17th International CDIO Conference - Online

PAPER PRESENTATIONS (PROCEEDINGS)

http://www.cdio2021.chula.ac.th/

Updated 2021-06-19

#	ID	Title	Authors (**Bold** = Registered participant)	Track	Presentation Format
1	1	**Assessment for Academic Learning during the COVID-19 Pandemic**	***Sanidda Tiewtoy*** *and* ***Natha Kuptasthien***	CDIO Implementation	Poster
2	2	**Using the Sustainable Development Goals (SDGs) in Automatic Control Courses**	***Svante Gunnarsson*** *and Inger Erlander Klein*	CDIO Implementation	Podium
3	3	**Applying the CDIO Framework when Developing the ECIU University**	***Svante Gunnarsson*** *and Maria Swartz*	CDIO Implementation	Podium
4	4	**Effects of Migrating Large-Scaled Project Groups to Online Development Teams**	***Daniel Einarson*** *and* ***Marijana Teljega***	CDIO Implementation	Podium
5	5	**On-Site and Online Combination for Student Exchange Program**	***Natha Kuptasthien*** *,* ***Sanidda Tiewtoy*** *, Dong Joo Song and Dong Jin Kang*	CDIO Implementation	Podium
6	6	**Project-Based Learning Implementation - Collaboration Between University and Industry**	*Carmen Jaca,* ***Marta Ormazabal*** *, Mikel Arizmendi and Carmen Blanco*	CDIO Implementation	Podium
7	7	**The Implementing of CDIO Concept in the NKRAFA**	Thapanat Buaphiban and **Kiatkulchai Jitt-Aer**	CDIO Implementation	Podium
8	9	**A CDIO Competency Framework for VINH University's Teaching Faculty**	***Yen Tran*** *, Trần Bá Tiến and Nguyễn Xuân Bình*	CDIO Implementation	Podium
9	10	**The Win-Win of Synchronizing Last Semester's Computer Engineering Courses**	***Kamilla Klonowska*** *,* ***Fredrik Frisk*** *and* ***Daniel Einarson***	CDIO Implementation	Podium
10	11	**Sustainable Development in Chemical Engineering Curriculum: Review and Moving Ahead**	***Sin Moh Cheah***	CDIO Implementation	Podium
11	13	**Students' Views of Self-Regulated Learning Strategies in a Blended Module**	***Sharon Yap***	Engineering Education Research	Podium
12	15	**Using Critique Techniques to Improve Programming Skill**	***Elynn Chee***	CDIO Implementation	Podium
13	16	**Evaluation of Spiral Curriculum for Chemical Engineering Using CDIO Framework**	***Katerina Yang*** *,* ***Sin Moh Cheah*** *and Siew Teng Phua*	CDIO Implementation	Poster
14	17	**CDIO Approach in Developing Solution Minded Learners**	***Handojo Djati Utomo*** *and* ***Geok Ling Soo-Ng***	CDIO Implementation	Podium
15	18	**Development of Student Sustainability Awareness, Attitudes and Actions**	***Sayed Mohamad Soleimani*** *, Abdullah Mughrabi, Maram Al Far and Martin Jaeger*	Advances in CDIO	Podium
16	19	**Towards an Intuitive and Objective Assessment for Project-Based Modules**	***Chew Lin Chia***	CDIO Implementation	Podium
17	20	**Oral Group Examination Method to Evaluate Collaborative and Individual Learning**	***Karin Stenderup*** *and* ***Sanne Sandberg Overby***	Engineering Education Research	Podium
18	21	**Building Student Agency Through Online Formative Quizzes**	***Louise Pick*** *and Jonathan Cole*	Engineering Education Research	Podium
19	25	**A Report of Cross-Course-Typed PBL and Students' Self-Assessment**	***Kuniaki Yajima*** *, Koji Kawasaki, Yoshikatsu Kubota, Shinji Chiba, Jun Suzuki and Hisashi Takeshima*	CDIO Implementation	Poster
20	26	**Designing Blended-Type Integrated Learning Experience Using Core Principles of Learning**	***Sin Moh Cheah***	CDIO Implementation	Podium
21	27	**Transfer of Self-Directed Learning Competency**	***Yunyi Wong*** *, Poh Hui Chua and* ***Sin Moh Cheah***	CDIO Implementation	Podium

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22	28	**Enhancing Workplace Learning Through Structured Internship**	*Kallen Chong, Poh Hock Neo, Sock Hiang Sing, Thachinamoorthi Krishnan and* ***Keng Wah Choo***	CDIO Implementation	Podium
23	29	**Evidence-Based Reflective Practice for Engineering Repeat Students in Flipped Learning**	***Ying-Wei Leong***	CDIO Implementation	Poster
24	31	**Assessing Students' Professional Criticism Skills – a Mathematics Course Case**	***Jens Bennedsen***	CDIO Implementation	Podium
25	32	**CDIO - Can We Continue the Way We Are?**	***Aldert Kamp***	Advances in CDIO	Podium
26	33	**Developing and Assessing Teamwork with Enhanced Team-Based Learning Approach**	***Geok Ling Soo-ng*** *and* ***Nengfu Tao***	CDIO Implementation	Podium
27	34	**CDIO Approach for Development of Temperature Rise Monitoring System**	***Nengfu Tao*** *, Xiaodong Li and Jinping Lu*	CDIO Implementation	Podium
	35	**Streamlining Academic Change Processes Through Engineering Principles***	***Felicia Leander Zaar*** *and Magnus Andersson*	CDIO Implementation	Podium
28	37	**Utilizing Gamification in Mathematics Courses for Engineers to Promote Learning**	***Tamar Margalit*** *, Lior Rosenzweig, Yonutz Stancescu and Mika Gabel*	Engineering Education Research	Podium
29	38	**Projects Evaluation in IT Engineering Curriculum of Tra Vinh University**	*Nhiem Ba Nguyen,* ***Nam Thi Phuong Phan*** *, Quoc Khac Nguyen, Mien Phuoc Doan, Mai Thi Truc Pham, Tu Minh Le and Duy Khanh Nguyen*	CDIO Implementation	Podium
30	39	**Integrated CAD and Reverse Engineering to Enhance Conception and Design**	***Ahmed Tamkin Butt*** *and* ***Petros Siegkas***	CDIO Implementation	Podium
31	41	**Maximising Student's Learning Through Learning Analytics**	***Mark Wan*** *and Siew Kee Chong*	CDIO Implementation	Podium
32	45	**Work-Based Learning Model to Develop Self-Directed Learners in Optometry Education**	***Sumasri Kallakuri*** *,* ***Li Li Tan*** *and Adrian Yeo Chao Chuang*	CDIO Implementation	Podium
33	46	**Students' Perceptions of Multicultural Group Work in International Engineering Classroom**	***Cui Ping*** *, Ad Kleingeld, Sonja Rispens and Ruurd Taconis*	Engineering Education Research	Podium
34	50	**From Lab-Based to Home-Based: Application of Blended Learning**	***Siew Ling Tan*** *and Eunice Goh*	CDIO Implementation	Podium
35	51	**CDIO Approach on O2O International Learning Model Through SDG Course**	***Alicia Amelia Elizabeth Sinsuw*** *, Tsung-Hsien Chen, Chen-Yeon Chu, Chen-Hua Hsueh and Ben-Ray Jai*	CDIO Implementation	Podium
36	52	**A New Approach to Engineering Education at Tsuruoka Kosen**	***Ryo Shomura*** *, Hiroyuki Arafune, Takashi Morinaga, Sou Takahashi, Ryo Satoh, Shinichiro Hoshina, Mitsuaki Yamada, Yuko Usuba and Koichi Watanabe*	CDIO Implementation	Poster
37	59	**Gauging the Impact of CDIO and Momentum for Further Change**	***Louise Pick*** *,* ***Charlie McCartan*** *, Kathryn Fee and* ***Paul Hermon***	Engineering Education Research	Podium
38	60	**Students' Readiness for Demand-Driven Education System in NIT**	***Namita Maharjan*** *, Nayani Daranagama, Yoshihiro Ominato, Michiaki Omori, Shozo Urabe, Noboru Fukuda, Katsumi Ichimura and Yasuko Tsuchida*	Engineering Education Research	Poster
39	61	**Implementation of E-Practical Lessons during Pandemic**	*Boon-Seng Chew, Boon-Chor Seow, Chee-Seng Tan, Hwang-Keng Leck,* ***Chow-Leong Chia*** *and Ser-Khoon Toh*	CDIO Implementation	Podium
40	63	**Choosing the Right D For Design**	***Joseph Timothy Foley*** *and Marcel Kyas*	Advances in CDIO	Podium
41	64	**Adapting CDIO Framework to Cultivate Self-Directed Learning During COVID-19 Pandemic**	*Toh Ser Khoon, Chia Chow Leong,* ***Hua Joo Tan*** *and Safura Anwar*	CDIO Implementation	Podium

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42	67	**Cultivating Higher-order Thinking Skills in English-as-a-foreign-language Technical Reading Instruction**	***Huey-nah Cindy Chou***, *Bing Jean Lee and Ben-Ray Jai*	Engineering Education Research	Podium
43	68	**Continuous Assessment with Flipped Learning and Automated Assessment**	***Nicolás Serrano Bárcena***, *Carmen Blanco,* ***Kevin Calderón***, *Iñigo Gutierrez and María Serrano*	CDIO Implementation	Podium
44	69	**Teaching Reform of Combining Innovation Ability Training with Engineering Education**	***Wang Zhiqiang***, *Shen Hua, Liu Long, Ning Minghao and Yang Yong*	CDIO Implementation	Poster
45	70	**Data Analytics of Students Continuous Assessment Activity Data**	***Kevin Calderón***, *María Serrano,* ***Nicolás Serrano Bárcena*** *and Carmen Blanco*	CDIO Implementation	Podium
46	74	**Introduction to Industrial Design and Product Case Studies**	***Petros Siegkas***	CDIO Implementation	Podium
47	76	**Assessing Curriculum Agility in a CDIO Engineering Education***	***Suzanne Brink***, ***Carl Johan Carlsson***, ***Mikael Enelund***, *Fredrik Georgsson,* ***Elizabeth Keller***, ***Reidar Lyng*** *and* ***Charlie McCartan***	Advances in CDIO	Podium
48	79	**An Innovative Approach to Interdisciplinary Education Through Domain Sector Courses**	***Yaroslav Menshenin*** *and* ***Clement Fortin***	Advances in CDIO	Podium
49	81	**C Programming Language Teaching Based On CDIO**	***Shuhong Wang***, *Jiandong Liu, Yiqun Dong and Qingxuan Wei*	CDIO Implementation	Poster
50	82	**Navigating Uncharted Waters: A One-Year German-Finnish Faculty Exchange**	***Patric Granholm***, ***Juha Kontio***, *Andreas Baumgart and Martina Schulze*	CDIO Implementation	Podium
51	83	**Designing a New Industry-Related Specialization in Electronic Systems Design**	***Dominik Osinski***, *Ashkan Moradi and Dag Roar Hjelme*	CDIO Implementation	Podium
52	87	**Implementation and Evaluation of a New PBL Assessment Mechanism**	***Mohamad Farhat***, *Michel Nahas and Hassan Salti*	CDIO Implementation	Podium
53	90	**Flipped Learning Analytics Real-Time (FLARET) Framework for Assessing Student Learning**	***Thian-Siong Choo***	CDIO Implementation	Poster
54	91	**Developing Curricula by Black Box Method**	***Patric Granholm***, ***Kari Haajanen***, ***Mari Ketola*** *and* ***Anne Norström***	CDIO Implementation	Podium
55	92	**Improving Students Engagement with Active Learning in Engineering Optimisation Lectures**	***Gauti Asbjörnsson*** *and Kanishk Bhadani*	CDIO Implementation	Podium
56	96	**Intended Learning Outcomes of Seven Finnish B.Sc. in IT Programs**	***Janne Roslöf***	CDIO Implementation	Poster
57	98	**Development of Engineering Workspaces for Hands-on and Project-Based Learning**	***Yuliya Petrova***, *Ekaterina V. Sevast'yanova, Valeria A. Bezuevskaya and Ekaterina V. Kukhtenko*	CDIO Implementation	Poster
58	101	**CDIO Approach to Write Reference Models for Training Decision Skills**	*Thordur Vikingur Fridgeirsson,* ***Haraldur Audunsson*** *and* ***Asrun Matthiasdottir***	CDIO Implementation	Poster
59	102	**Online Teaching Modes from the Perspective of Constructivism**	***Dan Mu***, *Hong Li and Ping Song*	CDIO Implementation	Poster
60	104	**Experiences from Applying the CDIO Standard for Sustainable Development in Institution-Wide Program Evaluations**	***Anders Rosén***, *Hélène Hermansson, Göran Finnveden and* ***Kristina Edström***	Advances in CDIO	Podium
61	105	**Implementing EduScrum Methodology in Online Project-Based Learning**	***Andrei Zapevalov***, *Dmitrii Kuzin, Anton Osipov,* ***Pavel Grishmanovskiy*** *and Larisa Zapevalova*	CDIO Implementation	Poster
62	109	**Design Exercise Strategy for Locus of Control and Self-Efficacy**	***Geza Fischl*** *and Bengt Erlandsson*	Engineering Education Research	Podium

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63	111	**Impact Analysis of Academic Reforms for CDIO Implementation: Case Study**	***Thiruvengadam S.J.***, *Baskar Subramanian, Saravana Perumaal S., Anitha D. and Jeyamala Chandrasekaran*	CDIO Implementation	Podium
64	125	**Adaptive and Flexible Online Learning During COVID-19 Lockdown**	***Soumya Kanti Manna***, *Ghazal Sheikholeslami, Angela Richmond-Fuller, Rihana Ishaq and Anne Nortcliffe*	CDIO Implementation	Podium
65	131	**Student Engagement: A Proposed Optional Standard**	***Kuntinee Maneeratana*** *and Danai Wangsaturaka*	Advances in CDIO	Podium
66	132	**From Digitalized Education to COVID-19 Restricted Education: Challenges and Differences**	***Jerker Björkqvist*** *and Tommy Hämäläinen*	Engineering Education Research	Podium
67	137	**Basic Need Frustration in Motivational Redesign of Engineering Courses**	***Gunter Bombaerts***	Engineering Education Research	Podium
68	138	**Flexible Tactics to Face COVID-19 and Social Outbreak in Chile**	***Rodrigo Pascual***, ***Nicolás Bravo*** *and Catalina Quiñones*	Engineering Education Research	Poster
		*Papers was published in the 16th CDIO International Conference Proceedings			

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PROJECTS IN PROGRESS PRESENTATIONS

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Updated 2021-06-14

#	ID	Title	Authors (**Bold** = Registered participant)	Track	Presentation Format
1	53	**Embedded Software Development Talent Training Oriented by Innovation and Entreprenurship**	***Yanli Xing***, ***Xue Li*** *and Shaoshuai Liu*	CDIO Projects in Progress	Podium
2	55	**From Misunderstanding to Religion Tolerance in CDIO Based Multidisciplinary Course**	***Bing-Jean Lee***, *Kuang-Mao Deng, and Chen-Hua Hsueh*	CDIO Projects in Progress	Podium
3	58	**Project Management Application for Engineering Program CDIO Process in Asia**	*Sasipraba T.,* ***Kaja Bantha Navas Raja Mohamed***, *Jeberson Retna Raj, Prakash S. and B. Badiru Adedeji*	CDIO Projects in Progress	Poster
4	73	**Promotion of Student Success at the School of Engineering, UCSC-Chile**	*Claudio Cárdenas,* ***Patricio Cea***, *Mariella Gutiérrez, Verónica Mayorga and Paz Céspedes*	CDIO Projects in Progress	Podium
5	78	**Suitable Integrated Learning Experiences for Increasing Industrial Management Student's Competency**	***Anirut Pipatprapa***, *Sukanda Klinkhajon, Chartaya Nilplub, Atchalawan Taodon, Pranee Sakullikalatesima and Pansri Pimpru*	CDIO Projects in Progress	Poster
6	84	**Active Learning during COVID-19 at the FI-UCSC: Temporal Adjustments?**	***Claudia Martinez-Araneda***, *Matilde Basso, Claudio Oyarzo, Marcia Muñoz and Michelle Bizama*	CDIO Projects in Progress	Podium
7	85	**Application of CDIO skills in Artificial Intelligence and Analytics Projects**	***Teck June Ho***	CDIO Projects in Progress	Podium
8	93	**Teaching Reform of "Linux Management and Application" Based on CDIO**	***Li Xue***, ***Yanli Xing*** *and Wang Haoping*	CDIO Projects in Progress	Poster
9	103	**Flexible Curriculum as a Hierarchical Puzzle**	***Andrei Zapevalov***, *Larisa Zapevalova and* ***Pavel Grishmanovskiy***	CDIO Projects in Progress	Poster
10	117	**Lateral Thinking Course Implementation in CDIO-Based Undergraduate Programmes**	***Thiruvengadam S. J.*** *and* ***Venkatasubramani V.R.***	CDIO Projects in Progress	Podium
11	127	**Effective Initiation to CDIO Framework Using Design-Thinking: The D-I-C-O Process**	***Imane Aboutajedyne***, *Ahmed Aboutajeddine and Yassine Salih Alj*	CDIO Projects in Progress	Podium
12	129	**E-Practice Environment to Learn Programming for Problem Solving Course**	*Rajeev Sukumaran and* ***Vairavel G.***	CDIO Projects in Progress	Podium