



# Certificate

Number: 17.2.26/UN32.3/TU/2022

Proudly presented to

*Erik Perdana Putra*

as participant at

**INTERNATIONAL SHORT COURSE ON  
STEM EDUCATION Toward IAMSTEM 2022**

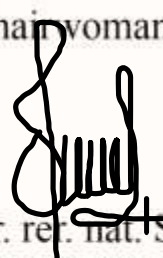
Organized by Faculty of Mathematics and Natural Sciences,  
Universitas Negeri Malang, Indonesia  
January 29; February 5, 12, 2022

Dean of FMIPA UM



*[Signature]*  
Dr. Hadi Suwono, M.Si  
NIP 196705151991031007

Chairwoman



Dr. ref. mat. Safwatun Nida, M.Pd  
NIP 198405152014042002

No	Schedule	Lecturer	Topic of lecture	Time span
1.	Saturday Januari 29, 2022	Prof. Chun-Yen Chang	Conducting STEM education research with Cloud ClassRoom	8 hours
2.	Saturday Januari 29, 2022	Prof. P John Williams	STEM knowledge and assessment	8 hours
3.	Saturday, February 5, 2022	Bevo Wahono, Ph.D	Research on STEM Education through A Literature Review.	8 hours
4.	Saturday, February 5, 2022	Prof. Chokchai Yuenyong	Design thinking and STEM education	8 hours
5.	Saturday, February 12, 2022	Prof. Hadi Suwono	Greenovation:How to make thinking visible in STEM Learning	8 hours
6.	Individual assignment: Proposal writing			15 hours
Total				55 hours