Engineering Technology and Scientific Journal

Vol.0001, (2019), No.1

Sr No	Title	Page
1.	Afia Biak Hta Dim, Development of Water Quality Index (Wqi) for Rih Lake	1
	in Chin State, Myanmar	
2.	Van Naing Maw, Sanitary Landfill Design of Municipal Solid Waste Disposal	12
	System for Kalay Township	
3.	Thin Myat Myat Moe, Review on Slope Stability of Earthern Yazagyo Dam	23
4.	Swae Ni Than, Study on Stabilization of Expensive Soil with Fly-Ash	30
5.	Nann Thidar, Development of Traffic Control System by using Highway Capacity	39
	Manual for Selected Junctions in Meiktila	
6.	Yadanar Oo, Design of Water Distribution for Mahar Aung Myay Township in	48
	Mandalay	
7.	Lwin Lwin Mar, Water Quality Index of Chindwin River at Monywa	64
8.	Zin Me Thein, Design of Drainage System for the most Ponded Area in Monywa	74
9.	Khin Myo Nwet, Evaluation of Crop Water Requirement for Min Ye Cultivated	
	Area at Kyukse	84
10.	Htay Htay New, Review on Design of Flexible Pavement for Kalaywa-Kyigone	
	Tamu Road	92
11.	Thin Thin Mar, Pulse Compression Methods for Radar Signal Processing	100
12.	Ei Ei Thaw, Design and Simulation of Resorted Island's Impact Network using	
	Cisco Packet Tracer	107
13.	Than Htun Aung, Automatic Plants Irrigation System	116
14.	Wai Mar Soe, Automation Methodology for Buildings	122
15.	Than Htun Aung, Wireless Sequential Control System	131
16.	Shwe Htet Htet Aung, Smart Home Automation System using Bluetooth	138
17.	Phyo Phyo Mon Lin, Implementation of IoT Based Air Pollution Monitoring	
	System	146
18.	Kyaw Thiha, Implementation of Alcohol Detection System	157
19.	Lwin Za Kyin, Design and Implementation of LDR Sensors Based Solar	
	Tracking Control Circuit	167

20.	Aye Myo Thant, Design of Load Compensation with Synchronous Motor	
	(Excitation)	175
21.	Cho Cho Win, Effects of Earth Rods in an Earth Grid of a Substation Earthing	
	System	185
22.	Wah Wah Tun, Design Calculation of Synchronous Generator for Small	
	Hydropower Plant (10 MW)	192
23.	Aye Aye Than, Studying the Effect of Stepped Core on Transformer Efficiency	202
24.	Aung Myo Naing, Design and Analysis of Linear Generator for Wave Energy	
	Conversion	209
25.	Yin Yin Aye, Optimal Design of Solar Home System for Rural Area	222
26.	Thet Mon Aye, Load Flow Analysis of Radial Distribution Network for Loss	
	Reduction with Network Raphson Method using MATLAB	234
27.	Khin Mar Myint, Reliability Improvement by using Protective Devices	245
28.	Lin Ko Ko Myat, Analysis of Overcurrent Protection in Distribution Substation	257
29.	Thuzar Li Soe, Analysis of Protection Against Surge Voltage	268
30.	Moh Moh Lwin, Design and Construction of Inverter	279
31.	Aye Aye Aung, Design Consideration of Compressor Impeller for	
	Turbocharger	289
32.	Tin Pa Pa Tun, Design of Three Blades 600 watts Wind Turbine	295
33.	Khin Myo Swe, Review Research on Fin Tube Consider in Split Type Air	
	Conditioner	303
34.	Ro Hlu Puii, Design of Fuel Injector Nozzle for 4108 Diesel Engine	313
35.	Thu Zar Toe, A Review on Design of Hydraulic Drum Brake for 2007 Land	
	Crusier Model	320
36.	Thwe Thwe Win, Design of 4108 Turbocharger Diesel Engine	328
37.	Aye Aye Myint, Design Calculation of Fuel Injector (2.0Liter Diesel Engine)	336
38.	Thin Thin Lwin, Design and Numerical Analysis of Propeller Turbine with	
	Different Runners	347
39.	Luan Muan Kim, Teaching English Speaking Skills to the Students at	
	Technological University in Kalay: Problems and Solutions	358
40.	Pwint Thinzar Tun, Cross- Cultural Communication	366

41.	Win Ei Thu, Empirical Studies on Technology Integrated in Classroom	
	Teaching and Learning	373
42.	Aung Ye Tun, Design and Construction of Automatic Water Level Controller	
	and Tank Filling Circuit	386
43.	Aye Aye Maw, Significance of Actinide Elements in Thermal Reactors	391
44.	Mar Mar Htay, Calculation of Kinetic Energy of Alpha Particles and Impact	
	Parameters for Various Scattering Angles from Alpha Scattering Experiment	397
45.	Win Win Maw, Measurement of Attenuation Properties of Aluminum and	
	Aluminum Foam for Gamma Shielding	407
46.	Hla Hla Win, The Neutron Single Particle Energy Levels in ${}^{114}_{50}Sn$ Nucleus	414
47.	Hsan Lwin, Nano-Sized PbTiO ₃ Power and Epitaxial Film for Memory	
	Capacitor Application by Hydrothermal Synthesis	421
48.	Khin May Oo, Changing of Colorless to Smoky Color Quartz Sample by	
	Gamma Radiation	427
49.	Moe Min Min Aye, Design and Construction of Infrared Proximity Light Sensor	434
50.	Yin Lae Aung, Design and Construction of Sensitive Sound Switch Circuit	440
51.	San San Mon, Nuclear Separation Energy Levels of ²⁰⁸ Pb	445
52.	Toe Toe Wai, Fabrication and Characterization of Al (8 Mol %) Doped	
	PbTiO ₃ Thin Films for Memories Devices	452
53.	Tun Soe, Capacitance and Voltage Characteristics of $Pb_{1-x} Sr_x TiO_3$	
	($x = 0.11$ mole) Film for Memory Application	459
54.	Zin Min Myat, Synthesis and Characteristics of Lanthanum	
	Manganite Nanoparticles by Co-precipitation Method	466
55.	Nway Han Myat Thin, Growth and Characterization of Cadmium Sulphide	
	(Cds) Films	457
56.	Cherry Aung, Sustainable Development Goal Related with Water Quality	
	Assessments of Nayyitsayar River	484
57.	Aye Myat Thu, Preparation and Application of Chitosan-Corncob-	
	Glutaraldehyde Biocomposite Film	491
58.	Wah Wah Khaing, Greenery of Parkia Speciosa Hassk.(Myauk Ngo)	
	Affected as a Reducing Agent in the Synthesis of Zinc Oxide Nanoparticles	500

59. Thin Naw Aye, Determination of Phytochemical Screening, Determination	
of Phytochemical Screening, Isolation and Partial Structure Elucidation	
of Secondary Metabolite Compound from the Rhizomes of Rhynchanthus	
Longiflorus Hook.f	508
60. Win Min Than, Study on the Removal of Cadmium Heavy Metal by using	
Teak Leaf Powder and Teak Ash	517
61. Thida Lwin, Determination of the Total Fat Contents of Dracontomelon	
Mangniferum Bl.(Nga-Bauk) Seeds	525
62. Yee Wai Phyo, Investigation on the Nutritative Values, Physicochemical	
Parameters of the Farming Land in Kalay Township	533
63. Myint Myint Khaing, Investigation of the Medicinal Uses of Rhodo-Dendron	
Ericaceae (Red Taung Za Lat) Flowers	541
64. Moe Myat Myat, Antimicrobial Activities of Silver Nanoparticles Synthesized	
from Leaves of Quisqualis Indica Lin.	548
65. Mya Thandar Aung, Investigation of Phytochemical Constituents and	
Antimicrobial, Antioxidant and Antiproliferative Activities of Piper Longum	
L.(Peik-Chin)	557
66. Soe Tun Myaing, Phytochemical Screening, Antimicrobial Activity and	
Acute Toxicity of the Stem Brak of Cartoon Oblongifolius Roxb	567
67. Ohnmar Myint, Predicting Water Level over Chindwin River, Kalewa Region	575
68. Bo Htet, Comparison of Solving Initial Basic Feasible Solution for	
Transportation Problems	583
69. Khin Hla Thi, Finding the Shortest-Path between Two Locations	592
70. Win Ko, An Efficient Method for Minimum Spanning Tree Problem	603
71. Ni Ni Win, Application of Markov Chain to the Academic	610
72. Kyaw Myo Hlaing, Some Properties of Entropy	619
73. Sun Sun Myat, Characterization of Semisimple Modules in R-Module	628
74. Aung Kyaw Linn, Conformality of Mobius Transformations and their	
Applications	639
75. Kay Thi Win, Innovation for Critical Point in Stability	646