



**ACEIVE 2018**

**RUNDOWN**

The 2<sup>nd</sup> Annual Conference of Engineering, ICT and  
Implementation on Vocational Education

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03 November 2018



# RUNDOWN

The 2nd Annual Convergence of Engineering Impelemntation on Vocational Education

No	Times	Activities	PIC/Moderator	
1	08.00 - 09.00	Registration	Committe	
2	09.00 - 09.10	Opening Ceremony	Khairun Nissa	
3	09.10 - 09.15	National Anthem	Riando Natalia Sihombing	
4	09.15 - 09.20	Pray	Selamat Riadi, M.T	
5	09.20 - 09.30	Chairman Report	Drs. Sriadhi, ST., M.Pd. M.Kom. Ph.D	
6	09.30 - 09.45	Welcoming Speech by Dean of FT Unimed	Prof. Dr. Harun Sitompul, M.Pd	
7	09.45 - 10.30	Welcoming Speech by Rector of Unimed And Presentation KS-I	Keynote Speaker I: Prof. Dr. Syawal Gultom, M.Pd	Moderator : Sahala Siallagan,Ph.D
8	10.30 - 10.45	Souvenir Session	Committe	
9	10.45 - 11.00	Break		
10	11.00 - 12.30	Presentation KS-2	Keynote Speaker 2: Dr. Nur Azlina Mohamed Mokmin	Moderator : Sahala Siallagan,Ph.D
11	12.30 - 14.00	Break		
12	14.00 - 16.30	Parallel Sessions	Moderator	Room
		1. Engineering	Janter P.Simanjuntak Ph.D	I
		2. Vocational Education	Dr. Lisyanto, MS Dr. M.Amin, M.Pd	II
		3. ICT and Education	Dr. Janner Simarmata M.Kom Dr. Sarwa, M.Pd	III
		4. Teaching and Learning	Dr. Zulkifli Matondang, M.Pd Dr. Dina Ampera, M.Pd	IV
13	16.30 - 17.00	Writing Clinics	Drs. Sriadhi, ST.,M.Pd., M.Kom., Ph.D	
14	17.00 – 17.10	Closing/certificate	Committe	

# PARALLEL SESSI

## RUNDOWN

I : Engineering

Moderator : Janter P. Simanjuntak

Paper ID	Title	Author (s)
[ENG-01]	The Effect of Type F Admixture and Silica Fume Substitution to Cement on Early Strength Self Compacting Concrete	Rahmi Karolina, Larry Djono
[ENG-02]	Influence of Cooling Slope Technique on Mechanical Properties of Composites Reinforced SiC Particles	T. Tugiman
[ENG-03]	Study of peat gasification characteristics in a simple stove: Effect of peat sizes and air-flow	Janter P. Simanjuntak
[ENG-04]	Factors of Land Use Change, Case Study: In Kota Juang, Bireuen, Indonesia	Aris Munandar
[ENG-05]	Effect of Organic matter on stabilization work of problematic soil	Ernesto Silitonga, Meuthia Fadila, Jintar Tampubolon, Iskandar Tambunan
[ENG-06]	The Effect of Current on Shear Strength and Nugget Size in Resistance Spot Welding of SCGA270D-45 sheet metal	Qomaruddin, R. Hengki Rahmanto, Wahyu Setiadi, Kiswiru Yudha Ningsih
[ENG-07]	Design and Analysis Rectangular Patch Array Microstrip Antenna for S Band Maritime Radar Application	Muhammad Irsan Assyauri Pane, Ali Hanafiah Rambe, Syafruddin HS
[ENG-08]	Analysis Of The Use Effectiveness Of Lighting Lamps Type For Household Needs	Muhammad Amin and Nelson Sinaga
[ENG-09]	The Effect Of The Use Of Fuel Types On Torsion, Power And Emission Of Gas For K3ve Gasoline Vehicles With Compression Ratio 11:1	Suherman, Khoiri, Andi Bahar
[ENG-10]	Brick Cost Analysis Based On Dimensions	Putri Lynna A. Luthan, Nathanael Sitanggang, Harun Sitompul
[ENG-11]	Bottom Ash As Cement Substitution In Sub Base Road Pavement	Indra jaya Pandia, Irwan S Sembiring, Ika Puji Hastuty
[ENG-12]	Evaluation Of Compressive Strength Investigation On Jobmix Test Object And Core Drill Test Object	Torang Sitorus
[ENG-13]	Value Engineering Implementation On Construction Project Of Suzuya Plaza Tanjung Morawa	Syahrizal
[ENG-14]	Life Cycle Cost Identification On Building Maintenance Of Badan Pengelola Keuangan Daerah Pematangsiantar	Syahrizal
[ENG-15]	Analysis Of Bamboo Mechanical Properties In The Medan With Finite Element Method	Muhammad Agung Putra Handana, Besman Surbakti, Hadijah Utami, Rahmi Karolina
[ENG-16]	Effect of Particle size distribution of added material on improving concrete strength	Ronald butar-butur, Parulian Purba, Parlaungan Hutagaol, Juanda Sianipar, Ernesto Silitonga

Paper ID	Title	Author (s)
[ENG-17]	Pyrolysis of Plastic Waste into Fuel Oil	Siman, Bisrul Hapis Tambunan, Janter P. Simanjuntak
[ENG-18]	The Characteristics and Management Model of a relocation residential for refugees affected eruption of Mount Sinabung	Rachmat Mulyana, Meuthia Fadila, Kemala Jeumpa
[ENG-19]	Distinguish percentage variation of adhesive on waste burning promptness of durian skin biomass	Sahala Siallagan and Indra Koto
[ENG-20]	Relations of Atterberg Limits Against Grain Size of Kaolinite Clay	Nahesson Panjaitan
[ENG-21]	Single Tuned Passive Filter Analysis To Reduce Harmonic Flows On The Manufacturing Industry	Muhammad Dani Solihin, Surya Hardi, Syafruddin HS
[ENG-22]	The Effect of Polystyrene on Concrete Mechanical Properties	Rahmi Karolina, Rinaldy Simanjuntak, M.A.P Handana

## II. Vocational Education

Moderator : **Dr. Lisyanto, M.S**  
**Dr. Muhammad Amin M.Pd**

Paper ID	Title	Author (s)
[VoE-01]	Analysis of the Difficulties of Vocational High School Teachers in Mechanical Engineering Program in Implementing 2013 Curriculum in Medan City	Robert Silaban, Janter Simanjuntak, Lixpen Saritua Panjaitan
[VoE-02]	Effectiveness of Scientific Blended Learning – Product Oriented Against Student Competency Enhancement	Muhammad Amin and Asahan Pasaribu
[VoE-03]	Engineering Student’s Perceptions with Self-Assessment System as an Evaluation of Student Performance in Generating Product	Kinanti Wijaya, Harun Sitompul, Syafiatun Siregar and Sutrisno
[VoE-04]	Analysis Of Needs To Based Competency For Building Construction Workers	Zulkifli Matondang, Syafiatun Siregar, Sempurna Perangin-angin, Harun Sitompul
[VoE-05]	Development Of Entrepreneurship Instructional Materials Using Productive Creative Instructional Strategies	Husni Wardi Tanjung, Sumarno, Firdaus.
[VoE-06]	Welding Technology Development Modules For Analyzing The Power Weld Joints	Khoiri, Keysar Panjaitan.
[VoE-07]	Results Of Basic Learning Pattern’s Learned By Memorization Learning Model	Dina Ampera, Nurhayati, Farihah, Armaini Rambe, Rosnelli
[VoE-08]	Conceptual Thinking in Fashion Deconstruction (How to Being Creative)	Nining Tristantie
[VoE-09]	Efforts To Improve Motivation And Learning Outcomes of Students of Department Mechanical Education, Faculty of Engineering, Medan State University Through Interactive E-Material Development for E-Learning-Based Technical Drawing Course	Selamat Triono, Lisyanto and Nur Basuki
[VoE-10]	The use of learning media about the bearing capacity of the foundation	Suhairiani

<b>Paper ID</b>	<b>Title</b>	<b>Author (s)</b>
[VoE-11]	Identification of Level of Quality of Aromatherapy Message Oil from Purification Process of Aromatic Lemongrass Oil on Students at SMK Negeri 8 Medan.	Lina Pangaribuan, Indah Novitasari Tanjung, Ernesto Silitonga
[VoE-12]	The Development Of Student Ability In Mechanics And Heat Subject In Blended Learning By Using Edmodo Program	Muhammad Kadri, Teguh Febri Sudarma
[VoE-13]	The Influence of Learning Strategies and Learning Motivation towards Understanding of Reading Texts for Students of Class X SMK PAB 12TH Saentis Year 2018/2019 Academic Year	Suriwaty ,Naeklan , Mukhtar
[VoE-14]	The Influence of Transformational Leadership, Intrinsic Motivation, and Job Satisfaction on Affective Commitments of State Vocational Teachers in West Nias Regency	Jusup Debataraja, Sukarman Purba, Wesly Hutabarat
[VoE-15]	A Work-Based Learning E Deal Model Building Construction Workers	Syafiatun Siregar, Nizwardi Jalinus, Fahmi Rizal, Harun Sitompul, Jintar Tampubolon
[VoE-16]	Needs Analysis of SMK (Vocational High School) Supervisors in Batubara District.	Rahma
[VoE-17]	The Relationship of Project Work Learning And Performance of Industrial Practice With Work Readiness In The Field of Welding 12th Grade Students Field of Engineering Skills In Binjai City 2017/2018	Eka Daryanto, Arief Muhammad

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### III. ICT and Education

**Moderator : Dr. Janner Simarmata M.Kom  
Dr. Sarwa M.Pd**

<b>Paper ID</b>	<b>Title</b>	<b>Author (s)</b>
[ICT-01]	A Study on International Cooperation Information System of Universitas Negeri Medan	Maya Oktora, Abil Mansyur, Winsyahputra Ritonga
[ICT-02]	Macromedia Flash Media Development In Continental Food Knowledge Learning	Mastarina Barus, Frida Dinar, Adikahriani, Pertiwi Septiana Siregar
[ICT-03]	Interactive Video Tutorial Development Based On Curriculum Based On Indonesian National Qualification Framework On Competency Machining Basic Basis	Muslim, Selamat Riadi
[ICT-04]	The Development of Instructional Video Media for Character Make Up Based On Dick and Carey on Cosmetology Education Courses State University Of Medan	Rohana Aritonang, Irmiah Nurul Rangkuti, Lina Pangaribuan, Dian Maya Sari
[ICT-05]	Development Of Physics Learning Based On Website With Problem Based Learning	Teguh Febri Sudarma, Ratna Tanjung

[ICT-06]	Development of Traditional Dance Video Tutorials Internalized Character Education in Arts and Culture Subjects	Indaria Anggita, Dina Ampera.
[ICT-07]	The Effect Of Using Adobe Premiere-Based Interactive Multimedia On Students' Tata Hidang Achievement Of Tata Boga Study Program Of Engineering Faculty In Medan State University	Nikmat Akmal
[ICT-08]	The Interactive Instructional Multimedia Development Of Material Testing	Erma Yulia, Izwar lubis.
[ICT-09]	Development Of Interactive Learning Media In Indonesian Language Lessons In The First Class Viii Of Junior High School	Merry Damanaik, Abdul Hasan Saragih, R. Mursid
[ICT-10]	Development Of E-Book Media As A Teaching Material In Eyes Anatomy Pysiology	Desy Afyanti Lubis , Marnala Tobing , Dian Mayasari , Lina Pangaribuan , Siti Wahida
[ICT-11]	Learning Innovation Through Media E-Book On College Food And Central Indonesian Food Processing	Sulistiawikarsih , Mastarina Barus , Siti Sutanti, Mawaddah Azizah
[ICT-12]	The Development Of Booklet Media Construction With Various Patterns - Various Collar Models For Fashion Design Study Students, Universitas Negeri Medan	Halida Hanim, Fariyah, Nurhayati
[ICT-13]	Model Of Feasibility Assessment And Effectiveness Of Multimedia Based Learning	S Sriadhi, Uli Basa Sidabutar, Amirhud Dalimunthe
[MaE-01]	Empowering Visionary Lecturers in the Development of Industrial Engineering Learning Devices at the Fakultas Teknik Universitas Negeri Medan	Rosnelli, Fahmi Syahputra
[MaE-02]	The Influence Of Managerial Supervision Of Principal To Organizational Climate, And Work Satisfaction On Performance Of Elementary School Principal In Medan	Tirauyah, Paningkat Siburian, Abdul Muin Sibuea
[MaE-03]	Implementation of Permendikbud Policy Number 28 of 2016 concerning Quality Assurance of Primary and Secondary Education in Medan City	Bahgie Mahtonami, Darwin, Arif Rahman
[MaE-04]	The development of Production Management Model of Based on Competence Expertise at SMK Negeri 1 Panyabungan	Ahmad Imadi Batubara, Rosmala Dewi, Ibnu Hajar
[MaE-05]	Development Of Management Model To Build Students' Self Resilience From Drug Abuse	Japar Sidik, Rosmala Dewi, Irwandi
[MaE-06]	Implementation Of Counseling Guidance Management At SMP Negeri 1 Tigapanah, Karo Distric	Eka Daryanto, Ruth Vitriani Ginting, Salman Bintang

**IV. Teaching and Learning****Moderator: Dr. Zulkifli Matondang, M.Pd.  
Dr. Dina Ampera, M.Pd**

<b>Paper ID</b>	<b>Title</b>	<b>Author (s)</b>
[TEL-01]	The Effect of Learning Model and Critical Thinking Toward Learning Outcome in Economics of The Tenth Graders in Senior High School	Hermidayani, Mukhtar Hamonangan Tambunan.
[TEL-02]	Electrotechnicals' blended learning in the various types of learning style	Hamonangan Tambunan, Marsangkap Silitonga, Nelson Sinaga
[TEL-03]	Effectiveness Of Using Job Sheets On Concrete Stone Work Practices	Syafiatun Siregar, Harun Sitompul, Kinanti Wijaya, Ahmad Andi Solahiuddin
[TEL-04]	Competency and Capability Teaching Analysis FEP Student's Education Building Study Program Engineering Faculty Unimed	Nono Sebayang, Zulkifli Matondang, Kinanti Wijaya
[TEL-05]	Analysis of Resistance Factors Implementation KKNi Oriented Curriculum with Six's Task at Electrical Engineering Department	Adi Sutopo, Dadang Mulyana, Mustamam
[TEL-06]	Development Of A "Product Design" Guidelines Book Based On Indonesia National Curriculum Framework (Kkni) To Develop Creative Industries Students Of Education Department Of Family Welfare State University Of Medan	Fatma Tresno Ingtyas, Nuwairi Hilda, Dina Ampera
[TEL-07]	Development of The Experimental Food Book as a Research Guide for Food and Nutrition Student	Lelly Fridiaty, Esi Emilia, Yuspa Hanum, Erli Mutiara, Rasita Purba, Risti Rosmiati, Yesica Marcelina Romauli Sinaga
[TEL-08]	Research on the Development of Teaching Materials of Micronutrient Metabolism based on KKNi Curriculum and Contextual Content	Esi Emilia, Rasita Purba, Ana Rahmi, Yesica Marcelina Romauli Sinaga, Risti Rosmiati
[TEL-09]	Development Of Product Design Teaching Materials For Construction Sectors	Sarwa
[TEL-10]	The Effect Of Cooperative Learning And Learning Interest On Students' Ict Achievement	Baharuddin, Juhriyansyah Dalle, Riswan Sianturi, Abdul Hamid K, Muhammad Dani Solihin
[TEL-11]	Development Of Competency On The Module To Draw Various Parts Of Clothing Fashion Layout Studies Program State University Of Medan	Hotmaria Tampubolon, Nurhayati, Ermidawati, Eka Rahma Dewi.
[TEL-12]	The Influence Of The Use Of Problem Based Learning Model On The Results Of Food Life Practices	Frida Dinar, Mastarina Barus, Ana Rahmi, Siti Sutantie

<b>Paper ID</b>	<b>Title</b>	<b>Author (s)</b>
[TEL-13]	Development Of Work Sheet Mathematical Students Based On Guided Discovery Learning On Differential And Its Application Of Students Of Building Engineering Education	Enny Keristiana Sinaga, Nono Sebayang, Suhairiani
[TEL-14]	Management of Engineering Physics Learning in the Electrical Engineering Education Study Program Fakultas Teknik Universitas Negeri Medan	Rosneli, Dadang Mulyana
[TEL-15]	Improved learning outcomes of electric power transmission courses through project-based learning models	Dadang Mulyana, Mustamam, Arif Rahman, Rosneli
[TEL-16]	The Effect of Learning Model and Critical Thinking Skill toward Learning Outcome in Culture-Art of the Eighth Graders of Junior High School	Marlina Uli Silaen, Muhammad Badiran, Dina Ampera
[TEL-17]	The Influence of Organizational Culture, Principal's Leadership And Achievement Motivation On Teacher's Performance In Primary Schools In Patumbak Deli Serdang District	Marthen MW Dandirwalu, Sukarman Purba, Saut Purba
[TEL-18]	The Effect Of Learning Strategies And Creative Thinking Toward Learning Outcomes Of Science Learning In Sdn 10 Sinabang	Husnah Lubis, R. Mursyid, Keysar Panjait
[TEL-19]	Implementation of School Principal Academic Supervision at SMK Swasta Harapan Alwashliyah Sigambal Labuhan Batu District	Ahmad Zulham Rambe
[TEL-20]	The Development of Reading Instructional Material Based on Literacy with Local Culture in Learning Bahasa Indonesia at SD Negeri 014727	Maratun Hasanah, Abdurrahman Adisaputera, Evi Eviyanti
[TEL-21]	The Development of Mathematic Instructional Administration to Improve Problem Solving Ability of the Eighth Graders of SMP Negeri 2 Gebang	Yudi Umara, Edi Syahputra, Mukhtar
[TEL-22]	The Influence of Utilization of Information and Communication Technology, Career Development and Work Environment on Teacher Job Stress in SDN Cluster 1 and 3 Bandar Subdistrict, Bener Meriah Regency, Aceh Province	Nuri Nikmatin, Darwin, Sukarman Purba



Paper ID	Title	Author (s)
[TEL-23]	Analysis of Implementation of Principals' Tasks in Implementing Academic Supervision Activities in SMA Swasta Sisingamangaraja Tanjungbalai.	Hasnah Arfah
[TEL-24]	A DEVELOPMENT OF COMPUTER-BASED INTERACTIVE LEARNING MEDIA IN SEX EDUCATION MATERIAL FOR EARLY CHILDHOOD LEVELON KINDERGARTEN SCHOOL OF MEDAN JOHOR	Yohana Sazlila, Harun Sitompul, and Abdul Munir
[TEL-25]	A Review of Research On The Teaching and Learning Of Database Course Problems	Nuraeni Dahri