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Exploring the Impact of Interactive E-Learning Platforms on Higher Education: A Cross-Cultural Analysis

Ana Martínez, Kenzo Tanaka, Nia Abubakar

Ana Martínez - University of Salamanca, Salamanca, Spain; Kenzo Tanaka - University of Rijeka, Rijeka, Croatia; Nia Abubakar - Universiti Sains Malaysia, Penang, Malaysia

Keywords: e-learning, higher education, cross-cultural analysis, interactive platforms, student engagement, educational outcomes

2.

Epigenetic Modulators in Determining Developmental Pathways and Disease Susceptibility

Dr. Anisha Thapa, Dr. Enkhbayar Davaajargal, Dr. Amina Hassan

Tribhuvan University, Kathmandu, Nepal; National University of Mongolia, Ulaanbaatar, Mongolia; University of Manitoba, Winnipeg, Canada

Keywords: epigenetics, methylation, histone modification, gene expression, developmental pathways, disease susceptibility

3.

Influence of Altitudinal Gradients on Plant Diversity and Ecosystem Dynamics in Tropical Regions

Farah Amanullah, Javier Martinez, Chen Wei

Department of Botany, University of Dhaka, Dhaka, Bangladesh; College of Ecology, Lanzhou University, Lanzhou, China; Department of Plant Biology and Biodiversity Management, Addis Ababa University,

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Keywords: altitudinal gradient, plant diversity, tropical ecology, species composition, ecosystem dynamics, conservation strategy

4.

Optimizing Software Development Workflow: Analyzing Agile and DevOps Integration for Improved Efficiency

Dimitrios Papadopoulos, Min-Jae Kim, Amina El-Sayed

University of Patras, Patras, Greece; University of Rostock, Rostock, Germany; University of Tasmania, Hobart, Australia

Keywords: Agile methodology, DevOps, software development, continuous delivery, workflow optimization, team productivity

5.

Advanced Techniques in Solving Polynomial Equations via Algebraic Structures

Anjali Perera, Min-Seok Kim, Leila Hakimi

Department of Mathematics, University of Colombo, Colombo, Sri Lanka; Department of Mathematics, Kyungpook National University, Daegu, South Korea; Department of Pure Mathematics, Ferdowsi University of Mashhad, Mashhad, Iran

Keywords: polynomial equations, algebraic structures, rings, fields, computational efficiency, root-finding algorithms

6.

Global Health Impacts: Analyzing Epidemiological Trends in Communicable Diseases

Jonas Mikulenas, Priya Natarajan, Ibrahim El-Amin, Maria Gonzalez

Vilnius University, Vilnius, Lithuania; University of Rostock, Rostock, Germany; University of Zambia, Lusaka, Zambia

Keywords: epidemiology, communicable diseases, global health, vaccination, antimicrobial resistance, socioeconomic factors

7.

Innovative Nanocomposite Materials for Enhanced Photocatalytic Applications in Environmental Remediation

Marek Kowalski, Li Wei, Samira Al-Khatib, Tawanda Chikowore

Nicolaus Copernicus University, Toruń, Poland; Al-Nahrain University, Baghdad, Iraq; University of Zimbabwe, Harare, Zimbabwe

Keywords: nanocomposite, photocatalysis, environmental remediation, sol-gel method, metal oxides, graphene derivatives

8.

The Impact of Land Use Change on Biodiversity in Mediterranean and Tropical Regions

Luis Herrera, Min-Jae Kim, Fatima Mwangi

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Keywords: biodiversity, land use change, Mediterranean ecosystems, tropical ecosystems, remote sensing, species richness

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