

# Index

## A

Academic freedom, 7, 17, 45, 58, 65, 134, 155  
Accountability, 10, 13, 56, 61, 62, 69, 115, 312  
Accreditation, 14, 28, 34, 36, 45, 50, 57, 64,  
115, 119, 170, 171, 173, 179, 230, 245,  
246, 248, 257, 283, 291, 299, 305  
Admissions, ix, 13, 26, 38, 61, 64, 72, 73,  
75, 76, 215, 238, 240, 243, 247, 248,  
257, 258, 268, 278, 282, 284, 285, 303,  
304, 307  
Agricultural Colleges, 211–217, 219–222  
Agricultural education, x, 210–212,  
216–218, 222  
Agricultural research, 211, 219–221  
American University of Beirut (AUB), v, 137,  
152, 157, 158, 172, 177, 212–216, 278,  
297–299, 308  
Arab region, v, vii, ix, 2–21, 23–31, 33–45,  
47–51, 74, 76, 86–103, 148, 210,  
226–235, 237–248, 259, 276, 299  
Arab tertiary education, 45, 67  
Arab Universities, viii–xi, 3, 12, 16, 30, 35,  
36, 41–44, 46, 47, 49–51, 56–69,  
74–76, 135, 137, 156, 164–173,  
176–183, 194, 207, 219, 229, 230, 232,  
233, 246, 277  
Arab Virtual Universities, 171, 172  
Arab world, v, viii–xi, 2, 3, 6–8, 17, 34–50,  
57–60, 62, 67–69, 72–74, 76–83, 93,  
94, 96, 97, 99, 100, 103, 143–159, 170,  
171, 173, 176, 177, 180, 183, 207,  
210–221, 227

Autonomy, viii–x, 13, 56–60, 62–69, 72, 73,  
75, 76, 115, 178, 203, 248, 257,  
288–293, 302

## B

Blended learning, viii, 74, 129, 164, 166, 167,  
170, 172, 173, 234  
Brain drain, viii, x, 14, 35, 218, 295, 297–299,  
308, 312

## C

Christian theology, 199–202, 207  
Citations, 4, 14, 16, 39–41, 97–99, 118, 135,  
177, 178, 183  
Climate change, 37, 44, 49, 51, 87, 88,  
196, 210  
Communities of practice, 68  
Compensation, 63, 270, 285  
Competition, 11, 14, 19, 31, 34, 59, 65–67, 75,  
76, 82, 93, 114, 119, 125, 148, 150,  
229, 248, 282, 284, 291, 303  
Cost of university students, 226  
Cost sharing, 281–283  
Creation, vii, viii, 7, 10, 27, 31, 36, 45, 49, 58,  
64, 73, 95, 108, 124, 127, 130–132,  
138, 156, 159, 176, 179, 190, 193,  
201–203, 207, 258, 290  
Critical thinking (CT), 4, 7, 14, 74, 78, 103,  
127, 169, 170, 179, 182, 184, 191, 195,  
196, 234

Curriculum, 4, 12, 28, 34, 61, 64, 66, 75, 134, 179, 183, 189, 191, 196, 215, 217, 218, 222, 234

## D

Development, v, vii–x, 2, 4–7, 9, 12, 18, 21, 24, 26–29, 32–41, 44, 49, 64, 65, 67, 68, 73, 76, 78, 79, 83, 86–92, 94, 99, 101, 106–111, 113–115, 125–127, 130–132, 135, 139, 148, 149, 153, 155, 164, 166–169, 171, 173, 177–179, 182, 202, 206, 207, 210, 211, 214, 216–222, 234, 244, 262, 276, 278, 280, 287, 288, 290–292, 296, 302, 305, 312

Distance learning, x, 20, 24, 27, 164–173

## E

Editorial piece, 150

Enterprise, 24, 60, 63–65, 67, 107, 108, 111, 138, 203, 218, 226, 273, 285, 308

Entrepreneurship, 4, 30, 31, 33, 37, 72, 76, 78, 83, 103, 106, 108, 109, 111, 113, 217, 227

Expenditure on Research & development (R&D), 72, 89, 90, 93–95, 113, 114

## F

Financing education in Arab countries, 226

Financing higher education worldwide, 226

Financing students education, 250

## G

Global competitiveness, 47, 88, 89, 115

Governance, ix, 13, 14, 16, 18, 36, 45, 56–69, 72, 73, 75, 88, 103, 116, 123, 177, 226, 234, 291, 292

Governance and management, ix

Graduate jobs, 10

## H

Healthcare education, x, 295, 296, 298, 299

Higher education (HE), v, ix, 6, 56, 72–74, 76–83, 86, 106, 124, 156, 165, 176, 188–196, 212, 226, 251, 256, 257, 288, 302

Higher education in Jordan, x, 221, 238, 242, 246, 250, 251, 253–285

## I

Innovation, 10, 21, 28–31, 33, 40, 42, 43, 47, 48, 58, 65, 66, 72, 73, 75, 83, 88, 89, 92, 95, 100, 103, 106–111, 113–116, 126, 135, 140, 159, 173, 183, 210, 227, 236, 278, 292

Intellectual property, vii, viii, 4, 6, 12, 17, 28, 31–33, 35, 37, 39, 41, 46, 101, 125, 130–133, 136, 235

## J

Jordan, x, 2, 57, 75, 79, 81, 93, 135, 144, 170, 212, 226, 251, 256, 308

Jordan example, 230, 231

## K

Knowledge economy, viii, ix, 58, 78, 83, 92, 105–120

Knowledge exchange, 136, 309

## L

Leadership selection, 62, 65

Learning analytics, 165, 166, 171

Lebanon, x, 2, 36, 57, 64, 68, 79, 81, 82, 96, 97, 99, 135, 137, 144, 147, 150–152, 155, 156, 170, 172, 212, 213, 215, 218, 220, 226, 228–232, 239, 253, 295–299, 308

Liberal arts, x, 4, 9, 176–184

## M

Maghreb, x, 149, 155, 287–292

Massification, 128, 288, 289

Mobility of students, ix, 81, 306

Modern science, x, 40, 200, 204

Multi-disciplinarity, 181, 184

## N

Non-overlapping magisteria (NOMA), 194

## O

Online courses, viii, 6, 23, 26, 166, 172

Online learning, 15, 164–166, 169–171, 173

Open education, 164, 165, 172, 173

## P

Pakistan example, 105

Pedagogy, 28, 74, 75, 177, 178, 184, 191, 289

- Political interference, 56  
 Post-war requirements, 301  
 Promotion, 33, 38, 40, 57, 61, 63, 74, 76, 103, 110, 113, 114, 117, 120, 139, 159, 176, 219, 221  
 Public social science, 145, 147
- Q**  
 Quality and relevance, xi, 50, 72–76, 78, 83, 88, 226, 248  
 Quality assurance, xi, 11, 47, 50, 117, 119, 256, 257, 277, 290, 291, 305, 312  
 Quality assurance and accreditation, 50, 119, 305
- R**  
 Ranking, viii, ix, 8, 9, 13–16, 35, 46, 60, 65–68, 72–74, 81, 82, 88, 89, 94, 99, 102, 111, 118, 126, 135–137, 176, 178, 183, 228, 236, 248, 277, 289, 298, 299, 305  
 Reforms, x, xi, 11, 36, 68, 76, 86, 114, 118, 119, 178, 182, 229, 233, 234, 236, 238, 239, 247, 248, 255, 257, 275, 280–285, 287–293  
 Reforms of higher education, 233, 234  
 Regionalization, 292, 293  
 Relevance, ix–xi, 7, 13, 14, 22, 45, 47, 50, 72–83, 88, 116, 144, 145, 159, 183, 192, 248, 254, 305, 306, 313  
 Religion and science, 190, 192–195, 199, 201, 203–205, 207  
 Repatriation, 297  
 Research, viii–x, 4, 58, 72, 73, 75–79, 81, 83, 86, 106–120, 124, 143, 148, 152, 159, 167, 176, 190, 210, 226, 257, 289, 296  
 Research & development (R&D), 12, 86, 88  
 Research in energy, 43, 45
- S**  
 Science and Religion, x, 188–192, 194–196  
 Science in the Arab region, 86  
 Science parks, ix, 15, 30–34, 46, 48, 109, 139  
 Scientific community, 148, 151, 155, 203  
 Scientific research, 60, 144, 155, 156, 159, 193, 236, 258, 270, 271, 279, 291  
 Skills, ix, x, 3, 7, 11, 17, 27, 30, 32, 36, 39, 47, 48, 61, 75, 78, 86, 106, 108–111, 115, 116, 125, 127, 128, 135, 139, 164, 165, 168–170, 181, 184, 216, 217, 220, 222, 234, 255, 263, 273, 278, 279, 285, 289, 306
- Socio-economic development, 78, 106, 107  
 Social impact, 10, 144, 152, 155, 156, 159  
 Spinouts, viii, 12, 35, 136–139  
 STEM subjects, ix  
 Student tuition, 14, 125, 233, 242–245, 247, 259, 281  
 Syria, x, 2, 3, 36, 44, 64, 69, 170, 172, 212, 213, 215, 220, 221, 226, 232, 239, 261, 302, 303, 305–307, 309, 310, 312  
 Syrian higher-education sector (SHES), 301–313  
 Syrian war, 312
- T**  
 Teaching and research, 11, 13, 15, 17, 45, 72, 73, 75, 76, 124, 183, 226, 227, 230, 234, 235, 244, 248, 292  
 Technology Innovations, 88, 95, 100, 109, 111, 278  
 Theology and science, 199, 200, 202, 203, 205, 206  
 Trilemma, 58, 59, 67  
 Triple Helix, 109  
 Tuition fees in China, 236
- U**  
 University business collaboration, 110  
 University business engagement, ix  
 University finances, 60, 67, 130, 247, 282  
 University governance, ix, 57, 62, 68  
 University rankings, 9, 14–16, 72–74, 82, 118, 176, 183  
 University reform, x, 179, 288–293
- V**  
 Vocational education training (VET), 36, 253, 302, 306
- W**  
 Water and food nexus, 86, 88  
 Water research, 43, 45, 220  
 Water scarcity, 87