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Erratum: Developing and assessing pre- and in-service science and engineering teachers' systems thinking and modeling skills through an asynchronous online course

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KEYWORDS

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An Erratum on
Developing and assessing pre- and in-service science and engineering teachers' systems thinking and modeling skills through an asynchronous online course

By Peretz, R., Dori, D., and Dori, Y. J. (2023). *Front. Educ.* 8:1154893. doi: 10.3389/feduc.2023.1154893

Due to a production error in Table 3, the "Content description" column heading was placed above the "Module" column, and vice versa. This has been rectified.

In the published article, there was an error in the **Abstract**. The original sentence was: "Research tools included the online assignment that the participants developed, dedicated rubrics for analyzing their assignments, accounting for use of modeling, media, visualization, micro–macro-process scientific understanding levels, and a mix of closed- and open-ended questions."

This should have been written as: "Research tools included the online assignment that the participants developed, a dedicated rubric for analyzing their assignments, accounting for use of modeling and systems concepts and the integration of sustainability and COVID-19 issues, a variety of thinking skills, visualizations and disciplines, and a mix of closed- and open-ended questions."

The publisher apologizes for these errors. The original article has been updated.

TABLE 3 The content of the four modules that formed the learning process.

Module	Content description
1	- Introduction to OPM. - Identifying objects, processes, and states in a system.
2	- System aspects: function, structure, and behavior. - Structural relations, state transitions, system aspects, and OPM modalities.
3	Understanding the System Diagram (SD): System Purpose—beneficiary and benefit, system function; and process enablers—agents and instruments.
4	- Diving into the details: the first detail level (SD1) of the OPM system diagram, divided into major subprocesses. - Synchronous vs. asynchronous processes.