Table of Contents

Message from Chair	iii
Welcome Speech from Rector of Universitas Muhammadiyah Surakarta	iv
Table of Contents	vi
Organising Committee	v
The Relationship of Self-Directed Learning Readiness and Learning Motivation Towards Learning Achievement of First Year Medical Students N Juni Triastuti	1
Enhancing the Value Care of Lung Cancer Treatment for Medically Underserved Population in Kentucky Morita Sari, James. W. Holsinger Jr, Sarah Wackerbarth, Richard Ingram	17
Underwater Archaeological Museum: Utilization of Karimunjawa Sites St. Prabawa Dwi Putranto, Prof Agus Aris Munandar	28
Manufacturing Performance: Industrial City to Superior in Competitive Advantage Sri Sarjana, Nur Khayati	38
Spirituality as a Resource of Family Virtue and Well-Being: Religion Diversity Perspectives Nisa Rachmah Nur Anganthi	56
Kinetic Models for the Sorption of Methylene Blue From Aqueous Solution by Molecularly Imprinted Polymers Muhammad Ali Zulfikar, Henry Setiyanto	71
Multiplatform-Based Educational Game of Islamic History in Walisongo Era Khoirun Nisa, Endah Sudarmilah	82
Edugame of Traditional Dance of Indonesia with Augmented Reality Nurul Ustia, Endah Sudarmilah	97
The Potency of Kitolod (<i>Isotoma longiflora</i> (L)Presl.) Herb Extract as a Cure for Cervical Cancer: an in Vitro Study of Hela Cells Atikah Hapsari, Dhinar Asti, Selviana, Ria Hidayati, Novea Kumalla, Andi Suhendi	109
Antioxidant Activity of Nanoemulsion Gel of Rambutan Fruit Peel Extracts (Nephelium Iappaceum L.) Using Dpph and FTC Method Muhtadi, Riyan Eko Hartanto, Erindyah Retno Wikantyasning	115

Lap Joint Carbon Steel ST 37 and Aluminum 6061 with Friction Stir Welding (FSW) Widia Setiawan, Djarot B. Darmadi, WahyonoSuprapto, Rudy Soenoko	124
Comparison of Fracture Resistance between Prefabricated and Fabricated Fiber Reinforced Post Systems on Different Post Canal Width Noor hafida Widyastuti, Wignyo Hadriyanto, Ema Mulyawati	135
Role of TNF-a in Diabetic Ulcer Healing Process Fahrun Nur Rosyid	142
CFD Development for Multiphase Flows in HZDR Ryan Anugrah Putra, Dirk Lucas	150
Antibacterial Activity of Ethanolic Extract of Leaves and Bulb of Allium sativum Linn. against Shigella sonnei Dewi Sacharina, Safitri Nur Anggraeni, Suci Miranda Asmitha, Deandra Nobela, Ika Trisharyanti D.K.	161
Combination of Mobile Infrastructure Based Routing Protocol and RSU-Advertisement Routing Protocol in Urban VANET Dedi Gunawan, Yusuf Sulistyo Nugroho	167
A Creative Teacher for Problematic Students: An Individual Psychological Study on Freedom Writers Movie Abdillah Nugroho	174
Poe's Perspective of Beauty as Reflected In "Ligeia" Sumayah	185
Implementation of Multicultural Education In Indonesia Between Expectations and Reality Suyahman	202
Boosting the Tertiary Students' Participation in Research Class through Group Investigation Teaching Model Suwartono	216
Decision Tree Induction for Classifying the Cholesterol Levels <i>Yusuf Sulistyo Nugroho, Dedi Gunawan</i>	231
Hotel Reservation System Using Daily Language to Optimize the Hotel Occupancy Hernawan Sulistyanto, Nurgiyatna	241
The Perception of Geography Teacher Candidates on the Board Game as a Media to Increase Learning Interaction Quality Harsono, Tri Nur Wahyudi, Zaid Ali Wardana	250
Use of Milk Goat Yogurt Lowering Uric Acid, Cholesterol and Blood Glucose Sujono, Bekti, Hikmawan, Saga, dan Yuananda	257

Pedagogical, Personality, Social and Professional Competence in Correlation with Teachers' Performance (Correlational Study of Junior High School Teacher at SMPN 3 Purwokerto) Tukiran Taniredja, Muhammad Abduh	264
Web-Based Application for Single Elimination Tournament Using Linear Congruential Generator Aris Rakhmadi, Nugroho	273
EXPLORING CYBERBULLYING AMONG HIGH SCHOOL STUDENTS IN SURAKARTA	286
Aniq Hudiyah Bil Haq, Permata Ashfi Raihana and Eny Purwandari Study on the Relationship between Blood Glucose Control and Diabetic Foot Ulcers at Dr. Moewardi Hospital of Surakarta Okti Sri Purwanti, Krisna Yetti, Tuti Herawati, Agus Sudaryanto, Daryani	296