# Contents

Teaching Education for Sustainable Development:  
Implications on Learning Programmes at Higher Education ........ 1  
Walter Leal Filho and Paul Pace

Part I Curriculum Elements and Innovation

An Approach to Embedding Sustainability into Undergraduate  
Curriculum: Macquarie University, Australia Case Study .......... 9  
Leanne Denby and Sara Rickards

Sustainability in the University Curriculum:  
Teaching Introductory Economics ............................. 35  
Madhavi Venkatesan

Strengths and Weaknesses of an E-learning Program  
in Environmental Sciences at Universidade Aberta, Portugal .......... 49  
Ana Paula Martinho, Paula Vaz-Fernandes, Carla Padrel de Oliveira,  
Paula Bacelar-Nicolau, Ulisses Miranda Azeiteiro and Sandra Caeiro

Future Generations: Developing Education for Sustainability  
and Global Citizenship for University Education Students .......... 67  
Philippa Watkins and Alison Glover

Basic Teacher Training Oriented Toward Sustainability: Why and How to Carry It Out Today? ....................... 83  
Pedro Vega-Marcote and Mercedes Varela-Losada

The University as a Site of Socialisation for Sustainability  
Education .......................................................... 97  
Jennie Winter, Debby Cotton and Paul Warwick
Teacher Education for Sustainable Development: Past, Present and Future ................................. 109
Annette Gough

Part II  Contextualised Case Studies

Inquiry-Based Educational Course in Higher Education Towards Sustainable Communities: A Case Study ............. 125
Dzintra Iliško

Students’ Engagement in an Extension Program in Agroecology for Subsistence Farmers at the Universidad Católica Santa María La Antigua (USMA), Panamá ....................... 147
Bruno Borsari, Nuria Peréz De Gracia and Jorge Castro Peralta

Teaching Education for Sustainable Development at University Level: A Case Study from the Philippines .......... 163
Raquel M. Balanay and Anthony Halog

Integrating the Global Dimension in Engineering Education: Experiences from a Collaborative Project .............. 175
Rhoda Trimingham, Boris Lazzarini, Agustí Pérez-Foguet, Neil Noble, Alejandra Boni, Manuel Sierra-Castañer, Francesco Mongera and Guido Zolezzi

Hopeful, Local, Visionary, Solutions-Oriented, Transformative, Place-Based Sustainability Stories and Service-Learning as Tools for University-Level Education for Sustainable Development: Experiences from University of Vermont ............... 191
Thomas R. Hudspeth

Engaging Students with Environmental Sustainability at a Research Intensive University: Examples of Small Successes .......... 205
Dianne P. Chambers, Clare Walker, Kathryn Williams, John Rayner, Claire Farrell, Anne-Maree Butt and Danielle Rostan-Herbert

Teaching Towards Sustainability Literacy in Art, Design and Fashion .................................................. 221
Antony Johnston, Rebecca Leach and Heather Sproat

Understanding Our Urban Environment Better: Using Archival Research and Digital Photography in the Classroom ....... 235
Julian C. Chambliss and Mike Gunter Jr.
Contents

Interdisciplinary Problem-Based Learning—A Student-Centered Pedagogy to Teach Social Sustainable Development in Higher Education ........................................ 245
Mirjam Braßler

Teaching for Sustainability at University: Constructively Aligned Study Course Design ........................................ 259
Eglė Katiliūtė

Development of the Green-Campus Programme in Ireland: Ensuring Continuity of Environmental Education and Action for Sustainable Development Throughout the Irish Education System ........................................ 269
Yvonne Ryan-Fogarty, Deirdre O’Carroll, Michael John O’Mahony and Bernadette O’Regan

The Inclusion of Elements of Local Social and Environmental Sustainability in Logistics Education: A Case Study from Poland .... 285
Joost Platje, Krzysztof Łobos and Krzysztof Wilk

Scaling up the Woven Filigree: (un) Common Systemic Thinking to Embedding Sustainability into the Curriculum in a Large-Scale Higher Education Institution in the UK. .......... 299
Valeria Ruiz Vargas and Graeme Heyes

From Individuation to Autonomy: Enabling Fashion Design Students to See a Bigger Picture ........................................ 313
Amanda Langdown and Eleanor Hannan

The Development and Evaluation of a Sustainable Tourism Module Addressed to Student Hotel Managers ........................................ 327
Mark C. Mifsud

Dies Oecologicus—How to Foster a Whole Institutional Change with a Student-Led Project as Tipping Point for Sustainable Development at Universities ........................................ 341
Miriam Block, Mirjam Braßler, Vincent Orth, Martin Riecke, Juan Miguel Rodriguez Lopez, Grischa Perino, Wey-Han Tan and Moritz Lamparter