



RESEARCH ARTICLE

EDUCATION FOR A CHANGING WORLD: PRACTICAL STRATEGIES FOR SDG IMPLEMENTATION

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ABSTRACT

In September 2015, the need for a sustainable world was acknowledged, and 17 Sustainable Development Goals (SDGs) were established by United Nations members, emphasizing education's central role in promoting sustainable development. The importance of adopting an interdisciplinary approach to education for sustainable development is highlighted, along with strategies for its advancement, considering diverse perspectives on sustainability and corporate social responsibility (CSR). The SDGs' broad agenda, requiring multidisciplinary collaboration, is analyzed. Literature on interdisciplinarity in education for sustainable development, including practices and barriers, is reviewed with reference to the Principles for Responsible Management Education (PRME). A case study is presented to demonstrate interdisciplinary education among diverse postgraduate MBA students through a course integrating sustainable development concepts. The application of PRME's Six Principles is shown, with an explanation of how a sustainability and CSR module enables students to synthesize knowledge across disciplines to address sustainability challenges.

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INTRODUCTION

Sustainable development has become a central focus for business leaders, governments, universities, NGOs, and the media. The UN, through initiatives like the Global Compact and PRME, emphasizes education as crucial for promoting sustainability. The UN Decade for Education for Sustainable Development (2005-2014) aimed to embed sustainability across curricula, guided by the Six Principles of PRME. This paper explores interdisciplinary education for sustainable development, highlighting its importance through case studies and addressing practices and barriers.

RESEARCH OBJECTIVE(S)

In this above-mentioned paper, the following objectives are undertaken:

- To illustrate the advancement of interdisciplinary education for sustainable development among diverse postgraduate MBA students through a case study.
- To demonstrate the application of the Six Principles of PRME.

- To explain how a sustainability and CSR module fosters the integration of knowledge across disciplines.

RESEARCH METHODOLOGY

The study includes a literature review to explore the concept of interdisciplinary education for sustainable development and identify research gaps. A case study-based discussion illustrates its application among diverse postgraduate MBA students in a course integrating sustainable development concepts across disciplines. The application of the Six Principles of PRME is demonstrated, highlighting how a sustainability and CSR module promotes cross-disciplinary knowledge integration to enhance understanding and action on sustainability issues.

LITERATURE REVIEW

Education and the Sustainable Development Goals: The 17 Sustainable Development Goals (SDGs), adopted in 2015, aim to end poverty, protect the planet, and ensure global prosperity by 2030. Quality education is central to achieving these goals, as highlighted by SDG 4, which emphasizes equipping

learners with knowledge and skills for sustainable development. Disciplines like geology demonstrate how education can raise awareness and drive contributions toward SDGs, showcasing their interconnectedness and the role of professionals in addressing global challenges. Globalization demands that future leaders understand complex sustainable development issues. It has become apparent that business professionals must employ concepts from various areas (including ethical theory, human rights, climate change, biodiversity, and stakeholder management) to develop responsible corporate strategies and practices. Sustainable development education must promote the ability to work with stakeholders having distinct interests and value systems to find common goals (Dale and Newman, 2005).

		Geological Sciences								Skills & Practice		
		Earth Materials, Processes & Management										
		Agrogeology	Climate Change	Energy	Engineering Geology	Geohazards	Geoheritage & Geotourism	Hydrogeology & Contaminant Geology	Minerals & Rock Materials	Education	Capacity Building	Miscellaneous
SDGs	1	No Poverty										
	2	No Hunger										
	3	Good Health										

Figure 1. Interconnectedness between geosciences and the SDGs, adapted from Gill

Concept of Interdisciplinarity: Globalization requires future leaders to address complex sustainable development challenges by integrating concepts like ethics, human rights, and climate change into responsible strategies. Interdisciplinary education fosters collaboration across disciplines, enhancing problem-solving and understanding of global issues. Four curriculum models—traditional, connected, interdisciplinary, and integrated—highlight varying levels of integration, promoting solutions that combine diverse knowledge and expertise. Knowledge has been classified into disciplinary, multidisciplinary, interdisciplinary, and transdisciplinary categories by Clark and Wallace (2015), with a discipline defined as "a self-contained and isolated domain of human experience with its own community of experts" (Nissani, 1997, p. 203). Four curriculum integration models have been identified by Kysilka (1998) on a continuum based on inter-disciplinary integration levels:

- **Traditional model:** Content is taught separately, with integration prompted by learners.
- **Connected model:** Disciplines remain primary, with teachers connecting learning to real-life and other disciplines.
- **Interdisciplinary model:** Rigid content boundaries are broken, blending skills and concepts.
- **Integrated curriculum:** Student-centered, teacher-facilitated learning.

Interdisciplinarity builds on disciplinary foundations to address complex sustainable development challenges by integrating diverse fields and fostering collaboration. It aligns with SDG 16's goals and highlights the need for holistic approaches as discipline-based models fall short. Barriers include limited time, assessment models, and governance challenges, necessitating restructured teacher training and interdisciplinary language. Sustainable development education integrates societal, environmental, and economic dimensions.

	Separate disciplines	Disciplined-based	Interdisciplinary	Total integration
Content	Separate subjects	Sequenced Correlated ideas Focused content themes Multiple lenses Modified courses	Multifaceted lens Broad themes Process themes Student interests New courses	Student needs/interests Cross disciplines Integrated day Apprenticeships Experiences
Time	Distinct units/periods	Distinct units/periods	Blocked	Varied
Teachers	Separate	Separate	Paired/teamed	Teamed/facilitators
Students	Receivers	Receivers/doers	Doers/decision-makers Creators	Decision-makers Creators Independent investigators

Figure 2. Integrated curriculum continuum (Kysilka, 1998, p. 204)

PRME Principles guide embedding sustainability into curricula, fostering leadership and critical thinking. Case studies, like interdisciplinary seminars in the USA and Canada, demonstrate effective collaboration and problem-solving to advance sustainability goals. These initiatives emphasize teamwork, cultural perspectives, and practical approaches to education for sustainable development. In the Master's degree in Environmental Management, students from natural and social sciences engaged in interdisciplinary residencies and online courses, applying PRME Principles 3, 4, and 6: Method, Research, and Dialogue. Luppi (2011) introduced a constructivist e-learning project for sustainable development education at Bologna and Rimini campuses in Italy, with modules focusing on theoretical, ethical, and operational objectives. Jain et al. (2013) at TERI University in India integrated sustainable development through face-to-face interactions, case studies, and real-life applications. While TERI's practices aligned with PRME's Six Principles, some education for sustainable development efforts reflects Kysilka's (1998) interdisciplinary approach, emphasizing coherence and coordination across disciplines.

Barriers To Implementing Interdisciplinary Education- for Sustainable Development-Summers, Childs, and Corney (2005) highlight those interdisciplinary initiatives face challenges in achieving success, recommending initial integration of two or three disciplines. Eagan, Cook, and Joeres (2002) emphasize that developing interdisciplinary communication, teamwork, and tolerance for diverse perspectives is crucial to overcoming barriers in interdisciplinary education for sustainable development.

Case study

Teaching sustainability to postgraduate MBA students-The need for integrating sustainability principles into management education: Integrating sustainability into postgraduate MBA education is essential as businesses play a crucial role in advancing SDGs. By fostering interdisciplinary approaches and stakeholder collaboration, MBA programs prepare leaders to manage sustainable development challenges effectively. Sustainable development principles must be embedded across curricula to equip professionals with the necessary skills for responsible decision-making and risk management.

Integrating sustainability and the PRME Principles into a MBA course-This study examines an MBA course delivered in London and Moscow, attracting around 200 annual enrolments. The curriculum includes core modules, electives, and a management research project. Sustainability, business ethics, and CSR are integrated into all MBA modules, supported by the Responsible Management subject.

Through interdisciplinary collaboration and the implementation of PRME Principles, the course fosters a comprehensive approach to sustainable development, preparing students to address real-world challenges effectively.

Teaching CSR and sustainability in the context of diversity-Variations in students' learning approaches require tailored strategies for sustainable development, especially in diverse, cross-border contexts. Differences in CSR interpretations between the UK and Russia, shaped by historical and cultural factors, necessitate adaptable educational methods. The Responsible Management module integrates role-play scenarios to facilitate interdisciplinary learning, promoting sustainability and aligning with PRME Principles. By incorporating sustainable development across the curriculum, the MBA program supports a comprehensive understanding of sustainability challenges, fostering critical reflection and real-world application.

CONCLUSION

This paper highlights the importance of interdisciplinary education for sustainable development, essential for addressing complex issues like climate change, poverty, and human rights. It emphasizes that achieving the SDGs requires collaboration across disciplines, as isolated approaches are insufficient. A case study of a postgraduate MBA course demonstrates embedding sustainable development concepts across disciplines, aligning with PRME principles. The study underscores adapting learning to students' backgrounds and shows how a sustainability and CSR module fosters integrated knowledge and action. Contributions include advancing literature on interdisciplinary education and overcoming barriers to support SDG delivery.

REFERENCES

Baker, S. 2016. Sustainable development. 2nd edn. London: Routledge.

Biggs, J. B. and Tang, C. S. 2011. Teaching for quality learning at university. Buckingham: Society for Research into Higher Education and Open University Press.

Bryson, C. and Hand, L. 2007. 'The role of engagement in inspiring teaching and learning', *Innovations in Education and Teaching International*, 44(4), pp. 349-362. doi: 10.1080/14703290701602748.

Burgess, P. M. and Slonaker, L. L. 1978. 'The decision seminar: A strategy for problem-solving', *Merschon Center of the Ohio State University*, 1.

Carroll, A. B. 1991. 'The pyramid of corporate social responsibility: Toward the moral management of organisational stakeholders', *Business Horizons*, 34(4), pp. 39-48.

Carroll, A. B. 1999. 'Corporate social responsibility: Evolution of a definitional construct', *Business and Society*, 38(3), pp. 268-295.

Carroll, A. B. 2004. 'Managing ethically with global stakeholders: A present and future challenge', *The Academy of Management Executive*, 18(2), pp. 114-120.

Clark, S. and Wallace, R. L. 2011. 'Integration and interdisciplinarity: Concepts, frameworks, and education', *Policy Sciences*, 48(2), pp. 233-255. doi: 10.1007/s11077-015-9210-4.

Crotty, J. 2016. 'Corporate social responsibility in the Russian Federation: A contextualized approach', *Business & Society*, 55(6), pp. 825-853. doi: 10.1177/0007650314561965.

Dale, A. and Newman, L. 2005. 'Sustainable development, education and literacy', *International Journal of Sustainability in Higher Education*, 6(4), pp. 351-362. doi: 10.1108/14676370510623847.

DeFries, R. S., Ellis, E. C., Chapin, F. S. III, Matson, P. A., Turner, B. L. II, Agrawal, A., Crutzen, P. J., Field, C., Gleick, P., Kareiva P. M., Lanbin, E., Liverman, D. Ostrom, E., Sanchez, P. A. and Syvitski, J. (2012) 'Planetary opportunities: A social contract for global change science to contribute to a sustainable future', *BioScience*, 62(6), pp. 603-606. doi: 10.1525/bio.2012.62.6.11.

Eagan, P., Cook, T. and Joeres, E. (2002) 'Teaching the importance of culture and interdisciplinary education for sustainable development', *International Journal of Sustainability in Higher Education*, 3(1), pp. 48-66. doi: 10.1108/14676370210414173.

Elkington, J. (1999) *Cannibals with forks: The triple bottom line of 21st century business*. Oxford: Capstone Publishing Limited.

Foster, H. (1998) 'Trauma studies and the interdisciplinary: An overview', in Coles, A. and Defert, A. (eds.) *The anxiety of interdisciplinarity*. London: Backless Books, pp. 157-168.

Fry, H., Ketteridge, S. and Marshall, S. (2014) *A handbook for teaching and learning in higher education: Enhancing academic practice*. 4th edn. London: Routledge.

Gill, J. C. (in press) 'Geology and the Sustainable Development Goals', *Episodes*. Global Compact (2014) *Guide to Corporate Sustainability: Shaping a sustainable future*. New York: United Nations

Global Compact. Available at: https://www.unglobalcompact.org/docs/publications/UN_Global_Compact_Guide_to_Corporate_Sustainability.pdf (Accessed: 08 March 2017).

Global Compact (2016) *Making global goals local business: A new era for responsible business*. New York: United Nations

Global Compact. Available at: https://www.unglobalcompact.org/docs/about_the_gc/MakingGlobalGoalsLocalsBusinessSummit.pdf (Accessed on: 14 November 2016). 14

Holley, K. A. (2009) 'Interdisciplinary strategies as transformative change in higher education', *Innovative Higher Education*, 34(5), pp. 331-344. doi: 10.1007/s10755-009-9121-4.

IIED (2002) *Breaking new ground: Mining, minerals and sustainable development*. London: International Institute of Environment and Development (IIED) with support from the World Business Council on Sustainable Development. Available at: <http://pubs.iied.org/pdfs/9084IIED.pdf> (Accessed: 25 November 2016).

Jain, S., Aggarwal, P., Sharma, N. and Sharma, P. (2013) 'Fostering sustainability through education, research and practice: A case study of TERI University', *Journal of Cleaner Production*, 61, pp. 20-24. doi: 10.1016/j.jclepro.2013.04.021.

Klein, J. T. (2006) 'A platform for a shared discourse of interdisciplinary education', *Journal of Social Science Education*, 5(2), pp. 10-18.

Kysilka, M. L. (1998) 'Understanding integrated curriculum', *The Curriculum Journal*, 9(2), pp. 197-209. doi: 10.1080/0958517970090206.

- Luppi, E. (2011) 'Training to education for sustainable development through e-learning', *Procedia Social and Behavioral Sciences*, 15, pp. 3244-3251. doi:10.1016/j.sbspro.2011.04.279.
- Mansilla, V. B. (2005) 'Assessing student work at disciplinary crossroads', *Change*, 37(1), pp. 14-21.
- Nissani, M. (1997) 'Ten cheers for interdisciplinarity: The case for interdisciplinary knowledge and research', *The Social Science Journal*, 34(2), pp. 201-216. doi: 10.1016/S0362-3319(97)90051-3.
- Nooyi, I. (2016) Address to the Academy of International Business (AIB). [Speech] AIB 2016 Annual Meeting, New Orleans, 27 June. Available to AIB members at: <https://aib.msu.edu/events/2016/Videos/ShowSessionVideo.asp?VideoID=1066> (Accessed: 11 March 2017).
- Pavey, J. and Donoghue, D. (2003) 'The use of role play and VLEs in teaching Environmental Management', *Planet*, 10(1), pp.7-10.
- PRME (2015) The first report on PRME Chapters: Collaborating to transform management education in support of sustainable development, Principles for Responsible Management Education. Available at: <http://www.unprme.org/resource-docs/FirstReporton>
- PRME (2016) 'Transformational model for PRME implementation'. Available at: <http://www.unprme.org/resource-docs/PRMETransformationalWeb.pdf> (Accessed: 07 March 2017).
- PRME (2017) Principles for Responsible Management Education website: Resources. Available at: <http://www.unprme.org/resources/index.php> (Accessed: 08 March 2017).
- PRMEChapters2015.pdf (Accessed: 22 February 2017).
- Robinson, J. (2004) 'Squaring the circle? Some thoughts on the idea of sustainable development', *Ecological Economics*, 48(4), pp. 369-384. doi: 10.1016/j.ecolecon.2003.10.017.
- Sachs, J. D. (2012) 'From Millennium Development Goals to Sustainable Development Goals', *The Lancet*, 379(9832), pp. 2206-2211. doi: 10.1016/S0140-6736(12)60685-0.
- Summers, M., Childs, A. and Corney, G. (2005) 'Education for sustainable development in initial teacher training: Issues for interdisciplinary collaboration', *Environmental Education Research*, 11(5), pp. 623- 647. doi: 10.1080/13504620500169841.
- UN (2015) Transforming our world: The 2030 agenda for sustainable development, United Nations. Available at: <https://sustainabledevelopment.un.org/content/documents/21252030%20Agenda%20for%20Sustainable%20Development%20web.pdf> (Accessed: 12 November 2016).
- Unesco (2005) United Nations Decade of Education for Sustainable Development (2005-2014): International implementation scheme. Paris: United Nations Educational, Scientific and Cultural Organisation. Available at: <http://unesdoc.unesco.org/images/0014/001486/148654E.pdf> (Accessed on: 15 November 2016).
- Unesco (2014) Roadmap for implementing the Global Action Programme on education for sustainable development. Paris: United Nations Educational, Scientific and Cultural Organisation. 15
- WCED (1987) *Our common future*. Oxford: World Commission on Environment and Development / Oxford University Press.
- Weybrecht, G. (2010) 'Grassroots: The sustainable MBA by Giselle Weybrecht', *EFMD Global Focus*, 4(1), pp. 26-29.
- Weybrecht, G. (2013) *The sustainable MBA: A business guide to sustainability*. 2nd edn. Somerset: Wiley.
- World Bank (2009) *Global monitoring report 2009: A development emergency*. Washington: The International Bank for Reconstruction and Development and The World Bank. Available at: http://siteresources.worldbank.org/INTGLOMONREP2009/Resources/5924349-1239742507025/GMR09_book.pdf (Accessed: 13 November 2016)
