AIR PRESSURE ON FOAMED MORTAR PRODUCTION 102
ID : 2724 102
Ibrahim[1], Amiruddin[1], and Ika Sulianti[1], and Agus Subrianto[1] 102
[1.] State Polytechnic of Sriwijaya, Jl. Srijaya Negara Bukit Besar Palembang 30139, ... 102
South Sumatera – Indonesia 102
THE CHARACTERISTICS OF FOLDING BICYCLE USERS AGAINST THE SELECTION OF TRANSPORTATION MODES IN PALEMBANG CITY 103
ID : 2767 103
Efrilia Rahmadona[1], Sudarmadji[2], Norca Praditya[3], M. Ade Surya Pratama[4] 103
[1]Politeknik Negeri Sriwijaya 103
[2]Politeknik Negeri Sriwijaya 103
[3]Politeknik Negeri Sriwijaya 103
[4]Politeknik Negeri Sriwijaya 103
EFFECT OF AMOUNT POTASSIUM HYDROXIDE, METHANOL, AND ELECTRICITY CURRENT ON THE PRODUCTION PROCESS OF METHYL ESTERS FROM USED FRYING OIL 104
ID : 2081 104
Rosdiana Moeksin 104

Teknik Kimia, Universitas Sriwijaya Palembang-Indonesia. 104

OPTIMIZATION OF PUBLIC TRASPORT SERVICEBUS RAPID TRANSIT (BRT) TRANS MUSI IN THE CITY OFPALEMBANG 105

ID : 2611 105

Moch.Absor,Yusri, A.Latif, A. Fuad Z.Muhammad Yusri R.Civil Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia 105

absorputrasyam@gmail.com, yusribermawi18@gmail.com,Latiftamim56@yahoo.com,fuadzainin13@yahoo.com, muhammadyusririzki@gmail.com 105

LIFE CYCLE ASSESSMENT (LCA) IN PULP & PAPER MILLS: COMPARISON BETWEEN MFO WITH BIOMASS IN LIME KILN 106

ID : 2109 106

Yonki Alexander Volta[1], Rusdianasari[2], Syahirman Yusi[3] 106

[1]Applied Renewable Energy Engineering Study Program, Politeknik Negeri Sriwijaya,. 106

Jalan Srijaya Negara, Palembang, 30139 Indonesia. 106

[2] Renewable Energy Engineering Department, Politeknik Negeri Sriwijaya, Jalan Srijaya Negara, Palembang, 30139 Indonesia. 106

[3] Business Administration Department, Politeknik Negeri Sriwijaya, Jalan 106

Srijaya Negara, Palembang, 30139 Indonesia.. 106

EFFECT OF VARIATIONS CONCENTRATION AND PH OF LIQUID SMOKE IN THE IMMERSION WITH VARIOUS TYPES OF FISH 107

ID : 2120 107

by 107

Farida Ali, Corresponding author, Lecturer, Faculty of Chemical Engineering, Universitas Sriwijaya.. 107

Lia Cundari, Lecturer, Faculty of Chemical Engineering, Universitas Sriwijaya............ 107

Siti Miskah, Lecturer, Faculty of Chemical Engineering, Universitas Sriwijaya............. 107

Hendri Prasetyo, Student, Faculty of Chemical Engineering, Universitas Sriwijaya...... 107

COMPARISON OF THE USE OF FLY ASH AND RICE HUSK ASH IN THE MAKING OF GEOPOLYMER CONCRETE... 108

ID : 2154 108

Indrayani [1*], Andi Herius [1], Akhmad Mirza [1], Ricky Ravsyan Alhafez [1] 108

[1]Civil Engineering Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia 108

FLEXURAL STRENGTH ANALYSIS OF CONCRETE WITH THE ADDITION OF B3 WASTE AS AN ADDITIVE TO ORDINARY PORTLAND CEMENT (OPC)... 109

ID :2235 109

N Puspita*, Y Arti and Febriyandi 109

Civil Engineering Department, Universitas Indo Global Mandiri, Jalan Jend. Sudirman KM.4 No.629 Palembang, Indonesia 109

SIMULATION OF SILAGE PRODUCTION FROM WATER HYACINTH (*EICHORNIA CRASSIPES*)

AS RUMINANTS FEED BASED ON THE INCREASE OF *ASPERGILLUS NIGER* 110

ID : 2811 110

Agung Budi Santoso[1,*]Martha Aznury[2] Nova Rachmadona[3] Robert Junaidi[2]Fertarina Pratiwi[2].. 110

[1] Department of Biotechnology, Faculty of Agroindusty, Kasetsart University, Bangkok, Thailand 110

[2]Department of Chemical Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia 110

[3] Department of Chemical Science and Engineering, Graduate School of Engineering, Kobe University, Japan 110

THE PLACEMENT POSITION OF HOLLOW CORES IN THE IDEAL LONGITUDINAL DIRECTION ON THE REINFOCED CONCRETE BEAM 111

ID : 2645 111

Sumiati[1], Mahmuda[2], Ahmad Syapawi[3] 111

Civil Engineering Departement, State Polytechnic Sriwijaya, Srijaya Negara street, Bukit Besar Palembang, 30139, Indonesia.. 111

PRODUCTION OF BIODIESEL FROM UNREFINED PLANTS-DERIVED OIL BY IMMOBILIZED *ASPERGILLUS ORYZAE* EXPRESSING *BACILLUS THERMOCATENULATUS* LIPASE............. 112

ID : 2741 112

Nova Rachmadona[1,*] Martha Aznury[2] Chiaki Ogino[1] 112

[1]Department of Chemical Science and Engineering, Graduate School of Engineering, Kobe University, 1-1 Rokkodai-cho, Nada-ku, Kobe 657-8501, Japan 112

[2]Department of Chemical Engineering, State Polytechnic of Sriwijaya, Jl. Srijaya Negara Bukit Besar, Palembang, South Sumatera 30139, Indonesia 112

PARTIAL SUBSTITUTION OF CEMENT USING FLY ASH AND CARBITE WASTE IN THE MAKING OF NORMAL CONCRETE 113

ID : 2571 113

(Darma Prabudi, Kosim, Zainuddin, Raja Marpaung) Sriwijaya State Polytechnic 113

email: darma_prabudi@yahoo.com, kosimmt@gmail.com, zainuddin_muchtar@yahoo.co.id, raja.marpaung@gmail.com................................. 113

COMMUNITY ADAPTATION TO TRADITIONAL MARKETS DURING THE PANDEMIC PERIOD IN PALEMBANG CITY 114

ID : 2660 114

Hendi Warlika Sedo Putra[1,] Maya Fitri Oktarini[2], dan Primadella[3] 114

[1]Department of Civil Engineering, Politeknik Negeri Sriwijaya, Indonesia 114

[2] Department of Architecture, Engineering Faculty, Universitas Sriwijaya, Indonesia . 114

[3] Department of Architecture, Engineering Faculty, Universitas Sriwijaya, Indonesia . 114

EFFECT OF FERMENTATION TIME AND PERCENTAGE OF MORINGA (*MORINGA OLEIFERA*) FLOUR VARIATIONS ON VITAMIN C OF YOGURT 115

ID : 2809 115

*Martha Aznury1 Elina Margerty1 Melianti1 Sofiah1 Yuniar1 Sufi Awwaliyah1 115

1Department of Chemical Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia 115

ROAD DAMAGE CONDITIONS ANALYSIS OF TANJUNG API-API - GASING DISTRICT ROAD BASED ON SURFACE DISTRESS INDEX (SDI) METHOD... 116

ID : 2744 116

R. Marpen[1], A. Hasan[2], AN. Sari[3], HWS. Putra[4], R. Pranoto[5].................................... 116

[12345]Jurusan Teknik Sipil, Politeknik Negeri Sriwijaya, Palembang Jl. Srijaya Negara Bukit Besar, Palembang, Sumatera Selatan 30139 116

DATA MODEL PATTERN FOR DATA WAREHOUSE WEB APPLICATION OF INFORMATION PORTAL (Case study : Hidyatullah Integrated Islamic Boarding School, Banyuasin Regency) 117

ID : 2550 117

M Aris Ganiardi1,Nita Novita2, Indri Ariyanti3, Delta Khairunnisa4........................... 117

Informatics Management Department, Politeknik Negeri Sriwijaya, Srijaya Negara Street, Palembang, 30139, Indonesia.. 117

INVENTORY CONTROL AND EOQ FORECASTING TOOLS AS EFFECTIVE DECISION-MAKING MODEL... 118

ID : 2577 118

Ahmad Rifai [1], Dedy Kurniawan [2*], Ariansyah Saputra [3] ,... 118

Dinna Yunika Hardiyanti [4]... 118

1-4 Faculty of Computer Science, Universitas Sriwijaya, Indonesia 118

2*Advanced Programming Laboratory, Faculty of Computer Science, Universitas Sriwijaya, Indonesia.. 118

3 Department of Computer Engineering, Politeknik Negeri Sriwijaya, Indonesia 118

INCREASING SENSITIVITY OF PH DETECTION USING COMPUTER VISION BASED BIOSENSORS 119

ID : 2096 119

Faiz Syaikhoni Aziz [1,2], Sujito [1,2], Aji Prasetya Wibawa [1,2], I Made Wirawan [2], Ari Priharta [1,2] , Abdullah Iskandar Syah [2], Tran Huu Duy [3].. 119

[1] Electrical Engineering Postgraduate, Universitas Negeri Malang 119

[2] Electrical Engineering Department, Universitas Negeri Malang 119

[3] Electrical Engineering Department, Dalat University 119

ADAPTIVE FUZZY TIME SERIES METHOD TO FORECASTING ENROLLMENTS OF NEW STUDENT (CASE STUDY : DEPARTMENT OF COMPUTER ENGINEERING, STATE POLYTECHNIC OF SRIWIJAYA).. 120

ID : 2603 120

Ica Admirani1, Ikhthison Mekongga2, Isnaini Azro3, Hidayati Ami4, Rian Rahmanda Putra5 120

1Department of Computer Engineering, State Polytechnic of Sriwijaya, JL.Srijaya Negara Bukit Besar, Palembang,30139, Indonesia. 120

2Department of Computer Engineering, State Polytechnic of Sriwijaya, JL.Srijaya Negara Bukit Besar, Palembang,30139, Indonesia. 120

3Department of Computer Engineering, State Polytechnic of Sriwijaya, JL.Srijaya Negara Bukit Besar, Palembang,30139, Indonesia. 120

4Department of Computer Engineering, State Polytechnic of Sriwijaya, JL.Srijaya Negara Bukit Besar, Palembang,30139, Indonesia. 120

5Department of Computer Engineering, State Polytechnic of Sriwijaya, JL.Srijaya Negara Bukit Besar, Palembang,30139, Indonesia 120

ROOM SAFETY SYSTEM USING FACE RECOGNITION USING TELEGRAM AND RASPBERRY PI BASED HISTOGRAM OF ORIENTED METHOD.......... 121

ID : 2613 121

Azwardi, Yulian Mirza, Alan Novi Tompunu, Ariansyah Saputra 121

Program Studi Teknik Komputer, Politeknik Negeri Sriwijaya 121

Jl. Srijaya Negara Bukit Besar- Palembang 30139 121

Telp. 0711-353414, Fax. 0711- 355918 121

TELEMETRY DESIGN ACCURATION OF PATIENT'S TEMPERATURE WITH IOT APPROACH. 122

ID : 2618 122

Ahyar Supani[1,*], Ahmad Bahri Joni Malyan[1], Herlambang Saputra[1], Indarto[1], Yuli Andriani[2] 122

[1] *Department of Computer Engineering, Polytechnic State of Sriwijaya, Palembang, Indonesia*.......... 122

[2] *Department of Mathematics, Sriwijaya University, Palembang, Indonesia*.......... 122

Image processing system for pH classification using biosensors 123

ID : 2097 123

Sujito [1,2*], A P Wibawa [1,2], I M Wirawan [2], Aripriharta [1,2] , F S Aziz [1], A I Syah [2], T H Duy [3].......... 123

[1] Electrical Engineering Postgraduate, Universitas Negeri Malang, Indonesia 123

[2] Electrical Engineering Department, Universitas Negeri Malang, Indonesia 123

[3] Electrical Engineering Department, Dalat University, Vietnam 123

QUALITY MEASUREMENT EVALUATION OF THE POLSRI LEARNING MANAGEMENT SYSTEM WEBSITE USING IMPORTANCE PERFORMANCE ANALYSIS (IPA) METHOD 124

ID : 2274 124

Irma Salamah[1], Lindawati[2], Asriyadi[3], M.Fadhli[4].......... 124

[1,2,3,4] Telecommunication Program Studi State Polytechnic of Sriwijaya.......... 124

RESTFUL WEB SERVICE AS DATA GENERATOR FOR REPORTING OF ACADEMIC INFORMATION SYSTEM.......... 125

ID : 2620 125

M. Miftakul Amin *[1], Slamet Widodo [2], Adi Sutrisman [3], Ervi Cofriyanti [4], Ali Firdaus [5] 125

[1,2,3,4,5] Department of Computer Engineering, Politeknik Negeri Sriwijaya, Jl. Srijaya Negara Bukit Besar, Palembang, 30139, Indonesia 125

DESIGN AND IMPLEMENTATION OF LEARNING E-SCHEDULING IN SRIWIJAYA STATE POLYTECHNIC - TELECOMMUNICATION ENGINEERING STUDY PROGRAM 126

ID : 2666 126

Abdul Rakhman[1], Irawan Hadi[2], Nasron[3], Martinus Mujur Rose[4] 126

[1,2,3,4] Politeknik Negeri Sriwijaya 126

Jl. Srijaya Negara Bukit Besar – Palembang 126

PHP PROGRAMMING FOR ACHIEVING STUDENTS IN INFORMATICS MANAGEMENT DEPARTMENT STATE OF POLYTECHNIC SRIWIJAYA 127

ID : 2702 127

Yusniarti[1] 127

Henny Madora[2] 127

Ida Wahyuningrum[3] 127

Muhammad Noval[4] 127

[1234.]Jurusan Manajemen Informatika Politeknik Negeri Sriwijaya. 127

MEDICAL SERVICES APPLICATION OF LECTURERS, STAFF AND STUDENTS IN THE SRIWIJAYA STATE POLYTECHNIC POLYCLINIC 128

ID : 2704 128

Robinson1, Deri Darfin2, Zulkarnaini3, Ridwan Effendi4, ... 128

[1]Polsri Jl. Srijaya Negara Bukit Besar Palembang Sumatera Selatan 128

[2]Polsri Jl. Srijaya Negara Bukit Besar Palembang Sumatera Selatan 128

[3]Polsri Jl. Srijaya Negara Bukit Besar Palembang Sumatera Selatan 128

[4]Polsri Jl. Srijaya Negara Bukit Besar Palembang Sumatera Selatan 128

PROTOTYPE DEVELOPMENT OF MOTORBIKE TOWING HOOK TOWARD AUTHORIZED MECHANIC PERCEPTION AND INVESTIGATION 129

ID : 2768 129

Rahman Hakim[1], Muhammad Hasan Albana[1], Widodo[1], Hanifah Widiastuti[1] and Wahyu Caesarendra[2*] 129

[1]Department of Mechanical Engineering, Politeknik Negeri Batam, Jl. A. Yani, Batam Center, Kota Batam 29461, Indonesia 129

[2]Faculty of Integrated Technologies, Universiti Brunei Darussalam, Jalan Tungku Link, Gadong BE1410, Brunei Darussalam 129

INVESTIGATION STUDY OF PRESSURE DIFFERENT EFFECT AT EVAPORATOR IN ORGANIC RANKINE CYCLE SIMULATOR (ORCS) USING LOW-GRADE WASTE HEAT 130

ID : 2770 130

Mochamad Denny Surindra[1], Wahyu Caesarendra[2*] 130

[1] Mechanical Engineering, Politeknik Negeri Semarang, Semarang 50275, Indonesia; Email: dennysurindra@polines.ac.id 130

[2] Faculty of Integrated Technologies, Universiti Brunei Darussalam, Jalan Tungku Link, Gadong BE1410, Brunei Darussalam 130

APPLICATION OF TRACKING LETTER DISPOSITION AT STATE POLYTECHNIC OF SRIWIJAYA

BASED ON ANDROID WEBVIEW 131
ID : 2644 131
Satriadi, Indra[1,*] Oktapriandi, Sony., Meileni, Hetty., Aprianty, Desy......................... 131
[1] *State Polytechnic of Sriwijaya* 131
THE SHORTEST PATH SEARCH APPLICATION FOR BASE TRANSCEIVER STATION (BTS) USING A* ALGORITHM 132
ID : 1994 132
Ikhthison Mekongga[1], Aryanti Aryanti[23].. 132
[1]Computer Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia 132
[2]Electrical Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia................ 132
[3]Electrical Engineering, Southern Taiwan University of science and Technology, Tainan, Taiwan 132
COMPATIBILITY OF LINUX ARCHITECTURE FOR DISKLESS TECHNOLOGY SYSTEM......... 133
ID : 2615 133
Aryanti Aryanti [12*], Ade Silvia Handayani[2], Ibnu ziad[2], Ikhthison Mekongga[3], Farid Jatri Abiyyu[2] 133
[1]Electrical Engineering, Southern Taiwan University of science and Technology, Tainan, Taiwan 133
[2]Electrical Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia................ 133
[3]Computer Engineering, Politeknik Negeri Sriwijaya, Palembang, Indonesia 133
RESERVOIR IRRIGATION SYSTEM DESIGN BASED WIRELESS SENSOR NETWORK 134
ID : 2636 134
M. Zakuan Agung[1)], Eka Susanti[2)], R.A Halimatussa'diyah[3)], Susanzefi[4)], Amirah Fakhirah[5)] 134
[1,2,3,4,5]Department of Polytechnic Sriwijaya, Jalan Srijaya Negera, Bukit Besar, Palembang - Indonesia 134
USING NIGHT VISION CAMERA ROBOT BASED ON INTERNET OF THING 135
ID : 2817 135
Sarjana[1)], Adewasti [2)], Sholihin[3)], Emilia Hesti[4)], Amirah Fakhirah[5)] 135
[1]Department of Polytechnic Sriwijaya, Jalan Srijaya Negera, Bukit Besar, Palembang - Indonesia.. 135
[2] Department of Polytechnic Sriwijaya, Jalan Srijaya Negera, Bukit Besar, Palembang - Indonesia.. 135
[3] Department of Polytechnic Sriwijaya, Jalan Srijaya Negera, Bukit Besar, Palembang - Indonesia.. 135
[4] Department of Polytechnic Sriwijaya, Jalan Srijaya Negera, Bukit Besar, Palembang - Indonesia.. 135
[5] Department of Polytechnic Sriwijaya, Jalan Srijaya Negera, Bukit Besar, Palembang - Indonesia.. 135
Biometric Fingerprint Implementation for Presence Checking and Room Access Control System

.... 136

ID : 2726 136

Yudi Wijanarko[1], Selamet Muslimin[2], *Renny Maulidda[3], ... 136

Yordan Hasan[4], Abdurrahman[5]... 136

[1] Politeknik Negeri Sriwijaya.. 136

[2] Politeknik Negeri Sriwijaya 136

[3] Politeknik Negeri Sriwijaya.. 136

[4] Politeknik Negeri Sriwijaya 136

Prototype Design of Landslide Early Detection System Using LoRa and IoT 137

ID : 2663 137

Ahmad Taqwa[1], Mohammad Fadhli[2], Sopian Soim[3], Ade Silvia[4], Suroso Suroso[5] 137

[1,2,3,4,5]Politeknik Negeri Sriwijaya 137

IMPLEMENTATION OF USTADZ SEARCH SOFTWARE FOR MUBALIGH, QORI AND QORIAH CATEGORIES IN PALEMBANG USING AN ANDROID-BASED USABILITY APPROACH 138

ID : 2078 138

M. Rudi Sanjaya[1], Yadi Utama[2], Dedy Kurniawan[3], Ariansyah Saputra[4], Novita Sari[5], Rahma Destriani[6], Muhammad Raihan Udda Rahmany[7] 138

[1] Internet Programming Laboratory Department of Computer Engineering, Faculty of Computer Science, Universitas Sriwijaya, Indonesia 138

[2] Department of Computer Engineering, Faculty of Computer Science, Universitas Sriwijaya, Indonesia.. 138

[3] Department of Computer Engineering, Faculty of Computer Science, Universitas Sriwijaya, Indonesia.. 138

[4] Department of Computer Engineering, Politeknik Negeri Sriwijaya, Indonesia 138

[5,6,7] Student Department of Computer Engineering, Faculty of Computer Science, Universitas Sriwijaya, Indonesia 138

APPLICATION OF CAMPUS PARKING AREA FOR STATE POLYTECHNIC OF SRIWIJAYA BASED ON SMARTPHONE 139

ID: 2619 139

Leni Novianti[1], Devi Sartika[2] , Dewi Irmawati[3], Ienda Meiriska[4] 139

[1,2,3,4] Study Program of Informatics Management, State Polytechnic of Sriwijaya 139

ANDROID-BASE m-VOTING APPLICATION DEVELOPMENT WITH SIMPLE ADDITIVE WEIGHTING METHOD 140

ID : 2669... 140

Devi Sartika1, Leni Novianti2, Dewi Irmawati3, Ienda Meiriska4.............................. 140

1,2,3,4Study Program of Informatics Management,State Polytechnic of Sriwijaya...... 140

DESIGN WEB BASED ONLINE TUTORING APPLICATION IN PALEMBANG CITY USING THE SUS (SYSTEM USABILITY SCALE) METHOD... 141

ID : 2098 141

M. Rudi Sanjaya1, Ariansyah Saputra2, 3Bayu Wijaya Putra, Novita Sari4, Rahma Destriani5, Muhammad Raihan Udda Rahmany6.. 141

1,3 Program in Informatics Management of Computer Engineering, Faculty of Computer Science, Universitas Sriwijaya, Indonesia 141

2 Department of Computer Engineering, Politeknik Negeri Sriwijaya, Indonesia 141

3,4,5 Student Department of Computer Engineering, Faculty of Computer Science, Universitas Sriwijaya, Indonesia 141

BLACK BOX TESTING USING EQUIVALENCE PARTITION METHOD IN SINTANA APPLICATION 142

ID : 2225 142

Yayuk Ike Melani[1] and Mahmud[2] 142

[1]S1 Information System, STMIK PalComTech, Palembang 142

[2]S1 Informatic, STMIK PalComTech, Palembang 142

THE DESIGN OF A TOOL TO MEASURE THE EFFECTIVENESS AND EFFICIENCY OF USERS TOWARDS THE APPLICATION OF POLISIKU APPLICATION 143

ID : 2366 143

[1]Eko Setiawan and [2]Wiza Yunifa.. 143

[1,2]Information Systems Study Program, Politeknik PalComTech Palembang 143

DATABASE DESIGN FOR CHILD SPECIAL DEVELOPMENT INSTITUTION'S SERVICE PERFORMANCE E-DASHBOARD (CASE STUDY: PALEMBANG CHILD SPECIAL DEVELOPMENT INSTITUTION) 144

ID : 2432 144

Hendra Hadiwijaya[1], Febrianty[2], Rezania Agramanisti Azdy[3*] 144

[1, 2] Accounting Study Program, Palembang Palcomtech Polytechnic, Indonesia 144

[3*] Informatics Study Program, STMIK PalComTech, Indonesia 144

EXTENDING THE UNDERSTANDING OF BUSINESS INTELLIGENCE AND ITS APPLICATION IN STARTUPS 145

ID : 2440 145

Dedy Kurniawan[1], Ariansyah Saputra[2], M. Rudi Sanjaya[3], Zaqqi Yamani[4] 145

[1] Advanced Programming Laboratory, Faculty of Computer Science, Universitas Sriwijaya, Indonesia 145

[2] Department of Computer Engineering, Politeknik Negeri Sriwijaya, Indonesia 145

[3] Internet Programming Laboratory, Faculty of Computer Science, Universitas Sriwijaya, Indonesia 145

[4-5] Faculty of Computer Science, Universitas Sriwijaya, Indonesia 145

THE APPLICATION OF DIGITAL MARKETING FOR UKM IN FACING THE COVID-19 PANDEMIC 146

ID : 2472 146

Hetty Meileni[1], Sony Oktapriandi[2], Desi Apriyanti[3] 146

[1-3]Informatic Management Department, Politeknik Negeri Sriwijaya 146

DESIGNING STUDENT AND LECTURER ATTENDANCE SYSTEM APPLICATION USING PROGRESSIVE WEB APPS (PWA) 147

ID : 2586 147

Hartati Deviana[1] 147

[1]Department of Computer Engineering, Politeknik Sriwijaya,Jl. Srijaya Negara Bukit Besar,Palembang,30139, Indonesia 147

DESIGNING AUGMENTED REALITY-BASED COMPUTER DEVICES LEARNING MEDIA ON ANDROID PLATFORM 148

ID : 2760 148

Dony Novaliendry[1,2], Arif Subagia[1], Titi Sriwahyuni[1], Fegie Y Wattimena[3], Axelon S Renyaan[3], Ceng-Hong Yang[2], Muhammad Ariyon[4] 148

[1]Departement of Electronics Engineering, Faculty of Engineering, Universitas Negeri Padang, Padang, Indonesia 148

[2]Departement of Electronics Engineering, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan 148

[3]Fakultas Sains & Teknologi, Universitas Ottow Geissler Papua, Indonesia 148

[4]Teknik Perminyakan, Universitas Islam Riau, Pekanbaru, Indonesia 148

PUBLIC SERVICE ANNOUNCEMENT IMPLEMENTATION OF LEARNING AT THE SRIWIJAYA STATE POLYTECHNIC IN MINIMIZING THE RISKS AND IMPACTS CAUSED BY THE COVID-19 PANDEMIC.......... 149

ID : 2706 149

Alan Novi Tompunu[1], Nelly Masnila[2], Zakaria[3], Azwardi[1] and Ainun Nabila[1] 149

[1] Computer Engineering Department, State Polytechnic of Sriwijaya, Indonesia.......... 149

[2] Accounting *Department,* State Polytechnic of Sriwijaya, Indonesia 149

[3] *English Department,* State Polytechnic of Sriwijaya, Indonesia 149

PRINCIPAL COMPONENT ANALYSIS METHOD FOR IMAGE SEGMENTATION OF SMART METER DIGITAL 150

ID : 2087 150

Husnawati1, Shinta Puspasari2, Rian Rahmanda Putra3 150

[1,2]Department of computer science, Indo Global Mandiri University, Palembang, ... 150

Indonesia.......... 150

[3]Department of computer science, Politeknik Negeri Sriwijaya, Palembang, ... 150

Indonesia.......... 150

DESIGN OF SOLAR POWERED VACCINE BACKPACK 151

ID : 2838 151

Muhammad Haikal Satria[1,*] Ariep Jaenul[1] Adhes Gamayel[1].......... 151

[1] Dept. of Electrical Engineering, Faculty of Engineeing and Computer Science, Jakarta Global University 151

TRAINER MODULE DESIGN OF ITEM SORTING EQUIPMENT BASED ON HEIGHT AND PLC-BASED TRAFFIC LIGHT PROTOTYPE IN THE SYSTEM LABORATORY.......... 152

ID : 2798 152

Evelina [1], Amperawan [2], Dewi Permata Sari [3], Sabilal Rasyad [4] 152

[1]Electrical Engineering, Department of Electrical Engineering 152

[2]Electrical Engineering, Politeknik Negeri Sriwijaya 152

PROTOTYPE DEVELOPMENT OF HEARTBEAT AND BODY TEMPERATURE MONITORING SYSTEM BASED ON INTERNET OF THINGS 153

ID : 2599 153

Ade Silvia Handayani [1)], Ahmad Taqwa [2)], Arsyiil Shiddik [3)] Nyayu Latifah Husni[4)] 153

[1)-3)] Telecommunication Engineering, Politeknik Negeri Sriwijaya 153

[4)] Elektronics Engineering, Politeknik Negeri Sriwijaya 153

IMPLEMENTATION OF FUZZY LOGIC TYPE-2 ON MOBILE ROBOT NAVIGATION SYSTEM . 154

ID : 2661 154

Ade Silvia Handayani[1], Jefri Alkausar[1], Sarjana[1], Nyayu Latifah Husni[1], Siti Nurmaini[2], Irsyadi Yani[3] 154

[1]Electrical Department, Politeknik Sriwijaya, [2]Intelligent System Research Group, Faculty of Computer Science, Universitas Sriwijaya, [3]Mechanical Engineering Department, Faculty of Engineering, Universitas Sriwijaya 154

WIRELESS DETECTOR FOR LUNG SOUND DISORDER BASED ON DSP TMS320C6416 MODULE 155

ID : 2805 155

Nyayu Latifah Husni[1], Arganda Meranda[2], Destra Andika Pratama[3], Ekawati Prihatini[4], Selamat Muslimin[5], Ade Silvia Handayani[6] 155

[1-6] Electrical Engineering, State Polytechnic of Sriwijaya 155

NEW NAVIGATION STRATEGY FOR G-BOT 156

ID : 2806 156

Nyayu Latifah Husni[1], Qodry Maulana[2], Ekawati Prihatini[3], Ade Silvia Handayani[4], Firdaus[5] 156

[1-4] Electrical Engineering, State Polytechnic of Sriwijaya [5] Computer Engineering, Sriwijaya University 156

AIR DETECTION ENVIRONMENT SYSTEM (ADEV) USING ANDROID APPLICATION FOR AIR QUALITY IN PARK AREA 157

ID : 2824 157

Ade Silvia Handayani[1], Nyayu Latifah Husni[2], Al Fatur Sayid[3], Rosmalinda Permatasari[4], Carlos R Sitompul[5], Sopian Soim[6] 157

[1,2,3,5,6]Department of Polytechnic Sriwijaya, Jalan Srijaya Negera, Bukit Besar, Palembang - Indonesia 157

[4]Universitas Tridinanti Palembang-indonesia 157

THE CONDITION OF THE SURFACE SEVERITY OF THE POLLUTED INSULATOR BASED ON HARMONIC MEASUREMENTS OF LEAKAGE CURRENTS 158

ID : 2775 158

Carlos R Sitompul, Zainuddin Nawawi, Irfan Jambak, Rumiasih Rumiasih, Anton Firmansyah, Indah Susanti 158

THE INFLUENCE OF TRAVEL EXPERIENCE AND DESTINATION QUALITY ON TOURIST SATISFACTION VISITING CULINARY TOURISM DESTINATIONS 159

ID : 2575 159

Abd. Hamid[*1], Ummasyroh*[2], Jusmawi Bustan[*3], Heri Setiawan[*4] 159

[1,2,3,4,]Business Administration Department, State Polytechnic of Sriwijaya, Palembang, Indonesia 159

THE EFFECT OF ORGANIZATIONAL SUPPORT AND JOB CHARACTERISTICS ON EMPLOYEE ENGAGEMENT 160

ID : 2576 160

A.Jalaludin Sayuti[1], Munparidi[2], L.Suhairi Hazizma[3], Alditia Detmuliati[4] 160

[1,2,3,4]Business Administration Department, State Polytechnic of Sriwijaya, Palembang, Indonesia 160

THE LINKAGE BETWEEN MARKET ORIENTATION, LEARNING ORIENTATION, AND INNOVATION CAPABILITIES OF SMALL SCALE RESTAURANT 162

ID : 2581 162

Purwati[1], Yusleli Herawati[2], Elisa[3], Marieska Lupikawati[4] 162

Business Administration Department, State Polytechnic of Sriwijaya, Palembang, Indonesia 162

STRENGTHENING STUDENTS' WRITING ON PROJECT REPORT VIA PROJECT BASED LEARNING TO THE ENGLISH DEPARTMENT STUDENTS OF SRIWIJAYA STATE POLYTECHNICS 163

ID : 2589 163

Yusri, Sri Gustiani,Tiur Simanjuntak, Evi Agustinasari 163

(Lecturers of English Department, Sriwijaya Polytechnics) 163

ANALYSIS OF DAILY CONVERSATION FOR ONLINE DRIVERS 164

ID: 2596 164

Desloehal Djumrianti [1], Pridson Mandiangan [2], Hanifati[3], Alfitriani[4] 164

[1,2,3,4]Business Administration Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia 164

THE STUDENTS` PERCEPTIONS OF RELIGIOUS RADICALISM AT STATE POLYTECTNIC OF SRIWIJAYA 165

ID : 2711 165

Farida Husin[*1], Ibnu Maja[*2], Yulianto Wairan[*3], Lindawati[*4] 165

Lecturer of State Polytechnic of Sriwijaya Palembang 165

The Correlation between Students' Listening Comprehension Strategy and Their TOEIC Score at State Polytechnic of Sriwijaya 166

ID: 2733 166

Koryati[1,*] Aisyah Shahab[2,*] Zulkifli[3,*] Nian Masna Evawati[4,*] 166

[1,2,3,4] *English Department of Sriwijaya State Polytechnic* 166

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.. 167

ID : 2734 167

Lisbet Octovia Manalu[1], * Budi Rustandi[2], Budi Somantri[3]...................................... 167

[1] Rajawali Health Institute Bandung.. 167

[2] Rajawali Health Institute Bandung 167

[3] Rajawali Health Institute Bandung 167

A STORY OF A CUP OF COFFEE REVIEW OF GOOGLE LOCAL GUIDE REVIEW................. 168

ID : 2759 168

Setiawan Priatmoko[1, 2*], Dávid Lóránt[1]... 168

Szent Istvan University School of Economics and Regional Science Gödöllő, Hungary[1] 168

STIE Pariwisata API Yogyakarta, Indonesia[2].. 168

ASIAN WOMEN'S ROLES IN FAMILY HOLIDAY: A CASE STUDY OF INDONESIAN FEMALES 169

Paper ID 2788 169

Desloehal Djumrianti [1], Augustus E. Oseso-Asare [2].. 169

[1]*Business Administration Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia* 169

[2]*Faculty Business and Law, University of Sunderland, United Kingdom* 169

Analysis of Daily Conversation for Online Drivers... 170

ID 2789 170

Desloehal Djumrianti [1], Augustus E. Oseso-Asare [2].. 170

[1]*Business Administration Department, Politeknik Negeri Sriwijaya, Palembang, Indonesia* 170

[2]*Faculty Business and Law, University of Sunderland, United Kingdom* 170

The Customary Philosophy of the Anak Dalam Tribe as part of the soul of the nation's law171

ID 2791 171

Muhamad Erwin[1], Ahmad Taqwa[2], Dicky Seprianto[3], Ahmad Zamheri[4]...................... 171

[1]State Polytechnic of Sriwijaya, Palembang, Indonesia, ... 171

[2]Electrical Engineering Departemet State Polytechnic of Sriwijaya, Palembang, Indonesia, ... 171

[3]Mechanical Enginering Departement State Polytechnic of Sriwijaya Palembang, Indonesia,... 171

[4]Mechanical Enginering Departement State Polytechnic of Sriwijaya Palembang, Indonesia 171

THE INFLUENCE OF LEADERSHIP STYLE, AND MOTIVATION WORK STRUCTURE TO MUARA ENIM COMMUNITY HEALTH CENTER (EQUATION STRUCTURAL METHOD APPROACH) ... 172

Paper ID 2612 172

AlHushori[1], Yusnizal Firdaus[1], Markoni Badri[1], Muhammad Yusuf[1*] 172

[1]Department of Business Administration, State Polytechnic of Sriwijaya, Palembang, Indonesia.. 172

alhushori@gmail.com,yusnizalfirdaus@yahoo.co.id,markonibadri@yahoo.com,m.yusuf@polsri.ac.id* 172

SETTLEMENT OF CASES OF TERMINATION OF EMPLOYMENT AT THE INDUSTRIAL RELATION COURT IN PALEMBANG CITY 173

Paper ID 2713 173

Ayu Puspasari, WasitohMeirani, Muhammad Erwin, Suroso..................................... 173

Politeknik Negeri Sriwijaya.. 173

Jl. Srijaya Negara, Bukit Lama, Bukit Besar, Kota Palembang, Sumatera Selatan. 173

THE EFFECT OF FINANCIAL TECHNOLOGY ON FINANCIAL INCLUSION IN SMES IN PALEMBANG CITY 174

ID : 2845 174

Nur Rizka Erlianta[1], Marieska Lupikawaty[2*], Titi Andriyani[3] 174

[1] Bachelor Program in Business Management.. Department of Business Administration, Sriwijaya State Polytechnic 174

[2]Bachelor Program in Business Management.. Department of Business Administration, Sriwijaya State Polytechnic 174

[3]Diploma Program in Business Administration, Department of Business Administration, Sriwijaya State Polytechnic 174

THE EFFECT OF PATIENT SATISFACTION LEVELS ON COMPETENCY AND FACILITIES AT SITI KHADIJAH ISLAMIC HOSPITAL, PALEMBANG CITY 175

ID : 2217 175

Sarikadarwati [1,] Henny Yulsiati [2], Sandrayati [3], Susi Ardiani[4]..................................... 175

Department Accounting Polytechnic of Sriwijaya.. 175

THE ROLE OF SMALL AND MEDIUM ENTERPRISES (SMES) AND ECONOMIC GROWTH IN INDONESIA: THE VECM ANALYSIS 176

ID : 2579 176

Aladin[1], Evada Dewata[2], Yuliana Sari[3], Yuli Antina Aryani[4] 176

[1,2,3,4,]Department of Accounting, Politeknik Negeri Sriwijaya, Indonesia 176

POVERTY IN SOUTH SUMATRA PROVINCE IS VIEWED FROM VILLAGE FUND AND VILLAGE FUND ALLOCATION.. 177

ID :2583 177

Rita Martini[1]*, Endah Widyastuti[1], Sukmini Hartati[1], Zulkifli[1], Riana Mayasari[1] 177

[1]Accounting Department, Polytechnic State of Sriwijaya, Palembang 30139, Indonesia 177

IMPACT OF BUMDESA MANAGEMENT ON PADESA IN PENUKAL ABAB LEMATANG ILIR REGENCY 178

ID : 2602 178
Rosy Armaini[1*], Maria Maria[2], Nurhasanah Nurhasanah[3], Yevi Dwitayanti[4] 178
[1-4] Accounting Major, State Polytechnic of Sriwijaya, PaleBMang, South Sumatera, Indonesia.. 178
FACTORS AFFECTING ECONOMIC GROWTH IN REGENCIES AND CITIES IN THE PROVINCE OF SOUTH SUMATRA IN 2010 – 2018 179
ID : 2803 179
Sri Hartaty[1], Eka Jumarni F[2], Anggeraini O[2], L. Vera R.P.[2] 179
ABSTRACT 179
THE EFFECT OF LOCAL GOVERNMENT CHARACTERISTICS AND BPK AUDIT OPINIONS ON THE FINANCIAL PERFORMANCE OF LOCAL GOVERNMENTS (STUDY ON LOCAL GOVERNMENTS IN SOUTH SUMATRA) 180
ID : 2621 180
Indra Satriawan, Ardiyan Natoen, Periansya, Sopiyan AR 180
1234 Department of Accounting, Sriwijaya State Polytechnic 180
DIMENSIONS OF WOMEN'S EMPOWERMENT 181
ID :2519 181
Neneng Miskiyah[1*], Sari Lestari Zainal Ridho[1], Hadi Jauhari[1], Keti Purnamasari[1] 181
[1]Department of Business Administration, Sriwijaya State Polytechnic, Palembang, Indonesia.. 181
THE EFFECT OF ENTREPRENEURIAL COMPETENCIES ON BUSINESS PERFORMANCE (EMPIRICAL STUDY ON MSMES OF PALEMBANG WOVEN FABRIC) 182
ID : 2658 182
Edwin Frywaruwah1, Bainil Yulina2, Sulaiman3, Siska Aprianti4 182
[1,2,3,4] Politeknik Negeri Sriwijaya.. 182
Analysis Of Marketing Mix Strategy On Consumer Value In Small And Medium Enterprises In Palembang, South Sumatra (Case Study Of Palembang's Traditional Processed Food)...... 183
ID : 2756 183
Riza Wahyudi, M.Thoyib, Firmansyah, Darul Amri 183
Accounting Department Politeknik Negeri Sriwijaya, thoyib1958@gmail.com 183
THE EFFECT OF PLANNING ON RISK OF LOSS.. 184
IN INVESTING IN THE CAPITAL MARKET 184
ID 2804 184
Mariskha. Z[1], Hendra Sastrawinata[2], Dr. Dewi Fadilah[3], M. Riska Maulana[4] 184
State Polytechnic of Sriwijaya 184
The Effect of Bank Credibility and Service Convenience on Bank Customer Attitudes 185
ID 2567 185
Esya Alhadi[1], 2nd Gst Ayu Oka Windarti[2], Elvia Zahara[3], Titi Andriani[4] 185
[1,2,3,4]Business Administration Department, State Polytechnic of Sriwijaya, Palembang,

Indonesia.. 185

The Influence of Information Quality and Information System Quality of Regional Assets on User Satisfaction at the Provincial Government of South Sumatera 186

ID 2814 186

Kartika Rachma Sari[1,*] Zainal Arifin[2,] Desi Indriasari[3,] Choiruddin[4] 186

Politeknik Negeri Sriwijaya.. 186

Looking beyond Students' Writing: Its Relation to Their Academic Achievement 187

ID 2822 187

Beni Wijaya, Zakaria, Munaja Rahma, Moehamad Ridhwan 187

Politeknik Negeri Sriwijaya.. 187

Determinants of Regional Budget Absorption in the Regional Apparatus Organization of Palembang City.. 188

ID 2830 188

Vega Nabila Putri1, Kuo Keo Pisey2, Sukmini Hartati1, Rita Martini1* 188

1Accounting Department, Polytechnic State of Sriwijaya, Palembang 30139, Indonesia 188

2Enterpreneurship Development Institute, CIEDI Cambodia-India, Cambodia 188

*Corresponding author. Email: ritamartini@polsri.ac.id 188

ASPECTS AFFECTING THE ACCOUNTABILITY PERFORMANCE OF GOVERNMENT AGENCIES BANYUASIN DISTRICT.. 189

ID: 2834 189

Rita Martini[*1], Muhammad Aulia Ramadhan[*1], Sukmini Hartati*[1] 189

[1]Accounting Department, Polytechnic State of Sriwijaya, Palembang 30139, Indonesia 189

PERCEPTION OF HUMAN RESOURCES ASPECT ON ABILITY TO MANAGE BUMDES 190

Paper ID 2846 190

Nelly Masnila[1], Faridah[2], M. Husni Mubarok[3], Desri Yanto[4]...................................... 190

Politeknik Negeri Sriwijaya.. 190

The Effect of Parameter Process 3D Printer Technology Digital Light Processing to Geometric of Shaft

ID : 2650

A Zamheri[1,*] D Seprianto[2], Carlos RS[3], Indri A[4], TC Persada[5]
[1] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia
[2] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia
[3] Electrical Engineering Department, State Polytechnic of Sriwijaya, Indonesia
[4] Informatics Management Department,, State Polytechnic of Sriwijaya, Indonesia
[5] Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia

Corresponding author. Email: dickyseprianto@gmail.com

ABSTRACT

The development of Industrial technology 4.0 was characterized by cyber-physical systems. This era make it easier for humans to connect with other humans, with industrial machines, and with the environment around them. With the industrial revolution 4.0 can be significantly increase the productivity. At this time, the single part products are often needed, where the product is used only a little and without needed for mass production or be known a custom design. The products that are custom design can be made by a 3D Printer (3DP) machine. 3D Printing is one of the newest technologies in the printing world, where the 3D printing technology is an easy to print and easy to develop the solid product with 3DP technology. In this study, the printing objects of 3DP using CAD data and then converted into G-Code using Creation Workshop software version 1.0.0.75. This study aims to determine the effect of layer thickness and exposure time to geometric of shaft made by 3D Printer with technology Digital Light Processing (DLP). The specimens tested is Ø20 x 100 mm with material Liquid Photopolymer Resin. The data from the test results analyzed using ANOVA with a 3-level design type and 2 factorial interactions (2FI) with 3 replications modeled by the Design-Expert® 10 trial version software. The results of the 5-point method analysis show that the main factor of most influences on the cylindricity of the test specimens is the layer thickness factors, and the optimum combination of parameters in this study is layer thickness 0.075 mm and exposure time 15 seconds.

Keywords: 3DP-DLP, ANOVA, Layer Thickness, Exposure Time, Cylindricity.

Atlantis Highlights in Engineering, volume 7
Proceedings of the 4th Forum in Research, Science, and Technology (FIRST-T1-T2-2020)

The Effect of Parameter Process 3D Printer Technology Digital Light Processing to Geometric of Shaft

A Zamheri[1,*] D Seprianto[1] Carlos RS[2] Indri A[3] TC Persada[1]

[1] *Mechanical Engineering Department, State Polytechnic of Sriwijaya, Indonesia*
[2] *Electrical Engineering Department, State Polytechnic of Sriwijaya, Indonesia*
[3] *Informatics Management Department,, State Polytechnic of Sriwijaya, Indonesia*
[*]*Corresponding author. Email: dickyseprianto@gmail.com*

ABSTRACT
The development of Industrial technology 4.0 was characterized by cyber-physical systems. This era make it easier for humans to connect with other humans, with industrial machines, and with the environment around them. With the industrial revolution 4.0 can be significantly increase the productivity. At this time, the single part products are often needed, where the product is used only a little and without needed for mass production or be known a custom design. The products that are custom design can be made by a 3D Printer (3DP) machine. 3D Printing is one of the newest technologies in the printing world, where the 3D printing technology is an easy to print and easy to develop the solid product with 3DP technology. In this study, the printing objects of 3DP using CAD data and then converted into G-Code using Creation Workshop software version 1.0.0.75. This study aims to determine the effect of layer thickness and exposure time to geometric of shaft made by 3D Printer with technology Digital Light Processing (DLP). The specimens tested is Ø20 x 100 mm with material Liquid Photopolymer Resin. The data from the test results analyzed using ANOVA with a 3-level design type and 2 factorial interactions (2FI) with 3 replications modeled by the Design-Expert® 10 trial version software. The results of the 5-point method analysis show that the main factor of most influences on the cylindricity of the test specimens is the layer thickness factors, and the optimum combination of parameters in this study is layer thickness 0.075 mm and exposure time 15 seconds.

Keywords: *3DP-DLP, ANOVA, Layer Thickness, Exposure Time, Cylindricity*

1. INTRODUCTION

The technological developments enter the Industrial 4.0 that is marked by cyber-physical systems. This era makes it easier for humans to connect with other humans, with industrial machines, and with the environment around them. Of course, the industrial revolution 4.0 can significantly increase the productivity. At this time, single part products are often needed where only one or more products are used without need the mass production or known custom design [1]. Custom design products can be made using a 3D Printer (3DP) machine. 3D Printing technology has process for making solid objects using a 3D printer with a commands files program. The process of printing 3D objects is known as additive manufacturing [2]. This technology is applied in various engineering and industrial fields such as airplanes, bioengineering, medical devices, medical implants and automotive products. There are various additive manufacturing technologies available in the market such as Fused Deposition Modeling (FDM), Direct Metal Deposition (DMD), Selective Laser Sintering (SLS), Inkjet Modeling (IJM), Digital Light Processing (DLP), and Stereolithography (SLA) [3].

First time SLA (Stereolithographic Apparatus) machine was produced by 3D Systems in 1992. The process for compaction the photopolymer on the machine uses a UV (Ultraviolet) laser, The Ultraviolet light shoot out following the pattern who made in 3DP software. The raw material for making 3D objects using SLA technology has called a photopolymer liquid resin which is made from a mixture the chemical elements. In the printing process, there are several parameters such as Layer Thickness, Exposure Time, Overhang Angle, Hatch Spacing, the Fill spacing, Hatch Overcure, Border Overcure, and the Fill Cure Depth. The Parameters are the crucial part for greatly effects of accuracy and strength level of each layer, therefore selection and setting of these parameters is very important [4]. In the world of machining, the functional characteristics of a machine component will be obtained after the component was assembled with its partner components, to get good functional characteristics the good geometric are needed [5], so the correct alignment and roundness can reduce vibrations and more efficient to use and extend the lifetime product.

2. LITERATURE REVIEW

Computer Aided Design (CAD) is a software used to draw a solid model or surface model that begins with a point, line, or symbols who have a specific meaning. The results of CAD has a shape 2D or 3D drawings, besides that the design model usually has properties such as mass, volume, surface area, center of gravity and etc. so that is why CAD can be integrated with CAE (Computer Aided Engineering) and CAM (Computer Aided Manufacturing) software. The several of CAD software usually used is Alias, CATIA, Autodesk® Inventor®, Pro / ENGINEER®, Parasolid®, SolidWorks ™ and Power Shape and UGS NX [6].

Rapid Prototyping is a technique to form and assemble the product with quickly who using an integration method between CAD (Computer Aided Design) and the machines with rapid prototyping systems such as 3D Printer and CNC [7] And according to[8] explains that rapid prototyping is the process to forming objects from 3D data layer per layers, that opposed to the manufacturing process on revolving machines, mostly reducing unnecessary parts. Rapid Prototyping technology is a valuable technology for manufacturing. With this technology, it can realize 5 "any": any material, any part, any quantity, any location and any industrial field [9].

Scientific publications conducted by [10] have a big impact in rapid prototyping technology, almost all technologies used in 3D Printing machines today use one of several methods from previous studies and combine with new technology, where the process of printing objects solid with a 3D printer using a command with form the program files or known as additive Manufacturing (AM). There are a variety of AM technologies available on the market such as Fused Deposition Modeling (FDM), Direct Metal Deposition (DMD), Selective Laser Sintering (SLS), Inkjet Modeling (IJM), Digital Light Processing (DLP), and Stereolithography (SLA), DLP is an additive Manufacturing process used to produce layered parts to solid model through the photopolymerization [11]. Based on printing using UV light, DLP has the advantage of reducing production time and increasing the accuracy of production results [12].

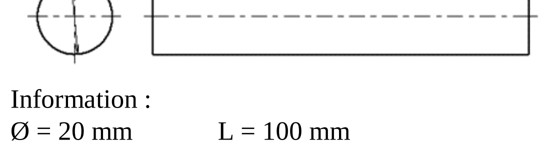
The shaft is an important component of a rotating machine, Shaft is used to transmit power and motion [13]. Shaft with the incorrect geometric can produce the problems such as excessive vibration, noise, and increased temperature [14], moreover can make the damage to shaft itself or other components.

Design experiments are used to study the performance of process or system that is usually visualized like a combination of machines, methods, people and other resources. Because of it that need to use a statistical approach who applied to the experimental process. The experimental design aims to obtain and collect more information or data as necessary and useful to conducting research on the issues to be discussed. Research also be carried out an efficiently to considering the time, cost, energy and materials that must be used [6].

3. METHODOLOGY

The method used in this research covering literature, design and experimental studies on the cylindricity deviations value of the print results Object 3DP SLA-DLP. This research was conducted at the CNC Laboratory in Department of Mechanical Engineering, State Polytechnic of Sriwijaya. In this study, the test specimens were made using 3DP SLA-DLP where the material used is photopolymer (resin). Test specimens are made according to ISO 1101 / ISO 12180-1 with sized Ø20x100 mm. This study aims to determine the effect of parameter process 3d Printer technology digital light processing to geometric of Shaft. The step for making specimen among is.

a) Designing 3D models using Autodesk® Inventor® CAD software,.
b) Export 3D model to Creation Workshop (CW) software
c) Setting the 3DP process parameters using CW and Slice 3D models with 3DP SLA-DLP to finish



Information :
Ø = 20 mm L = 100 mm

Figure 1 Dimension of cylindricity specimens

Table 1. Fixed factor for making testing specimens

No	Parameter	Value	Unit
1	Off Time	1	s
2	Bottom Exposure	60	S
3	Bottom Layers	8	
4	Z Lift Distance	6	mm
5	Z Lift Speed	3	mm/s
6	Z Retract Speed	3	mm/s

Table 2. Controlled factor for making testing specimens

Parameter	
Layer Thickness	Exposure Time
0.025 mm	10
0.05 mm	12,5
0.075 mm	15

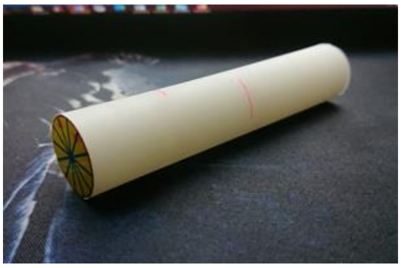
Analysis of the data from the cylindricity measurement in this study uses analysis of variance (Two-Way ANOVA) with the experimental 2-level factorial design method and investigated the effect of relationship of 2 factors on the cylindricity measurement (2 factorial interactions), in analyzing the data used Design Expert software version 10 (trial license). The data obtained from the results of the cylindricity measurement were analyzed by analysis of variance. ANOVA basically aims to test the hypothesis (H0) that the mean of two or more populations is the same. The concept of analysis variance has based on the concept of the F distribution and can be applied to the analysis of the relationship between the various observed variables. In statistical calculations, analysis of variance has strongly influenced by the assumptions used such as a normal distribution, identical (variance homogeneity), independent (freedom from error) and model linearity. This assumption can be seen by making a graph based on the residuals of the difference between the actual test results and the predicted data.

Two-Way ANOVA (analysis of variance) in this study is used to determine the existences of differences effect in several independent variables (factors) and the dependent variable (response) and each variable has three levels [15]. To determine the effect of variables on response, it is necessary to calculate the sum of squares in ANOVA [6]. In this study, there are several equipment and materials used, namely:

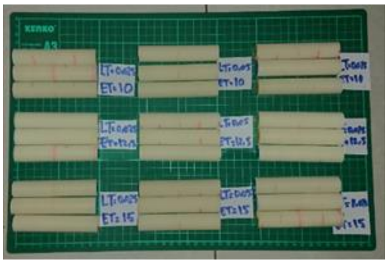
1. 3D Printer Digital Light Processing Technology
2. Laptop
3. Dial Indicator Knuth
4. Autodesk® Inventor® 2019, Education Version
5. Creation Workshop (CW)
6. Design Expert 10 Trial Version
7. V-Block
8. Calipers
9. Liquid Photopolymer Resin

4. RESULTS AND DISCUSSION

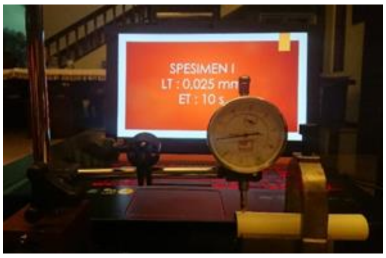
After completing the measurement of the cylindricity testing specimens, data from the measurement results has obtained and then be analyzed to determine the factors that effect on the cylindricity, then the percentage contribution of each factor to the response can be found. In accordance with the basic principles of experimental design, it is applied completely randomly (randomization), namely a design where the treatment is applied completely randomly to the experimental units [19]. The measurement of specimens is carried out in accordance with the measurement design matrix in 3rd Table, with 3 replications and resulting 27 test specimens in 2nd Figure.



a) Testing specimen



b) 27 Testing specimen



c) Cylindricity Measurement

Figure 2 Cylindricity Measurement for specimen.

Table 3. Controlled factor for making testing specimens

Std	Run	Factor 1 A: Layer Thickness (mm)	Factor 2 B: Exposure Time (s)	Response Cylindricity (mm)
25	1	0.025	15	0,082
24	2	0,075	12,5	0,047
15	3	0,075	12,5	0,045
8	4	0,05	15	0,043
5	5	0,05	12,5	0,038
9	6	0,075	15	0,025
18	7	0,075	15	0,02
12	8	0,075	10	0,035
4	9	0.025	12,5	0,039
17	10	0,05	15	0,037
3	11	0,075	10	0,036
11	12	0,05	10	0,05
10	13	0.025	10	0,055
1	14	0.025	10	0,054
6	15	0,075	12,5	0,043
2	16	0,05	10	0,052
22	17	0.025	12,5	0,04
20	18	0,05	10	0,048
14	19	0,05	12,5	0,042
27	20	0,075	15	0,015
7	21	0.025	15	0,085
21	22	0,075	10	0,034
23	23	0,05	12,5	0,04
26	24	0,05	15	0,04
19	25	0.025	10	0,056
13	26	0.025	12,5	0,041
16	27	0.025	15	0,088

From 3rd Table, random test graph data is obtained, as in 3rd Figure as follows:

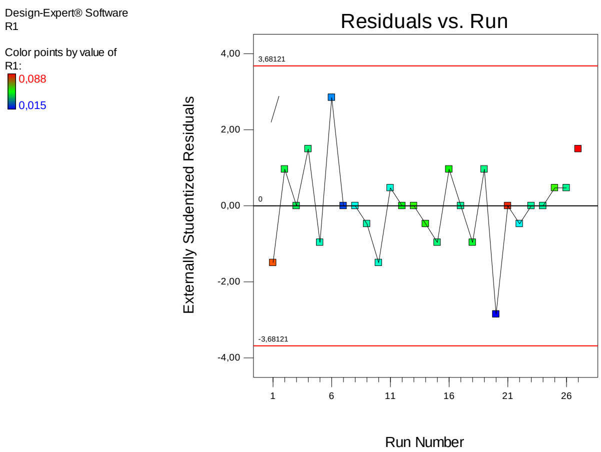


Figure 3 Residual vs Run

From the measurement data in Table 3 and Table 4, the influence of these factors can be analyzed using the analysis of variance (ANOVA) method which assisted by Design-Expert® Trial Version software on the Cylindricity Measurments of testing specimens made using 3D Printer Digital Light Processing technology. The ANOVA results are shown in Table 5.

Based on the results of ANOVA (F count (F0)> F table), then the hypothesis (H0) is rejected, so it can be concluded that the layer thickness, exposure time and their interaction with a confidence level of 95% (□ = 0.05) have an effect on the cylindricity of the testing specimens. Table 5th show that the layer thickness factor provides the largest percentage contribution to the cylindricity of the testing specimen, namely 41%, this value is obtained from the difference between the squares of the exposure time factor and the average squared error divided by the total squares. The percentage value of the contribution of each factors that affects to cylindricity, namely:

layer thickness factor: = ((3,267E-003) -(1,160E-004))/(7,683E-003)= 41%

exposure time factor = ((2,167E-004 - 1,160E-004))/(7,683E-003)=1 %

layer thickness and exposure time factor interaction = ((4,083E-003) -(1,160E-004))/(7,683E-003)=52 %

Table 4. Mean, standard deviation, and the ratio of cylindricity specimens

Name		Units	Min.	Max.	Mean	Std. dev	Obs	Analysis	Ratio
Factor	Layer Thickness	mm	0.025	0.075	0.025	0.02041241			
	Exposure Time	s	10	15	12.5	2.04124145			
Response	Cylindricity	mm	0.015	0.088	0.0456	0.01718974	27	Factorial	5.86667

Table 5. The results of ANOVA from the cylindricity measurement specimens

ANOVA for selected factorial model							
Analysis of variance table [Partial sum of squares - Type III]							
Source	Sum of Squares	Df	Mean Square	F_0	F_{Tabel}	Percentage contribution value	
Model	7,567E-003	8	9,458E-004	146,77	<0,0001	97%	Significant
A-Layer Thickness	3,267E-003	2	1,633E-003	253,45	<0,0001	41%	
B-Exposure Time	2,167E-004	2	1,083E-004	16,81	<0,0001	1%	
AB	4,083E-003	4	1,021E-003	158,41	<0,0001	52%	
Pure Error	1,160E-004	18	6,444E-006				
Cor Total	7,683E-003	26					

The maximum and minimum values obtained from the response based on the actual experimental results can be seen in Figure 4th.

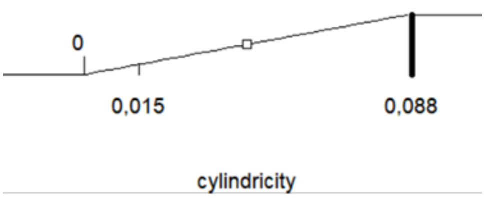


Figure 4 Data Maksimum and Minimum from the response

To get the optimum value of the response with factors layer thickness and exposure time based on the 2-level factorial ANOVA experimental design made with assisted of design expert software can be seen in Table 6.

Table 6. The Optimum results from response

Layer Thickness	Exposure Time	cylindricity	Desirability	
0,075	15	0,02	0,932	Selected
0,075	10	0,035	0,726	
0,075	12,5	0,045	0,589	

5. CONCLUSION

The results of the discussion and analysis in this study can be concluded that:

a) The results analisys Known that the factors of affect to the cylindricity of shaft is layer thickness: 41%, exposure time: 1%, interaction of layer thickness and exposure time: 52%

b) From the analysis of the cylindricity measurements of shaft, the most optimal combination of parameters is layer thickness: 0.075 mm, exposure time: 15 s with a value 0.02 mm on the cylindricity deviation.

ACKNOWLEDGMENTS

The authors acknowledge funding support from State Polytechnic of Sriwijaya. The authors also regard thanks to all civitas academic State Polytechnic of Sriwijaya for motivation and help.

REFERENCES

[1] Setiawan, A. A., Karuniawan, B. W., & Arumsari, N. (2018). Optimasi Parameter 3D Printing Terhadap Keakuratan Dimensi dan Kekasaran Permukaan Produk Menggunakan Metode Taguchi Grey Relational Analysis. Proceedings Conference on Design Manufacture Engineering and Its Application Program, 2654.

[2] Mahamood, S., Khader, M. A., & Ali, H. (2016). Applications of 3-D Printing in Orthodontics : A Review. International Journal of Scientifi c Study, 3(11), 267–270. https://doi.org/10.17354/ijss/2016/99

[3] Satankar, R. K. (2017). Investigating the process parameters of 3D printer extruder of Fused Deposition Modeling- A review. Journal of Emerging Technologies and Innovative Research, 4(10), 1–9.

[4] Romli, Seprianto, D., Putra, D. P., Zamheri, & Rasid, M. (2020). The Effect of Parameters on the Process of Making Objects with Rapid Prototyping Digital Light Processing Technology on the Bending Stress. Journal of Physics: Conference Series, 1500(1). https://doi.org/10.1088/1742-6596/1500/1/012027

[5] Rochim, T. (2010). Teknik Pengukuran (Metrologi Industri). Bandung: Lab Metrologi Institut Teknologi bandung

[6] Seprianto, D., Iskandar, Wilza, R., & Adesta, E. Y. T. (2019). Influence of internal fill pattern, polishing time and Z-Axis orientation on the

tensile strength of the 3D printed part. International Journal of Recent Technology and Engineering, 7(6), 170–174.

[7] Rinanto, A., & Sutopo, W. (2017). Perkembangan Teknologi Rapid Prototyping : Study Literatur. 18, 105–112.

[8] Bourel, D., Beaman, J., Leu, M., & Rosen, D. (2009). 04. RAPID History of AM and 2009 Roadmap. RapidTech 2009: US-TURKEY Workshop on Rapid Technologies, 1–8.

[9] Lu, B., Li, D., & Tian, X. (2015). Development Trends in Additive Manufacturing and 3D Printing. Engineering, 1(1), 085–089. https://doi.org/10.15302/J-ENG-2015012

[10] Kodama, H. (1981). Automatic method for fabricating a three-dimensional plastic model with photo-hardening polymer. Review of Scientific Instruments, 52(11), 1770–1773. https://doi.org/10.1063/1.1136492

[11] Aznarte, E., Ayranci, C., & Qureshi, A. J. (2020). Digital light processing (DLP): Anisotropic tensile considerations. Solid Freeform Fabrication 2017: Proceedings of the 28th Annual International Solid Freeform Fabrication Symposium - An Additive Manufacturing Conference, SFF 2017, 413–425.

[12] Valentinčič, J., Peroša, M., Jerman, M., Sabotin, I., & Lebar, A. (2017). Low cost printer for DLP stereolithography. Strojniski Vestnik/Journal of Mechanical Engineering, 63(10), 559–566. https://doi.org/10.5545/sv-jme.2017.4591

[13] Simm, A., Wang, Q., Huang, S., & Zhao, W. (2016). Laser based measurement for the monitoring of shaft misalignment. Measurement: Journal of the International Measurement Confederation, 87, 104–116. https://doi.org/10.1016/j.measurement.2016.02.034

[14] Water, N. (2018). Vibration Analysis and Infrared Thermography Technique for. 5(1), 76.

[15] Philip J. Ross. (1989). Taguchi Techiques For Quality Engineering. International Edition, McGraw Hill Book Co, New York.

[16] Sudjana. (1994). Desain Dan Analisis Eksperimen. Edisi III, Tarsito. Bandung.

[17] ISO 1101:2017 Geometrical product specifications (GPS) — Geometrical Tolerancing — Tolerances of Form, Orientation, Location and Run-out.

[18] ISO 12180-1:2011 Geometrical product specifications (GPS) — Cylindricity — Part 1: Vocabulary and parameters of cylindrical form.

[19] Seprianto, Dicky, & Wilza, R. (2017). Optimasi Parameter Pada Proses Pembuatan Objek 3D Printing Dengan Teknologi FDM Terhadap Akurasi Geometri. November, 37–49.

4th INTERNATIONAL CONFERENCE

FIRST

FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY (FIRST)

The 4th FIRST 2020

(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)

CERTIFICATE OF APPRECIATION

Present to

INDRI ARIYANTI

in recognition & appreciation of contribution as

Co-Author

FIRST International Conference

"SYNERGY OF APPLIED TECHNOLOGY FOR SOCIAL-TECHNOPRENEUR BASED ON LOCAL RESOURCE TO GENERATE SUSTAINABILITY DEVELOPMENT"

Held on November, 10-11, 2020

Dr. Ing. Ahmad Taqwa, M.T.
Director of State Polytechnic of Sriwijaya

Dr. Rita Martini, S.E., M.Si., Ak., CA.
Chair of the 4th FIRST 2020

Organized By :

Collaborate With :