

**Rundown of The 2<sup>nd</sup> International Conference on Innovation in Education, Science and Culture  
(ICIESC-2018)  
Le Polonia Hotel Hotel, September 25, 2018**

Time	Activities
07.00 – 08.30	Registration
08.30 - 09.30	<b>Opening Ceremony</b> 1. MC Speech 2. Traditional Welcome Dance 3. Indonesian National Anthem 4. Pray 5. Chairperson Report 6. Welcoming speech of Head of Research Institute 7. Welcoming speech and official opening of Rector of State University of Medan
09.30 - 09.45	Plenary Lecture 1: <p style="text-align: center;"><b>Prof. Dr. Syawal Gultom, M.Pd</b> (Rector of Universitas Negeri Medan)</p>
09.45 – 10.30	Plenary Lecture 2: <p style="text-align: center;"><b>Assoc. Prof. Dr. Tosawat Seetawan</b> (Center of Excellence on Alternative Energy – Thailand)</p>
10.30 – 11.15	Plenary Lecture 3 <p style="text-align: center;"><b>Assoc. Prof. Dr. Madeline Berma</b> (Indigenous Economic and Women Development, Universiti Kebangsaan Malaysia)</p>
11.15 – 12.00	Plenary Lecture 4 <p style="text-align: center;"><b>Dr. Yuji Ohishi</b> (Division of Sustainable Energy and Environmental Engineering, Osaka University - Japan)</p>
12.00 – 12.45	Plenary Lecture 5 <p style="text-align: center;"><b>Dr. Satria Zulkarnaen Bisri</b> (RIKEN Center for Emergent Matter Science (CEMS), Hirosawa, Wako-shi, Japan)</p>
<b>12.45 – 13.30</b>	<b>Lunch Break/ Poster Sessions</b>
<b>13.30 – 15.30</b>	<b>Parallel Session 1</b>
15.30 – 16.00	Break/ Poster Sessions 4
16.00 – 18.00	<b>Parallel Session 2</b>
18.00 – 18.10	Closing in parallel room by moderator

### Schedule of Parallel Session for Oral Presentation

Room:	Kartini ballroom (2 <sup>nd</sup> floor)		Djamin Ginting 1 (2 <sup>nd</sup> floor)	
Moderator :	Dr. Makmur Sirait			Dr. Karya Sinulingga
Time	ID-Code	Speakers	ID-Code	Speakers
13.30-13.45	ABS-2	Invited Speaker: Dr. Wuttichai Chaiphaksa		
13.45-14.00			ABS-4	Ida Duma Riris
14.00-14.15	ABS-19	Nurfajriani	ABS-15	Murniaty Simorangkir
14.15-14.30	ABS-29	Marpongahatun	ABS-20	Muhammad Yusuf
14.30-14.45	ABS-30	Rina Amelia	ABS-21	Fajar Apollo Sinaga
14.45-15.00	ABS-33	Rappel Situmorang	ABS-22	Irma Novrianty Nasution
15.00-15.15	ABS-35	Marsal Risfandi	ABS-25	Abdul Muin Sibues
15.15-15.30	ABS-36	Rima Mediyana Sari	ABS-28	Tita Juwitaningsih
15.30-16.00	<b>Parallel Session Breaks</b>			
16.00-16.15	ABS-37	Ardiansyah Sembiring	ABS-32	Novita Sari Harahap
16.15-16.30	ABS-39	Yasir Arafat Hutapea	ABS-40	Nurhamida Sari Siregar
16.30-16.45	ABS-50	Rika Nailuvar Sinaga	ABS-41	Togi Tampubolon
16.45-17.00	ABS-54	Rosmaini Hasibuan	ABS-61	Janter P. Simanjuntak
17.00-17.15	ABS-55	Kawan Sihombing	ABS-63	Prof. Siman, M.Pd
17.15-17.30	ABS-87	Junaidi	ABS-110	Junaidi
17.30-17.45	ABS-102	Nora Susanti	ABS-129	Hermawan Syahputra
17.45-18.00	ABS-127	Winsyahputra Ritonga	ABS-138	Ernesto Silitonga

Room:	Djamin Ginting 2 (2 <sup>nd</sup> floor)		Patimura (2 <sup>nd</sup> floor)	
Moderator :	Drs. Thamrin, M.Si		Dewi Endriani, S.Pd, M.Pd	
Time	ID-Code	Speakers	ID-Code	Speakers
13.30-13.45	ABS-12	Asrin Lubis	ABS-3	Muhammad Irwan Padli Nasution
13.45-14.00	ABS-42	Marzuki Ahmad	ABS-18	zulfikar fikar
14.00-14.15	ABS-45	Dian Armanto	ABS-26	Thamrin
14.15-14.30	ABS-69	Yulita Molliq Rangkuti	ABS-38	Evi Eviyanti
14.30-14.45	ABS-80	Hanna Dewi Marina Hutabarat	ABS-57	Novita Indah Hasibuan
14.45-15.00	ABS-91	Yulita Molliq Rangkuti	ABS-62	S Sriadhi
15.00-15.15	ABS-95	Chairunisah Chairunisah	ABS-79	Tuti Rahayu
15.15-15.30	ABS-105	Elfitra	ABS-98	Muhammad Badzlan Darari
15.30-16.00	<b>Parallel Session Breaks</b>			
16.00-16.15	ABS-118	Andrea Arifsyah Nasution	ABS-99	Imelda Free Unita Manurung
16.15-16.30	ABS-125	Sri Lestari Manurung	ABS-101	Muliawan Firdaus
16.30-16.45	ABS-126	Faridawaty Marpaung	ABS-103	Mukhtar
16.45-17.00	ABS-128	Hamidah Nasution	ABS-109	Puan Suri Mira Annisa Sembiring
17.00-17.15	ABS-139	Elmanani Simamora	ABS-117	Sitti Rahmah
17.15-17.30	ABS-140	Glory Indira Diana Purba	ABS-123	Hermawan Syahputra
17.30-17.45	ABS-141	Pargaulan Siagian		

**Schedule of Parallel Session for Oral Presentation (Continued)**

<b>Room:</b>	<b>Ngurah Rai (2<sup>nd</sup> floor)</b>		<b>Imam Bonjol (1<sup>st</sup> floor)</b>	
<b>Moderator :</b>	<b>Rafael Lisinus Ginting,S.Pd.M.Pd</b>		<b>Ricky Andi, M.Si</b>	
Time	ID-Code	Speakers	ID-Code	Speakers
13.30-13.45	ABS-43	Febriani Hastini Nasution,	ABS-11	Tengku Ratna Soraya
13.45-14.00	ABS-46	Agus Salim Samosir	ABS-24	Hesti Fibriasari
14.00-14.15	ABS-49	Zulfikar	ABS-31	Andi Wete Polili
14.15-14.30	ABS-66	Sondang R Manurung	ABS-34	Pangondian Hotliber Purba
14.30-14.45	ABS-67	Ade Ros Riza	ABS-48	Nurilam Harianja
14.45-15.00	ABS-68	Zulpikar Ilham	ABS-51	Dadang Hartanto
15.00-15.15	ABS-71	Freddy Tua Musa Panggabean	ABS-52	Syahrizal Syahrizal
15.15-15.30	ABS-76	Anna Juniar	ABS-56	Pasca Dwi Putra
15.30-16.00	<b>Parallel Session Breaks</b>			
16.00-16.15	ABS-90	Makharany Dalimunthe	ABS-58	Irwandy Irwandy
16.15-16.30	ABS-107	Faury Hidayati	ABS-64	David Siahaan
16.30-16.45	ABS-112	Tengku Idris	ABS-65	Balduin Pakpahan
16.45-17.00	ABS-122	Sabani Sabani	ABS-70	Basyaruddin Daulay
17.00-17.15	ABS-130	Muhammad Aswin Rangkuti	ABS-73	Rahmulyani Rahmulyani
17.15-17.30	ABS-131	Fitri Handayani	ABS-81	Marice
17.30-17.45			ABS-84	Ade Andriani

<b>Room:</b>	<b>Hasanuddin (1<sup>st</sup> floor)</b>		<b>Cut Nyak Dhien (1<sup>st</sup> floor)</b>	
<b>Moderator :</b>	<b>Dr. Ratih Baiduri</b>		<b>Dr. Muhammad Amin, ST, MPd</b>	
Time	ID-Code	Speakers	ID-Code	Speakers
13.30-13.45	ABS-53	Mhd Azhali Siregar	ABS-16	Nathanael Sitanggang
13.45-14.00	ABS-86	Dilinar Adlin	ABS-47	Muhammad Amin
14.00-14.15	ABS-88	Nurhasanah Siregar	ABS-74	Zulkifli Matondang
14.15-14.30	ABS-92	Budi Halomoan Siregar	ABS-83	Efendi Napitupulu
14.30-14.45	ABS-96	Martozet	ABS-94	Robert Silaban
14.45-15.00	ABS-97	Yusnizar Heniwyaty	ABS-104	Putri Kemala Dewi Lubis
15.00-15.15	ABS-100	Sri Minda Murni	ABS-111	Selamat Triono
15.15-15.30	ABS-106	Adek Cerah Kurnia Azis	ABS-113	Muslim
15.30-16.00	<b>Parallel Session Breaks</b>			
16.00-16.15	ABS-108	Isda Pramuniati	ABS-133	Peny Husna Handayani
16.15-16.30	ABS-116	Mesra	ABS-134	Peny Husna Handayani
16.30-16.45	ABS-119	Ahmad Bengar Harahap	ABS-135	Nurjannah
16.45-17.00	ABS-120	Feriyansyah Feriyansyah	ABS-136	Ratih Baiduri
17.00-17.15	ABS-121	Prihatin Ningsih Sagala	ABS-137	Dina Ampera
17.15-17.30	ABS-124	Izwita Dewi		
17.30-17.45	ABS-132	Jubliana Sitompul		

### Poster Session

<b>Time</b>	<b>ID-Code</b>	<b>Poster Name</b>
<b>12.45-13.30</b>	ABS-10	Saronom Silaban
	ABS-13	Bajoka Nainggolan
	ABS-14	Gulmah Sugiharti
	ABS-23	Nurul Fadhilah
	ABS-44	Samsuddin Siregar
	ABS-59	Sahat Siagian
	ABS-75	R. Mursid
	ABS-77	Samsidar Tanjung
	ABS-78	Abdul Hasan Saragih
	ABS-82	Erma Yulia
	ABS-89	Agus Junaidi
	ABS-93	Keysar Panjaitan

## Table of Contents

ID-Code	Title	Page
ABS-1	<b>Thermophysical Properties of Molten Core Materials Measured by Levitation Technique</b> <i>Yuji Ohishi, Toshiki Kondo, Hiroaki Muta, Ken Kurosaki</i>	1
ABS-2	<b>Non-Proportionality and Photon Interaction Study of CLYC Scintillation Material by Compton Scattering Technique</b> <i>Wuttichai Chaiphaksa, Wiraporn Hongtong, Wasu Cheewasukhanont, Jakrapong Kaewkhao</i>	1
ABS-3	<b>The Effectiveness of Learning Arabic Vocabulary Using Multimedia Technology</b> <i>Rahmaini, Muhammad Irwan Padli Nasution</i>	2
ABS-4	<b>Antibacterial Activity of Extract Ethyl Acetate and Ethanol of Raru (<i>Vatica pauciflora</i> Blume)</b> <i>Ida Duma Riris, Endang Sulistyarini Gultom, Lazuardi, Albinus Silalahi, Dewi Purba, Andriani Lubis</i>	2
ABS-5	<b>Student Skills of Innovative Thinking Using Thermoelectric Devices for STEAM Education in ASEAN</b> <i>Urai Seetawan, Atiwat Seetawan, Chatchavit Seetwan, Kunchit Singsookand Tosawat Seetawan</i>	3
ABS-10	<b>Temperature Effect on Expression of Recombinant Human Prethrombin-2 in <i>Escherichia coli</i> BL21(DE3) ArcticExpress</b> <i>Saronom Silaban, Murniaty Simorangkir, Shabarni Gaffar, Iman Permana Maksum, Toto Subroto</i>	3
ABS-11	<b>The Implementation of Linguistic Functional Systemic Approach on The Reading Comprehension to Improve Students Reading Competence</b> <i>Tengku Ratna Soraya, Emzir, Sabarti Akhadiah</i>	4
ABS-12	<b>Context Exploration: An Example from The Implementation at Discrete Mathematics Classroom</b> <i>Asrin Lubis, Andrea Arifsyah Nasution, Yasifati Hia, Arnah Ritonga</i>	4
ABS-13	<b>Development of Guidance Chemistry Practicum on Material Solubility and Solubility Products for Senior High Schools (SMA) Based on Projects</b> <i>Bajoka Nainggolan, Yuni Mantana Nainggolan, Wesly Hutabarat</i>	5
ABS-14	<b>Different Learning Results Learned with Problem Based Learning and Discovery Learning Using The Real Lab Media in Material Solubility Product Constant (KSP)</b> <i>Gulmah Sugiharti, Zurma Nilam</i>	5
ABS-15	<b>Secondary Metabolites Phytochemical Analysis of n-Hexana, Ethyl Acetate and Ethanol Extracts of Sarang Banua (<i>Clerodendrum fragrans</i>) Leaves</b> <i>Murniaty Simorangkir, Sondang Herawaty Saragih, Bajoka Nainggolan, Saronom Silaban</i>	6
ABS-16	<b>A Model for Constructing The Emotional Maturity of Lecturers</b> <i>Nathanael Sitanggang, Putri Lynna A. Luthan, Abdul Hamid, K</i>	6
ABS-18	<b>Improving Teacher Competence in Preparing Learning Devices Through Sustainable Guidance Management at State 3 Vocational School of Tanah</b>	7

**Putih, Rokan Hilir Riau District**

*Zulfikar*

- ABS-19**    **The Effect of Polyetylen Glycol and Diisosianat Toluene Resin Composition on Mechanical Strength and Thermal Properties of Palm Oil Wood With Compregnation Methode**    7  
*Nurfajriani, Herlinawati, Makmur Sirait*
- ABS-20**    **A Theoretical Study on The Reaction Mechanism of Acetalization of 3-Chlorobenzaldehyde Catalyzed by Halogen Acid**    8  
*Muhammad Yusuf, Ahmad Kamil Nasution*
- ABS-21**    **Effects of Giving Red Fruit Oil on Creatinine and Urea Levels of Rats (*Rattus norvegicus*) on Maximal Physical Activity**    8  
*Fajar Apollo Sinaga, Pangondian Hotliber Purba, Novita Sari Harahap, Rika Nailuvar Sinaga, Ramlan Silaban*
- ABS-22**    **The Sustainability of Technology Construction of Mandailing Traditional House in Sibanggor Julu Village**    9  
*Irma Novrianty Nasution, Syahreza Alvan, Bambang Hadibroto, Sarwa*
- ABS-23**    **Development of Zombie Tsunami Games in Medan City MIN Students**    9  
*Nurul Fadhillah, Indra Kasih, Sanusi Hasibuan*
- ABS-24**    **Analysis of The Conditionnel Verb in The Novel *L'Été des Lucioles***    10  
*Hesti Fibriasari, Agustina Bancin*
- ABS-25**    **Entrepreneurship Training in Labour Training Centre at North Sumatera**    10  
*Abdul Muin Sibuea, Dadang Mulyana, Rahmat Husein*
- ABS-26**    **The Implementation of Hybrid Learning Strategies to Improve Students Learning Outcomes of Introduction to Microeconomics Subject in Economic Education Department Universitas Negeri Medan**    11  
*Thamrin, Abdul Hasan Saragih, Reza Aditia*
- ABS-28**    **Antibacterial Activity of *Sida rhombifolia* L Extracts Against Oral and Dental Bacteria**    11  
*Tita Juwitaningsih, Sri Adelia Sari, Siti Chairunisa, Iis Siti Jahro*
- ABS-29**    **Fluorescent Property of Carbon Nanodots Synthesized by Microwave Method from Crystal Nanocellulose as Precursor**    12  
*Marpongahtun, Saharman Gea, Yugia Muis, Andriayani, Yolandha Putri, Averroes F Piliang*
- ABS-30**    **Factors Influence GLUT-4 Levels of Type 2 Diabetes Mellitus Patients in Medan City, Indonesia**    12  
*Rina Amelia, Novita Sari Harahap*
- ABS-31**    **The Language Choice by The Student of The French Department, UNIMED**    13  
*Andi Wete Polili*
- ABS-32**    **Effect of Red-fleshed Pitaya (*Hylocereus polyrhizus*) to Increase Glutathione Peroxidase Levels in Male Rats (*Rattus norvegicus*) The Induced Oxidative Stress**    13  
*Novita Sari Harahap, Rina Amelia*
- ABS-33**    **Structural and Optical Properties of Er<sup>3+</sup> doped Sodium Phosphate Glasses System for Laser Medium Candidate**    14

*Rappel Situmorang, Alamria Marbun, Abd. Hakim, Deo D. Panggabean,  
Juniastel Rajagukguk, Jakrapong Kaewkhao*

<b>ABS-34</b>	<b>The Relationship of Anxiety and Aggressivity to Sport Performance in Competitive Male Karateka Kumite</b> <i>Pangondian Hotliber Purba, Rahman Situmeang</i>	14
<b>ABS-35</b>	<b>Liver Function Test Elevation in Moderate Intensity Physical Exercise</b> <i>Marsal Risfandi, Novita Sari Harahap, Rika Nailuvar Sinaga</i>	15
<b>ABS-36</b>	<b>The Effect of Massage to Decrease Lactic Acid Levels after Anaerobic Physical Activity</b> <i>Rima Mediyana Sari, Novita Sari Harahap, Nurhamida Sari Siregar</i>	15
<b>ABS-37</b>	<b>Mechanical Properties Optimization of Cellulose Nanofiber/Graphene Oxide Nanocomposite Produced by Mixing Method</b> <i>Aditia Warman, Saharman Gea, Darwin Yunus Nasution, Ardiansyah Sembiring, Nami Panindia, Yasir Arafat Hutapea</i>	16
<b>ABS-38</b>	<b>Schoology Implementation in The Teaching of Production Orale Pre Elementaire</b> <i>Evi Eviyanti</i>	16
<b>ABS-39</b>	<b>Improvisation of Mechanical Properties on Natural Rubber Latex Nanocomposites with Addition of Cellulose Nanocrystals (CNCs) Percolated by Carbon Nanotubes (CNTs) in Various Concentrations</b> <i>Amir Hamzah Siregar, Saharman Gea1, Diana Alemin Barus, Nami Panindia, Yosatria Juanka Sibarani, Yasir Arafat Hutapea</i>	17
<b>ABS-40</b>	<b>Effect of Orange (Citrus Sinensis) Juice Consumption on Muscle Damage and Leucocyte Count in Tarung Derajat Athletes</b> <i>Nurhamida Sari Siregar, Bangun Setia Hasibuan, Rima Mediyana Sari</i>	17
<b>ABS-41</b>	<b>Utilization of Landsat Satellite Imagery to Observe Environmental Change at Sinabung Mountain Area</b> <i>Togi Tampubolon, Juniar Hutahean, Rita Juliani</i>	18
<b>ABS-42</b>	<b>Improving Mathematical Logical Thinking Ability of Students Through Realistic Mathematic Education Approach</b> <i>Marzuki Ahmad, Eva Yanti Siregar, Dwi Putria Nasution</i>	18
<b>ABS-43</b>	<b>Analysis of Mathematical Concepts Understanding of College Students in The Form of Differential and Integral in Physical Mathematics Subject</b> <i>Febriani Hastini Nasution, Dedes Asriani Siregar</i>	19
<b>ABS-44</b>	<b>The Effectiveness of D2Serve Learning Model to Improve Students Skill in Playing Table Tennis in Medan</b> <i>Samsuddin Siregar</i>	19
<b>ABS-45</b>	<b>Developing An RME Teachers Book Using Scientific Approach of 2013 Curriculum</b> <i>Dian Armanto, Elvi Mailani, Edy Surya</i>	20
<b>ABS-46</b>	<b>Effect of Aerobic Training on Low-Density Lipoprotein Cholesterol and High-Density Lipoprotein Cholesterol among Obese Women</b> <i>Agus Salim Samosir, Fajar Apollo Sinaga, Jumadin I.P, Rika Nailuvar Sinaga, Nimrot Manalu</i>	20
<b>ABS-47</b>	<b>Generic and Specific Relevant Soft Skills for Increasing Competence of Vocational Teachers Candidates</b>	21

*Muhammad Amin, Salman Bintang, Adi Sutopo*

<b>ABS-48</b>	<b>The Effectiveness of the Use of TV5 Monde Website as a Learning Media on Increasing Vocabulary of French Language Students' in Medan State University</b>	21
	<i>Nurilam Harianja, Hesti Fibriasari</i>	
<b>ABS-49</b>	<b>The Effect of Leadership Properties Against Effectiveness of Leadership of School Heads (Case Study on Head of Vocational School 3 of White Portrait Rohil, Riau)</b>	22
	<i>Zulfikar</i>	
<b>ABS-50</b>	<b>The Effect of Moderate Intensity Physical Activity on Ureum and Creatinine Serum in Untrained Male Students</b>	22
	<i>Rika Nailuvar Sinaga, Marsal Risfandi, Novita Sari Harahap3</i>	
<b>ABS-51</b>	<b>Leadership System in Overcoming Criminal Acts(Case Study: Medan City Police Resort Police)</b>	23
	<i>Dadang Hartanto, Hasan Sazali, Nasrullah Hidayat</i>	
<b>ABS-52</b>	<b>Model of Poor Fishermen Empowerment in Kelurahan Pasia Nan Tigo Padang West Sumatra</b>	23
	<i>Syahrizal, Rinaldi Eka Putra, dan Yevita Nurti</i>	
<b>ABS-53</b>	<b>Basic Score Values of Angkola-Mandailing Society Context of Legal Pluralism</b>	24
	<i>Mhd Azhali Siregar, Madiasa Ablisar</i>	
<b>ABS-54</b>	<b>Decrease of Malondialdehyde Levels by Consuming Red Guava Fruit Juice in Maximal Physical Activity</b>	24
	<i>Rosmaini Hasibuan, Fajar Apollo Sinaga, Jumadin I.P, Marshal Risfandi, Rika Nailuvar Sinaga, Nimrot Manalu</i>	
<b>ABS-55</b>	<b>The Development of Sensitive and Selective Potentiometric Biosensor for Urea Assay</b>	25
	<i>Kawan Sihombinga, Primsa Kabana, Rica Ayulinovaa, Manihar Situmoranga and Wesly Hutabarat</i>	
<b>ABS-56</b>	<b>Institutional Ownership and Tax Avoidance: Empirical Evidence in Indonesia and Singapore</b>	25
	<i>Pasca Dwi Putra, Dedy Husrizal Syah, Baginda Halim Simatupang</i>	
<b>ABS-57</b>	<b>Demonstration Learning Method in Business Multimedia Study: Practice Approach</b>	26
	<i>Novita Indah Hasibuan, Thamrin, Pasca Dwi Putra</i>	
<b>ABS-58</b>	<b>Reception Ecrite Teaching and Learning Model Based on Multiliteracies Approach (A Strategy in Improving Students Multiliteracies)</b>	26
	<i>Irwandy, Elvi Syahrin, Pengadilan Sembiring</i>	
<b>ABS-59</b>	<b>Development of Interactive Learning Model Based on E-Learning on Instructional Design Course</b>	27
	<i>Sahat Siagian, Pardomuan NJM Sinambela, Yasaratodo Wau</i>	
<b>ABS-61</b>	<b>Experimental Study of Indonesian Biomass-Fired Based Stove Performance Assessment Using Coconut Shell</b>	27
	<i>J.P. Simanjuntak , E. Daryanto, B.H. Tambunan, Lisyanto, Robert Silaban</i>	
<b>ABS-62</b>	<b>Model of Feasibility Assessment and Effectiveness of Multimedia Based Learning</b>	28



*S.Sriadhi, Ulibasa Sidabutar, Amirhut Dalimunthe*

<b>ABS-63</b>	<b>Pyrolysis of Plastic Waste into Fuel Oil</b> <i>Siman , Tambunan BH, Simanjuntak JP</i>	28
<b>ABS-64</b>	<b>Movement Analysis of Forehand Drive Tennis for Beginer Player</b> <i>David Siahaan, Pangondian Hotliber Purba, and Nurkadri</i>	29
<b>ABS-65</b>	<b>Implicit Meaning of Impersonal Verb Falloir and Other Impersonal in French and Their Equivalence in Indonesian Language</b> <i>Balduin Pakpahan, Pengadilen Sembiring, Nurilam Harianja, Angel Marni</i>	29
<b>ABS-66</b>	<b>Preliminary Study on The Development of Book Reviewed from The Value of The Character of Students of Physics Education of The Faculty of The State University of Medan</b> <i>Sondang R Manurung, Mara Bangun Harahap</i>	30
<b>ABS-67</b>	<b>Movement Analisis of Lay Up Shot Basketball</b> <i>Ade Ros Riza, Indra Kasih, Zulpikar Ilham</i>	30
<b>ABS-68</b>	<b>Development of Football Electronic Books to Enhance Technical Knowledge and Tactics of Football Games</b> <i>Zulpikar Ilham, Ade Ros Riza, Nimbrot Manalu</i>	31
<b>ABS-69</b>	<b>Numerical Solution of SIR Model with Time Delay by Direct Adams Moulton Method</b> <i>Yulita Molliq Rangkuti, Abil Mansyur, Budi Halomoan Siregar</i>	31
<b>ABS-70</b>	<b>The Development of Assessment Instruments in Playing Volleyball</b> <i>Basyaruddin Daulay, David Siahaan, Muhammad Faisal Ansari Nasution</i>	32
<b>ABS-71</b>	<b>Implementation of Problem Based Learning Aided Media Virtual Lab and Stifin Test Methode to Increase Student Achievement of Medan Cahaya High School</b> <i>Freddy Tua Musa Panggabean , Saronom Silaban, Murniaty Simorangkir</i>	32
<b>ABS-73</b>	<b>Developing Guide Book of Group Guidance Used PKC-KO Technique to Group Guidance Practice Subject of Guidance and Counseling Students</b> <i>Rahmulyani, Pastiria Sembiring, Albert Pauli Sirait</i>	33
<b>ABS-74</b>	<b>Needs Analysis and Effectiveness of Learning Outcomes with Competence-Based Learning Application</b> <i>Zulkifli Matondang, Syafiatun Siregar, Sempurna Perangin-angin</i>	33
<b>ABS-75</b>	<b>The Effect of Learning Models Interactive Multimedia Based Integrated 4c and HOTSon Instructional System Design (ISD) in Learning Results</b> <i>R. Mursid, Abdul Hasan Saragih, Naeklan Simbolon</i>	34
<b>ABS-76</b>	<b>The Implementation of Guided Inquiry Model to Increase Student Achievements and Science Process Skill on The Practicum of Analysis and Identification of Cations Ag<sup>+</sup>, Hg<sup>2+</sup> and Pb<sup>2+</sup></b> <i>Anna Juniar, Albinus Silalahi, Retno Dwi Suyanti</i>	34
<b>ABS-77</b>	<b>The Effect Learning Model Based on Character Education Through Multicultural Scientific Approach and Thinking Style on Local History Learning Results</b> <i>Samsidar Tanjung, Hidayat, Syarifah, R. Mursid</i>	35
<b>ABS-78</b>	<b>The Effect of Constructivistic Learning Model Character Through Lesson Study and Critical Thinking on Learning Planning in Learning</b>	35

## Result

*Abdul Hasan Saragih, R. Mursid, Harun Sitompul*

ABS-79	<b>The Innovation of Learning and Learning Media in Web-Based Dance Teaching Techniques in Dance Education Fbs Unimed Students</b> <i>Dr. Tuti Rahayu, Dra. M.Si</i>	36
ABS-80	<b>Validation of Standard Test Instruments to Improve Mathematical Skilling Capabilities of Mathematics Student</b> <i>Hanna Dewi M. Hutabarat, Erlinawaty Simanjuntak, Yasifati Hia</i>	36
ABS-81	<b>Reading in French (Reception Ecrite Elementaire) A2 Based Technology Pedagogi Content Knowledge (Tpack)</b> <i>Marice Isda Pramuniati Jubliana Sitompul</i>	37
ABS-82	<b>The Interactive Instructional Multimedia Development of Material Testing</b> <i>Erma Yulia</i>	37
ABS-83	<b>Development of Interactive Multimedia-Based Teaching Materials for Learning Technique Mechanical</b> <i>Efendi Napitupulu , Nono Sebayang, Sempurna Perangin-angin</i>	38
ABS-84	<b>Utilization of Mentimeter Application in Blended Learning at University</b> <i>Ade Andriani, Izwita Dewi, Prihatin Ningsih Sagala, Nurhasanah Siregar</i>	38
ABS-86	<b>Historical Analysis, Presentation Form, and Function Tortor Naposo Nauli Bulung in Mandailing Batak Society</b> <i>Dilinear Adlin, Ruth Hertami, Dyah Nugrahaningsih</i>	39
ABS-87	<b>Analysis Effects of Exposure time on Long Steel Stainless Steel Material Proper which Experience Stress Corrosion Cracking</b> <i>Junaidi, Soni Hestukoro, Ahmad Yanie, Irfansyah Siregar, Eddy</i>	39
ABS-88	<b>Development of Mathematical Reasoning Instruments on Set and Logic Subject in Universitas Negeri Medan</b> <i>Nurhasanah Siregar, Tiur Malasari Siregar, Ade Andriani</i>	40
ABS-89	<b>The Simulation of Damping Power System Oscillation Based on Phase-Compensator and Pid-Controller for Single Machine Infinite Bus</b> <i>Agus Junaidi, Rudi Salman, Rahmaniar, Abd. Hamid K, Nizwardi Jalinus, Ganefri</i>	40
ABS-90	<b>Innovation and Development of Evaluation Tools of KKNI Based for Learning Subject of Process Evaluation and Chemical Learning Results</b> <i>Makharany Dalimunthe, Gulmah Sugiharti, Feri Andi Syuhada</i>	41
ABS-91	<b>Fully Developed Free Convection of Micropolar Fluid in A Vertical Channel with Chemical Reaction</b> <i>Yulita Molliq Rangkuti, Hermawan Syahputra, Habibis Saleh</i>	41
ABS-92	<b>Improving Undergraduate Students Higher Order Mathematical Thinking Skills in Solving Pedagogical Problems by Development of Mathematics Learning Strategy Module Based On Problem-Based Learning Strategy</b> <i>Budi Halomoan Siregar, Kairuddin</i>	42
ABS-93	<b>Model Development of Desgn Instructional Based on Kerangka Kualifikasi Nasional Indonesia (KKNI) Using Project Based Learning Strategy</b>	42

*Keysar Panjaitan, Benyamin Situmorang, Husni Wardi Tanjung*

- ABS-94**    **The Instructional Material Development Based on National Qualification Frame of Indonesia to Improve Technical Skills of Machine Technical Student**    43  
*Robert Silaban, Julaga Situmorang, Siman*
- ABS-95**    **An Optimization Production Planning Model Using Goal Programming Method in Priority**    43  
*Chairunisah*
- ABS-96**    **Form of Tortor Parsiarabu in Tomok Village**    44  
*Martozet SSn.,M.A dan Dr. Nurwani SST.,M.Hum*
- ABS-97**    **Analysis of Top Design and Floor Design Tortor Batak Toba Motion**    44  
*Yusnizar Heniwayaty M.Hum., Ph.D*
- ABS-98**    **The Influences of Blended Learning with WhatsApp Android Application to Students Responses in Medan State University**    45  
*Muhammad Badzlan Darari, Suci Frisnoiry*
- ABS-99**    **The Effect of Argument Driven Inquiry Model Using Virtual Laboratory to Increase The Scientific Argumentation Abilities and Literation Ability of PGSD Students**    45  
*Imelda Free Unita Manurung, Elvi Mailani, Akden Simanihuruk*
- ABS-100**    **The Use of Pronoun Kita in The System of Linguistic Politeness in Indonesia**    46  
*Sri Minda Murni, Mutsyuhito Solin, Zainuddin, Juli Rahmadani Hsb, Atiqah Naisyah, Sofia Idawati Lubis*
- ABS-101**    **Designing A Web-Based Scaffolding System to Support Mathematical Argumentation Skills**    46  
*Muliawan Firdaus*
- ABS-102**    **Antibacterial Activity of Zanthoxylum acanthopodium DC Extract on Bacillus subtilis, and Salmonella typhi**    47  
*Nora Susanti, Friska Sihombing, Tita Juwitaningsih dan Destria Roza*
- ABS-103**    **The Design of A Web-Based Assessment for Measuring Graphics and Visual Reasoning Skills**    47  
*Mukhtar*
- ABS-104**    **Effect of Cooperative Learning Model Group Investigation (Group Investigation) Against Student Learning Outcomes on Course Introduction to Accounting**    48  
*Putri Kemala Dewi Lubis, Dita Eka Pertiwi, Deni Adriani*
- ABS-105**    **Improving Scientific Publications Students Through Mini Research Synergistic Six Task KKNi Education Math State University Of Medan**    48  
*Elfitra, M. Badzlan Darari, Erlinawaty Simanjuntak*
- ABS-106**    **Development of Teaching Materials for Illustration Subjects in The Form of Online Comics to Increase Interest in Students of The Fine Arts of Department in Making 6 (Six) The Indonesian National Qualifications Framework Revitalization 2018 Curriculum.**    49  
*Adek Cerah Kurnia Azis*
- ABS-107**    **Development of Learning Devices Using Cooperative Learning Model Based on Malay Culture to Improve Students Generic Science Skill and**    49

### **Self-Regulated Learning**

*Faury Hidayati, Sahyar, Derlina*

<b>ABS-108</b>	<b>The Use and Developing of Audio-Visual Media Materials on The Website <a href="http://www.marmiton.org">www.marmiton.org</a> in French Language Listening Learning Skill</b>	50
	<i>Isda Pramuniati, Marice, Wahyuni Sadah</i>	
<b>ABS-109</b>	<b>Developing Comic Strips and Board Game in Teaching Oral Language Skills for Students of The English Department</b>	50
	<i>Puan Suri Mira Annisa, Rafika Dewi Nst, Farida Hanim Nst</i>	
<b>ABS-110</b>	<b>Analysis Effects of Exposure time on Long Steel Stainless Steel Material Proper Which Experience Stress Corrosion Cracking</b>	51
	<i>Junaidi, Soni Hestukoro, Ahmad Yanie, Irfansyah Siregar, Eddy</i>	
<b>ABS-111</b>	<b>Efforts to Improve Motivation and Learning Outcomes of Students of Education Department Mechanical Engineering Faculty of Medan State University Engineering Through Interactive E-Material Development Materials Drawing E-Learning-Based Engineering</b>	51
	<i>Selamat Triono, Lisyanto and Third Nur Basuki</i>	
<b>ABS-112</b>	<b>Self Regulation Profile of Biology Education Study Program Students at Universities Throughout Riau Province</b>	52
	<i>Tengku Idris</i>	
<b>ABS-113</b>	<b>Interactive Video Tutorial Development Based on Curriculum Based on Indonesian National Qualification Framework in The Machinery History Basic Competency Competence</b>	52
	<i>Muslim, Selamat Riadi, Nur Basuki</i>	
<b>ABS-116</b>	<b>Review of The Model Picture Students of The Fine Art of Department Language and Art of Faculty Medan State of University</b>	53
	<i>Mesra</i>	
<b>ABS-117</b>	<b>Pakpak Dairi Dance Innovation Learning by E-Learning Schoology in FBS Unimed Dance Education Product Students</b>	53
	<i>Sitti Rahmah S.Pd., M.Si</i>	
<b>ABS-118</b>	<b>Encouraging Problem Solving Skills of Higher-Educationn Students Through Blended Learning at Multivariable Calculus Classroom</b>	54
	<i>Denny Haris, Andrea Arifsyah Nasution, Dian Armant</i>	
<b>ABS-119</b>	<b>Short Story Development of Der Gegenwart Prosa for German Drama Manuscriptt Using Adjacency Pair Model</b>	54
	<i>Ahmad Bengar Harahap</i>	
<b>ABS-120</b>	<b>Interested Muslim Middle Class in Choosing Education</b>	55
	<i>Feriyansyah, Apiek Gandamana, Muhammad Iqbal</i>	
<b>ABS-121</b>	<b>Pengembangan Butir Soal Mata Kuliah Teori Peluang Berbasis Hots (Higher-Order Thinking Skills) di Prodi Pendidikan Matematika</b>	55
	<i>Prihatin Ningsih Sagala</i>	
<b>ABS-122</b>	<b>Making Instrument Test of Basic of Mechanics and Heat Based on Higher Order Thinking Skills</b>	56
	<i>Sabani, Yulifda Tanjung, Wawan Bunawan</i>	
<b>ABS-123</b>	<b>Mobile Based Learning Model in Response to Industrial Revolution 4.0 in Higher Education</b>	56

<b>ABS-124</b>	<b>Preliminary Studies Development of Mathematics Learning Devices Based on Local Cultural Wisdom for Junior High School Students in North Sumatera</b> <i>I Dewi, N Siregar and A Andriani, A Ritonga</i>	57
<b>ABS-125</b>	<b>Integrated Development of Teaching Materials 6 (Six) KKN Duty to Increase Self Regulated Learning (SRL) Model Students Learning Through Creative Problem Solving (CPS)</b> <i>Sri Lestari Manurung, Elfitra, Suci Frisniory</i>	57
<b>ABS-126</b>	<b>Application of Graf Dyeing for Optimization of Traffic Light Settings in Intersection</b> <i>Faridawaty Marpaung, Arnah Ritonga</i>	58
<b>ABS-127</b>	<b>Utilization of Cyclic Natural Rubber to Modified Asphalt</b> <i>Winsyahputra Ritonga, Muhammad Aswin Rangkuti, Septian Prawijaya</i>	58
<b>ABS-128</b>	<b>The Estimation of Based Reproduction Number of Dengue Fever Epidemic by Considering The Aquatic Phase</b> <i>HamidahNasution, Faiz A, NurRahmi</i>	59
<b>ABS-129</b>	<b>Classification of Medicine Plants Using Glcm Features, Moment Invariant and Artificial Neural Network Clasifier</b> <i>Hermawan Syahputra, Zulfahmi Indra, Didi Febrian, Dhea Putri Adriani</i>	59
<b>ABS-130</b>	<b>Preliminary Study: Development of Algodoo-Based Newtonian Teaching Materials to Improve Student Conceptual Understanding with Peer Instruction Method</b> <i>Muhammad Aswin Rangkuti, Wisnyahputra Ritonga, Ida Wahyuni, Septian Prawijaya</i>	60
<b>ABS-131</b>	<b>Development of Physics Learning Devices Using Cooperative Models Based on Aceh Culture to Improve Generic Skills of Science and Honesty of Students</b> <i>Fitri Handayani, Derlina, Sahyar</i>	60
<b>ABS-132</b>	<b>The Use of French Grammar in Writing North Sumatra Culinary Recipes</b> <i>Jubliana Sitompul</i>	61
<b>ABS-133</b>	<b>Implementation of The Childrens Pattern in Family Based on Cultural Success in Medan City</b> <i>Peny Husna Handayani, Apiek Gandamana, Farihah</i>	61
<b>ABS-134</b>	<b>Development of Science Teaching Materials Oriented Science Literation for Early Children</b> <i>Peny Husna Handayani, Sariana Marbun, Srinahyanti</i>	62
<b>ABS-135</b>	<b>Collective Experience of Women Victims of Violence Enforcing Military Operations (DOM) in East Aceh</b> <i>Dr. Nurjannah, M.Pd</i>	62
<b>ABS-136</b>	<b>Multicultural Education Based on North Sumatra Folklore as A Source of Character Building in Early Childhood</b> <i>Ratih Baiduri, Leylia Khairani, Puspitawati</i>	63
<b>ABS-137</b>	<b>Learning Model of Helped Discovery Learning Computer Based Intruccion (CBI) on Fashion Technology of Fashion Education Study Program of Universitas Negeri Medan</b>	64

<b>ABS-138</b>	<b>Influence of Initial Properties of Binder on Intensifying Pozzolanic Reaction on Concrete</b> <i>Ernesto Silitonga, Ronald Butar-butar, Sutrisno, Sarwa, Jintar tampubolon</i>	65
<b>ABS-139</b>	<b>Better Bootstrap Confidence Intervals for Parameter estimators of Regression-Kriging Model Based on Semiparametric Bootstrapping in Deterministics Simulation</b> <i>Elmanani Simamora, Susiana, Eri Widyastuti</i>	65
<b>ABS-140</b>	<b>The Improvement of Student Communication and Mathematical Disposition Ability Through Problem Based Learning Model at Unimed FMIPA Students</b> <i>Glory Indira Diana Purba, Edy Surya</i>	66
<b>ABS-141</b>	<b>The Development Of Learning-Tools Oriented Learning Problem Based To Improve Ability Solving Problem and Self-Studying Of Students Sma Negeri 1 Kualuh Selatan</b> <i>Pargaulan Siagian, Dwi Purwanti, and Zulamry</i>	67
<b>ABS-142</b>	<b>Development of Badminton Smash Learning Model for Unimed Students</b> <i>Usman Nasution, Suryadi Damanik, Asep Suharta</i>	67
<b>ABS-143</b>	<b>The Development of Android Based Learning Media in Basketball Subject to Establish the Ability of FIK Unimed Students</b> <i>Rifqi Aufan, Onyas Widianingsih, Miftahul Ihsan</i>	68
<b>ABS-144</b>	<b>Learning Design of Indonesian Phonology Based on Digital Learning Management System</b> <i>M. Oky F. Gafari and Achmad Yuhdi</i>	68
<b>ABS-145</b>	<b>Movement Analisis of Lay Up Basketball</b> <i>Ade Ros Riza , Indra Kasih and Zulpikar</i>	69
<b>ABS-146</b>	<b>Improving Skills Smash Ball with R &amp; D in Faculty of Sport Science Medan State University</b> <i>Indra Kasih</i>	69
<b>ABS-147</b>	<b>Development of Module of Tennis Engineering and Tactical Training Method Based on Curriculum KKNi Tennis Field</b> <i>Nurkadri</i>	70
<b>ABS-148</b>	<b>Development of Soccer Learning with Tactical Approach</b> <i>Mahmuddin, Amir Supriadi, Nurkadri,</i>	70
<b>ABS-149</b>	<b>Level of Ability to Use Weight Training Tools for Students of Department of Sports Sciences Universitas Negeri Medan</b> <i>Zulaini, Marsal Risfandi, Agus Salim Samosir</i>	71
<b>ABS-150</b>	<b>Development of Self-Learning Module beetwen Basic Swimming Education Students with SBMPTN Pathway FIK Unimed SNMPTN</b> <i>Zulfan Heri, Nustan Hasibuan</i>	71
<b>ABS-151</b>	<b>The Development of Basic Gymnastic Teaching Materials with Hybrid Learning Model Based on KKNi</b> <i>IndraDarma Sitepu, M. Faisal A. Nasution, Ibrahim</i>	72
<b>ABS-152</b>	<b>The Applying of the V.A.K (Visual, Auditory, Kinesthetic) Method in Improving Learning Outcomes in Basketball Dribbling on Physical</b>	72

**Education, Health and Recreation Students Faculty of Sport Science ,  
State University Of Medan 2018/2019 Academic Year**  
*Muhammad Chairad, Saipul Ambri Damanik, Bangun Setia Hasibuan*

- ABS-153** **Design and Development of "Speed Light" SAQ Lighting and Training  
Equipment Digital Lighting Digitalization Based on Infra Red Motion  
Sensor** 73  
*Amir Supriadi, Imran Akhmad, Rahma Dewi*
- ABS-154** **Curriculum Design for Coaching and Training Center of Archery in the  
Unimed** 73  
*Budi Valianto*