

CONFERENCE PROGRAMME

Wednesday, August, 7 2019

Time		Agenda
07.30	09:30	Registration
08:15	10:03	Parallel Session 1
10:00	10:10	Opening Ceremony Welcome dance
10:12	10:17	Speech 1: Badan Kejuruan Kimia Persatuan Insinyur Indonesia, BKK-PII. Ir. Ricky Hikmawan Wargakusumah, MH, IPM
10:19	10:24	Speech 2: Sorbonne Universités-UTC Compiègne, France Prof. Jean Louis Batoz,
10:26	10:31	Speech and opening: Universitas Sultan Ageng Tirtayasa, Banten Prof. Sholeh Hidayat
10:33	10:43	Coffee Break
10:45	11:15	Plenary session 1: Chair: Dr. Sri Agustina, Universitas Sultan Ageng Tirtayasa, Banten Keynote 1: Prof. Zenji Horita, Kyushu University Japan Theme: Nanostructural refinement for advanced materials.
11:17	11:47	Keynote 2: Prof. Khashayar Saleh, Sorbonne Universités-UTC Compiègne France Theme: Chemical engineering in the heart of the green car
11.49	12:19	Keynote 3: Poki Chen, National Taiwan University of Science and Technology, NTUST Theme: Maximizing the efficiency of CMOS front-illuminated photovoltaic for self-powered sensor applications
12:21	12:36	Invited speaker 1: Charmeida Tjokrosuwarno, MA, M. Com, MPM, Katama Inovasi Global Theme: Pondasi Ramah Gempa: Konstruksi Sarang Laba-Laba
12.38	14:08	Lunch Break
13:45	15:33	Parallel Session 2
15:35	15:55	Coffee Break
15:57	18:07	Parallel Session 3

Thursday, August, 8 2019

Time		Agenda
08:00	10:10	Parallel Session 4
10:12	10:27	Coffee Break
10:29	10:59	Plenary session 2: Chair: Agus Putu Abiyasa, Ph.D Keynote 4: Prof. Hendro Wicaksono, Jacobs University Bremen Germany Theme: Key preparations for industry 4.0: technologies, business, education, attitude
11:01	11:31	Keynote 5: Prof. Hakim Naceur, Université Polytechnique Hauts-de-France Theme : Recent advances in particle methods for the modeling of computational mechanics problems
11:33	11:48	Invited Speaker 2: Ir. Helmilus Moesa, Candra Asri Petrochemical, Theme: Perkembangan Industri Petrokimia di Indonesia - Tantangan bagi Perguruan Tinggi untuk Penyediaan Teknologi Proses dan SDM Unggul.
11:50	12:20	Keynote 6: Dr. M. Ro'il Bilad, Universiti Teknologi Petronas, Malaysia Theme: Fouling control in membrane processes for sustainable operation: module development approach
12:22	12:37	Invited speaker 3: Refraktori
12:40	14:10	Lunch Break
13:45	15:55	Parallel Session 5
15:57	16:12	Coffee Break
16:14	18:22	Parallel Session 6

➤ Wednesday, August, 7 2019

PARALLEL SESSION 1

Track	Time		Ball room									
			Industrial		Chemical		Civil		Mechanical		Metal & Material	
			Chair: Anna, UGM		Chair: Nufus, UNTIRTA		Chair: Rifky, UNTIRTA		Chair: Bambang, ITS		Chair: Erlina, UNTIRTA	
		Room 1		Room 2		Room 3		Room 4		Room 5		
1	08:15	08:35	FP-256	Asep, UNTIRTA	FP-342	Widya, UNTIRTA	FP-277	Ghefra, UI	FP-371	Erwin, UNTIRTA	FP-339	Faiz, UNTIRTA
2	08:37	08:57	FP-153	Sekar, UGM	FP-370	Lucky, UII	FP-157	Dwi, UNTIRTA	FP-361	Imron, UNTIRTA	FP-347	Henry, ITS
3	08:59	09:19	FP-273	Imam, UII	FP-330	Warda, UNTIRTA	FP-243	Bella, KPP	FP-129	M. Haekal, BSN	FP-220	Fachri, UI
4	09:21	09:41	FP-179	Lely, UNTIRTA	FP-258	Muthia, UNLAM	FP-323	Yoshi, UI	FP-305	Agung, UNTIRTA	FP-164	Ferriawan, UGM
5	09:43	10:03	FP-412	Joko, UII			FP-391	Desy, UI	FP-304	Edisah, UNSYIAH	FP-403	Yeni, UNTIRTA

PARALLEL SESSION 2

Track	Time		Industrial		Industrial 2		Chemical		Civil		Electrical		Mechanical		Metal & Material	
			Chair: Lely, UNTIRTA		Chair: Manik, UNDIP		Chair: Widya, UNTIRTA		Chair: Lita, UI		Chair: Abiyasa, UNDIKNAS		Chair: Erwin, UNTIRTA		Chair: Yeni, UNTIRTA	
			Ballroom 1		Ballroom 2		Room 1		Room 2		Room 3		Room 4		Room 5	
6	13:45	14:05	FP-267	Kulsum, UNTIRTA	FP-337	Hasna, TELKOM	FP-152	Sutarsi, ITS	FP-296	Enden, UNTIRTA	FP-333	Dwi, UI	FP-272	Iman, UNTIRTA	FP-21	Erlina, UNTIRTA
7	14:07	14:27	FP-11	Bertha UGM	FP-329	Nuraida, UNTIRTA	FP-202	Yeni, ITS	FP-116	Gunawan, UI	FP-165	Agus, UNTIRTA	FP-24	Eui soo Kim, KNU	FP-263	Rifai, BATAN
8	14:29	14:49	FP-13	Anna, UGM	FP-160	Sonna, ITH	FP-203	Yeni, ITS	FP-212	Samuel, UI	FP-353	Nurian, UI	FP-292	Nazar, UNDIP	FP-264	Rifai, BATAN
9	14:51	15:11	FP-169	Lintang, UNTIRTA	FP-426	Sugarindra, UII	FP-237	Naya, UI	FP-375	Restu, UNTIRTA	FP-410	Wahyuni, UNTIRTA	FP-414	Rina, UNTIRTA	FP-191	Amalia, UNTIRTA
10	15:13	15:33	FP-280	Harwati, UII	FP-176	Handoko, UI	FP-214	Azhar, UI	FP-425	Wibowo, UNDIP	FP-378	Haidar Ali, UI	FP-33	Syaiful, UNDIP	FP-405	Suryana, UNTIRTA
	15:35	15:55	Coffe break													

PARALLEL SESSION 3

Track	Time		Industrial 1		Industrial 2		Chemical		Civil		Electrical		Mechanical		Metal & Material	
			Chair: Asep, UNTIRTA		Chair: Imam, UII		Chair: Teguh, UNTIRTA		Chair: Lita, UI		Chair: Lily, UK Petra		Chair: Agung, UNTIRTA		Chair: Faiz, UNTIRTA	
			Ballroom 1		Ballroom 2		Room 1		Room 2		Room 3		Room 4		Room 5	
11	15:57	16:17	FP-159	Nabila, ITS	FP-199	Punnatorn, KKKU	FP-144	Firman, ITS	FP-310	Hendrian, UNTIRTA	FP-194	M. Agus, UI	FP-298	Jamila, PUHF	FP-287	Soesaptri, UNTIRTA
12	16:19	16:39	FP-294	Yuli, UII	FP-210	Phatraporn, KKKU	FP-115	Ashaf, UNPAR	FP-217	Farah, UI	FP-367	Fadil, UNTIRTA	FP-107	Husaini, UNSYIAH	FP-319	Adinda, UI
13	16:41	17:01	FP-312	Prima, UNSYIAH	FP-363	Manik, UNDIP	FP-349	Denni, UNTIRTA	FP-221	Demarda, UI	FP-385	Bagus, UI	FP-108	Husaini, UNSYIAH	FP-178	Bening, UNTIRTA
14	17:03	17:23	FP-177	Maria, UNTIRTA	FP-185	Tri, UNTIRTA	FP-351	Medyan, UNSYIAH	FP-369	Andi, UNTIRTA	FP-400	Albert, UWM	FP-302	Hendriko, CALTEX	FP-120	Sugeng, UGM
15	17:25	17:45	FP-321	Wahyu, UNTIRTA	FP-197	Akhamd, SURYA	FP-389	Dhena, UNTIRTA	FP-376	Naniek, UNDIP	FP-381	Arief, UI	FP-193	Bambang, ITS	FP-383	Anis, UNTIRTA
16	17:47	18:07	FP-131	Haekal, BSN	FP-282	Andrie, UII	FP-308	Christian, ITS	FP-299	Wayan, UNTAD	FP-270	Romi, UNTIRTA	FP-25	Bambang, ITS	FP-209	Abdul, UI

➤ Thursday, August, 8 2019

PARALLEL SESSION 4

Track	Time		Chemical		Industrial		Civil		Electrical		Mechanical		Metal & Material	
			Chair: Dhena UNTIRTA		Chair: Asep, UNTIRTA		Chair: Bagus Eratodi		Chair: Supri, UNTIRTA		Chair: SidiK, UNTIRTA		Chair: Saptri, UNTIRTA	
			Ball room		Room 1		Room 2		Room 3		Room 4		Room 5	
1	08:00	08:20	ABS-235	Juliasih, UNILA	FP-390	Retno, TRUNOJOYO	FP-213	Rindu, ITB	FP-320	Suhalni, UNTIRTA	FP-314	Ketut, UNTIRTA	FP-219	Muharam, UI
2	08:22	08:42	FP-222	Lucky, UII	FP-387	Renanto, UI	FP-311	Dwi, UNTIRTA	FP-139	Rocky, Kumamoto	FP-356	Darmanto, UI	FP-230	Didied, UNTIRTA
3	08:44	09:04	FP-274	Anisa, UI	FP-386	Danang, UII	FP-187	Erizka, UI	FP-350	Umar, UI	FP-388	Arif, UMS	FP-241	Rizki, UI
4	09:06	09:26	FP-309	Teguh, UNTIRTA	FP-317	Akbar, UNTIRTA	FP-368	Rama, UNTIRTA	FP-229	Fahmi, UI	FP-402	Agung, UMS	FP-365	Agus, UNTIRTA
5	09:28	09:48	FP-407	Nyoman, UNIPRA	FP-336	Rahayu, UGM	FP-192	Atmy, ITB	FP-211	Cakra, UNTIRTA	FP-408	M. Syahid, UNHAS	FP-15	Putra, UNUD
6	09:50	10:10	FP-279	Yani, LEMIGAS	FP-354	Putro, UNTIRTA	FP-316	Woelan, UNTIRTA	FP-364	Masjudin, UNTIRTA	FP-382	Agus, UNTIRTA	FP-226	Tuti, UI
	10:12	10:27	Coffe break											

PARALLEL SESSION 5

Track	Time		Chemical 1		Chemical 2		Industrial		Civil		Electrical		Mechanical		Metal & Material	
			Chair: Firman, ITS		Chair: Sri, UNTIRTA		Chair: Putro, UNTIRTA		Chair: Mujiya, UNDIP		Chair: Wahyuni, UNTIRTA		Chair: Agus, UNTIRTA		Chair: Rifai, BATAN	
			Ball room 1		Ball room 2		Room 1		Room 2		Room 3		Room 4		Room 5	
7	13:45	14:05	FP-283	Kusdianto, ITS	FP-182	Tri Widjaja, ITS	FP-340	Ade, UNTIRTA	FP-293	Soelarso, UTC	FP-12	Eva, UDP	FP-82	Wayan, UNUD	FP-61	Klodian, PUT
8	14:07	14:27	FP-224	Ilham, LEMIGAS	FP-10	Jabosar, ITERA	FP-324	Ade, UNTIRTA	FP-413	Baehaki, UNTIRTA	FP-17	Lily, UK PETRA	FP-303	Edisah, UNSYIAH	FP-419	Andini, UNTIRTA
9	14:29	14:49	FP-418	Yeyen, UNTIRTA	FP-195	Yustia, ITS	FP-377	Hasna, TELKOM	FP-281	Dadang, UI	FP-37	Supri, UNTIRTA	FP-404	Tjahjani, UMS	FP-8	Lutfi, UI
10	14:51	15:11	FP-138	Setyo, ITS	FP-207	Isnri, UI	FP-133	Fikri, UII	FP-269	Bagus, UNDIKNAS	FP-357	Syarif, UNTIRTA	FP-384	Sidik, UNTIRTA	FP-147	Tri, UNTIRTA
11	15:13	15:33	FP-140	Setyo, ITS	FP-196	Andre, UI	FP-134	Euftrade, UII	FP-411	Bambang UB	FP-397	Heri, UNTIRTA	FP-168	Yasid, UNDIP	FP-240	Calista, UI
12	15:35	15:55	FP-261	Sanggono, ITB	FP-218	Dhiyul, ITS	FP-248	Wahyudi, UII	FP-231	Nyoman, UNUD	FP-367	Fadil, UNTIRTA	FP-186	Nazar, UI	FP-255	Daisman, USAKTI
	15:57	16:12	Coffe break													

PARALLEL SESSION 6

Track	Time		Chemical 1		Chemical 2		Industrial		Civil		Electrical		Mechanical		Metal & Material	
			Chair: Firman, ITS		Chair: Sri, UNTIRTA		Chair: Ade, UNTIRTA		Chair:., UNDIKNAS				Chair: Rocky, Kumamoto		Chair: Rifai, BATAN	
			Ball room 1		Ball room 2		Room 1		Room 2		Room 3		Room 4		Room 5	
13	16:14	16:34	FP-335	Kusdianto, ITS	FP-422	Anton, UNTIRTA	FP-338	Adam, UII	FP-278	Ghefra, UI			FP-343	Dwinanto, INSA	FP-260	Davino, UI
14	16:36	16:56	FP-143	Brario, ITS	FP-374	Irma, UNTIRTA	FP-236	Caesario, UII	FP-163	Zul, UNTIRTA			FP-174	Ichsan, Duisburg	FP-286	Gaton, BATAN
15	16:58	17:18	FP-420	Nufus, UNTIRTA	FP-416	Iman, UNTIRTA	FP-401	Ali, UII	FP-162	Zul, UNTIRTA			FP-137	Adha, UNTIRTA	FP-322	Febrianti, ITS
16	17:20	17:40	FP-205	Effendy, UNESA	FP-414	Alfirano, UNTIRTA	FP-406	Novaldi, TELKOM	FP-344	Rifky, UNTIRTA			FP-392	Untung, UMB	FP-121	Galih, UI
17	17:42	18:02			FP-417	Dhimas, UNTIRTA	FP-427	Chanchard, UII	FP-352	Uri, Duisburg			FP-325	Agus, UMS	FP-124	Putra, UNUD

INDUSTRIAL ENGINEERING

No	ID	Name	Title	Univ
1	FP 11	Bertha Maya Sopha	Identifying Aid Items of Survival Kit for Natural Disasters	UGM
2	FP 13	Anna Maria Sri Asih	Analysis of Coal Allocation on Steam Power Plants and The Effect of Multi-Suppliers, Demand and Time Variations on Coal's Safety Stock	UGM
3	FP 131	M. Haekal Habibie	Risk-Based Thinking on Calibration and Testing Laboratory: Current Challenge in Transition Periode	BSN
4	FP 133	M Fikri Perdana	The Usability of The Educational Board Game for Learning English	UII
5	FP 134	Eufrade Putra	Ergo-Innovative Design of the Assistance Appliance for Slaughtering the Cow	UII
6	FP 137	Muhammad Adha Ilhami	Bibliometric analysis of the term "Three-Dimensional Concurrent Engineering"	UNTIRTA
7	FP 153	Sekar Sakti	A Computerized Measurement System of Machine Performance for A Textile Industry	UGM
8	FP 159	Nabila Yuraisyah Salsabila	A Simulation Study of Availability Analysis on a Chemical Process Industry Considering Spare Part Inventory	ITS
9	FP 160	Sonna Kristina	Minimize Transportation Cost with Clark and Wright Algorithm Saving Heuristic Method With Considering Traffic Congestion Factor	ITHB
10	FP 169	Dyah Lintang Trenggonowati	ORGANIZATION CLUSTERING AIRPORT USING K-MEANS CLUSTERING ALGORITHM	UNTIRTA
11	FP 176	Handoko Purwojatmiko	Evaluation Acoustic Performance in Classroom: A General Factorial Design	UI
12	FP 177	Maria Ulfah	Control of Production Process to Minimize Potential Failures Using Lean Six Sigma and Multi Attribute Failure Mode Analysis Approaches	UNTIRTA
13	FP 179	Lely Herlina	Fuzzy Inference System for Evaluating Supplier in Shrimp Agroindustry	UNTIRTA
14	FP 185	Tri Partuti	Effect Of Online Shopping System On Consumptive Behaviour Of Female Workers In Cilegon Region	UNTIRTA
15	FP 197	Akhmad Sutoni	Analysis of Replacement and Selection of Machines at Rice Milling Plants Using Dynamic Program and Analytical Hierarchy Process (AHP) Methods	Suryakencana University
16	FP 199	Punnatorn Mathong	The development of a tool to assess the quality of service for beverage logistics	Khon Kean University
17	FP 210	Phatraporn Chain	Using Cluster Analysis for Location Decision Problem	Khon Kean University
18	FP 236	Caesario Isak Cornelis	Two Step Optimization of Natural Gas Power Generation Location and Pipe Supply System	UII

19	FP	248	Wahyudhi Sutrisno	Analysis Of Provider Training Business Model Development Based On Canvas Business Model Approach	UII
20	FP	256	Asep Ridwan	Design of Strategic Risk Mitigation with Supply Chain Risk Management and Cold Chain System Approach	UNTIRTA
21	FP	267	Kulsum none	JOB SHOP SCHEDULING USING NON DELAY AND HEIJUNKA INTEGRATION AT PT X (CASE STUDIES OF MANUFACTURING COMPANIES)	UNTIRTA
22	FP	273	Imam Djati Widodo	THE OPTIMAL DESIGN OF ELECTRIC CABLE CONDUCTOR AND INSULATOR RESISTANCE USING TAGUCHI MULTIRESPON METHOD	UII
23	FP	280	Harwati	The Implementation of Green Lean Manufacturing in Small Scale Industry: Reduction Energy Waste and Emission	UII
24	FP	282	Andrie Pasca Hendradewa	Productivity Improvement of Assembly Department By Using Value Stream Mapping and Computer Simulation Approach	UII
25	FP	294	Yuli Agusti Rochman	A Conceptual Framework For Lean Manufacturing Implementation In Small And Medium Enterprises	UII
26	FP	312	Prima Denny Sentia	The Design of Cold Chain Risk Management System of Frozen Tuna Product in Aceh Using Fuzzy Logic	UNSYIAH
27	FP	317	Akbar Gunawan	DESIGNING BASED MARKETING INFORMATION SYSTEMS WITH CMS WORDPRESS IN CV DUTA DHARMA	UNTIRTA
28	FP	321	Wahyu susihono	Total Ergonomics Intervention Perfecting Has-23000 Implementation In The Cake Processing Industry; Case Study In The ” Gipang Tiga Bunda” Cake Industry Of Cilegon City	UNTIRTA
29	FP	324	Ade Irman	Minimizing Makespan on Flow Shop Scheduling Using Campbel Dudek And Smith, Particle Swarm Optimization, and Proposed Heuristic Algorithm	UNTIRTA
30	FP	329	Nuraida Wahyuni	Measurement of E-Service Quality from User Perceptions using the IPA-KANO Integration Model	UNTIRTA
31	FP	336	Rahayu Khasanah	Evaluation of Turnaround Maintenance Practice Effects in the Process Industry	UGM
32	FP	337	Nuraida Wahyuni	Designing Employee Workload Calculation Based on Java-based Full Time Equivalent Method	UNTIRTA
33	FP	338	Adam Mulia	DETERMINATION OF IDEAL WAREHOUSING CAPACITY AND INVENTORY CONTROL OF NPK FERTILIZER RAW MATERIALS (DAP, KCL POWDER, CLAY)	UII
34	FP	340	Ade Irman	Minimizing Makespan on Flow Shop Scheduling Using Campbel Dudek And Smith, Particle Swarm Optimization, and Proposed Heuristic Algorithm	UNTIRTA
35	FP	354	Putro Ferro Ferdinant	Perception of Taxi Online Service Users Toward Women Drivers Based on Kano Models	UNTIRTA
36	FP	363	Manik Mahachandra	Assessing Driver Distraction on Simulated Driving	UNDIP
38	FP	377	Hasna Nurhasanah	An Optimum Condition-Based Maintenance and Spare Parts Provisioning Based on Markov Chains	Telkom University
39	FP	386	Danang Setiawan	Maintenance system design on air jet loom (AJL) machine using Reliability Centered Maintenance (RCM)	UII

40	FP	387	Renanto Pandu Wirawan	Yield Optimization of the Slow Pyrolysis Process of Plastic Waste to Oil Fuel with Factorial Design	UI
41	FP	390	Retno Indriartiningtias	Key Factors of Success Technology Transfer from Higher Education To Creative Industry in Bangkalan, Madura	Trunojoyo Univ.
42	FP	392	Untung Mardono	Design Analysis of Raw Materials Inventory on TC1118 Cloth Products with JIT Approach	Mercu Buana University
43	FP	401	Ali Purkhan	Optimal Design of Mechanical and Physical Quality of Pottery Using TOPSIS Method	UII
44	FP	406	Novaldi	Supply Chain Risk Management Design in Nagoya Ina Engineering With A House Of Risk Model	Telkom University
45	FP	412	Joko Sulistio	Productivity Improvement of Assembly Department By Using Value Stream Mapping and Computer Simulation Approach	UII
37	FP	426	Muchamad Sugarindra	Analysis and Information System Designs of Surveillance Infection Control System in the Hospital	UII
46	FP	427	Chancard Basumerda	Warehouse Server Productivity Analysis with Objective Matrix (OMAX) Method	UII

CHEMICAL ENGINEERING

No	ID	Name	Title	Univ	
1	FP	10	Jabosar Ronggur	Techno-economic Evaluation of Nitrocellulose Production from Palm Oil Empty Fruit Bunches	ITERA
2	FP	115	Asaf Kleopas Sugih	Effect of Different Types of Phosphorylating Reagent on the Synthesis of Modified Tapioca Starch	Parahyangan Catholic Univ
3	FP	138	Setiyo Gunawan	SEPARATION OF CALOPHYLLOLIDE FROM CALOPHYLLUM INOPHYLLUM OIL	ITS
4	FP	140	Setiyo Gunawan	EFFECT OF FERMENTATION TIME ON QUALITY OF MODIFIED GADUNG FLOUR FROM GADUNG TUBER (Dioscore hispida Dennst.)	ITS
5	FP	143	Brario Anindito	Erosion Rate Prediction on The Cyclones Wall at Coal Boiler Plant Using Computational Fluid Dynamics	ITS
6	FP	144	Firman Kurniawansyah	Development of Bamboo-Derived Activated Carbon as Catalyst Support of Glucose Hydrogenation	ITS
7	FP	152	Sutarsi sutarsi	Effect of Operating Condition on Curcumin Extract from Curcuma xanthorrhiza Roxb. using Supercritical Fluid Method	ITS
8	FP	182	Tri Widjaja	Performance of Biogas Production from Coffee Pulp Waste using Semi-Continue Anaerobic Reactor	ITS
9	FP	195	Yustia Wulandari	Kinetic Study of Catalytic Hydrocracking Ceiba pentandra oil to Liquid Fuels over Nickel-Molybdenum/HZSM-5	ITS
10	FP	196	Andre Fahriz	Production of Formic Acid from Oil Palm Empty Fruit Bunch via Dilute Acid Hydrolysis by Response Surface Methodology	UI

11	FP	202	Yeni Variyana	Optimization using Solvent Free Microwave Extraction of Oil from <i>Allium sativum</i> L. Through Microwave Hydrodiffusion and Gravity Technique	ITS
12	FP	203	Yeni Variyana	Optimization of Microwave Hydro-Distillation from Lemongrass Leaves (<i>Cymbopogon Nardus</i>) by Response Surface Methodology	ITS
13	FP	205	Mohammad Effendy	Effect of Interparticle Diffusion on Methane Catalytic Oxidation Performance on Reverse Flow Reactors	UNESA
14	FP	207	Isni Nur Sadrina	Effect of Microwave Assisted Sodium Hydroxide Pretreatment on Hemicellulose Content of Oil Palm Empty Fruit Bunch for Furfural Production	UI
15	FP	214	Azhar Aditya Rahman	Optimization of Microwave Assisted Dilute Ammonia Pretreatment of Oil Palm Empty Fruit Bunch using Response Surface Methodology	UI
16	FP	218	Dhiyaul Helmi Ihsanti	Fischer-Tropsch Process From Synthesis Gas Over Fe-Co/HZSM-5 Catalyst to Produce Biofuel	ITS
17	FP	222	Lucky Wahyu Nuzulia Setyaningsih	Triacetin Production by Selective Esterification of Glycerol over Activated Zeolite and Lewatite as Catalyst	UII
18	FP	224	Ilham Ardatul Putra	DEVELOPMENT OF SIMULTAN QUANTIFICATION OF NONIONIK SURFACTAN IN CHEMICAL FLOODING USING MOBILE 1H NMR	LEMIGAS
19	FP	237	Naya Prakasita Putri	Biosurfactant Screening of <i>Halomonas meridiana</i> BK-AB4 for Microbial Enhanced Oil Recovery	UI
20	FP	258	Muthia Elma	Effect of two stages adsorption as pre-treatment of Natural Organic Matter removal in ultrafiltration process for peat water treatment	UNLAM
21	FP	261	Sanggono Adisasmito	Laterite for Hydrogen Sulphide Adsorption from Biogas	ITB
22	FP	274	Anisa Maulida	Activated Carbon Production by Co-Pyrolysis of Vacuum Residue and Gum Rosin	UI
23	FP	279	Yani Faozani Alli	The Effect of Injection Rate from a Novel Natural-Oil Based Surfactant on the Capillary Number for Reducing Residual Oil Saturation	LEMIGAS
24	FP	283	Kusdianto	Characterizations of Ag doped ZnO nanoparticles via flame pyrolysis method for degradation of methylene blue	ITS
25	FP	308	Christian Julius	Hydrophobic modification of cellulose nanocrystals from bamboo shoots using rarasaponins	ITS
26	FP	309	Teguh Kurniawan	Characterization and Application of Bayah Natural Zeolites for Ammonium Capture: Isotherm and Kinetic	UNTIRTA
27	FP	330	Wardalia	Peanuts Shell As a Color Adsorbent Of Methyl Violet	UNTIRTA
28	FP	335	Kusdianto	The effect of catalyst weight on the photocatalytic performance of ZnO-Ag nanocomposites prepared by flame	ITS
29	FP	342	Widya Ernayati Kosimaningrum	Preparation of Chitosan-Honey-Gelatin-Based Hydrogel for Potential Active Material of Wound Care Dressing Application	UNTIRTA
30	FP	349	Denni kartika Sari	Extraction Refined Carrageenan Using Ultrasonic Irradiation From <i>Kappahycus Alvarezii</i> Originated From Lontar	UNTIRTA

31	FP 351	Medyan Riza	Biodegradable Plastic Production Optimization Using Response Surface Methodology	UNSYIAH
32	FP 370	Lucky Wahyu Nuzulia Setyaningsih	Cellulose Extracted from Water Hyacinth and The Application in Hydrogel	UII
33	FP 389	Dhena Ria Barleany	Utilizing Alginate to Improve Elasticity and Moisture Balance of Polyvinyl Alcohol/Chitosan Hydrogel Wound Dressing	UNTIRTA
34	FP 407	Nyoman Puspa	Transesterification of kapok seed oil (Ceiba pentrandra) using heterogeneous catalyst bimetallic oxide of zinc and copper supported by γ -alumina	UNIPRA
35	FP 418	Yeyen Maryani	Sensors and Mini Photocatalytic Reactor as a Tool for Measure CO2 Gas from the Degradation of the Detergent Active Compound	UNTIRTA
36	FP 420	Nufus Kanani	Synthesis and characterization of PLA-CNC matrix for antidiabetic drug delivery applications	UNTIRTA
37	FP 422	Anton Irawan	Fuel Oil Production from Thermal Pyrolysis of Packaging Plastic	UNTIRTA
38	ABS235	NLG Ratna Juliasih	Exploitation of Biosilica from Tropical Marine Diatom Cyclotella striata	UNILA

CIVIL ENGINEERING

No	ID	Name	Title	Univ
1	FP 116	Gunawan Saroji	Optimization of Income Property Base on Transit Oriented Development Using Hedonic Price Modelling	UI
2	FP 157	Dwi Novi Setiawati	Analysis of Characteristics and Needs of Parking on Sudimara Station of South Tangerang	UNTIRTA
3	FP 162	Zulmahdi Darwis	The Influence of The Use of Horizontal Pegs at Distance of 15 cm to The Shear Strength of The Laminated Bamboo Beam Based On Type of Adhesive	UNTIRTA
4	FP 163	Zulmahdi Darwis	Comparison on Reinforced Concrete Bar Strengthening using CFRP Method, The IWF Bar Support Addition, and Bar Dimension Enlargement	UNTIRTA
5	FP 174	Muhammad Ichsan	Emission Study: estimation and optimization of the voyage Energy Efficiency Operational Indicator (EEOI) on Indonesia Sea Toll-Way corridors	Universität Duisburg-Essen
6	FP 187	Erizka Ramdhiani	The Effect of Mixing Peatland Burning Remains as Fly Ash and Peat Soil on Its California Bearing Ratio Value	UI
7	FP 192	Atmy Verani Rouly Sihombing	Bio-asphalt on Asphalt Mixture containing RAP	ITB
8	FP 212	Samuel Henrina Sundjaja	Comparisons of Direct SPT Methods for Calculating Axial Capacity of Piles in Jakarta Areas	UI
9	FP 213	Rindu Twidi Bethary	Aging Effect Condition on Hot Asphalt Mixtures Marshall (AC-BC) Performance by Using Slag	ITB
10	FP 217	Farah Ayu Ridhani	Application Of Direct Method Cone Penetration Test In Jakarta	UI

11	FP	221	Demarda Kalimanto	Impact of road rehabilitation zone on travel time to road user cost	UI
12	FP	231	Nyoman Budiarta Raka Mandi	The Assessment and Management of Cruise Port for Tourism Destination Development in Bali Island	UNUD
13	FP	243	Bella Fauziah	Performance Evaluation Of Bus Rapid Transit (Brt) Trans Kota Tangerang Service	Kajian Pengembangan
14	FP	269	Bagus Eratodi	Moment Resistance Curve of Laminated Bamboo Connection With Various Plate Connector Under Monotonic Loading	UNDIKNAS
15	FP	277	Ghefra Gaffara	Smart Infrastructure Application in the Development of Indonesia Economic Corridor	UI
16	FP	278	Ghefra Gaffara	Dumai Seatropolis: Port City Approach Implementation	UI
17	FP	281	Dadang Iskandar	Investigation of The Correlation between Drainage Condition and Pavement Performance	UI
18	FP	293	Soelarso	On the finite element bearing capacity analysis of a rib system to be used as shallow foundation construction	UTC
19	FP	296	Enden Mina	UTILIZATION OF SLAG AND FLY ASH FOR SOIL STABILIZATION AND THE THEIR EFFECT TO CALIFORNIA BEARING RATIO (CBR) VALUE	Universitas Sultan Ageng Tirtayasa
20	FP	299	I WAYAN SUTAPA	Study Flood Routing Mamak Dam and Evaluate the River Mamak to Convey the Flood Design, Lombok, Indonesia	UNTAD
21	FP	310	Hendrian Budi Bagus Kuncoro	Experimental Study Of Variation Of Models And Layers In Bamboo's Perpendicular Connection To Fiber With Fiber-Reinforced Polymer (FRP)	UNTIRTA
22	FP	311	Dwi Esti Intari	PERFORMANCE OF ASPHALT MIXTURE (AC-WC) USING THE RICE HUSK ASH AS ADDITIVE ON ASPHALT	UNTIRTA
23	FP	316	Woelandari Fathonah	Stabilization of Clay Using Slag and Fly Ash with Reference to UCT Value (Case Study : Jalan Kadusentar, Pandeglang District – Banten)	UNTIRTA
24	FP	323	Yoshi Dessiani	A Study of Apartments Management in Taman Rasuna Apartments and Kalibata City Apartments, South Jakarta based on the DKI Jakarta Governor Regulation Number 132 Year 2018 concerning in the Management of Owned Apartments	UI
25	FP	344	Rifky Ujianto	DESIGN OF A COASTLINE TOURISM AREA AS A PUBLIC SPACE Case Study: Carita Beach, Pandeglang - Banten	UNTIRTA
26	FP	352	Muhammad Fakhuriza Pradana	A Systematic Literature Review on Maritime Transportation Optimization Using Linear Programming	University of Duisburg Essen
27	FP	368	Rama Indera Kusuma	CLAY STABILIZATION USING FLYASH AND CARBIDE WASTE AND ITS EFFECT ON THE VALUE OF UNCONFINED COMPRESSION TEST (Case Study of National Park Ujung Kulon Road in Pandeglang Regency)	UNTIRTA
28	FP	369	Andi M	Correlation of Reinforced Concrete Quality Based on Variations in UPV Testing Methods	UNTIRTA
29	FP	375	Restu Wigati	Capacity and Performance Evaluation of the Drainage System Jati Pinggir -Petamburan Central Jakarta	UNTIRTA
30	FP	376	Naniek Utami Handayani	The Driver and Barrier of Implementation Green Supply Chain Management (GSCM) in Construction Projects: A Literature Review	UNDIP

31	FP	391	Desy Widya Astuti	TRAVEL BEHAVIOR OF COMMUTER LINE PASSENGER TO STATIONS IN DEPOK CITY	UI
32	FP	411	Bambang Winarta	Numerical Study on Transition to Turbulent Flow beneath Solitary Wave	UNIBRAW
33	FP	413	Baehaki	Experimental Study of Crack Depth Measurement of Concrete with Ultrasonic Pulse Velocity (UPV)	UNTIRTA
34	FP	425	Wibowo		UNDIP

ELECTRICAL ENGINEERING

No	ID	Name	Title	Univ	
1	FP	12	Eva Novianti	DEVELOPMENT WEDDING PLANNER USING EXTREME PROGRAMMING METHOD	Dharma Persada Univ
2	FP	17	Lily Puspa Dewi	Development of an Android document management	UK Petra
3	FP	37	Supriyanto Praptodiyono	Experimental Evaluation of Real-Time Packets Transmission during Vertical Handover Process on Mobile IPv6	UNTIRTA
4	FP	139	Rocky Alfanz	Integrated Micro Tesla Magnetic Sensor for Detecting Photovoltaic Cells Failure	Kumamoto University
5	FP	165	Agusutrisno	Development of Guide Stick Navigation For Blind Person Using Digital Compass and Global Positioning System	UNTIRTA
6	FP	194	M. Agus Budi	Study of Voltage Stability on Photovoltaic Integration into Mandalika Lombok Distribution System	UI
7	FP	211	Cakra Adipura Wicaksana	Comparison of Acceleration Python Library on Design and Implementation of QRS Detection Module from ECG Heart Signal	UNTIRTA
8	FP	229	Fahmi Muhyiddin	Overload Handling of Paiton IBT Using Load and Capacitor Shedding of Bali Subsystem	UI
9	FP	270	Romi Wiryadinata	Design of Linked Sirene for Tsunami Early Warning System Using Telecontrol System (Case Study at PUSDALOPS PB BPBD of Cilegon City)	UNTIRTA
10	FP	320	Ahmad Shulhany	MONOCHROMATIC AND RAINBOW 4-CONNECTIVITY OF SOME SPECIAL GRAPHS	UNTIRTA
11	FP	333	Dwi Riana Aryani	Simulation of Stand-Alone Floating PV and Battery Systems	UI
12	FP	350	Umar Fitra Ramadhan	Influence of Shading to The Output Power of Photovoltaic in Indonesia as a Tropical Country	UI
13	FP	353	Nurian Satya Wardana	Design of Direct Load Control Device and Its Effect on Load Reduction	UI
14	FP	357	Syarif Abdullah	Thinning process algorithms for compound Poisson process having nonhomogeneous Poisson process (NHPP) intensity functions	UNTIRTA

15	FP	364	Masjudin	Text Editor Application to Automate the Format of Writing a Final Project Based on Java Programs	UNTIRTA
16	FP	367	Fadil Muhammad	Chacha Stream Cipher Implementation For Network Security in Wireless Sensor Network (WSN)	UNTIRTA
17	FP	374	Irma Saraswati Irma Saraswati	Increasing Web Server Performance Using the Web Balancing Method	UNTIRTA
18	FP	378	Haidar Ali	Voltage Profile Improvement Analysis during the Loss of Transmission Lines on 150kV Subsystem using Static	UI
19	FP	381	Faiz Husnayain	Synchronous Compensator Analysis of UPFC implementation for optimizing power flow & improving power system stability in Z power system	UI
20	FP	385	Bagus Chandra	Transient stability improvement by FACTS devices: A	UI
21	FP	397	HERI HARYANTO	Design of Monitoring System For Drying and Storage of Shallots	UNTIRTA
22	FP	400	Albert Gunadhi,	Microcontroller-based assistive device for training weak biceps brachii muscle	UWM
23	FP	410	Wahyuni Martiningsih	Design of Wireless Power Transfer using Flyback Converter and Tesla Coils	UNTIRTA
24	FP	416	Muhammad Iman Santoso	Development of the WebGIS Application for Transport Infrastructure Management in the City of Serang	UNTIRTA

MECHANICAL ENGINEERING

No	ID	Name	Title	Univ	
1	FP	24	Eui Soo Kim	Evaluation on Rupture Characteristics of CNG Vehicle Container by Heat Treatment using AUTODYN	KNUT
2	FP	25	Bambang Iskandriawan	Air Purifier Bike Design and Prototype as A Short Distance Transportation Plus An Effort to Downgrade The Level of Air Pollution Concentration in Towns	ITS
3	FP	33	Syaiful	2-D Modelling of Interaction between Free-Stream Turbulence and Trailing Edge Vortex	UNDIP
4	FP	82	Wayan Widhiada	Comparison of the Performance of Robotic Prosthetic Limbs Motion using PID and Fuzzy Logic Control System	UNUD
5	FP	107	Husaini	Failure Analysis in the Pipe of Heat Recovery Steam Boiler Generator (HRSG) at the Gas Refinery	UNSYIAH
6	FP	108	Husaini	FAILURE ANALYSIS IN A CRANKSHAFT PULLEY TRUCK HEAVY DUTY	UNSYIAH
7	FP	129	Muhammad Haekal Habibie	Using Decision Rule in Calibration of Long Gauge Block on The Conformity Assessment Scheme	BSN
8	FP	168	Yafid Effendi	Heat Transfer And Pressure Loss Analysis Of Air Flow Through Heated Cylinders With Concave Delta Winglet Vortex Generators In Rectangular Channel: An Experimental Study	UNDIP

9	FP	186	N Nazaruddin	Electric Power Steering: Overview of Mathematical Model and How Its Difference for Large Vehicle	UI
10	FP	193	Bambang Iskandriawan	Thermal Simulation and Cooling Load Analysis In The Apartment Unit Throughout Building Construction Elevation Review	ITS
11	FP	250	Hans Thiery Tjong	Bicycle Stability Control to Assist Amateur Riders based on Newton Central of Gravity	UI
12	FP	272	Romi Wiryadinata	Data Acquisition for Steel Defect Detection Using Continuous Wavelet Transform	UNTIRTA
13	FP	292	Nazaruddin Sinaga	Numerical Analysis of the Effect of Free Stream Turbulence Intensity on the Aerodynamic Performance of Wind Turbine Airfoils NACA 4415	UNDIP
14	FP	298	Jamila Rahmoun	Investigation on the Micromechanical Modeling of Ductile Fracture of Human Humerus	Politechnic University Hauts-
15	FP	302	Hendriko	Analytical Cut Geometry Calculation for Multi-Pass Rough Milling of a Free Form Surface Machining	Politeknik Caltex Riau
16	FP	303	Teuku Edisah Putra	Locating Damaging Segments in the Acceleration Signal of an Automotive Coil Spring Using the Wavelet Transform	UNSYIAH
17	FP	304	Teuku Edisah Putra	Automotive Suspension Component Behaviors Driven on Flat and Rough Road Surfaces	UNSYIAH
18	FP	305	Agung Sudrajat	DIAMETER CHARACTERISTICS OF PARTICULATE MATTER INDOOR AIR POLLUTION IN FOOD STORAGE BY ELECTROSTATIC PRECIPITATOR	UNTIRTA
19	FP	314	Ni ketut caturwati	Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar distillation plant	UNTIRTA
20	FP	343	Dwinanto Sukamto	Improved value of temperature different on the hotbox for thermal tests	INSA de Strasbourg, France
21	FP	356	Dharmanto	Comparison of Porosity, Oxygen and Carbon Concentration in Stainless Steel Powder Particle using Gas Atomization and	UI
22	FP	361	Imron Rosyadi	Conduit Plasma Atomization Performance Study And Emission Of Exhaust Gas Single Cylinder Diesel Engine Based On Fuel	UNTIRTA
23	FP	371	Erwin	Bioetanol - Solar Using Fumigation And Blending Methods Reduces blade shaft deflection with improved mount design to increase vertical hybrid wind turbine performance	UNTIRTA
24	FP	372	Iman Saefuloh	THE EXPERIMENT OF CORROSION CHARACTERISTIC, HARDNESS AND MICRO STRUCTURE OF API 5L STEEL USING NATRIUM CHLORIDA CORROSIVE MEDIA WITH NATRIUM ACETAT AND NATRIUM NITRIT	UNTIRTA
25	FP	382	Agus Pramono	Comparison of Mechanical Properties on High Strength of Aluminum by Several of Severe Plastic Deformation (SPD) Methods	UNTIRTA
26	FP	384	Sidik Susilo	Mathematical modeling on electromagnetic energy harvesting from vehicle suspension system	UNTIRTA
27	FP	388	Arif Prasetya Kurniawan	Composite Hybrid Made From Corn Skin Fiber, Banana Midrib Fiber and Recycled Polyethylene Terephthalate Plastic	UMS
28	FP	396	Erny Listijorini	Risk Husk Gassification Performance to Decrease Water Content in Liquid Palm Sugar	UNTIRTA

29	FP	402	Agung Setyo Darmawan	Effect of FeSiMg addition in nodular cast iron on strength and toughness	UMS
30	FP	404	Tjahjanti	Study on the Making of Corrosion Resistant Steel (ASTM A36 Steel) Coatings from a Mix of Graphene Oxide+Waterborne Paint	UMS
31	FP	408	Muhammad Syahid	Effect of Pouring Temperature on Mechanical Properties and Microstructures of Aluminium Matrix Composite Strengthened by CNT with Stir Casting Method	UNHAS
32	FP	414	Rina Lusiani	Effect Of Air Fuel Ratio (AFR) On Performance of Gasification Machine TG30-1 Using Water Boiling Test Method On Wooden Powder Biomass	UNTIRTA
33	FP	417	Dhimas Satria	Analysis Of Alpha Type Striling Machine Best Design Selection; Innovation Of Biomass Based Design	UNTIRTA

METALLURGICAL & MATERIAL SCIENCE

No	ID	Name	Title	Univ	
1	FP	8	Lutfy Faluthi Firdaus	Failure Analysis of Tube Reboiler Sour Water Stripper Heat Exchanger in Refinery Industry	UI
2	FP	15	DNK Putra Negara	The Study on Mechanical Properties of Pack Carburized Low Carbon Steel Using BaCO ₃ as Energizer	UNUD
3	FP	21	ERLINA YUSTANTI	Fabrication of Fluorine Tin Oxide Conductive Glass Using Local SnCl ₄ Precursor Dopant Fluorine With Spin Coating Method	UNTIRTA
4	FP	61	Klodian Dhoska	Analysis of Recycled Tire Rubber Modified Bitumen in Albania for Quality of the Road Construction	Polytechnic University of
5	FP	120	Sugeng Slamet	Forging process on gamelan bar tin bronze Cu-25wt.%Sn post casting deformation to changes in microstructure, density, hardness, and acoustic properties	UGM
6	FP	121	Galih Senopati	Microstructure, Mechanical Properties, and Corrosion Resistance of Ti-6Mo-6Nb-xSn Alloys for Biomedical Application	UI
7	FP	124	DNK Putra Negara	Development and Characterization of Activated Carbons Derived from Lignocellulosic Material	UNUD
8	FP	147	Tri Partuti	Effect Of Activation Time The Chicken Feather Activated Carbon On Surface Area Of Pores: Candidate For Hydrogen Storage Application	UNTIRTA
9	FP	164	Ferriawan Yudhanto	Physical and Mechanical Characterization of Polyvinyl Alcohol Nanocomposite Made from Cellulose Nanofibers	UGM
10	FP	178	Bening Nurul Hidayah Kambuna	Effect of temperature on metal phase changes and particle growth results from reduction of ferronickel dust pellet	UNTIRTA
11	FP	191	Amalia Sholehah	Evaluating the Effect of ZnO Stucture on Electrical Properties using Capacitive Sensor	UNTIRTA
12	FP	209	Abdul Aziz Faisal	Characterization of Aluminum Composite Material with Variations of Silicon Nitride Reinforcement Volumes through a Stir Casting Process	UI
13	FP	219	MUHARAM KEMAL ADAM	Characterization of Aluminum Composite Material with Variations of Silicon Nitride Reinforcement Volumes through a Stir Casting Process	UI

14	FP	220	Fachri Munad	Activated Carbon Production Through Co-Pyrolysis of Vacuum Residue and Dehydrated Castor Oil	UI
15	FP	226	Tuti Nur Fitri	The Effect of Nano SiC to AC4B Alloy through a Stir Casting Process	UI
16	FP	230	Didied Haryono	MONITORING COLUMN FLOTATION PROCESS OF SULFIDE ORE USING ELECTRICAL CAPACITANCE VOLUME TOMOGRAPHY (ECVT) WITH PARTICLE SIZE AND AIR FLOW RATE VARIATION	UNTIRTA
17	FP	240	Callista Fatima Larasati	Study of the Influence of Voltage Variation on Electrolytic Plasma Process on Ti-6Al-4V Surface Characteristics for Orthopaedic Implant Applications	UI
18	FP	241	Rizkijanuar Ramadhan Sa	The Role of Etching Surface Treatment of Ti6Al4V Alloys on Hydroxyapatite Coating on Substrate Surfaces by Electrophoretic Coating Method	UI
19	FP	255	Daisman Purnomo Bayyu	Tool-Narayanaswamy-Moynihan Simulation on Crystallized Zr60Cu25Ni5Al10 Amorphous Alloy	USAKTI
20	FP	260	Davino Aditya Dwinanda	THE EFFECT OF SILICA FUSED ADDITION AS FILLER ON ZIRCON BASED REFRACTORY COATING	UI
21	FP	263	Muhammad Rifai	Effect of Stored Energy on Corrosion Fatigue Properties of Ultrafine Grained Fe-20%Cr Steel by Equal Channel Angular Pressing	BATAN
22	FP	264	Muhammad Rifai	Morphology and Physicochemical Properties and the Gelation Process of Ceria Stabilized Zirconia as Surrogate Material of High-Temperature Reactor Fuels	BATAN
23	FP	286	Gatot Trimulyadi Rekso	Synthesis of Ag nano-chitosan in lactic acid solvent by irradiation method	BATAN
24	FP	287	Soesaptri Oediyani	Optimization of flotation columns to provide added value of local sphalerite ore	UNTIRTA
25	FP	319	Adinda Dita Dwi Lestari	the Characteristics of Aluminum AC4B Composites Reinforced by the Fraction Volume Variations of Boron Carbide Through the Stir Casting Process	UI
26	FP	322	Febriyati Puspasar	Effect of Shear Rate in High Shear Mixing Process on The Structure of Cassava Starch Granule and Reducing Sugar Product	ITS
27	FP	325	Agus Dwi Anggono	Development of biodegradable plastic made from recycling of polypropylene (PP) with corn stalks powder	UMS
28	FP	339	Rahman Faiz Suwandana	Probing the adhesion behaviour of graphene via a viscoelastic stamping technique	UNTIRTA
29	FP	347	Henry Wicaksana	Influence of Temperature and Citric Acid Presence on Impurities Removal of Spent Catalyst from Naphtha Hydrotreater (NHT) Unit by Ultrasound Method	ITS
30	FP	365	Agus Pramono	Effect of Pressure Distribution on Hydroxyapatite (HAp) based Hybrid Composites made from the milkfish bones (chanos-chanos forsk) Composites made from the milkfish bones (chanos-chanos forsk)	UNTIRTA
31	FP	383	Anistasia Milandia	Effect of Heat Energy To Iron Direct Reduction Process	UNTIRTA
32	FP	403	Y M Zulaida	The Effect of Electrolyte Concentration and Electric current on the Quality of Surface Colouring on Anodized Aluminium	UNTIRTA
33	FP	405	Suryana	Fabrication and Characteristics of Aluminium Matrix Composite (AMC) Reinforced Graphite by Stir Casting Method for Automotive	UNTIRTA
34	FP	414	Alfirano	Microstructural and mechanical characterization of as-cast Co-Cr-Mo alloys with various content of carbon and nitrogen	UNTIRTA
35	FP	419	Andinnie Juniarsih	Study on Direct Reduction Process of Cylindrical Briquetting Hematite	UNTIRTA