Index

21st Century Engineering Skills 267

A
ABET Requirements 161
Academic Regulations Requirements 252
Accreditation 249
Accreditation Board for Engineering and Technology (ABET) 46, 81, 265
Anthropological Field 288
Assessment 180
Assessment Design 110
Australian Learning and Teaching Council (ALTC) 81
Automated Internet Modeling (AIM) Lab 222

B
Blackboard 180
Blended Learning 128, 167, 180, 195

C
Change Management 124
Change Processes in Engineering Education 42
Collaborative Learning 34, 224
Collaborative Learning Culture 35
Community Based Auditing (CBA) 311
Community Engagement 302
Community Engagement Plan 306
Competencies of Engineering Graduates (CEG) 45
Competency 43
Complementary Studies (CS) 248
Computer Engineering 198
Conceive, Design, Implement, Operate (CDIO) 145
Content Authoring 170
Curriculum 43
Curriculum Design and Implementation 27
Cyberculture 289

D
Decision Making 303
Digital Resource 128
Distance Learning 3, 235

E
Education 291
Educational Technology Unit (NTE) 130
Education Standards 2
Effectiveness 182
e-Learning 2, 167, 179, 205
e-Learning Interaction and Adaptation 197
Engineering 267, 290
Engineering Curriculum 258, 313
Engineering Education 65, 108
Engineering Humanities 291
Engineering PBL Curricula 27
Engineering Project Management 312
Engineers for a Sustainable World (ESW) 280
Engineers Without Borders (EWB) 280
Enquiry-Based Learning (EBL) 10
Environmental Impact Assessments (EIA) 301
Epistemological Field 289
Ethics 295
Eureka 129
Evaluation 12, 308

F
Face to Face (F2F) 197
Facilitation 30
Final Year Engineering Project (FYEP) 82
Finishing Culture 35
First Year Engineering 115
Four Stages of Inquiry 76
FYEP Assessment 82
Index

G
General Education Courses (GEC) 251
General Education (GE) 248
General Education Sustainability Course 272
Generic Engineering Competencies 44
Graduate Attributes 67
Graphical User Interface (GUI) 224

H
Home Campus Residential Visit 239
Human-Centered Technology 289
Humanities 291

I
iLab Shared Architecture (ISA) 221
Industry Project 86
Information and Communication Technology (ICT) 5
Innovation 267
Innovative Teaching 233
Internationalisation 244
Internet Laboratory (I-Lab) 221

L
Lab-on-Web 221
Learner-Centered 4, 65
Learning Disabilities (LD) 217
Learning Environment 149
Learning Experience 116
Learning Management Software 181
Learning Management System (LMS) 170
Learning Objectives 170
Learning Object (LO) 129, 197
Learning Resources 234
Learning Support 237
Lifelong Learning 67, 199
LMS Moodle 170

M
Main Disciplines of Engineering 66
Mechanical Engineering Program 235
ME-Learning 197
Microelectronics 221
Modeling and Simulation (M&S) 160

N
Next Generation Laboratory (NGL) 221

O
Off Campus Learning 235
Offshore Delivery 235
Online Educational Material 130
Online Learning - See e-Learning.
Online Tutorial 9

P
PBL Teams 34
Pedagogical Challenges 124
Pedagogy 3, 152
Performing Culture 35
Plippers 147
Policy Development and Curricula Reform 68
Pontifical Catholic University of Parana (PUCPR) 127
Principles of Community Engagement 304
Problem-Based Learning (PBL) 26, 106
Professional Skills 249
Program 43
Program Evaluation 54
Project-Based Learning 72
Project-Based Teaching 72
Project Planning 303

Q
Quality Assurance 173

R
Recycle 147
Remote Experimentation 221
Renewable Energy 3
Renewable Energy Systems Technology (REST) 2
Responsibility 291
Retention 153

S
Semesterisation 250
Simulation-Based Engineering Science (SBES) 158
Sociocultural Field 289
Student Assessment 114
Index

Student Learning Experience 34
Sustainability 263
Sustainable Community Development (SCD) 314
Sustainable Development 265

T
Taxonomy 129, 140
Technique 286
Technology 286
Technology-Based Teaching 188
Technology Enhanced Learning 159
Technoscience 287
Techno-World 288

U
United Nations Educational, Scientific and Cultural Organization (UNESCO) 265
United Nations Millennium Development Goals 266

V
VHN-TIO 198
Virtual Experiment 6
Virtual Learning Environment (VLE) 6, 129

W
Washington Accord 265
Web-Based Experimentation 221