1. Record Nr. UNINA9910476952803321

Titolo	Becoming a teacher : research on the work-integrated learning of student teachers / / edited by Josef De Beer, Neal Petersen, Herman J. Van Vuuren
Pubbl/distr/stampa	Cape Town, South Africa : , : AOSIS Publishing, , [2020] ©2020
Descrizione fisica	1 online resource (xxxviii, 431 pages) : illustrations
Collana	NWU self-directed learning series ; ; Volume 4
Disciplina	371.3943
Soggetti	Independent study Self-managed learning Student teachers - South Africa
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 The journey of becoming a professional teacher: policy directives and current practices / Herman J. van Vuuren -- Chapter 2 TeachLivETM: Learning from practice in a mixed reality teaching environment / Carisma Nel, Elma Marais, Lisa Dieker -- Chapter 3 The value of work-integrated learning for professional teacher development programmes in open distance learning / Divan Jagals -- Chapter 4 WIL and teaching schools: The UJ teaching school experience / Sarita Ramsaroop, Nadine Petersen, Sarah Gravett -- Chapter 5 The first-year student teacher as a self-directed learner / Neal Petersen, Josef de Beer, Elsa Mentz -- Chapter 6 Self-directed learning in Teacher Education: Lessons from Finland / Elsa Mentz, Josef de Beer -- Chapter 7 The affordances of case-based teaching that draws on drama in pre-service teacher education / Josef de Beer, Marthie van der Walt, Byron Bunt -- Chapter 8 "WIL goes POP": The role of a Professional Orientation Programme in addressing the apprenticeship of observation in first year B.Ed students / Carolina Botha, Elizabeth M. Reyneke -- Chapter 9 The Role of Reflection as Vehicle for Self-Directed Learning during Work-Integrated Learning of Student Teachers / Juliet Rens, Lounell White, Lettie Botha -- Chapter 10 The Role of WIL Excursions in Preparing Student Teachers for Diverse Classrooms and Teaching Social

Justice in South African Classrooms / Tswakae Sebotsa, Neal Petersen, Melissa Speight Vaughn -- Chapter 11 A hybrid model building on prolepsis for effective practice teaching in pre-service Life Sciences teacher education / Josef de Beer, Sarah Gravett -- Chapter 12 An alternative model for Work Integrated Learning in South African schools / Izak Oosthuizen, Lloyd Conley, Carolina Botha.

Sommario/riassunto

This book disseminates original research on learning in and from practice in pre-service teacher education. Authors such as Lederman and Lederman describe the student teaching practicum (or work-integrated learning [WIL]), which is an essential component of pre-service teacher education, as the 'elephant in the room'. These authors note that 'the capstone experience in any teacher education programme is the student teaching practicum ... [a]fter all, this is where the rubber hits the road'. However, many teacher educators will agree that this WIL component is sometimes very insufficient in assisting the student teacher to develop their own footing and voice as a teacher. This is the 'gap' that this research book addresses. Most of the chapters in the book report empirical data, with the exception of two chapters that can be categorized as systematic reviews. WIL is addressed from various angles in the chapters. Chapter 6 focuses on research related to what makes Finnish teacher education so effective, and in Chapter 4 researchers of the University of Johannesburg disseminate their findings on establishing a teaching school (based on Finnish insights) in Johannesburg. Chapter 3 highlights the challenges faced in open- and distance learning teacher education contexts. Several of the chapters disseminate research findings on alternative interventions to classic WIL, namely, where "safe spaces" or laboratories are created for student teachers to learn and grow professionally. These could either be simulations, such as software programmes and avatars in the intervention described in Chapter 2; student excursions, as the findings in chapters 5, 7 and 10 portray; or alternative approaches to WIL (e.g. Chapters 11 and 12). The book is devoted to scholarship in the field of pre-service teacher education. The target audience is scholars working in the fields of pre-service teacher education, work-integrated learning, and self-directed learning. The book makes a unique contribution in terms of firstly its extensive use of Cultural-Historical Activity Theory as a research lens, and secondly in drawing on various theoretical frameworks. Both quantitative and qualitative research informed the findings of the book.

2. Record Nr. UNISA996418443903316

Autore	Vorlander Michael
Titolo	Auralization : fundamentals of acoustics, modelling, simulation, algorithms and acoustic virtual reality / / Michael Vorlander
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] ©2020
ISBN	3-030-51202-9
Edizione	[2nd ed. 2020.]
Descrizione fisica	1 online resource (XVIII, 365 p. 251 illus., 20 illus. in color.)
Collana	RWTHedition, , 1865-0899
Disciplina	006.5
Soggetti	Virtual reality Psychoacoustics Sound
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter1: Fundamentals of acoustics -- Chapter2: Sound sources -- Chapter3: Sound propagation -- Chapter4: Sound fields in cavities and in rooms -- Chapter5: Structure-borne sound -- Chapter6: Psychoacoustics -- Chapter7: Signal processing for auralization -- Chapter8: Characterization of sources -- Chapter9: Convolution and binaural sound synthesis -- Chapter10: Simulation methods -- Chapter11: Simulation of sound in rooms -- Chapter12: Simulation and auralization of outdoor sound propagation -- Chapter13: Simulation and auralization of airborne sound insulation -- Chapter14: Simulation and auralization of structure-borne sound -- Chapter15: Transfer path analysis and synthesis -- Chapter16: Filter construction for real-time processing -- Chapter17: 3D sound reproduction -- Chapter18: Acoustic Virtual Reality systems.
Sommario/riassunto	Auralization is the technique of creation and reproduction of sound on the basis of computer data. With this tool it is possible to predict the character of sound signals which are generated at the source and modified by reinforcement, propagation and transmission in systems such as rooms, buildings, vehicles or other technical devices. This book is organized as a comprehensive collection of the basics of sound and vibration, acoustic modelling, simulation, signal processing and audio

reproduction. With some mathematical prerequisites, the readers will be able to follow the main strategy of auralization easily and work out their own implementations of auralization in various fields of application in architectural acoustics, acoustic engineering, sound design and virtual reality. For readers interested in basic research, the technique of auralization may be useful to create sound stimuli for specific investigations in linguistic, medical, neurological and psychological research, and in the field of human-machine interaction.