

## The 3<sup>rd</sup> International Conference on Mathematics and Science Education (ICoMSE) 2019

### PARAREL ROOM SESSION (TUESDAY, 27 AUGUST 2019)

ROOM : 1

MODERATOR : Safwatun Nida, S.Pd., M.Pd

Time	Presenter Name	Code	Title
13.00 – 13.10	Yusi Arisandi	CE-008-052-D SA-AA47	The Relevance Of Learning Chemistry In Vocational High School
13.10 – 13.20	Nina Adriani	CE-018-115-D GA-AA70	How the Nature of Science (NOS) was introduced by High School Chemistry Textbooks
13.20 – 13.30	Safwatun Nida	CE-029-198-D GA-AA134	The Palm Oil Controversy: an Example of a Socio-scientific Issue as a Context in Teaching Science Concepts and Educating Future Citizen in a Global World
13.30 – 13.40	Zamakhsyari	CE-034-219-D SA-AA167	Fostering Ill-structured Problem Solving Skill of Chemistry Students using Socioscientific Issues as Learning Contexts
13.40 – 13.50	Margaret Pandaleke	CE-048-346-D GA-AA343	Flipped Classroom : New Way for Increase Critical Thinking Skill in Chemistry Courses
13.50 – 14.00	Ediyanto	SE-009-099-ISA- AA114	The Challenges of Indonesian Science Teachers in Teaching Students With Special Educational Needs in Inclusive School
14.00 – 14.10	Mohammad Amiruddin	SE-030-225-D GA-AA170	The Work of Informal Environment in Language Learning
14.10 – 14.20	Faisal	BE-001-012-ISA- AA137	Analysis of Government Funded Research in Indonesia from 2014-2018: Implications for Research Trends in Science Education
14.20 – 14.30	Ahmad Kamal Sudrajat	BE-017-104-D SA-AA78	Is it Important to Develop Critical Thinking and Collaboration Skills for Prospective Teacher-Students?: Students' Perspective
14.30 – 14.40	Herawati Susilo	BE-025-129-D GA-AA73	Development of 21st Century Skills at the Senior High School: Teachers' Perspective
14.40 – 14.50	Eka Imbia Agus Diartika	BE-056-262-D SA-AA252	Study of Learning Problems in Waste Management Topic (Case Study in Biology Study Program, State University of Malang)
14.50 – 15.00	Rifka Fachrunnisa	BE-041-185-D GA	Spaces to Spur Renewable Energy-Literate Students in the Indonesian Junior and Senior Secondary Schools' Science Curriculum: A Meta-Analysis
15.00 – 15.10	Musah Aminu	BE-076-363-IGA- AA333	The Role of Extensive Biology in Nigerian Colleges of Education Curriculum Among Undergraduates; A Case Study of F.C.E (T) Potiskum, Yobe State
15.10 – 15.20	Syaiful Hamzah Nasution	ME-003-008-D GA-AA211	Mathematical Writing Communication Skills with Open-Ended Approach through Interaction Design on the Peer Assessment Learning Model
15.20 – 15.30	Wasilatul Murtafiah	ME-017-060-D GA-AA87	Exploring the Types of Problems Task by Mathematics Teacher to Develop Students HOTS
15.30 – 15.40	Cholis Sa'dijah	ME-067-230-D SA-AA183	Analysis of Mathematical Literacy Test as a Problem-Solving Ability Assessment of Junior High School Students

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15.40 – 15.50	Hendro Permadi	ME-076-269-DGA-AA216	Building Student Critical Thinking Ability Through the Peer Assesment Learning Model on Calculus with the Open Ended Approach
15.50 – 16.00	Hendro Permadi	ME-076-269-DGA-AA217	Application of Peer Assessments Learning Model to Build Student's Creative Thinking Skills in Calculus Materials with the Open Ended Approach
16.00 – 16.10	Hendro Permadi	ME-076-269-DGA-AA218	Oral Mathematic's Communication Skill in The Application of Peer Assessment Learning Model
16.10 – 16.20	Purwanto	MA-016-299-DGA-AA258	Negative Scoring of Multiple Choice Tests

**ROOM : 2**

**MODERATOR : Dr. Muntholib, M.Si**

Time	Presenter Name	Code	Title
13.00 – 13.10	Muntholib	CE-021-146-DGA-AA95	Development And Implementation Of Multiple-Choice Chemical Literacy Survey In Acid-Base Chemistry
13.10 – 13.20	Hayuni Retno Widarti	CE-026-193-DGA-AA131	Implementation Questions of Learning Outcome Assessment Based on Curriculum 2013 in Chemistry Twelve Classes for Senior High School in Malang
13.20 – 13.30	Muntholib	CE-032-209-DGA-AA146	The Development of Higher Order Thinking Skills Oriented Test on Acid-base Chemistry for 11 <sup>th</sup> Grade Students
13.30 – 13.40	Parlan	CE-040-259-DGA-AA230	Development of Four-Tier Diagnostic Test for Identifying Misconceptions in Chemical Equilibrium
13.40 – 13.50	Muntholib	CE-022-167-DGA-AA281	Development of Multiple Choice Tes to Assess Senior High School Students' Chemical Literacy on Topic of Properties of Salts
13.50 – 14.00	Das Salirawati	CE-047-343-DGA	The Quality Analysis of Chemistry Item In Final Semester Examination for Tenth Graded Vocational Student Majoring in Computer and Networking Engineering in Bantul Regency
14.00 – 14.10	A Halim	PE-041-245-DGA-AA203	Development of Diagnostic Concept Maps for Identification of Students' Misconceptions
14.10 – 14.20	Khusaini	PE-056-329-ISA-AA300	An Investigating of the Factors Affecting Physics Performance Indonesian Students Based on TIMSS 2011 Dataset
14.20 – 14.30	Ediyanto	SE-009-099-ISA-AA115	Post-Learning Cycle A Web-Based Formative Assessment Model on Physics Learning Temperature And Heat Matter for Vocational School Students
14.30 – 14.40	Rinta Dian Pratiwi	SE-025-186-DGA-AA124	Analysis and Profile of Students' Creative Thinking Skills Using Open-Ended Multiple-Choice Test
14.40 – 14.50	Mahda Yulia Astary	SE-037-303-DGA-AA262	Web Based Formative Assessment Integrated in Science Learning to Improve Students' Concept Understanding

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14.50 – 15.00	Izmi Latifa Navida	BE-014-088-DSA-AA165	Developing of Cognitive Test Instruments Based on Scientific Literacy on 'Coordination System' Learning Material in SMAN 1 Kepanjen
15.00 – 15.10	Rachma Ayu Fauziah	BE-028-133-DSA-AA156	The Development of Performance Assessment to Measure Science Literacy Skills on Circulatory System's Lesson in XI Grade of Senior High School 5 Malang
15.10 – 15.20	Koko Murdianto	BE-013-079-DGA-AA222	Explaining the Application of Illinois Critical Thinking Essay Test in Inquiry-Based Learning to Measure Student's Critical Thinking Skills: A Classroom Action Research
15.20 – 15.30	Lelly Luckitasari	BE-013-079-DGA-AA224	Developing Of Assessment Instruments Based On Science Literacy In Guided Inquiry Learning On Plant Diversity Materials To Measure Student Learning Outcomes At Senior High School 1 Srengat
15.30 – 15.40	Andriyani	ME-013-036-DGA-AA24	The Development of a Braille Geometry Module Based on Visual Impairment Students Synthetic Touch Skill with RMT Approach
15.40 – 15.50	Taufina	ME-014-039-DGA-AA26	Teaching Materials Based Development of Statistics RME
15.50 – 16.00	Abd. Qohar	ME-018-066-DSA-AA17	Developing Interactive Multimedia on Polyhedron Material for Class 8 Junior High School Students
16.00 – 16.10	Abd. Qohar	ME-019-067-DSA-AA29	Developing Ethnomathematics-Based Mathematics Learning Module on Quadrilateral Material for Class VII Junior High School Students
16.10 – 16.20	Feriyanto Feriyanto	ME-029-093-DGA-AA66	Developing Mathematics Module Based on Literacy and Higher Order Thinking Skills (HOTS) Questions to Train Critical Thinking Ability of High School Students in Mojokerto

**ROOM : 3**

**MODERATOR : Syaiful Hamzah Nasution, S.Pd., M.Pd**

Time	Presenter Name	Code	Title
13.00 – 13.10	Abdul Mu'in	ME-049-171-DGA-AA135	Development of Non-Routine Mathematical Problems in Equation and Equation Materials of Absolute Value
13.10 – 13.20	Zuida Ratih Hendrastuti	ME-060-207-DGA-AA188	Developing Math Learning Kits Using RME Approach Oriented to Mathematical Connections Ability and Self-Confidence
13.20 – 13.30	Cholis Sa'dijah	ME-066-229-DSA-AA184	Practicality and Effectiveness of Realistic Mathematical Learning Materials to Support Mathematical Literacy Skill of Junior High School Students
13.30 – 13.40	Jefri Marzal	ME-068-235-DGA-AA191	Infusing E-Book to Solve Plane Problem in Geometry with TPACK Framework for Upgrading

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			Mathematical Communication Ability for Junior High School Student
13.40 – 13.50	Tjang Daniel Chandra	ME-073-260-DGA-AA269	Development of Rokumatika Educational Game (Sugoroku Mathematics) to Improve the Skills of Grade 8th Middle School Students in Solving Mathematical Problems on Circle.
13.50 – 14.00	Diah Kisonowati	ME-078-288-DGA-AA246	DiAh Formula as an Alternative for Solving the Measures of Dispersion Problem in Basic Statistical Subject in High School and University Level
14.00 – 14.10	Syaiful Hamzah Nasution	ME-003-008-DGA-AA329	Development of Game “Alop’s Adventure” on Algebraic Expression
14.10 – 14.20	Eka Purnama Sari	CE-005-042-DGA-AA12	The Development of Learning Media KONELA (Configuration Electron Aufbau) in learning chemistry
14.20 – 14.30	Andari Puji Astuti	CE-013-081-DGA-AA79	The Use of Augmented Reality Based Learning Media to Develop the Technology Literacy of Chemistry Teachers in the 21st Century
14.30 – 14.40	Munzil	CE-039-254-DGA-AA207	The Effect of Quality of Chemical Multimedia Reviewed from the Ability of Students in Chemistry
14.40 – 14.50	Ageng Tri Rahayu	CE-037-246-DGA-AA294	Song Innovation in Multimedia on Stoikiometry Chemical Learning
14.50 – 15.00	Bahrul Rizky Kurniawan	PE-009-070-DGA-AA19	Development of Android-based Assessment to Improve Understanding of Student Concepts on Vector Topics
15.00 – 15.10	Dinda Putri Handayani	PE-012-082-DGA-AA32	Development of KOKAKELO (Local Wisdom Physics Comics) as an Android-Based Media of Physics Learning
15.10 – 15.20	Ahmad Suryadi	PE-014-089-DGA-AA34	Development of Interactive Multimedia Based On Resource Theory In Heat Concept
15.20 – 15.30	Faruq Haroky	PE-016-092-DGA-AA67	Creating Physics Comic Media A Local Wisdom Dol Musical Instrumen In Chapter of Sound Wave
15.30 – 15.40	Muh. Rozaqul Fadlli	PE-005-055-DGA-AA112	the effectiveness of computer-assisted recitation programs to enhance student’s understanding of Newton's Laws
15.40 – 15.50	Rendy Priyasmika	PE-032-212-DGA-AA152	Developing Interactive Tutorial Method Animation using Adobe Flash Professional CS6 on Electrical Subject for Senior High School
15.50 – 16.00	N. Desyana	PE-040-241-DGA-AA201	Design and Development Interactive Multimedia of Force and Newton's Law Based on Android Apps in Smartphone
16.00 – 16.10	Firda Ulya Nur Rosyidah	PE-042-250-DGA-AA206	Faraday Flashlight Project Based Science Technology Engineering and Mathematic to Enhance Students’ Problem Solving Skill
16.10 – 16.20			

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**ROOM : 4**

**MODERATOR : Muhammad Fajar Marsuki, S.Pd., M.Sc**

Time	Presenter Name	Code	Title
13.00 – 13.10	Edi Supriana	PE-044-271-DGA-AA226	Development of Integrated Kit Of Hookes Law as Learning Media for Students’s Conceptual Mastery And Problem Solving Skill
13.10 – 13.20	Edi Supriana	PE-044-271-DGA-AA228	Innovation of Integrated Ticker Timer Learning Media to Support Inquiry-Based Physical Learning In Kinematics
13.20 – 13.30	Chusnana Insjaf Yogihati	PE-045-274-DGA-AA231	The Role of PhET-Based Learning Material In Scientific Approach
13.30 – 13.40	Nugroho Adi Pramono	PE-047-279-DGA-AA238	Development Physics Learning Regarding Temperature With Designing Web-based Sensor Delivery System in Real Time Using Python and Raspberry Pi
13.40 – 13.50	Sujito	PE-043-256-DGA-AA275	Investigation of Mathematical Method For Physics Lecture And Opportunities to Implement Computer Aided Design
13.50 – 14.00	Agus Suyudi	PE-046-275-DGA-AA284	Games-Edu Space On Development of Flipbook Teaching Materials Based Inquiry Lesson
14.00 – 14.10	Rani Wahyu Andani	PE-054-298-DGA-AA256	Development of Macromedia Flash Technology-Assisted Indonesian Traditional Game “GATA-Fisika” as Physics Learning Innovation
14.10 – 14.20	Ulul Albab	PE-058-335-DGA-AA309	Application of Light Reflection Concept in Math-Hoodie Learning Media
14.20 – 14.30	Vita Oktaviani	PE-060-354-DGA	The Effectiveness of Multi Modal Representation Textbooks to Improve Students' Scientific Literacy of Senior High School on the Topic Sound and Light
14.30 – 14.40	Erni Nelsiastri Feoh	PE-061-355-DGA-AA338	The Effectiveness of Multiple Representation Electronic Books Based Android to Improve Critical Thinking Skills of Senior High School Students on the Topic of Optical Instruments
14.40 – 14.50	Dwitri Pilendia	SE-007-048-DGA-AA20	The Development of PowerPoint Optimization Training Module as Learning Media : a Validation Study
14.50 – 15.00	P D Amrita	SE-012-137-DGA-AA93	Developing Android Based Mobile Learning Media to Facilitating ICT Literacy of Junior High School Student
15.00 – 15.10	Siti Rahmawati	SE-013-138-DGA-AA96	Analysis of Science Teaching Materials Based on Critical Thinking Skill Indicators on the Topic Classification of Materials and Its Properties
15.10 – 15.20	Savira Mahdia	SE-034-276-DGA-AA233	Developing Science Teaching Book with a Scientific Approach to Analyze The Concept of Energy in The 7th Grade Junior High School
15.20 – 15.30	Muhammad Fajar Marsuki	SE-035-281-DGA-AA305	Development of Digital Learning Media Based on Android Games With Joyful Inquiry Model to Increase Science Literacy Skills for Second Year

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			Students of Junior High School In Subject Matter of Vibration
15.30 – 15.40	Amalia Rahmadani	SE-047-337-DSA	Herbarium Education Book Based On Augmented Reality As Secondary Book For Structure And Tissue Of Plant Topic
15.40 – 15.50	Indah Setyo Wardhani	SE-049-360-DSA-AA344	Development of Entrepreneurship E-Module for Elementary School Students Based on Local Wisdom in Madura Island
15.50 – 16.00	Delonix Regia	BE-003-023-DSA-AA59	Development of Problem-based Learning Module Based on The Allium sativum's Potency in Hyperlipidemic Mice Research to Improve Student's Critical Thinking Skills and Cognitive Learning Outcomes
16.00 – 16.10	Triastono Imam Prasetyo	BE-004-033-DGA-AA16	Module Development for High School Remedial Learning In Biology Subject
16.10 – 16.20	Wiwik Kusmawati	BE-005-035-DGA-AA104	Validation of Textbooks on Animal Embryology and Reproductions Based on Research on the Development of Mice Embryos by Adding DEET (Diethyltoluamide)

**ROOM : 5**

**MODERATOR : Dr.Sc. Anugerah Ricky Wijaya, M.Si**

Time	Presenter Name	Code	Title
13.00 – 13.10	Nosi Qadariah	BE-009-063-DSA-AA187	Development of Guided Inquiry Module Based on Research Result to Improve Science Process Skills and Cognitive Learning Outcomes
13.10 – 13.20	Christine Apriyani	BE-011-065-DGA-AA23	The Development of Interactive Multimedia on Nervous System, Endocrine System, and Sense Organs Materials to Improve Students' Critical Thinking Skills of Class XI SMAN 1 Lawang
13.20 – 13.30	Abdullah Muamar	BE-012-076-DSA-AA51	Effectiveness Analysis of Development of Genetic Books with Mind Mapping Model Using Argument Map Methods to See Self-Efficacy and High-Level Students
13.30 – 13.40	Mistianah	BE-016-100-DGA-AA105	Needs Analysis of Development Genetics Flash Flip Book Multimedia Based on Improve Learning Models In University
13.40 – 13.50	Iwan	BE-030-145-DGA-AA138	The Development of Teaching Materials Oriented Problem-Based Learning Integrating Tifa Local Wisdom to Train Student Critical Thinking Skill
13.50 – 14.00	Iin Murtini	BE-042-213-DSA-AA180	Effectiveness of Research-based Cell Division Control Module on Students' Critical Thinking Skills
14.00 – 14.10	Badriyatur Rahma Fidiya	BE-044-228-DSA-AA186	Development of Problem Solving Module Based on Result of Black Soybean Tempe Extract in Hematology Aspect on Type 2 Diabetes Mellitus Rat to Improve Problem Solving Skills

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14.10 – 14.20	May Hastuti Lubis	BE-045-231-DSA-AA182	The Development Problem Solving Module Based on Research at the Level of Advanced Glycation End Products (AGEs) of Hyperlipidemic Mice Model to Improve Student Critical Thinking Skills and Cognitive Learning Outcomes
14.20 – 14.30	Luthfianti Fanani	BE-047-242-DSA-AA200	Practice Guidelines As An Efforts to Foster Students' Psychomotoric Aspects And Critical Thinking for SMK
14.30 – 14.40	Sari, M.S	BE-049-253-DGA-AA209	Android-based Mobile Learning Media on Material of Plant Cell Structure & Function: Meaningful Learning Strategy
14.40 – 14.50	Citra Mustika Delima	BE-050-255-DSA-AA208	Developing Environmental Change Module Based on Problem-Based Learning and Its Effect on Students' Environmental Care in X Grade SMA Brawijaya Smart School
14.50 – 15.00	Ulfa Maulida Farid	BE-051-258-DGA-AA210	The Development of Problem Solving Module According to Results of The Effect of Black Soybean Tempe Extract to Type 2 Diabetes Mellitus Rat Interleukin 6 Level Research to Enhance Student's Critical Thinking Skills
15.00 – 15.10	Melati Insani Putri	BE-020-112-DSA-AA65	The Development of Problem Solving Module Based on The Research Results of Potential Purple Sweet Potatoes in T2DM Mice Models to Improve Student Cognitive Learning Outcomes
15.10 – 15.20	Gandhes Cintya Dewi	BE-027-132-DGA-AA81	The Development of Android-Based Interactive Multimedia in Respiratory System Materials to Improve Science Literacy Ability of Class XI Students in SMAN 02 Batu
15.20 – 15.30	Dwi Darmayanti	BE-013-079-DGA-AA220	Development of Learning Devices Based on Guided Inquiry of Plant Diversity Material to Improve Science Process Skills and Learning Outcomes in Grade X Students at SMAN 1 Gondanglegi
15.30 – 15.40	Gissa Adela Putrining Waloyo	BE-013-079-DGA-AA221	Development of Biology Learning Devices with Guided Inquiry Model on Plant Diversity Material to Measure Science Process Skills and Critical Thinking in Grade X Students at SMAN 9 Malang
15.40 – 15.50	Indra Lusmana	BE-055-270-DSA-AA223	Developing Biology Learning Devices On "Fungi" Material Using Discovery Learning Model To Promote Students' Critical Thinking Skills And Cognitive Learning Outcomes Of Grade X SMAN 6 Malang
15.50 – 16.00	Firman Aji Pamasyah	BE-057-284-DSA-AA244	Developing Webtoon Based on Reciprocal Teaching on the Immune System and Its Effect of Scientific Literacy Students
16.00 – 16.10	Nizar Azizatul Nikmah	BE-063-302-DSA-AA279	Developing of Problem-Based Learning Ecology Teaching Materials on Flora Community in Savana Bekol Baluran National Park to Improve Students' Critical Thinking Skill
16.10 – 16.20	Maisuna Kundariati	BE-071-324-DGA-AA298	Exploration of Invertebrate and Vertebrate Animals in Malang Regency as an Animal Diversity

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		Learning Resource for Biology Student at the Universitas Negeri Malang
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**ROOM : 6**

**MODERATOR : Oktavia Sulistina, S.Pd., M.Pd**

<b>Time</b>	<b>Presenter Name</b>	<b>Code</b>	<b>Title</b>
13.00 – 13.10	Arwinda Probowati	BE-072-326-DGA-AA296	Developing Digestive System Guided Inquiry Research-Based Module on the Effect of Purple Sweet Potato's Extract towards DMT2 Rat's MDA Levels.
13.10 – 13.20	Maisuna Kundariati	BE-071-324-DGA	Exploration of Invertebrate and Vertebrate Animals in Malang Regency as an Animal Diversity Learning Resource for Biology Student at the Universitas Negeri Malang
13.20 – 13.30	Jessy Damayanti	BE-073-336-DSA	Need Analysis of Biology Teaching Material using Macrozoobenthic Diversity as Bioindicator Water Quality of Metro River Module for Junior High School
13.30 – 13.40	Rostien Puput Anggoro	ME-037-120-DGA-AA129	The Effectiveness Of Cooperative Learning Model Type STAD And Jigsaw Based HOTS On Mathematical Problem Solving Abilities
13.40 – 13.50	Sumargiyani	ME-042-140-DSA-AA185	Increased Motivation to Learn by Using Learning Model Learning Community Students Mathematics Education
13.50 – 14.00	Venissa Dian Mawarsari	ME-044-143-DGA-AA84	The Readiness of Mathematics Teachers in Utilizing Technology in the 21 <sup>st</sup> Century Learning Process
14.00 – 14.10	Yoga Umar Ruhul Iman	ME-045-144-DSA-AA89	The Influence of PAIKEM Based Learning with Educational Songs on Student Learning Motivation
14.10 – 14.20	Gatot Muhsetyo	ME-054-179-DGA-AA123	The Implementation of Constructivistic Strategy for Delivering High School Mathematics: a Study to Know the Misused of Mathematics Education Students in Peer Teaching Practice
14.20 – 14.30	Kamid	ME-062-220-DGA-AA163	Exploring of TPACK Framework For Optimizing Critical Thinking In Learning Social Arithmetic Material For Junior High School Student
14.30 – 14.40	Ukhti Raudhatul Jannah	ME-063-224-DGA-AA169	Islamic Values in Mathematics Learning through the Realistic Mathematics Education (RME) Model in Arithmetic Sequence and Series Subject Class XI MA Matsaratul Huda
14.40 – 14.50	Ety Tejo Dwi Cahyowati	ME-077-273-DGA-AA229	Application of Open Ended Approach with TPS (Think Pair Share) to Improve Creative Thinking Skills for Student of Class VII-B of SMP Negeri 9 Malang



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14.50 – 15.00	Indriati Nurul Hidayah	ME-079-304-DSA-AA266	Application of Cooperative Learning Type Teams Games Tournament (TGT) to Increase the Student's Activity
15.00 – 15.10	Endang Budiasih	CE-007-049-DSA-AA14	Mind Mapping in Argument Driven Inquiry (ADI) Model to Improve Students' Critical Thinking Skills with A Different Prior Knowledge in The Topic of Reaction Rate
15.10 – 15.20	Aceng Haetami	CE-010-061-DGA-AA15	The Effects Of Instructionals Models And Logic Mathematical Intelligence Toward The Chemistry Learning Outcome By Controlling Students' Initial Competence
15.20 – 15.30	Endang Budiasih	CE-014-095-DSA-AA35	The Different of Scientific Argumentation Skills in the Reaction Rate Topic as a Result of ADI-S and ADI Learning Models with a Different Scientific Reasoning Ability
15.30 – 15.40	Endang Budiasih	CE-015-103-DSA-AA39	The Effectivity of <i>Guided Discovery</i> with Contextual Approach in Reaction Rate Learning Towards Scientific Literacy Skill
15.40 – 15.50	Oktavia Sulistina	CE-009-059-DGA-AA98	The Effect of the Explanation Driven Inquiry (EDI) Learning Model and Initial Ability on the Scientific Explanation Skills of Senior High School students in the Chemistry Class
15.50 – 16.00	Herawati	CE-025-188-DSA-AA127	The Effectiveness of Inquiry with Multipel representation to Improve Critical Thinking Skill in Learning Electrochemistry
16.00 – 16.10	Binti Zulaihah	CE-027-194-DSA-AA153	Effects of the Metacognitive Learning Strategy on Students' Metacognitive Knowledge and Achievements in Electrolyte and Non-electrolyte Solution Materials

ROOM : 7

MODERATOR : Prof. Dr. Fauziatul Fajaroh, M.S

Time	Presenter Name	Code	Title
13.00 – 13.10	Klaudia E.N. Bambut	CE-031-206-DSA-AA159	What are The Patterns of Discussion to Teach Argumentation Skills in Chemistry Learning?
13.10 – 13.20	Sutrisno	CE-035-221-DGA-AA166	Responding the Integrated Model of Entrepreneur Characteristic with Stem to Enhance Students Creativity
13.20 – 13.30	Sutrisno	CE-036-234-DSA-AA190	Difference Student's Cognitive Skills (HOTS and LOTS) through Inquiry Based Learning with OE <sub>3</sub> R Strategy in Concept of Molecular Shape
13.30 – 13.40	Fauziatul Fajaroh	CE-041-262-DGA-AA236	The Effect of Guided Inquiry Learning that is Enriched with Problem Solving in Buffer Solution Materials on Cognitive Learning Outcomes of SMAN 1 Lawang Students
13.40 – 13.50	Mohd Shafie bin Rosli	CE-044-306-IGA-AA265	Technology Assisted Cognitive Augmentation: an OLE Prototype to Nurture Cognitive Skills in Chemistr

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13.50 – 14.00	Siti Marfu'ah	CE-045-321-DGA-AA291	The Influence Of Problem Solving on The Effectiveness Of Guided-Inquiry in Learning Buffer Solutions Based On The Students' Scientific Argumentation Ability
14.00 – 14.10	Nur Candra Eka Setiawan	CE-049-350-DGA-AA328	The Influence of Hypothetical-Deductive Learning Cycle on Students' Learning Achievement and Higher Order Thinking Skill
14.10 – 14.20	Shelly Efwinda	PE-010-074-DGA-AA30	Pedagogical Content Knowledge Ability in Reflecting Project Based Learning on Physics Concepts
14.20 – 14.30	Maria Yosefina Pranita	PE-018-121-DSA-AA62	Problem Solving skills of Student's on Work and Energy Material Within Inquiry Based Authentic Learning for STEM Education
14.30 – 14.40	Ratna Hapsari E.P	PE-021-130-DGA-AA63	Problem Based Learning Model Accompanied by Eksperimen and Project Method In Term Of Creativity on Physics Learning
14.40 – 14.50	Intan Mustika Noor Sasono Putri	PE-022-156-DSA-AA102	The Profile of Teachers' Problem Related to Inquiry Learning Set Based on Level of Inquiry In Physics Learning in Madrasah Aliyah (MAN)
14.50 – 15.00	Rian Priyadi	PE-023-164-DSA-AA103	Using Argument-Driven Inquiry Learning to Improve Students' Mental Models
15.00 – 15.10	Daniar Pangastiningasih Etikamurni	PE-004-054-DSA-AA139	Enhancement of Student's Problem Solving Skill of Heat And Temperature Topic Through Modeling Instruction
15.10 – 15.20	Edi Supriana	PE-015-090-DSA-AA181	The Increase of Student's Conceptual Understanding in the Topic of Heat and Temperature through Blended Learning
15.20 – 15.30	Purbo Suwasono	PE-026-173-DGA-AA110	The Use of Blended Learning as An Attempt to Improve Students' Higher Order Thinking Skills
15.30 – 15.40	Uulia 'Iffa	PE-027-191-DSA-AA128	Improvement of Force Diagram Ability With Free Body Diagram Based Learning
15.40 – 15.50	Lia Yuliati	PE-029-200-DSA-AA174	Exploration of Problem Solving Ability With Inquiry-Based Authentic Learning for The STEM Program
15.50 – 16.00	Ina Yuliana	PE-030-203-DSA-AA142	Exploration of Students' Problem Solving Ability in Learning Cycle 5E with Formative e-Assessment
16.00 – 16.10	Umi Azizah	PE-033-215-DGA-AA194	Effect of STEM-based 7E Cycle learning on Concepts acquisition and Creative Thinking on Temperature and Heat
16.10 – 16.20	Tsania Nur Diyana	PE-038-237-DSA-AA195	Implementation of Conceptual Problem Solving (CPS) in 5E Learning Cycle to Improve XIth Students Understanding of Archimedes Principle

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ROOM : 8

MODERATOR : Khusaini, S.Pd., M.Ed

Time	Presenter Name	Code	Title
13.00 – 13.10	Desi Rahmadani	MA-019-344-DGA	On Ramsey (P4,P4)-minimal graphs for small-order
13.10 – 13.20	Toto Nusantara	MA-020-352-DGA-AA330	Products of Fuzzy Graphs on Complete, Strong, and Regular Fuzzy Graphs
13.20 – 13.30	Mohammad Agung	MA-017-332-DGA	Some Properties of Indigent Module
13.30 – 13.40	Rudy Syah Putra	CH-002-118-DSA-AA76	Enhancement of Electroflotation using Papaya Seeds ( <i>Carica papaya</i> ) for Chemical Laboratory Wastewater Treatment
13.40 – 13.50	Yudhi Utomo	CH-003-322-DSA-AA295	Effectiveness of Anthocyanin Extraction in Purple Cabbage ( <i>Brassica oleraceae</i> ) Using The Ultrasonic Bath Method was Reviewed in physicochemistry
13.50 – 14.00	Yudhi Utomo	CH-004-349-DSA-AA327	Characterization of Adsorbent from Pine Strobilus Active Charcoal ( <i>Pinus merkusii</i> ) and Its Performance in Adsorption of Methylene Blue
14.00 – 14.10	Anissa Rakhma Putri	PE-031-210-DSA-AA157	Static Fluid Conceptual Change trough Authentic based on Phenomena
14.10 – 14.20	Yogi Bachtiar	SE-004-018-DGA-AA3	Determining Promotion Route of Indraprasta University Using Greedy Algorithm
14.20 – 14.30	Fauzan Prasetyo	SE-006-032-DGA-AA8	Optimization Mobile Ad Hoc Network DSDV and OLSR Using Evolutionary Algorithm
14.30 – 14.40	Nurul Wulandari (Endry)	SE-016-157-DSA-AA162	The Effect of Washing Methods On Hygienic And Quality Level of Industrial Moringa Oleifera Leaves
14.40 – 14.50	Muhammad Taufiq Hidayat (Endry)	SE-017-158-DSA-AA136	Immobilization of Bacillus sp. SLII-1 on Chitosan-Alginate Hybrid Material for Promising Feedstock Supplement
14.50 – 15.00	Mifta Dinar Ningtyas (Endry)	SE-018-159-DSA-AA145	Microbial Consortium Synergism for Promising Freshwater Culture Probiotic
15.00 – 15.10	Nidatul Hikmah Mavrianingtyas (Endry)	SE-019-160-DSA-AA147	The Effect of Drying Methods on Hygienic and Quality Level of Industrial Moringa oleifera Leaves
15.10 – 15.20	Gina Fachniar (Endry)	SE-020-161-DSA-AA148	Effect of Laccase Oxidation On Phenol Content And Antioxidant Capacity of Roasted Coffee
15.20 – 15.30	Violisa Linanda (Endry)	SE-021-162-DSA-AA173	Effect of laccase from White Rot Fungus <i>Trametes versicolor</i> on Roasted Cocoa Bean
15.30 – 15.40	Kun Rohmatan Nazilah (Endry)	SE-022-163-DSA-AA144	Effect of Laccase Oxidation Pretreatment On Coffee ( <i>Coffea Arabica</i> ) Bean Processing Waste for Composting Substrate
15.40 – 15.50	Anggi Rio Manurung (Endry)	SE-027-192-DSA-AA161	Enzymatic Conversion of Brewer's Spent Yeast as Raw Material for Glutamic Acid Production

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15.50 – 16.00	Raka Yusuf	SE-044-325-DGA-AA293	Three-Tier Web Applications Modeling on Cloud for Budgeting Efficiency
16.00 – 16.10	Diah Ayu Fadhilah	BE-070-320-DGA-AA290	Enzymatic Pretreatment of Paper Printing Waste for Biogas Substrate

### PARAREL SESSION (WEDNESDAY, 28 AUGUST 2019)

ROOM : 1

MODERATOR : Dr. Fariati, M.Sc

Time	Presenter Name	Code	Title
13.00 – 13.10	Sugiyanto	SE-041-314-DGA-AA277	The Effect of 5E Cycle Learning Model Implementation to Students' Critical Thinking Ability on The Activities Analyzing Environmental Pollution
13.10 – 13.20	Puteri Lailatul Fitriyah	SE-045-327-DGA-AA299	The Improvement of Higher Order Thinking Skills through Learning Cycle 7E on Analyzing Human Excretion
13.20 – 13.30	Vita Ria Mustikasari	SE-032-264-DGA-AA301	Improving Science Learning Outcomes of Middle School Students through Learning Joyful-Inquiry Interactive Demonstration Assisted by an Android Game
13.30 – 13.40	Ana Fitria Azzmi	SE-046-330-DGA-AA308	Influence of STEM Based Learning Cycle toward Students' Critical Thinking Ability
13.40 – 13.50	Anugrah Ayumaharani Widianingsih	BE-007-051-DGA-AA41	The Relevance of the Use Metacognition Strategies Towards the Achievement of Student Biology Learning Outcomes of High School Students
13.50 – 14.00	Rido Sigit Wicaksono	BE-010-064-DGA-AA151	A Brief Explanation of Problem-Based Learning by Its Advantage, Disadvantage and Effect Upon Student's Scientific Literacy : An Experimental Research
14.00 – 14.10	Diana Husna	BE-015-098-DGA-AA69	Integration of Inquiry and Characteristic Values Teaching Model Effects towards Science Process Skills on Gender Differences of SMAN 7 Malang Student
14.10 – 14.20	Arika Masruroh	BE-018-109-DGA-AA57	The Influence of Inquiry Learning Integrated Nature of Science Toward Critical and Creative Thinking Skills
14.20 – 14.30	Nor Azizah	BE-039-180-DGA-AA118	The Effect of RICOSRE on Student Critical Thinking Skills in Biology
14.30 – 14.40	Shela Emilia Permatasari	BE-039-180-DGA-AA119	Science Process Skills and Cognitive Achievement: An Examination of Two Different Models of Learning Biology at the Tenth-Grade Level
14.40 – 14.50	Sari Rahayu Rahman	BE-046-240-DGA-AA199	RQA Learning Model in the Biology Classroom, and Its Effect on Students Metacognitive

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14.50 – 15.00	Tarwiyani	BE-019-110- DSA-AA60	The Influence of Science Learning Based on Inquiry Integrated with Nature of Science (NOS) towards Students' Attitudes and Interests in Science
15.00 – 15.10	Arinda Eka Lidiastuti	BE-021-113- DGA-AA88	Analysis The Development of EXAIR Learning Model based on BBL (Brain-Based Learning) and its Effect on Learning Outcome on Secondary School in Coastal Area
15.10 – 15.20	Utaria Mutasam	BE-022-116- DSA-AA61	The Impact of Science Learning Based on Inquiry Integrated with Nature of Science towards Communication and Collaboration Skills
15.20 – 15.30	Shoimatun Febriyani	BE-024-128- DSA-AA72	Guided Inquiry Combined with Edutainment in Increasing Junior High School Students' Learning Interest
15.30 – 15.40	Kharirrotun Nafiah	BE-026-131- DSA-AA68	The Effectiveness of Teaching Materials About Management Invasive Alien Species <i>Acacia Nilotica</i> (L.) Willd. Ex Del. Through Problem Based Learning (PBL) Toward Students Scientific Literacy and Cognitive Learning Outcomes
15.40 – 15.50	Siti Nurhalizah	BE-039-180- DGA-AA120	RICOSRE for the Empowerment of Student Creative Thinking Skills
15.50 – 16.00	Yulista Trias Rohayati	BE-039-180- DGA-AA121	The Correlation between Student Scientific Argumentation Skills and Cognitive Achievement on Two Learning Models in Biology Classes
16.00 – 16.10	Robiatul Adawiyah	BE-052-265- DGA-AA213	Improving Collaboration Skill through Discovery Learning Model Combined with Jigsaw II
16.10 – 16.20	Ida Fitria Rahmawati	BE-053-267- DSA-AA214	Implementation of Problem Based Learning (PBL) Model Assisted Mind Map to Enhance Student's Critical Thinking Skill and Learning Outcome in the Biology Classroom SMAN 8 Malang

**ROOM : 2**

**MODERATOR : Husni Wahyu Wijaya, Ph.D**

Time	Presenter Name	Code	Title
13.00 – 13.10	Mutia Nandani	BE-055-270- DSA-AA225	Implementation of Discovery Learning Model combined with Think Pair Square Share (TPSS) to Improve Critical Thinking Skills of Class XI MIPA 3 Student's of SMAN 1 Tulungagung
13.10 – 13.20	Rifka Fachrunnisa	BE-041-185- DGA-AA254	Life-Based Learning: Two Trajectories of Students in Biology Education Program
13.20 – 13.30	Iqbal Bilgrami Biruni	BE-059-293- DSA-AA253	Fostering Student' Critical Thinking Skills in Respiratory and Excretory System Classroom through 5E's Learning Cycle in 11th Grade SMAN 2 Malang
13.30 – 13.40	Della Putri Irma Suryani	BE-061-300- DSA-AA260	Implementing Group Investigation (GI) Learning Model combined with Socio Scientific Issue (SSI) to Improve Students' Problem Solving Skills in XI Grade IPA 4 SMAN 2 Malang

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13.40 – 13.50	Nurul Ma'rifah	BE-062-301-DSA-AA259	A Comparison of the Effects of Problem-Based Learning and Think Pair Square on Students' Critical Thinking Skills and Learning Outcomes in Biology Classroom
13.50 – 14.00	Rifka Fachrunnisa	BE-041-185-DGA-AA278	Teaching Creative Thinking Skills: Promoting Creativity More Visible in Undergraduate Students of Biology Education
14.00 – 14.10	Asma'ul Khusna	BE-068-311-DSA-AA272	Effect of Problem Oriented Project Based Learning (POPBL) towards Student's Problem Solving Skills in X Grade SMA Negeri 8 Malang
14.10 – 14.20	Baiq Sri Handayani	BE-075-353-DGA	The Effectiveness of Brain Based Learning Model (BBBL Integrated With the Whole Brain Teaching (WBT) Model on The Students' Metacognitive Skills of Public Junior High Schools in Malang on Science Lesson in 2017/2018 Academic Year
14.20 – 14.30	Achmad Sarwandianto	ME-015-044-DGA-AA10	Relationship between Creativity and Learning Style and Mathematics Learning Achievement of Students of SDN in Surakarta
14.30 – 14.40	Pancayani Dinihari	CE-012-072-DSA-AA21	The Effect of Learning Cycle 4ERE on the Vocational High Students' Learning Motivation in Adaptive Chemistry
14.40 – 14.50	Rosdiana	ME-021-073-DSA-AA22	Problem Solving Geometry of Primary School Teacher Education Student's Through Polya Stage: Devising a Plan in terms of Mathematical Capabilities
14.50 – 15.00	Laras Faralia	ME-023-078-DSA-AA27	How Occlusion and Unlearning Caused Students' Retroactive Interference in Solving LCM and GCF Problems?
15.00 – 15.10	Fajriyah Rachmatika	ME-025-084-DSA-AA31	Student's Quantitative Reasoning in Problem Solving Based on the Cognitive Style
15.10 – 15.20	Sukoriyanto	ME-026-086-DGA-AA33	Students' Errors Analysis in Solving the Geometry Word Problem Base on Newman Stage
15.20 – 15.30	Wasilatul Murtafiah	ME-028-091-DGA-AA82	Exploring the Creative Mathematical Reasoning of Mathematics Education Student through Discovery Learning
15.30 – 15.40	A Fuady	ME-030-094-DSA-AA50	Student Reflective Abstraction of Impulsive and Reflective in Solving Mathematical Problem
15.40 – 15.50	Fajar Maulana R	ME-032-101-DSA-AA38	Student Mathematical Problem Solving Analysis in Polya Stages based Mind Map and Newman Error
15.50 – 16.00	Erry Hidayanto	ME-033-102-DGA-AA106	Characteristics of Student Stistical Reasoning in Mathematical Problem Solving
16.00 – 16.10	Erry Hidayanto	ME-033-102-DGA-AA240	Intrinsic Cognitive Load of Students in Solving Problems Linear Program

**ROOM : 3**

**MODERATOR : Latifah Mustofa Lestyanto, S.Si., M.Pd**

Time	Presenter Name	Code	Title
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13.00 – 13.10	Agus Setiawan	ME-034-107- DSA-AA40	Analysis of Students Errors in Mathematical Reasoning on Geometry by Sex
13.10 – 13.20	Ika Santia	ME-035-114- DSA-AA49	Analysis of Students' Mathematical Representation in Well-Structured and Ill-Structured Problem Solving
13.20 – 13.30	Tatik Retno Murniasih	ME-036-119- DSA-AA54	Pre-Service Mathematics Teacher Skills: a Number Line Representations Error Analysis at Fraction Number Sense Task
13.30 – 13.40	R Raya	ME-038-123- DSA-AA55	Probabilistic Thinking of Senior High School Students with Low Mathematical Abilities in Solving Probability Tasks
13.40 – 13.50	Sandie	ME-039-134- DGA-AA83	Student Difficulties when Constructing a Hidden Bridge to Solve Dynamic Event Problems
13.50 – 14.00	Fatqurhohman	ME-040-135- DGA-AA90	Understanding of Students in Resolving Word Problem on Mixed Fraction
14.00 – 14.10	Siti Dian Anugrah	ME-041-136- DSA-AA164	Analysis Of Students' Errors in Solving Higher Order Thinking Skills (HOTS) Problems for The Topic of Sequence
14.10 – 14.20	Shinta Wulandari	ME-043-141- DSA-AA74	Students' Difficulties in Completing Mathematical Tasks Based on Spatial Ability
14.20 – 14.30	Sapti Wahyuningsih	ME-047-169- DGA-AA108	Visual Thinking Profile of Mathematics Students in Graph- Theory Problem Solving Process
14.30 – 14.40	Sapti Wahyuningsih	ME-047-169- DGA-AA282	Performance of Artificial Bee Colony Algorithm and its Implementation on Graph Theory Application Course
14.40 – 14.50	Susiswo	ME-048-170- DGA-AA107	Analysis of Layer of Primitive Knowing of High School Students in Linear Function Material: Study of Application of Student Activity Sheets based on Pirie Kieren Theory
14.50 – 15.00	Susiswo	ME-048-170- DGA-AA109	Analisis of Folding Back of Kepanjen Islamic High School Students in Solving the Problems of its Functions and Interventions
15.00 – 15.10	Latifah Mustofa Lestyanto	ME-051-175- DGA-AA143	The Level of Students' Reading Comprehension on Proof by Mathematical Induction
15.10 – 15.20	Cholis Sa'dijah	ME-052-176- DGA-AA113	Reflective Thinking in Solving of Open Ended Problems in Plane Figure for Seventh Graders
15.20 – 15.30	Gatot Muhsetyo	ME-053-178- DGA-AA126	The Readiness of Mathematics Education Students About HOTS: a Best Praticte to Explore and Describe Their Problems in Understanding the Content of Middle School Mathematics
15.30 – 15.40	Heri Apriyanto	ME-055-181- DSA-AA132	Analysis of Student's Mathematical Representation Errors in Solving Problem Solving Math Problem and Giving Scaffolding
15.40 – 15.50	Tjang Daniel Chandra	ME-055-181- DSA-AA219	The Analysis of Student's Mathematical Representation Errors in Solving Mathematical Problem-Solving Problems and Giving Scaffolding
15.50 – 16.00	Intan Mahyastuti	ME-056-189- DSA-AA192	Analytical Thinking to Solve Contextual Problems
16.00 – 16.10	Cholis Sa'dijah	ME-057-201- DSA-AA176	FI and FD Students: Their Mathematical Dispositions towards Solving HOTS Problems

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ROOM : 4

MODERATOR : Latiful Anwar, S.Pd., M.Ed

Time	Presenter Name	Code	Title
13.00 – 13.10	Pramita Respati	ME-058-204-D SA-AA178	Profile of Students' Mathematical Problem Solving Skill Based on Students' Perception Toward Mathematics
13.10 – 13.20	Cholis Sa'dijah	ME-059-205-D GA-AA177	Analysis of Students' Errors in Completing Mathematics Problems Based on the Students Initial Mathematical Ability
13.20 – 13.30	Risna Widdy May Pamilu	ME-061-208-D SA-AA160	Higher Order Thinking Process of Junior High School Students with Linguistic, Logical-Mathematical, and Visual- Spatial Intelligences in Solving Mathematical Problems
13.30 – 13.40	Cholis Sa'dijah	ME-064-226-D SA-AA175	Mathematical Creative Thinking Skill of Middle-Ability Students in Solving Contextual Problems
13.40 – 13.50	Widi Pradini	ME-065-227-D SA-AA179	Analysis of Junior High School Students Difficulty in Solving Linear Equation in Two Variables Word Problem
13.50 – 14.00	Hesti Ratna Juwita	ME-069-239-D GA-AA197	Children's Response Role in Mathematics Elementary School
14.00 – 14.10	Ariyani Muljo	ME-072-248-D SA-AA205	Communication Skill to Improve the Students' Ability in Algorithm Problem Solving Process: the Case of Number Pattern Test
14.10 – 14.20	Rustanto Rahardi	ME-074-261-D GA-AA212	Analysis of Students' Skills on Derivative of a Function
14.20 – 14.30	Slamet	ME-078-288-D GA-AA247	Analysis of Critical Thinking Skills Students of Grade X SMAN 1 Lawang in Solving Trigonometry Problem
14.30 – 14.40	Slamet	ME-078-288-D GA-AA264	Analysis of Critical Thinking Abilities in Solving Mathematical Problem Calculus for Prospective Teachers Departement of Mathematics FMIPA UM Malang
14.40 – 14.50	Sutarto	ME-080-316-D GA-AA285	An Analysis of Students' Difficulties in the Conjecturing Process of Pattern Generalization Problems
14.50 – 15.00	Hersiyati Palayukan	ME-082-334-D SA-AA307	Semiotics in Solving Problems Geometric Diagram Viewed from Peirce Perspective: Case Study
15.00 – 15.10	Rifdatul Karimah	ME-083-340-D SA	Students Higher Order Thinking Skills in Solving Gemetry Problem
15.10 – 15.20	Soleman Saidi	ME-084-342-D GA	Categorization of Student Thinking Types Based on Dual Process Theory in Solving Cognitive Reflection Test Problems
15.20 – 15.30	Eka Mestiani	ME-081-323-D GA	Interpersonal INTELLIGENCE TO SOLVING MATHEMATICAL PROBLEM
15.30 – 15.40	Aning Wida Yanti	ME-086-347-D GA	ADAPTIVE REASONING PROFILE OF STUDENTS IN SOLVING MATHEMATICAL PROBLEMS VIEWED



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			FROM FIELD DEPENDENT AND FIELD INDEPENDENT COGNITIVE STYLE
15.40 – 15.50	Sutini	ME-085-345-DGA-AA333	Profile of Student Cognition Regulations in Solving Mathematical Problems of Mathematical Capabilities
15.50 – 16.00	Habiddin	CE-001-001-DGA-AA1	Chemistry Students' Attitude Towards Mathematical Knowledge
16.00 – 16.10	Yusran Khery	CE-004-029-DGA-AA7	Correlation between Understanding NOS, Conceptual Understanding, and Science Process Skill on General Chemistry Classroom

**ROOM : 5**

**MODERATOR : Dr. Yahmin, S.Pd., M.Si**

Time	Presenter Name	Code	Title
13.00 – 13.10	Hayuni Retno Widarti	CE-006-046-DGA-AA11	Analysis Of Higher Order Thinking Skill (Hot <sub>s</sub> ) In The National Examination Questions
13.10 – 13.20	Jusniar	CE-017-111-DGA-AA45	Misconceptions On Rate Of Reaction And It's Impact On Chemical Equilibrium
13.20 – 13.30	Muhammad Haris Effendi-Hasibuan	CE-011-069-DGA-AA48	Do Heavy Metals Disadvantage Human's Health? Using Students' Argumentation Skills on Socio Scientific Issues
13.30 – 13.40	Tutik Sri Wahyuni	CE-020-127-DGA-AA92	Correlation of Conceptual Understanding of Acid-Base Titration with the Skill of Drawing Titration Curves
13.40 – 13.50	M.Muchson	CE-022-167-DGA-AA111	Analysis of High School Students' Metacognitive Knowledge on The Topic of Solubility and Solubility Product
13.50 – 14.00	Herunata	CE-024-187-DGA-AA125	Critical Thinking Skills Analysis of MIA XI Class Students in Hydrocarbon Topic
14.00 – 14.10	Habiddin	CE-001-001-DGA-AA130	Does Students' Confidence In Chemistry Boost Their Understanding?
14.10 – 14.20	Rosyidah Syafaatur Rohmah	CE-030-202-DGA-AA141	Effect of Conceptual Change Texts on Physical Inorganic Chemistry Students' Misconceptions of Matter and Its Changes
14.20 – 14.30	Hayuni Retno Widarti	CE-033-211-DGA-AA149	Understanding of Acid Base Concept Based Multiple Representation in Cross Education Levels
14.30 – 14.40	Parlan	CE-040-259-DGA-AA292	Identification of Students' Conceptual and Algorithm Understanding on Buffer Solution
14.40 – 14.50	Haratua Tiur Maria Silitonga	PE-011-077-DGA-AA94	Implementation Of Students' Misconception Remediation Use Teaching Materials With A Refutation Text Structure On The Fluid
14.50 – 15.00	Ika Khoirun Nisa	PE-017-105-DGA-AA44	Conceptual Understanding and Difficulties Profile of Archimedes Principles between High School Students in City and Rural Area
15.00 – 15.10	Zahrotul Ula Irma	PE-020-126-DGA-AA71	Students's Creativity of Nature School and Conventional School: A Comparative Study

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15.10 – 15.20	Nurul Hidayah	PE-006-056-DGA-AA154	The Improvement of the Students' Kinematics Concept Acquisition Through Multi-Representation Learning
15.20 – 15.30	Prima Mutiara Meidayanti	PE-034-216-DGA-AA155	Problem Solving Ability and Self-Efficacy of Students in Static Fluid Materials at Flipped Classroom Integrated STEM
15.30 – 15.40	M. Dewi Manikta Puspitasari	PE-036-223-DGA-AA168	Analyzed The Student's Epistemic Game based on The Physics Understanding
15.40 – 15.50	Ovita Ardanari	PE-035-222-DGA-AA193	Improve Scientific Literacy and Problem Solving Abilities in Newton's Law through E-Scaffolding Conceptual-Procedural in Hybrid Learning
15.50 – 16.00	Hartono Bancong	PE-056-331-ISA-AA306	Investigating the Purposes of Students in Conducting Thought Experiments While Solving Physics Problem
16.00 – 16.10	Ida Madyani	SE-014-147-DGA-AA99	Creative Thinking Skills on Junior High School Students in Science Learning by Gender

**ROOM : 6**

**MODERATOR : Dr. Parlan, M.Si**

Time	Presenter Name	Code	Title
13.00 – 13.10	Ida Madyani	SE-014-147-DGA-AA100	Profile of Students' Creative Thinking Skills in Learning Science
13.10 – 13.20	Elmi Rahma Arif Fadilah	SE-026-190-DGA-AA140	Exploration of Student Creativity in Science, Technology, Engineering, Mathematics (STEM) Learning
13.20 – 13.30	Yessi Affriyenni	SE-033-266-DGA-AA239	Analysis of Students' Conceptual Understanding of Electricity in Fundamental Physics III Short-Term Program
13.30 – 13.40	Sri Rahayu	SE-040-313-DGA-AA273	The Views of Nature of Science (NOS) Expressed by Junior High School Students From East Java, Indonesia
13.40 – 13.50	Erni Yulianti	SE-042-315-DGA-AA274	Acquiring Scientific Reasoning from Guided Inquiry: How Students Integrate Key Concepts in Science
13.50 – 14.00	Yuni Pantiwati	SE-048-338-DGA-AA310	The Relationship between Capability Dimension and Cognitive Dimension Ability of Grade VII Middle School Students in Malang City
14.00 – 14.10	Sunarmi	BE-013-079-DGA-AA28	Ferns Misconception Study with Concept Approach in Biology High School Textbook
14.10 – 14.20	Sueb	BE-038-174-DGA-AA116	Relationship Between Pro-Environmental Attitudes and Teaching Practice from The Students' Perception in Sidoarjo City
14.20 – 14.30	Septian Dwi Pramono	BE-048-243-DGA-AA202	The Profile of High School Students' Literacies of Science, Information, And Technology In Pasuruan
14.30 – 14.40	Arinda Eka Lidiastuti	BE-021-113-DGA-AA86	Analysis of Critical Thinking Ability of High School Students in Malang and Lumajang

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14.40 – 14.50	Yuswa Istikomayanti	BE-023-117-DGA-AA80	Collegiality as the Key to Improving Student Learning in Sustainable Lesson Study Practices
14.50 – 15.00	Muhammad Fahrurrizal A	BE-029-139-DSA-AA91	Comparative Study of Three Levels Inquiry Viewed from Critical Thinking skills in the first grade class of Senior High School
15.00 – 15.10	Hadi Suwono	BE-058-289-DSA-AA250	Scientific Literacy Profile Of Science And Non-Science Students In Senior High Schools
15.10 – 15.20	Atiqah Miftakhul Jannah	BE-060-296-DSA-AA251	Profile and Factors Involved in Students' Scientific Literacy of Senior High Schools
15.20 – 15.30	Fitri Arsih	BE-039-180-DGA-AA280	Critical thinking skills of prospective biology teachers: A preliminary analysis
15.30 – 15.40	Firda Ama Zulfia	BE-065-307-DSA-AA268	Identification of Concepts for Class X Students Viral and Bacterial Material in East Java
15.40 – 15.50	Nurul Fajryani Usman	BE-069-317-DSA-AA287	Exploration of Biology Scientific Students Reasoning Ability at Universitas Negeri Malang
15.50 – 16.00	Sueb	BE-066-308-DGA	Relationship between pro-environmental attitudes and teaching practice from the student's perception in Sidoarjo City
16.00 – 16.10	Triastono Imam Prasetyo	BE-004-033-DGA-AA16B	Variance, Amount and Distribution of Cognitive Levels Class 10 Biology Subjects in Curriculum 2013

**ROOM** : 7

**MODERATOR** : Dahliatul Hasanah, S.Si., M.Sc

Time	Presenter Name	Code	Title
13.00 – 13.10	A. Yusuf	ME-001-006-IGA-AA2	Convergence to Walrasian prices in random matching Edgeworthian economies with bounded rationality
13.10 – 13.20	Hutomo Atman Maulana	ME-008-020-DGA-AA4	Prediction of Rainfall by using Ordinary Kriging near of Train Stations in Bogor
13.20 – 13.30	Nina Sariana	ME-011-026-DGA-AA97	Customer Service Application Simulation Credit Payment With Softcash Flat Method in Green Citayam City Company
13.30 – 13.40	Dicky Susanto	ME-016-047-DGA-AA13	Coordinating Multiple Composite Units as a Conceptual Principle in Time and Money Learning Trajectory
13.40 – 13.50	Selly Anastassia Amellia Kharis	ME-024-080-DGA-AA46	Multiclass Classification of Brain Cancer with Multiple Multiclass Artificial Bee Colony Feature Selection and Support Vector Machine
13.50 – 14.00	Siti Faizah	ME-071-247-DSA-AA204	The Construction of Implicit Warrant Derived from Explicit Warrant in Mathematical Proof
14.00 – 14.10	Dahliatul Hasanah	ME-074-261-DGA-AA245	Modified Fourier Transform for Solving Fractional Partial Differential Equations
14.10 – 14.20	Rm Aziz	MA-005-096-DGA-AA36	Hahslm 472319 In Allah Mathematics For Creating Universe

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14.20 – 14.30	Nur Khusnussa' Adah	MA-004-043-DGA-AA53	A Generalized Statistical Convergence in $n$ -Normed Spaces
14.30 – 14.40	Sagita Charolina Sihombing	MA-006-142-DGA-AA77	Prediction of Palm Oil Agricultural Production in Riau Province with Newton's Interpolation Approach
14.40 – 14.50	I Made Sulandra	MA-007-196-DGA-AA133	A Case Study on Ring: $g(x)$ -nil-clean and Strongly $g(x)$ -clean, but not Strongly $g(x)$ -nil-clean
14.50 – 15.00	Mohamad Yasin	MA-011-272-DGA-AA227	A Web-Based Template Intelligent Tutoring System Design
15.00 – 15.10	Santi Irawati	MA-009-251-DSA-AA232	Existence of Nil Clean Ideal of a Matrix Ring over
15.10 – 15.20	Darmawan Satyananda	MA-013-278-DGA-AA234	Perturbation Operator Analysis on ILS-RVND Algorithm to Complete Capacitated Vehicle Routing Problem (CVRP)
15.20 – 15.30	A. Safitri	MA-012-277-DGA-AA235	Factors of Length Ratio and Mass at Chaos of Double Pendulum System
15.30 – 15.40	Trianingsih Eni Lestari	MA-014-294-DSA-AA248	Parameter Estimation of Poisson Inverse Gaussian (PIG) using the MLE Method and its Application to Maternal Mortality Rate in East Java in 2017
15.40 – 15.50	Nur Atikah	MA-015-295-DGA-AA249	Jackknife Ridge-Robust Regression use MM-Estimator with Welsch Weight Function to Handling Multicolinierity and Outlier
15.50 – 16.00	Purwanto	MA-016-299-DGA-AA257	Odd Star Decomposition of Complete Bipartite Graphs
16.00 – 16.10	Nur Atikah	MA-015-295-DGA-AA261	Parameter Estimation of Spatial Durbin Model (SDM) Using Moment Method
16.10 – 16.20	Vita Kusumasari	MA-018-333-DGA-AA304	Simulation of Hyperbolic Mean Curvature Flow with an Obstacle in The Closed Curve

**ROOM : 8**

**MODERATOR : Rini Retnosari, S.Pd., M.Si**

Time	Presenter Name	Code	Title
13.00 – 13.10	Una Desy Azarine	PE-039-238-DSA-AA198	The Effect of Integrated STEM with Project Based Learning Model on Creative Thinking Skills and Understanding Concept in Static Fluid
13.10 – 13.20	Endang Purwaningsih	PE-049-283-DSA-AA241	Improving Students's Critical Thinking Skills in Senior High School through STEM-Integrated Modelling Instruction
13.20 – 13.30	Mimi Rohazal Yaumi	PE-008-058-DSA-AA283	Modeling Instruction on Kinetic Theory of Gasses to Enhance Conceptual Understanding
13.30 – 13.40	Agus Suyudi	PE-048-280-DGA-AA286	The effect of tapps method on the guided inquiry learning model towards the physics learning achievements for 10th grade students
13.40 – 13.50	Endang Purwaningsih	PE-049-283-DSA-AA341	Improving Student's Creative Thinking Skills in Optic Material through The Development of STEM-Integrated <i>Unit Kegiatan Belajar Mandiri</i>

### The 3<sup>rd</sup> International Conference on Mathematics and Science Education (ICoMSE) 2019

13.50 – 14.00	Nora Indrasari	PE-050-285-DGA-AA242	Designing and Implementing - STEM based Teaching Materials of Static Fluid to Increase Scientific Literacy Skills
14.00 – 14.10	Aulia Siska Yuliana	PE-051-286-DGA-AA243	Application of Teaching Materials Based on 7E-STEM Learning Cycle to Improve Student's Problem Solving Skills
14.10 – 14.20	Suyudi, A.	PE-053-291-DGA-AA288	The effect of argument driven inquiry towards physics problem solving skill in momentum and impulse topic
14.20 – 14.30	Supriyono Koes-H	PE-055-318-DGA-AA289	The Influence of Flipped Classroom in Inquiry Learning to Student's Critical Thinking Skills in Impulse and Momentum
14.30 – 14.40	Ratu Dewi Sri Lestari	PE-062-356-DGA	The Effectiveness of STEM-Based Workbooks by Using Multi Modal Representations to Provision Vocational High School Students Technology Engineering Literacy on the Topic of Direct Current Electricity
14.40 – 14.50	Ogunmade Taiwo Oludare	SE-005-022-IGA-AA5	A Study of Exemplary Teaching Practices in Chemistry Classroom in Lagos State, Nigeria
14.50 – 15.00	Ridha Fitri Andansari	SE-008-085-DGA-AA56	Application of Learning Based on Gimur in Vibration, Waves, and Sound Materials to Improve Student's Learning Outcomes in Junior High School
15.00 – 15.10	Ediyanto	SE-009-099-ISA-AA122	Science Learning for Student with Autism Spectrum Disorder: A Literature Review
15.10 – 15.20	Tri Wahyuni	SE-010-108-DGA-AA42	The Effect of Treffinger Learning Model on The Student's Higher Order Thinking Skills for Science Subject
15.20 – 15.30	Puteri Lailatul Fitriyah	SE-015-155-DGA-AA101	The Improvement of Higher Order Thinking Skills through Learning Cycle 7E on Analyzing Human Excretion System
15.30 – 15.40	Ibrohim	SE-031-232-DGA-AA196	Implementation of Inquiry-Based Learning (IBL) to Improve Students' Understanding of Nature of Science (NOS)
15.40 – 15.50	Finny Tessa Avionita	SE-028-199-DGA-AA263	The Improvement of Scientific Literacy in Pressure Topic Through PBL Model on Junior High School Students
15.50 – 16.00	Erni Yulianti	SE-038-310-DGA-AA267	Evaluating the Effectiveness of Problem-Based Learning in Enhancing Students's Higher Order Thinking Skills
16.00 – 16.10	Alvita Kartika Pryadiani	SE-039-312-DGA-AA270	Enhancing Scientific Literacy in Analyzing Pressure Topic through PjBL STEM Model
16.10 – 16.20	Sugiyanto	SE-041-314-DGA-AA276	The Effect of Integrated STEM in POE Learning Model Towards Analyzing Ability on Work and Energy Concept of 10th Grade Students