

**USINDO GRASP****LEAD****LEADERS IN  
EDUCATION  
ADVANCEMENT  
AND DIGITAL  
LITERACY****BATCH  
1****PARTICIPANT PROFILE****Course dates: November 10, 2023 – February 17, 2024**

*The United States-Indonesia Society's mission is strengthening mutual understanding between the United States and Indonesia, enhancing the bilateral relationship, and deepening the U.S.-Indonesia Strategic Partnership. The USINDO GRASP Leaders in Education Advancement and Digital Literacy (LEAD) is supported by USAID and Arizona State University under the USAID Higher Education Partnership Initiative (HEPI).*

# USINDO LEADERS IN EDUCATION ADVANCEMENT AND DIGITAL LITERACY (LEAD)



## ANNISA JUSUF

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Annisa Jusuf is an Associate Professor at the Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung, Indonesia. Annisa has 18 years of experience in research in the areas of solid mechanics, impact engineering, and transportation safety, including computational & experimental mechanics. Her recent activities include undertaking research funded by various sources and contributing papers in international & national journals and conferences. She is also a reviewer for several journals, including the Journal of Engineering and Technological Sciences, the Journal of the Society of Automotive Engineers Malaysia, etc. She teaches Engineering Statics, Mechanics of Materials, Aircraft Materials and Manufacturing Methods, Aircraft Structural Analysis, and others. Annisa also was appointed as a Visiting Professor at the Ho Chi Minh City University of Technology Vietnam in 2022.



## ARIE WIBOWO

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Arie Wibowo is currently a lecturer at Materials Engineering study program, Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung (FMAE ITB). Currently, he is teaching several courses including Structural Identification and Chemical Composition of Materials, Advanced Ceramics and Materials Biocompatibility. He has been at ITB for 8 years and led several research projects including reduced titania, graphitic carbon nitride-based floating photocatalyst for wastewater treatment and 3D printed electroactive scaffold for bone tissue engineering. Considering that many of his students are in the range of Gen Z or Millennials and right now is the era for digital literacy, he wants to improve his knowledge in digital literacy and various teaching methods that are more suitable for the age of his students.

## USINDO LEADERS IN EDUCATION ADVANCEMENT AND DIGITAL LITERACY (LEAD)



### RIANTO ADHY SASONGKO

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Rianto Adhy Sasongko is a lecturer at Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung. He delivers courses for Aerospace Engineering (mainly), and also Mechanical Engineering students. In addition to lecturing, he also conducts research works with his colleagues, and involves in some activities related to professional communities. His main specialization/interest is in dynamical system and control fields, mainly in aerospace applications. Starting from 2020, he is appointed as the chair of Undergraduate Study Program in Aerospace Engineering, one of study program at FTMD. As the chair of study program, he has to manage the education process in the study program, to keep it complying to the curriculum. He also has to monitor the students activities, especially those related to extracurricular and co-curricular activities.



### ARMIJAL

 **Location:** Padang

 **Work Place:** Andalas University

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Armijal is a lecturer at Industrial Engineering Department, Andalas University since 2020. Prior joining the university he worked as Tenaga Ahli DPR RI and consultant. He obtained his bachelor degree from Universitas Sumatera Utara and master degree from the University of South Australia. His research interest covers from sustainable manufacturing, life cycle engineering, cleaner production, risk management to quality engineering. He has taught several courses in Industrial Engineering department, this includes Layout & Facility Management, System Modelling, Industrial Engineering Design, Industrial Statistics, Risk Management, Maintenance System & Capstone Design.

## USINDO LEADERS IN EDUCATION ADVANCEMENT AND DIGITAL LITERACY (LEAD)



### I GUSTI BAGUS BASKARA NUGRAHA

 **Location:** Bandung

 **Work Place:** Bandung Institute of Technology

 **Field of Teaching:** Mathematics & Computer Science (i.e. Data Science, Data Analytics, AI, etc.)

Baskara has been a lecturer at the School of Electrical Engineering and Informatics at the Bandung Institute of Technology (ITB) since 2012. Previously, he was also a lecturer at the University of Electro-Communications in Tokyo from 2006 to 2011. Currently, he is in a tenured position at ITB and has led several parallel classes and research projects in information systems. He is also now the chair of the undergraduate program in information systems and technology. During his tenure at ITB, he had experience teaching several different subjects, including discrete mathematics, computer networks, and integrated systems. His undergraduate program now takes 160 students per year, divided into three parallel classes for each subject. I am expecting to learn a new methodology for how to deliver a subject based on the learner-centered paradigm when we have parallel classes so that the students will get the same experiences, although each class is assigned a different lecturer.



### BREGAS VIKRI PRAYUKO

 **Location:** Bandung

 **Work Place:** Parahyangan Catholic University

 **Field of Teaching:** Architecture (i.e. Urban Planning, etc.)

Bregas Vikri Prayuko is a full-time lecturer in the department of Architecture on Parahyangan Catholic University, Bandung, Indonesia. He is also a researcher in the ARKODEKO (Arsitektur Kota dan Desain Perkotaan / City Architecture and Urban Design) research cluster. His research interest is in the urban morphology of city center architecture. With three years of lecturing experience, he is the youngest lecturer in the department and currently teaching City Center Architecture, Introduction of Urban Design, and Architecture Research Methodologies. Bregas expect The USINDO LEAD course will offer an exciting opportunity to expand his teaching toolkit and gain insights that will inspire and enrich the educational experience for his students.


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## EKA MISHBAHATUL MAR'AH HAS

 **Location:** Surabaya

 **Work Place:** Universitas Airlangga

 **Field of Teaching:** Health (i.e. Public Health, Health Policy, Medical Science, etc.)

Dr. Eka Mishbahatul MH is currently an Assistant Professor in Community and Family Health Nursing at the Department of Advanced Nursing, Faculty of Nursing, Universitas Airlangga since 2007. She is also an Adjunct Research Fellow at the School of Nursing and Midwifery, La Trobe University. She teaches community and family health nursing, health promotion, and innovation in nursing care in community settings. She is enthusiastic about researching community and family health nursing, maternal and child health in primary care settings, health promotion, nutrition, and women empowerment (<https://scholar.unair.ac.id/en/persons/eka-mishbahatul-m-has-3/publications/>). This training is essential to broadening knowledge, skills, and experiences regarding digital innovation in health service to support the Indonesian government to achieve Indonesia Sehat 2025.



## FAUZAN ALFI AGIRACHMAN

 **Location:** Bandung

 **Work Place:** Bandung Institute of Technology

 **Field of Teaching:** Architecture (i.e. Urban Planning, etc.)

Fauzan is a lecturer at Bandung Institute of Technology's School of Architecture, Planning, and Policy Development and also a BIM engineer in architecture. He believes that BIM-managed sustainable technologies and computational architecture will shape architectural design in the future. Fauzan also enjoys discussing IT on social media. Spatial computing, including BIM and immersive VR for architecture design, is Fauzan's current focus. He's energetic about sharing his passion. He volunteered as a Mozilla Rep. He earned a Ph.D. from Japan's Shibaura Institute of Technology. He also earned a Bachelor of Science and a Master of Science in Architecture from Institut Teknologi Bandung.

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### FERRYANTO

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Ferryanto is a lecturer in Mechanical Engineering, Faculty of Mechanical and Aerospace Engineering (FTMD), Institut Teknologi Bandung (ITB). He obtained his bachelor's degree in 2011, master's degree in 2012 both in Mechanical Engineering from ITB, and doctoral degree in Mechanical and Control Engineering from Tokyo Institute of Technology, Japan. Ferryanto handles the courses in Introduction to Mechanical, Material, and Aerospace Engineering, Mechanics and Strength of Materials, Biomechanics, Engineering Product Design, Statics, Kinematics and Dynamics of Machinery, and Applied Statistics. His current research interest is on (Sports) Biomechanics, Kinematics & Dynamics, and Image Processing.



### FITRI NURAENI

 **Location:** Purwakarta

 **Work Place:** Universitas Pendidikan Indonesia (UPI)

 **Field of Teaching:** Education (i.e. TESOL, Education Policy, Elementary, International Education, etc.)

In 2019, Fitri Nuraeni joined Universitas Pendidikan Indonesia as a lecturer in the Elementary Teacher Education department, inspiring countless students due to her innovative teaching methods that foster active participation and critical thinking. As an active STEM education researcher, she advocates for STEM literacy in elementary schools, mentoring local teachers and offering courses on STEM Learning for Elementary. These courses prepare the next generation of educators for a technology-driven world. Her dedication promises positive advancements in education, enhancing the learning process through digital resources, educational platforms, and emerging technologies.

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## FRANKY ALI MALLATANG LUMBANTOBING



**Location:** Tangerang



**Work Place:** Parahyangan Catholic University



**Field of Teaching:** Physics

Franky Lumbantobing is a dedicated Indonesian physics educator with a heart for nurturing young scientists. He is educated in theoretical physics both, he applies a hands-on, approachable teaching style that demystifies complex concepts. With a tenure that spans high schools to higher education, Franky's career is marked by a collaborative spirit and a drive to make physics accessible, especially in underserved communities. He's an advocate for educational equality, striving to ensure every student receives quality physics instruction.



## BUDI



**Location:** Bandung



**Work Place:** Bandung Institute of Technology



**Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Budi Heryadi is a lecturer at Mechanical Engineering Department, Faculty of Mechanical and Aerospace Engineering, Bandung Institute of Technology (ITB). He started his career as a lecturer since 2017 until now (2023), thus he has six years of experience in lecturing. His field of lecturing covers dynamics and controls systems. This field covers several subjects, including Basic Engineering Analysis, System Dynamics, Mechanical Vibration, Electrical Drives and Systems, Engineering Measurement, Mechatronics, Control Systems, and Mechanical Maintenance. His lecturing system is a combination of theories and practicums. The practicums are designed based on his experience in supervising robotic team in ITB, and based on his experience in industrial machineries vibration measurement. By joining LEAD program organized by USINDO, Budi wishes to improve his lecturing system so that ITB alumni get ready to solve industrial problems in the future.

## USINDO LEADERS IN EDUCATION ADVANCEMENT AND DIGITAL LITERACY (LEAD)



### IWAN HARIANTON, BSME., M.ENG

 **Location:** Bandung

 **Work Place:** Bandung Polytechnic for Manufacturing

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)


Iwan Harianton is currently an Associate Professor in the field of Manufacturing Technology and Manufacturing System in Bandung Polytechnic for Manufacturing. He teaches subjects in undergraduate program such as Manufacturing System Development, Manufacturing Process Technology, Entrepreneurship, Risk Management, Quality Management System, and Industrial Management Operation. As a lecture, he is also doing research in Engine Manufacturing and Electric Vehicles; while, his community service field is in the area of teaching and learning Methodologies covering dual system, competency based system, production based system, project based learning and building Teaching Factories in the vocational educations and vocational higher educations. His keen action is transforming Human Resource Management into Human Capital for education institutions as well as for industries.



### ISTI ILMIATI FUJIATI

 **Location:** Medan

 **Work Place:** Universitas Sumatera Utara

 **Field of Teaching:** Health (i.e. Public Health, Health Policy, Medical Science, etc.)

Dr. Isti is a faculty member at the Medical Faculty of USU, teaches Family Medicine for 20 years now. With two master's degrees, one is in Medical Education, she has left an indelible mark on this field. In 2006, she played a pivotal role as the Curriculum Coordinator for the Medical Education Unit, conceptualizing and implementing a competency-based curriculum with a Problem-Based Learning (PBL) approach. Over the past two years, she has taken on the vital role of Head of the University's QA Body. Her vast knowledge and expertise continue to be instrumental in cultivating students' critical thinking skills in the digital age, an integral aspect of ensuring the quality of higher education. She has several expectations on this course, she hopes to deepen her understanding of the latest innovations and trends in education, including emerging technologies and cutting-edge pedagogical strategies, and measure the impact of these innovations on student outcomes.



# USINDO LEADERS IN EDUCATION ADVANCEMENT AND DIGITAL LITERACY (LEAD)



## NAVISATUL IZZAH

 **Location:** Gresik



**Work Place:** Universitas Pembangunan Nasional Veteran Jawa Timur



**Field of Teaching:** Education (i.e. TESOL, Education Policy, Elementary, International Education, etc.)

Navisatul Izzah is a lecturer in English for Business and Professional Communication Study Program, Faculty of Social and Political Sciences, Universitas Pembangunan Nasional Veteran Jawa Timur. She has been working as a lecturer for 3 years. Her areas of expertise include ELT Method and Pedagogy, TESOL, Assessment in ELT, Curriculum, Language, Culture and Identity. By participating in this course, she expects to gain in-depth understanding related to the current trends in digital literacy and have hands-on experience on the use of applications in which empower her to create more effective and interactive learning experiences for her students. Furthermore, she is also eager to discover many innovative pedagogies which enhances her to address various background of her students and their unique learning needs.



## MUHAMAD LUTHFI IMAM NURHAKIM

 **Location:** Bandung



**Work Place:** Bandung Institute of Technology



**Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Muhamad Luthfi Imam Nurhakim, also known as Luthfi, is a member of the Faculty of Mechanical and Aerospace Engineering at Bandung Institute of Technology (ITB), Indonesia. Luthfi has completed his bachelor's and master's degrees in Aerospace Engineering at the place where he currently works. Currently, in addition to teaching, he is also completing his Ph.D. in the same field at Royal Melbourne Institute of Technology in Australia. In 2015, he started working as a lecturer, marking the beginning of his academic career. He currently shares his knowledge to the students in Aerospace Engineering program in ITB for the course "Aircraft Design". Luthfi's dedication to education and aerospace engineering is solid. His participation in the LEAD course reflects his commitment to elevating his teaching career and skills. With a strong vision to empower his students, he anticipates the program will equip him with the tools to inspire future generations of engineers.

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## MARDIYATI

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Dr.rer.nat.Mardiyati is a lecturer at the Faculty of Mechanical and Aerospace Engineering (FMAE), Institut Teknologi Bandung (ITB) in the Materials Science and Engineering Research Group. Currently, she serves as the Head Department of Materials Engineering. She has been teaching in the Department of Materials Engineering for 12 years. Some of her courses are Polymer Chemistry, Polymeric Materials, Polymer Processing, Bio-based Polymer Technology, Rubber Technology, and Optical Properties of Materials. By joining this course her expectation is to develop and improve innovative pedagogy, revolutionize the teaching methods, and inspire the students.



## CHAIRUNNISA

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Chairunnisa is an ITB lecturer since 2008 and was assigned to teach at School of Electrical Engineering and Informatics. Currently she is the head of the Telecommunications Engineering Study Program. The type of course taught by her are courses related to electromagnetic fields and waves, where these courses can be said to be quite scary courses because many physics formulas that must be derived for various conditions. She is aware of the horrors faced by students, and tries to ensure that students can enjoy the material provided, by always reminding them of the purpose of the material being studied. Because usually when students are immersed in mathematical equations that are quite long and tiring, students often forget what the purpose of this learning is. Therefore, for courses that often kill students' enthusiasm, it is necessary to create an appropriate scheme so that students' engagement to the courses may increase.

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### SRI OKTAMULIANI

 **Location:** Padang

 **Work Place:** Universitas Andalas

 **Field of Teaching:** Mathematics & Computer Science (i.e. Data Science, Data Analytics, AI, etc.)

Sri Oktamuliani is currently a lecturer at Universitas Andalas, Faculty of Mathematics and Natural Sciences, Department of Physics, teaching the course « Medical Image Processing ». She has been with the university for 8 years, including 4 years as a bachelor's student and 4 years as a lecturer since 2019. Her positive expectations regarding the « Medical Image Processing » course reflect her belief that it can contribute to the development of diagnostics and treatment in the field of medicine through the utilization of medical image processing technology.



### RAHMA NASIR

 **Location:** Palu

 **Work Place:** Tadulako University

 **Field of Teaching:** Education (i.e. TESOL, Education Policy, Elementary, International Education, etc.)

Rahma Nasir is currently serving as an Assistant Professor in the Faculty of Teacher Training and Education at Tadulako University. With over 4 years of teaching experience, Rahma Nasir has been actively engaged in the field of education. In addition to her teaching responsibilities, Rahma Nasir has been a dedicated advocate for educational advancement and digital literacy through Kampus Mengajar program from the ministry of education. She has been actively involved in community service initiatives and research projects, where she conducts training workshops bringing together students, teachers, and school administrators. Her ultimate goal is to elevate her teaching, empower her students, and become a leader in education advancement and digital literacy, ensuring that the next generation is well-prepared for the challenges of the modern world.

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## RANI NOPRIYANTI

 **Location:** Bandung

 **Work Place:** Bandung Polytechnic of Manufacture

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Rani Nopriyanti is currently a lecturer in the field of Physics and Material Engineering at Bandung Polytechnic of Manufacture and teaches physics course, environmental knowledge, inspection, and measurement. She has been at Bandung Polytechnic of Manufacture for 2 years and led several research projects such as 3D printing for civil building and Sodium ion Battery (SIBs). Before she worked at Bandung Polytechnic of Manufacture, she used to be a lecturer at the Islamic University of Nusantara electrical engineering program for almost 4 years and teaching biotechnology, medical engineering and physics course. Since 2013, she had been working as technical engineer in state-owned enterprise for 1,5 years. I expect this course to equip me with the knowledge and tools needed to promote digital literacy in educational settings. Besides that, I expect to learn the ins and outs of how to effectively implement project-based learning in the classroom.



## RIZA WIRAWAN

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Riza Wirawan is an Assistant Professor at the Faculty of Mechanical and Aerospace Engineering, Bandung Institute of Technology, Indonesia. He received both BS (2001) and MS (2004) from ITB, Bandung – Indonesia, and Ph.D. (2011) from the Universiti Putra Malaysia, Serdang – Malaysia. He start his career as A lecturer from 2005 at Faculty of Engineering, the State University of Jakarta, before moved to Bandung Institute of Technology in 2019. He teaches several courses relates to materials science and engineering, including Mechanics of Materials, Composite Materials, and Non-destructive testing. His research interests are primarily in the areas of natural fiber composite materials, thermomechanical properties of materials, and composite materials for transportation applications. From this program, he expects some insights on various teaching methods so he can be more adaptive as a lecturer in the digital era.

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### YUSEP

 **Location:** Bandung

 **Work Place:** Bandung Institute of Technology

 **Field of Teaching:** Mathematics & Computer Science (i.e. Data Science, Data Analytics, AI, etc.)

Yusep Rosmansyah received the bachelor's degree in electrical engineering from Bandung Institute of Technology, Indonesia, in 1993. He further received both the M.Sc. (1996) and Ph.D. (2003) degrees from University of Surrey, U.K. He has been a researcher and a professor at the School of Electrical Engineering and Informatics, Bandung Institute of Technology, Indonesia. His areas of interest in research include multimedia, educational technology, and cyber security.



### SANDRO MIHRADI

 **Location:** Bandung

 **Work Place:** Bandung Institute of Technology

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Dr. Sandro Mihradi is a lecturer at the Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung, Indonesia. He has about 15 years of experience in research and teaching. Among the courses that he regularly teaches are Statics, Strength of Materials, Kinematics and Dynamics of Machinery, and Capstone Design. Having a background in fracture mechanics, biomechanics, and computational solid mechanics, Dr. Mihradi currently conducts active research in gait analysis of Indonesian, the development of affordable hand and leg prosthetics, the development of rehabilitation technology, development of motion analyzer system, injury biomechanics and crashworthiness of bus structure under frontal crash and rollover accident. Dr. Mihradi has been involved in 46 research projects, 21 of which he was acting as principal investigator. In 2016, he and his colleagues were awarded "The ITB Award in Innovation" for their project to develop an affordable prosthetic knee.

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## HASRINI

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Hasrini Sari is an associate professor in the Industrial Engineering and Management Department of Institut Teknologi Bandung. She completed her bachelor's degree and master's degree in Industrial Engineering department in Institut Teknologi Bandung, and received the doctoral title in Management field from the University of Indonesia. Belongs in the Industrial Management research group, her research mainly focusses on the green product, customer relationship strategy, and consumer behavior. She led several research projects including marketing strategy and organizational life cycle. She has taught courses in Marketing, Digital Marketing, Industrial Management, Consumer Behaviour, Entrepreneurship, Business and Product Development; Engineering Economic Analysis, Risk Management, and Customer Relationship Management.



## SARTIKA INDAH AMALIA SUDIARTO

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Environment (i.e. Natural Resources, Sustainability, Energy, etc.)

Sartika Indah Amalia Sudiarto is currently a lecturer at Institut Teknologi Bandung teaching Ecology, Agroecology, Soil Ecology, Domestic Animal Nutrition and Production, Introduction to life sciences and technology, Fundamentals of Biomass Production Engineering, and Design of Integrated Farming in School of Life Sciences and Technology for Biology and Agricultural Engineering major. She has been teaching for 4 years. She expect to gain knowledge on the different method to teach that makes students involved and interested to learn especially in very big class and makes student having an excellent learning experiences. She wants to learn about the assessment method for student-centered learning. In this era, especially where information is easily obtained, students may overwhelmed. Therefore, the lecturer should have different approach in teaching.

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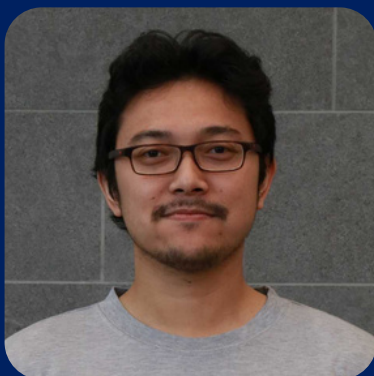
## TRI SUWANDI

 **Location:** Bandung

 **Work Place:** Universitas Pendidikan Indonesia

 **Field of Teaching:** Environment (i.e. Natural Resources, Sustainability, Energy, etc.)

Tri Suwandi is currently working as a lecturer at the Indonesian Education University teaching several courses, including ICT Literacy and Learning Media for Biology, Plant Physiology, Laboratory Engineering, Ecology, and Bioentrepreneurship. He has been at the university for 5 years and led several research projects including microlearning content development to support biology learning. He has been an editor for Assimilation: Indonesian Journal of Biology Education, head of the Botanical Garden and the Coordinator of the Laboratory Department in the Department of Biology Education at UPI since 2022, and a member of the Quality Control Group for the Biology Education Program at UPI since 2023.



## VANI VIRDYAWAN

 **Location:** Bandung

 **Work Place:** Institut Teknologi Bandung

 **Field of Teaching:** Engineering (i.e. Engineering Management, Aerospace Engineering, etc.)

Vani Virdyawan is currently a lecturer at Institut Teknologi Bandung, Indonesia. He is currently teach mechatronics, statistics, as well as several design courses. He has been at the university for 11 years and led several research projects about soft robotics.