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Soggetti	MATHEMATICS / General
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Nota di contenuto	Frontmatter -- Table of Contents -- Low-temperature sugarcane bagasse ash as additive materials for mortar applications -- Antibacterial activity of ethanolic extract of sintrong leaves in inhibiting the growth of Escherichia coli causes diarrheal disease -- Analysis of the anatomical characteristics of the modified spermatohyte plant organs -- Antibacterial activity of durian peel ethanol extract in inhibiting the growth of pathogenic bacteria -- Antioxidant, antibacterial activity and identification of bioactive compounds from the ethanol extract of gagatan harimau leaves (Vitis gracilis BL) -- Potential of medicinal plants in the forest of Bukum Village, Sibolangit district, Deli Serdang regency, North Sumatera province -- Phytoremediation of mercury waste (Hg2+) using plant vetiver (Vetiveria zizanioides) with concentration variation -- Effect of lime essential oil on massage on the counting of leukocyte and thrombocyte after exercise for athletes -- Lactate Dehydrogenase (LDH) response on treated using combination lime essential oil and sports massage -- Effects of red betel leaf (Piper crocatum Ruiz & Pav) extract on leucocyte as an inflammation response in rats -- Antioxidant potential of moringa leaf (Moringa oleifera) in reducing creatine kinase levels in male rats that received heavy physical exercise -- The effect of consumption of salak Sidempuan juice and heavy exercise on red blood

cells and hemoglobin in rats -- Ethnobotanical study of the Zingberaceae family in sibolangit subdistrict, north sumatra -- Effect of consumption of branched chain amino acid on fatigue and muscle damage on physical activity – metanalysis -- Growth performance and proximate composition of meat and shell from snails (Achatina fulica) fed with household organic waste -- Characteristics of chitosan from shells of snail (Achatina fulica) fed with organic waste -- The effect of giving jamu TELAKU on creatine kinase levels in strenuous physical exercise -- Influence of rootone F to growth cuttings bud andaliman (Zanthoxylum acanthopodium DC) at plant cultivation the quality of export -- Viability and Activity of Lactobacillus acidophilus in Fermented Milk with the Addition of Horn Banana Flour -- Implications of project based learning on protist materials toward students' independence learning and learning outcomes -- The ability of biology students' science process skills on the material of protist -- Literacy ability of biology education students through the implementation of biology teaching and learning strategy textbooks -- In vitro pineapple (Ananas comosus L.) growth induction from Sipahutar, North Sumatra with addition of coconut water and plant growth regulator -- Improving used cooking oil quality with adsorption of Fe-Cu activated carbon derived from oil palm empty bunches -- Optimization of oil palm empty bunches as modification adsorbent to reduce TSS in water treatment -- Ethanol extract of frankincense gum (Styrax benzoin) -- Optimalization of Phosphate Modified Bio-sorbent of Oil Palm Empty Fruit Bunches for Ammonia Removal -- Synthesis and characterization of derived oil palm empty fruit bunches activated carbon with alginate and Fe -- Analysis of Fe metal adsorption in well water using natural biosorbent from corn leaves waste -- Biodegradation of polyblend plastic films polystyrene with poly(-valerolactone) obtained from synthesis on landfill soil media -- Antioxidant activity of secondary metabolites of toba frankincense leaves (STYRAX Paralleoncomud PERK) by DPPH radical as scavenging -- Enhancements in crosslinks level, stiffness, strength, and elasticity of natural rubber/silica composite via using an aptes-silane agent -- The compounds of natural rubber-silica-aptes silane: an observation on curing, filler dispersion, crosslinking and morphological behaviors -- Nitrogen mineralization of two different reclaimed-mining soils treated with organic matter and coal-fly ash -- Identification and anti-cancer activity of polar isolates leaf of coffee parasite (Scurulla ferruginea (roxb. ex jack) danser -- Synthesis of silica coated nanomagnetite ethylene diamine tetra acetic acid functionalized -- Silica coated nanomagnetite as crystal violet dye adsorbent -- Eliminating misconception on solubility and Solubility Product Constant (Ksp) using ECIRR learning model -- Preservice chemistry students' responses to small scale chemistry workshop -- Development of chemoentrepreneurship (CEP) based learning module on colloidal system material for high schools -- Analysis of Product Dimension Creativity Competency Through Green Chemistry Project Based Learning in the Independent Curriculum -- The development of project-based learning resources to build higher order thinking skills in teaching isolation and purification of alkaloid compounds -- Effects of Guided Inquiry Learning Models in Improving Students' Scientific Process Skills and Learning Outcomes for Thermochemical Materials -- Development of e-module organic chemistry learning case method-based to improve student HOTS -- Development of e-learning physical chemistry CBT integrated to improve students' chemical literacy -- Mapping risk zones of Covid 19 diseases in north sumatera based on geographic information system with codeigniter -- Road network analysis in Medan city using Floyd-Warshall algorithm for route

optimization based on GPS -- Implementation of North West Corner (NWC) Method and Modified Distribution (MODI) method in optimizing fish distribution costs in CV. horizon group sibolga -- Mathematical model building for pandemic COVID-19 with factor of Applying Restrictions on Community Activities (ARCA) -- Determinants of non-square matrices -- Optimal control model for biological wastewater treatment in facultative stabilization pond -- Analysis of survival for cox proportional hazard regression time to correct COVID-19 patients -- Frieze group application in the development of north sumatra batik motifs -- Development of animation-based electronic student worksheets with realistic mathematics learning approach -- The effect of using e-books to increase student's mathematics problem-solving ability -- Digital literacy-based module to enhance students' online self-directed learning -- Feasibility test of micro learning-based digital modules in association and logic courses -- The effectiveness of microlearning to enhance research skills for pre-service mathematics teachers -- The development of digital module: project-based learning activities in regression and variance analysis courses -- Application of statistical method teaching materials assisted by the SPSS program through student-centered learning to improve understanding ability -- Teachers' conceptions on the use of technology to develop students' creative thinking in mathematics: evidence from moderated forum group discussions -- Development of a virtual learning environment based on mathematical discourse to support critical thinking skills for junior high school students -- The effectiveness of mathematics learning in the context of malay culture based on student curiosity -- Improving self-regulated learning through the wolfram alpha in mathematics learning -- Exploration of javanese culture in mathematics learning the junior high school -- Mathematical literacy: a bibliometric analysis -- Validation of teaching material of variance analysis aided by R software -- Learning mathematics using autograph for review based on students' mathematic communication ability -- Stability analysis of modified SEIQR on dynamics of SARS-CoV-2 with control on vaccination, quarantine and international in-out mobility in Indonesia -- Analysis of students' numerical literacy ability test based on Barus coastal culture -- Designing a geometry learning media based on augmented reality and mathematical literacy -- Improving student's graduate quality through development student programs based on information and communication technology -- TPACK-based scaffolding development to improve students' critical thinking skills -- The differential equation digital book development assisted by explainer video to improve students' critical thinking skills -- Designing digital book as a mean to support students mathematics learning at university -- Team-based project and case method as strategy to develop students' critical and creative thinking abilities -- Improving student's mathematic literacy with discovery learning model based on culture -- The development of student worksheets based on the case method to improve the competence of prospective teachers in creating constructivism-based learning media -- Analysis of students' errors in solving mathematical problems based on high-level mathematical thinking skills on the topic of geometric transformations -- Development of mathematics learning tools based on Science, Technology, Engineering, and Mathematics (STEM) oriented to assessment curriculum 2013 -- Metacognitive approach based on students' cognitive conflict in understanding the concept of hyperbolic geometry and elliptic -- The Analysis of Mathematics Communication Skills Test Based on Karo Culture: A Rasch Model and SPSS -- The difference of students’ mathematical concept understanding ability by

using discovery learning and group investigation in SMK multi karya -- Expert judgement of informal statistical reasoning test quality: a many-facet rasch model analysis -- The validity of information technology and data literacy courses materials to improve digital literacy skills for physics students -- Implementation of tudiamipa as an alternative to online learning -- Development of ailo-phy (android-based interactive learning media for physics) learning applications on optical materials -- Students' scientific argumentation on stationary and traveling wave material through EBM-assisted PJBL-STEM-FA -- Feasibility test of whiteboard animation based learning multimedia on work and energy material -- Building student's critical thinking skill with stem integrated problem based learning model through hybrid learning assisted by formative assessment on heat and temperature topic in the covid-19 pandemic era -- Improving Scientific Argumentation Skills through PBL-STEM with Virtual Simulation Media on Impulse-Momentum Topic -- Development of student worksheet utilise a scientific approach use the virtual phet laboratory on Dynamic Electricity Material -- Development of stellar augmented reality as a visualization of the wien's displacement -- Development of computer-assisted interaction diagrams to improve student's understanding of newton's laws -- Development virtual laboratory based on augmented reality for basic concept of physics and chemistry course for elementary teacher student -- Implementation of project-based active learning to improve occupational safety and health competencies for automotive engineering education students -- Profile of Technology Pedagogical Content Knowledge-21 (TPACK-21) on pre-service science teacher in microteaching course -- The development of university cooperation governance tools to support the achievement of key performance indicators -- Professional development in enhancing teachers' digital competence: a systematic literature review -- The effectiveness in implementation of blended learning based scientific on natural science learning outcomes -- Preservice science students' ability in constructing assessment of photosynthesis based on bloom, krathwohl, and dyer's taxonomy -- Green digital marketing: feasibility of project based learning module to promote science pre-service teachers' entrepreneurial skills -- Project-based entrepreneurs learning model's efficacy and effectiveness on students at the State University of Medan -- Pre-service science teachers' perception toward STEM education

Sommario/riassunto

This is the ninth time we are hosting this seminar and we are proud to inform you that this seminar is an annual event in our calendar and has been held every year since 2014. This year, for the third year, we are holding it via Zoom meeting (online meeting) due to Covid-19 pandemic. We are inviting internationally recognized speakers from several countries to share their latest discoveries in the fields of Biology, Chemistry, Physics, Mathematics and Science Education. Well-known researchers in science and science education will share their experiences and knowledge so that we can stay up-to-date with the latest information. This is one of the goals of this seminar. As science researchers, we realize the importance of information exchange among us. The new information enlightens our minds and gives us ideas on what to do next in our research and how to do it. This new information often becomes the foundation for our next project in particular and sets the research trends for the upcoming year in general. Information exchange also keeps us updated, allowing us to give and receive suggestions and critiques that will lead to better results. Therefore, we need a forum where we can share and exchange information. Seminars, conferences, and other scientific gatherings are the media through which we can do this. Organizer Faculty of Mathematics and Natural

Sciences of Universitas Negeri Medan Where Web Seminar via Zoom Meeting When Tuesday, 8th November 2022 Theme The development of industrial-based research in science and science education to improve research innovation strategy Topics: AISTSSE-2020 included following topics: 1. Mathematics Science 2. Mathematics Education 3. Physics Science 4. Physics Education 5. Biology Science 6. Biology Education 7. Chemistry Science 8. Chemistry Education 9. Computer Science 10.Science Education Scientific Committee 1. Prof. Dr. Syawal Gultom, M.Pd, Universitas Negeri Medan (Indonesia) 2. Prof. Dr. Marleen Kamperman, University of Groningen (Netherland) 3. Prof. Manihar Situmorang, M.Sc., Ph.D , Universitas Negeri Medan (Indonesia) 4. Prof. Tsunenori Mine, School of Engineering, Department of Electrical Engineering and Computer Science, Kyushu University (Japan) 5. Prof. Dian Armanto, M.Pd, Universitas Negeri Medan (Indonesia) 6. Prof. Dr. Herbert Sipahutar, M.Sc , Universitas Negeri Medan (Indonesia) 7. Prof. Abedel Karrem Nasser M Alomari Department of Mathematics, Faculty of Science, Yarmouk University (Jordan) 8. Prof. Dr. Bornok Sinaga, M.Pd , Universitas Negeri Medan (Indonesia) 9. Prof. Dr. Muhammad Sattar Rasul Universitas Kebangsaan Malaysia, (Malaysia) 10. Prof. Motlan, M. Sc., Ph.D , Universitas Negeri Medan (Indonesia) 11. Prof. Dr. Asmin, M. Pd , Universitas Negeri Medan (Indonesia) 12. Prof. Dr. Fauziyah Harahap, M.Si, Universitas Negeri Medan (Indonesia) 13. Prof. Dr. Mukhtar, M.Pd , Universitas Negeri Medan (Indonesia) 14. Prof. Dr. Pargaulan Siagian, M.Pd , Universitas Negeri Medan (Indonesia) 15. Prof. Dr. Sahat Saragih, M.Pd , Universitas Negeri Medan (Indonesia) 16. Prof. Dr. Edi Syahputra, M.Pd , Universitas Negeri Medan (Indonesia) 17. Prof. Dr. Hasratuddin, M.Pd , Universitas Negeri Medan (Indonesia) 18. Prof. Dr. Ramlan Silaban, M.Si, Universitas Negeri Medan (Indonesia) 19. Prof. Dr. Retno Dwi Suyanti, M.Si , Universitas Negeri Medan (Indonesia) 20. Prof. Dr. Nurdin Bukit, M.Si , Universitas Negeri Medan (Indonesia) 21. Prof. Dr. Sahyar, M.

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