

Souvenir

INTERNATIONAL SEMINAR JAN 12, 2026, NATIONAL YOUTH DAY INDIA

“Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility”

**Jyotiba Phule Government College
Radaur, Haryana**



DR RINKU
DR NARESH KUMAR
PROF (DR) SANDEEP KUMAR



International Seminar on National Youth Day India

January 12, 2026

“Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility”

A Book of Seminar Proceedings

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Message from Principal



On behalf of Jyotiba Phule Government College, Radaur, it gives me immense pleasure to extend a warm welcome to all delegates, researchers, academicians, students, and professionals participating in the International Seminar organized on 12 January 2026, in collaboration with the International Council for Education, Research and Training (ICERT), USA & India, on the occasion of National Youth Day and the 163rd Birth Anniversary of Swami Vivekananda.

The theme of the seminar, “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility,” is both timely and inspiring. It reflects the vision of Swami Vivekananda, who believed that empowered and enlightened youth are the true architects of a strong and progressive nation. In today’s rapidly changing global landscape, nurturing innovation, ethical leadership, and social responsibility among young minds is essential for achieving sustainable development.

This international platform brings together participants from diverse disciplines and regions, fostering meaningful dialogue, knowledge exchange, and collaborative thinking. I am confident that the research papers and discussions presented in these conference proceedings will contribute significantly to academic enrichment and offer practical insights for addressing contemporary global challenges.

I congratulate the organizing committee for their dedicated efforts in making this seminar a success and thank all contributors for their valuable scholarly inputs. I wish the seminar every success and hope that these proceedings serve as a lasting source of inspiration and knowledge for readers and researchers alike.

Dr Surender Kumar Singh

Principal,

Jyotiba Phule Government College Radaur Yamunanagar Haryana



Message from Convenor



It is with great pleasure that I welcome all delegates, researchers, academicians, students, and professionals to the International Seminar jointly organized by Jyotiba Phule Government College, Radaur and the International Council for Education, Research and Training (ICERT), USA & India, held on 12 January 2026 in observance of National Youth Day and the 163rd Birth Anniversary of Swami Vivekananda.

The seminar theme, “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility,” highlights the pivotal role of youth in shaping a resilient, inclusive, and sustainable global society. Inspired by the teachings of Swami Vivekananda, the seminar emphasizes the need to nurture young minds through knowledge, ethical values, innovation, and leadership across disciplines.

This global academic forum has brought together participants from diverse backgrounds, fostering interdisciplinary dialogue, research collaboration, and the exchange of innovative ideas. The papers compiled in these conference proceedings reflect thoughtful research, contemporary perspectives, and actionable solutions to pressing societal and environmental challenges.

I sincerely thank all authors, reviewers, keynote speakers, and participants for their enthusiastic involvement and valuable contributions. I also express my gratitude to the organizing team for their dedicated efforts in ensuring the successful execution of this international seminar. I am confident that these proceedings will serve as a valuable academic resource and inspire further research and collaboration in the pursuit of a sustainable future.

With warm regards,

Dr Rinku,

Convenor, HoD, Department of Defence Studies,

Jyotiba Phule Government College Radaur Yamunanagar Haryana



Message from Convenor



It is an honor and a privilege to be associated with the International Seminar organized on 12 January 2026 by Jyotiba Phule Government College, Radaur, in collaboration with the International Council for Education, Research and Training (ICERT), USA & India, to commemorate National Youth Day and celebrate the birth anniversary of Swami Vivekananda.

The theme, “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility,” captures the essence of contemporary academic and societal needs. In an era defined by rapid transformation and global challenges, empowering youth with interdisciplinary knowledge, critical thinking, and a strong sense of social responsibility is crucial for sustainable progress.

This seminar has served as a dynamic platform for researchers, academicians, students, and professionals from diverse fields to share ideas, present research, and engage in meaningful discussions. The contributions compiled in these proceedings reflect innovative thinking, scholarly rigor, and a collective commitment to shaping a better and more sustainable future.

I extend my sincere appreciation to all contributors, participants, and members of the organizing committee for their dedicated efforts and academic contributions. I am confident that the insights documented in these proceedings will inspire further research, collaboration, and youth-driven leadership initiatives at national and global levels.

With best regards,

Dr Naresh Kumar

Convenor, Assistant Professor, Department of English,

Jyotiba Phule Government College Radaur Yamunanagar Haryana



Message from Coordinator



I am delighted to welcome all participants to the International Seminar jointly organized by Jyotiba Phule Government College, Radaur and the International Council for Education, Research and Training (ICERT), USA & India, held on 12 January 2026 to commemorate National Youth Day and the birth anniversary of Swami Vivekananda.

The seminar theme, “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility,” reflects our shared commitment to nurturing youth as agents of positive change. Drawing inspiration from Swami Vivekananda’s vision, the seminar emphasizes the integration of knowledge, values, and innovation to address global challenges and promote sustainable development.

This academic gathering has provided a vibrant platform for researchers, academicians, students, and professionals from diverse disciplines to exchange ideas, present research findings, and explore collaborative opportunities. The scholarly contributions compiled in these conference proceedings demonstrate intellectual rigor, creativity, and a strong sense of social responsibility.

I sincerely thank all authors, speakers, reviewers, and participants for their valuable contributions and active engagement. I also extend my appreciation to the organizing committee for their unwavering support and coordination. I am confident that these proceedings will serve as a meaningful academic resource and inspire continued dialogue and innovation toward a sustainable future.

With sincere regards,

Dr Rajender Kumar

Coordinator, HoD, Department of History,

Jyotiba Phule Government College Radaur Yamunanagar Haryana



Message from the President, ICERT



It is with immense pleasure and pride that I extend my warmest greetings on the occasion of the International Seminar on “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility”, organised by the Jyotiba Phule Government College Radaur, Haryana in collaboration with the International Council for Education Research and Training (ICERT) USA & India.

The date of January 12, 2026, mark a critical moment for global academic gathering. Our chosen theme underscores the urgent necessity of multidisciplinary approaches to address the world’s most pressing challenges. As global shifts accelerate across policy and practice, it is the integration of knowledge from diverse fields—from education and technology to sustainability and social transformation—that will truly unlock innovative and equitable solutions.

This conference serves as a vital platform, uniting scholars, researchers, educators, and professionals from various disciplines. By fostering international dialogue and collaboration, we aim to collaboratively explore pressing challenges and shape concrete solutions that contribute toward building inclusive, equitable, and sustainable futures for all.

I commend the Jyotiba Phule Government College Radaur for their initiative and dedication in co-hosting this event. May the discussions and collaborations forged over these two days lead to meaningful contributions that inform policy and practice for generations to come.

I wish all participants a highly stimulating and productive conference.

Prof. (Dr.) Sandeep Kumar

**President, International Council for Education Research and Training (ICERT),
Pennsylvania, USA & India**



Message from the Director, ICERT–Sophia



It gives me immense pleasure to address you as the Director of ICERT–Sophia, the division dedicated to Education & Learning Advancement, on the occasion of the International Seminar held on January 12, 2026. This significant event is a powerful collaboration between the Jyotiba Phule Government College Radaur and the International Council for Education Research and Training (ICERT).

Our conference theme, “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility,” directly resonates with the core mission of ICERT–Sophia. In a world defined by rapid technological and social change, the advancement of learning is paramount. It is through innovative educational policies and integrated teaching practices that we can empower the next generation to navigate these global shifts effectively.

This gathering offers a critical opportunity to explore how various disciplines—from technology and policy-making to social sciences—must converge to redefine our educational landscapes. We are here to discuss practical, actionable strategies for fostering innovation and ensuring that education remains inclusive and equitable, serving as a catalyst for sustainable development.

I look forward to the insights that will emerge from the parallel sessions and dialogues. May the ideas exchanged at this conference inspire new models for learning and contribute substantially to advancing education and achieving a sustainable future.

My sincere gratitude goes to the organizers at Jyotiba Phule Government College Radaur for their dedicated efforts in making this international exchange possible.

Dr. Navneet Kaur

Director

ICERT–Sophia – Education & Learning Advancement Division, ICERT



Message from the Director of Finance, ICERT



It is my great pleasure to extend warm greetings to all participants, organizers, and distinguished guests attending the Global Seminar on “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility,” being held on January 12, 2026, on the auspicious occasion of National Youth Day and the birth anniversary of Swami Vivekananda.

I sincerely appreciate the efforts of Jyotiba Phule Government College, Radaur, in collaboration with the International Council for Education Research and Training (ICERT), USA & India, for organizing this meaningful academic initiative. Bringing together researchers, academicians, students, and professionals from diverse disciplines, this seminar serves as an important platform for dialogue, collaboration, and the exchange of innovative ideas.

Empowering young minds is not only an educational responsibility but also a strategic investment in a sustainable and inclusive future. By integrating multidisciplinary perspectives on innovation, leadership, and social responsibility, such forums nurture critical thinking, ethical leadership, and a strong sense of global citizenship among youth.

ICERT remains committed to supporting initiatives that promote quality education, youth leadership, and sustainable development. I encourage all participants to actively engage in the discussions, share insights, and work collectively toward building solutions that address contemporary societal and environmental challenges.

I wish the seminar every success and hope it inspires meaningful learning, collaboration, and long-term impact.

Dr. Simran Mehta

Director of Finance, Board of Directors

Head, Core Committee, ICERT



About the Seminar:

Jyotiba Phule Government College Radaur and International Council for Education Research and Training (ICERT), USA & India invite you to a global seminar celebrating National Youth Day and Swami Vivekananda's birthday. The event unites researchers, academicians, students, and professionals from all disciplines to foster innovation, collaboration, and youth leadership for a sustainable world.

Seminar Objectives

- Promote interdisciplinary research and share global best practices in education, innovation, and sustainability.
- Strengthen youth leadership addressing socio-economic and technological challenges.
- Foster debate and networking across commerce, engineering, law, humanities, technology, social sciences, and more.
- Encourage critical inquiry, conceptual advancement, and policy recommendations that shape sustainable futures.

Sub-Themes (for Article Contributions):

1. Educational Innovation and Curriculum Reform
2. Digital Transformation in Teaching & Learning
3. Youth Mental Health and Social Well-being
4. Sustainable Business Strategies
5. Entrepreneurship, Startups & Youth Empowerment
6. Legal Frameworks for Youth Development
7. Gender Studies and Women's Leadership
8. Ethics, Governance, and Social Accountability
9. Climate Change, Eco-Consciousness & Green Technologies
10. Smart Cities & Rural Development



11. Artificial Intelligence in Education and Enterprise
12. Data and Knowledge Management
13. Social Justice, Inclusion & Diversity
14. Culture, Heritage & Indigenous Knowledge Systems
15. Community Policies for Youth Engagement
15. Value-Based Leadership Models
16. Financial Literacy and Management
17. Advances in Science and Technology
18. Environmental Education and Policy
19. STEM for Sustainable Development
20. Human Rights and Global Citizenship
21. Digital Humanities and Cultural Analytics
22. Sustainable Infrastructure & Urban Planning
23. Psychological Well-being and Resilience
24. Communication & Media Studies
25. Food Security, Nutrition and Public Health
25. E-Governance and Civic Technologies
26. Law, Justice, and the Judiciary
27. Art, Literature, and Creative Practices
28. Cybersecurity, Digital Ethics & Online Safety
29. Artificial Intelligence and Autonomous Weapons Systems in Modern Warfare
30. Quantum Computing and Military Communications Security
33. Hypersonic Missiles and Strategic Stability
34. Cyber Warfare, Nation-State Threats, and Defence Responses
35. Space-Based Military Capabilities and Security
36. Directed Energy Weapons and Next-Gen Battlefield Technology
37. Global Security Trends: Indo-Pacific and Euro-Atlantic Relations
38. Revolutions and Social Movements: Past and Present
39. Interpreting Historical Trauma: War, Memory, and Reconciliation



40. Ethics and Legal Aspects of Autonomous Combat Systems
41. Defence Logistics and Resilient Supply Chains Post-Pandemic
42. Digital Humanities: Reimagining Historical Sources
43. Maritime History and Geopolitical Change
44. Biographical Studies: Unsung Women in History
45. History, Heritage, and Sustainable Tourism
46. Environmental Sustainability in Defence Procurement and Operations
47. Decolonization Narratives: Global South Perspectives (20th–21st Century)
48. New Histories of Migration and Diaspora: Archives & Memory
49. Environmental Histories: Climate, Disaster, and Adaptation

50. Indigenous Histories and Postcolonial Discourse
51. Digital Storytelling and New Media Narratives
52. Gender, Identity, and Intersectionality in Contemporary Fiction
53. Literature and Ecocriticism: Global Environmental Narratives
54. Translation Studies: Voices from the Margins
55. AI, Creativity, and the Future of Literary Production
56. Migration, Exile, and Global English Literatures
57. Memory Studies: Trauma and Testimony in Literature
58. Indian Writing in English: New Trends and Voices
59. Literature and Social Justice in the 21st Century
60. Post-Pandemic Literature: Trauma, Recovery, and Resilience

Submission and Presentation Guidelines

Note

Any well-researched article related to the main theme “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility”—or any sub-theme—will be accepted for presentation and publication. Contributions are welcomed from education, commerce, management, law, social sciences, humanities,



science, engineering, technology, and computer science. Conceptual, theoretical, and empirical papers are accepted if they provide new insights, critical analysis, or innovative approaches that align with the theme and sub-themes.

Call for Research Papers

Who may contribute: Academicians, research scholars, students, and professionals from recognized institutions.

Abstract Guidelines:

Length: 300–500 words (.doc or .docx)

Must Include: Paper Title, Author(s) Name(s), University/Institution, Keywords

Submission: seminars@icert.org.in

Full Paper Guidelines

- Maximum length: 10,000 words
- Formatting (English): MS Word, Times New Roman, 12 pt, 1.5 spacing
- Formatting (Hindi): MS Word, Unicode, 14 pt, 1.5 spacing
- Impact statement (max 150 words)
- Hyperlinked in-text references, serialized bibliography
- Author profile (max 1 page) with ORCID/Google Scholar ID
- Grammar-checked files required

Paper Publication & Awards

All accepted abstracts and papers (as per choice) published in Proceedings Book (ISBN)

Digital certificates to all presenters and participants

Best Paper Presentation: Certificates for top two presenters per session

Selected papers eligible for ICERT journals:

Shodh Sari – An International Multidisciplinary Journal (ISSN: 2959-1376)

Edumania – An International Multidisciplinary Journal (ISSN: 2960-0006)



Awards (International Felicitation)

"Indian Youth Icon Award 2025"

ICERT Indian Youth Icon Award recognize the professionals from different disciplines who have positively contributed towards Indian youth empowerment and are continuously enriching education/ research fraternity & society with their distinguished services.

"Savitribai Phule Excellence Award 2026"

ICERT "Savitribai Phule Excellence Award" is an honour to educationists, and social reformers, who have positively contributed towards the empowerment of the women/ girls/ men/ boys especially from weaker sections despite their caste, race or religion.

"Mahatma Jyotiba Phule Excellence Award 2026"

ICERT "Mahatma Jyotiba Phule Excellence Award" is an honour to educationists, and social reformers, who have positively contributed towards the empowerment of the women/ girls/ men/ boys especially from weaker sections despite their caste, race or religion.

Eligibility Criteria:

1. The application must have the minimum 30 yrs. age
2. The applicant must have demonstrated keen learning attitude, and achievements in life.
3. Applicants must have adequate experience in education, industry, social welfare or other discipline, and have positively contributed towards youth empowerment.
4. Must mention your social contribution and achievement in the profile before uploading in registration form.
5. Your profile must consist of
 - (i) Your full name as per your academic/ government approved identity document, and DOB.



- (ii) Current work affiliation and job title, and contact info.
- (iii) Educational qualification including degree, courses etc., with dates, and institution names,
- (iv) Current and past employment with institution name, dates, and title
- (v) Award citation and honours if any
- (vi) Research experience with journal name and ISSN number with volume and issue number
- (vii) Social welfare activities with evidences, social profile links/ identifiers, etc.

Award nomination is not a matter of award recognition claim, all nominations will be screened by the Award Screening Committee, the committee decision will be final and selected members will be informed via ICERT email: awards@icert.org.in

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International Seminar on “Empowering Young Minds for a Sustainable Future:
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Abstracts

International Seminar on “Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility” on Jan 12, 2026, National Youth Day India, jointly organized by
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Transforming Education for Sustainability: A Multidisciplinary Framework for Empowering Young Innovators and Ethical Leaders

Dr. Preeti Singhwal

Assistant Professor, Faculty of Management and Commerce, Swami Vivekanand Subharti University, Meerut, UP, India

Abstract

Education for Sustainable Development (ESD) continues to evolve with the need for new learning models that incorporate more than just the ability to raise awareness; the ability to create, apply ethical reasoning, and lead in relation to complicated socio-ecological issues is paramount. This paper proposes an integrative multidisciplinary approach aimed to transform education for sustainability to include sustainability literacy, systems thinking, responsible innovation, and values-based leadership within and across the formal and informal educational spheres. Using a three-phase research design, this study (i) consolidates findings from a structured review of ESD, innovation pedagogy, and ethics/leadership publications, (ii) refines and validates components of the framework, and obtains expert feedback and Delphi consensus, and (iii) shows sustainability of the framework through the development of a pilot implementation design for higher education, complete with proposed indicators of success and assessment rubrics.

The framework has four elements. Sustainability Knowledge, Innovation and Entrepreneurship, Ethical Reasoning and Civic Engagement, Leadership and Collaborative Competence. These are paired with active pedagogical approaches including project-based learning, design thinking, community engaged learning, and reflective practice. It details institutional facilitators (faculty development, cross-disciplinary governance, industry/NGO partnerships, and reward systems) and target outcomes (new products, ethical decision-making levels, collaboration and communication scores, and community development impact evidence related to SDGs).

This paper helps develop assessment-ready operational frameworks educators and institutions can implement for transformations in sustainability, overcoming disciplinary divides, and mentoring youth to become responsible innovators. This paper presents potential implications for curriculum development, frameworks for accreditation and quality, and policy-related implementations in various educational settings.

Keywords: Education for Sustainable Development (ESD), sustainability competencies, multidisciplinary framework, ethical leadership, youth innovation, responsible innovation, systems thinking, SDGs.

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Portrayal of Revolutions and Social Change in Contemporary Indian Writing in English

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Abstract

Contemporary Indian Writing in English offers a critical lens through which ongoing revolutions and processes of social change in post-liberalisation India are examined and contested. In the context of rapid urbanisation, economic inequality, political unrest, environmental crises, and shifting social identities, contemporary writers depict revolution not as a single historical rupture but as a continuous struggle embedded in everyday life. This paper analyses select works by writers such as Arundhati Roy, Aravind Adiga, Amitav Ghosh, Meena Kandasamy, and Jhumpa Lahiri to explore how literature engages with issues of caste violence, neoliberal capitalism, gender resistance, ecological activism, and marginalised voices. The study highlights how contemporary narratives foreground micro-revolutions—acts of dissent, protest, and survival—challenging dominant state and corporate ideologies. By employing postcolonial, Marxist, and subaltern perspectives, the paper argues that Indian Writing in English in the contemporary period functions as a space of ethical intervention and social critique. Ultimately, the paper demonstrates that contemporary literature not only reflects social transformation in India but also actively shapes public consciousness by reimagining justice, equality, and resistance in a rapidly changing socio-political landscape.

Keywords: Contemporary India, Indian Writing in English, Social Change, Revolution, Resistance, Neoliberalism, Marginalised Voices.

रक्षा के क्षेत्र में आयात से निर्यात तक जाता भारत

डॉ रिंकू

सहायक प्राध्यापक रक्षा अध्ययन विभाग ज्योतिबा फुले राजकीय महाविद्यालय रादौर
यमुनानगर हरियाणा।

सारांश :-

भारत आज विश्व के प्रमुख रक्षा शक्तियों में तेजी से उभर रहा है आधुनिक तकनीक स्वदेशी निर्माण क्षमता और रणनीतिक दृष्टि के कारण भारत का रक्षा कद लगातार मजबूत होता जा रहा है आत्मनिर्भर भारत अभियान के तहत देश रक्षा उपकरणों मिसाइल प्रणालियों, लड़ाकू विमान युद्ध और अत्याधुनिक तकनीक के उत्पादन में आत्मनिर्भर बनने की दिशा में महत्वपूर्ण कदम उठा रहा है इसके साथ ही भारत वैश्विक स्तर पर एक जिम्मेदार सुरक्षा साझेदारी के रूप में उभर रहा है जो संयुक्त सैन्य अभ्यासों शांति मिशनों और रणनीतिक सहयोग के माध्यम से अंतरराष्ट्रीय सुरक्षा में सक्रिय योगदान देता है। मजबूत सैन्य शक्ति, उन्नत अनुसंधान तथा बढ़ाते रक्षा निर्यात के कारण भारत का स्थान विश्व रक्षा परिदृश्य में पहले से कहीं अधिक महत्वपूर्ण हो गया है। अब भारत रक्षा उत्पादों का निर्यात करने वाला प्रमुख देश बन गया है जिसका लक्ष्य २०२९ तक रक्षा उत्पादन को ३ लाख करोड़ रुपए तक पहुंचाना है। आत्मनिर्भरता ने राष्ट्रीय सुरक्षा और आत्मविश्वास में वृद्धि की है क्योंकि अब देश की सेना को स्थानीय स्तर पर निर्मित अस्त्रों और उपकरणों का भरोसा मिलता है।

मुख्य शब्द: आत्मनिर्भरता, स्वावलंबी भारत, स्वदेशी ।

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Importance of Empowering Youth Leadership in Innovation and Global Responsibility

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Abstract

Youth leadership has the power of turning innovative ideas into reality of life for the benefit of people, fuelling idealism to change society, communities, schools, colleges, universities and organizations, applying skills development processes to solve problems, improving existing system, and ensuring progress in business, technology, and social justice. Youth leadership can shape the future activities for the development of the whole world by facing the local and global issues. Youth leadership has the capacity to face societal challenges driven by new energy, innovative ideas and diverse perspective. Application and implementation of innovative ideas in a very successful way are the process through which social, national and global development can be possible. The introduction and successful implementation of National Education Policy (NEP) 2020 with the aim of turning India into a dynamic and energetic knowledge society and global knowledge power tower by improving school and higher education have given the Youth a chance to face the global issues by involving in sustainable practices, holistic thinking, humanitarian action, shaping community, and paying attention to global responsibilities. To empower youth leadership for the benefit of global progress, it is necessary to pay attention to the ideas of young people. Different types of skills like communication, confidence building, project management and critical thinking of young people must be developed. They must address local issues, advocate for well-being and rights, and solve social problem. For innovation and global responsibility, empowerment of youth leadership is very necessary on account of youth’s fresh energy, digital fluency, adaptable perspectives, providing sustainable development, driving economic growth, and solving complex challenges. Young people can enjoy the chance of training themselves to access courses from organizations, participate in SDG based local and global youth networks, improve innovative problem solutions for sustainable development, and champion the Goals by using digital platforms and their voice. The empowerment of youth plays a very significant part for the benefit of creativity and innovation. Young people empowered with quality education, entrepreneurial opportunities, and vocational training can enrich sustainability and economic growth by becoming active contributors to the economy for making a more progressive society. The need for youth empowerment lies in its capacity to develop self-assured, skilful, and self-dependent individuals who have the power of offering appropriate contribution to society.

Keywords: Importance, Youth, Leadership, Innovation, Global Responsibility.

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The Effects of Population Growth on Agricultural Output in Dawakin Tofa Local Government Kano, Nigeria

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Abstract

Population growth in Dawakin Tofa Local Government Area (Kano State, Nigeria) has important implications for agricultural production, food security, and rural livelihoods. This study evaluates the effects of population growth on agricultural output in Dawakin Tofa by combining household surveys, focus-group interviews, and secondary data on demographics, land use, and crop yields between 2000 and 2023. Descriptive statistics and regression analysis were used to examine relationships between population indicators (growth rate, household size, labour availability) and agricultural outcomes (cropped area, yield per hectare, cropping intensity, and adoption of improved practices). Results show that while total cultivated area has expanded modestly through marginal land conversion, average farm size per household declined, creating pressure on land resources and reducing per-capita crop output. Labour availability increased but was offset by declining soil fertility and limited access to improved inputs and irrigation, leading to stagnating yields for staple cereals. Evidence also indicates a shift toward risk-averse cropping and off-farm employment. The study concludes that population growth in Dawakin Tofa is a double-edged force: it can supply labour and market demand but, without investments in sustainable intensification (soil management, input access, irrigation, and extension services), it undermines per-capita agricultural productivity. Policy recommendations include targeted extension, subsidized inputs, small-scale irrigation expansion, land-use planning, and youth-oriented agribusiness programs to convert demographic pressure into productive opportunity.

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The Evolution Of Online Learning: How Technology Is Reshaping Education

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Abstract

The rapid advancement of technology has fundamentally transformed the landscape of education, paving the way for online learning to emerge as a powerful alternative to traditional classroom-based instruction. This study explores the evolution of online learning and its profound impact on the educational ecosystem. Using historical and survey methods, the study examines the historical context, technological innovations, and pedagogical developments, this study also sheds light on the transformative potential of technology in reshaping educational methodologies. The study begins by delving into the historical roots of online learning, tracing its origins from early experiments in distance education to the contemporary digital era. The study also addresses the challenges and opportunities brought forth by the widespread adoption of online learning. Moreover, it explores the implications of online learning on the global education landscape. It also discusses the potential of online learning in fostering lifelong learning and continuous professional development in the age of rapid technological change. The study finally discusses the prospects of online learning and its potential to revolutionize education further. It emphasizes the need for a balanced approach that combines the benefits of technology with the value of traditional face-to-face learning experiences. It concludes by underscoring the critical role of policymakers, educators, and stakeholders in collaboratively shaping the future of education by harnessing the transformative potential of technology in online learning.

Keywords: Evolution, Online Learning, Technology, Digital era, Education.

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Public Health Implications of Mosquito Fauna in Zoological and Recreational Environments: Evidence from Nekede Zoological Garden, Nigeria

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Abstract

Mosquito-borne diseases continue to pose major global health challenges, particularly in environments where humans, animals, and wildlife converge. This study investigated the mosquito fauna of Nekede Zoological Garden, Owerri, Nigeria, between October 2024 and March 2025, to assess their potential public health implications. A total of 902 mosquitoes representing four genera and eight species were collected. The most abundant species were *Culex quinquefasciatus* (40.9%), *Aedes aegypti* (29.4%), and *Aedes albopictus* (22.4%). These species are well-documented vectors of lymphatic filariasis, dengue, chikungunya, and yellow fever. Seasonal variation indicated higher abundance during the rainy season. The detection of *Aedes africanus* in forest habitats highlights the potential risk of sylvatic yellow fever spillover. Although *Toxorhynchites bengalensis* is non-vectorial, its predatory role suggests possible biological control applications. The predominance of anthropophilic vectors in both animal cages and recreational sites underscores the zoonotic risk associated with zoological and recreational environments, where close human–animal contact occurs. Findings reinforce the importance of integrated mosquito surveillance, habitat management, and One Health–based vector control strategies to safeguard zoo visitors, staff, and animals from arbovirus and filariasis transmission.

Keywords: mosquito vectors, arboviruses, zoonosis, zoological garden, *Aedes*, *Culex*.

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Genetic Diversity with Biogeographical Classification Of India

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Abstract

Genetic diversity is the variety of genes and traits within a species or population. It is the result of genetic differences among individuals. This diversity is maintained through mechanisms like sexual reproduction, mutation and gene flow. It provides a range of genetic traits that allow susceptible individuals to die off. For humans, it is also critical for agriculture, allowing for the development of new crop and livestock varieties with traits like disease resistance and tolerance to stress. India is biogeographically classified into 10 major zones: Trans-Himalayan, Himalayan, Indian Desert, Semi-Arid, Western Ghats, Deccan Plateau, Gangetic Plain, North-East, Coastal and Islands. These zones are distinct based on their climate, terrain and unique ecosystems, flora and fauna. Biogeographical classification is necessary in India for [biodiversity conservation](#) by providing a framework to identify, protect and manage unique ecosystems and species. This classification helps in [understanding species distribution](#) and adaptation to different climates, which informs targeted conservation strategies and policies, supports sustainable [resource management](#) and facilitates scientific research. It is also crucial for [mitigating disasters](#) and understanding the impacts of climate change across the country's diverse landscapes. Considering all these facts present investigation has been done to explore the relation in between genetic diversity and biogeographical classification of India.

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Raising Youth Eco-Billionaires Through Green Entrepreneurship in Africa

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Abstract

African youth are increasingly taking the lead in promoting sustainability initiatives, demonstrating the potential for grassroots movements to drive impactful change. Through systematic literature review and participant observation, this study identifies the role of green entrepreneurship in raising eco-billionaires in Africa. The concept of raising "eco-billionaires" through green entrepreneurship in Africa focuses on developing a sustainable and prosperous future by leveraging Africa's natural resources and potential for green technologies. This involves fostering green economies, attracting green finance, and empowering African youth to lead the sustainability revolution. This study highlights that by embracing green growth strategies, Africa can address climate change, create jobs, and build resilient communities while simultaneously driving economic development. It concludes with a clarion call to multilateral organizations such as the World Bank Group to grant access to green financing and green mentorship to youth in Africa to enhance their capacity to emerge as eco-billionaires in our 21st century.

Keywords: Africa, Eco-Billionaires, Green Entrepreneurship, Sustainable Development, Youth.

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Ambedkarite Perspectives on Inclusivity in Sports: Traditional Barriers and Modern Policy

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Abstract

This paper examines the relevance of Ambedkarite thought in understanding and advancing inclusivity within contemporary Indian sports. Dr. B. R. Ambedkar’s critique of caste-based exclusion and his vision of social democracy offer a powerful framework for analysing persistent inequalities in sports participation, access, and representation. Although India has made significant progress in modern sports science and policy, traditional social structures continue to influence the distribution of opportunities, especially among marginalized communities. The paper traces historical barriers rooted in caste hierarchies, occupational segregation, and restricted access to public spaces, highlighting how these limitations shaped the sporting prospects of oppressed groups. Drawing from Ambedkar’s emphasis on equality, fraternity, and constitutional morality, the study evaluates current policies such as the Sports Authority of India (SAI) schemes, reservation in government sports institutions, and grassroots development initiatives. It argues that while modern interventions have improved visibility and participation, deeper structural reforms are still needed to ensure genuine inclusivity. Through a socio-cultural and policy-based analysis, the paper proposes an Ambedkarite model of sports inclusion that prioritizes dignity, representation, and equitable resource distribution. The study ultimately demonstrates that integrating Ambedkarite philosophy into sports science and governance can create a more just sporting ecosystem that aligns with constitutional values and promotes equal opportunities for all.

Keywords: Ambedkarite philosophy, Inclusivity in sports, Caste and sports, Social justice, Sports policy.

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Integrating Culture and Faith In Christian Counselling for Family Stability

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Abstract

In Nigeria and similar African contexts, counselling approaches grounded largely in Western assumptions often struggle to resonate with the lived realities of couples and families whose relationships are shaped by deeply embedded cultural values, traditions, and communal expectations. Christian counselling, rooted in biblical principles, seeks to promote healing, growth, and restoration by integrating psychological insight with the transforming resources of the Christian faith. However, when insufficient attention is given to clients’ cultural contexts, counselling interventions may lose relevance and effectiveness. This study, therefore, explores how culturally sensitive Christian counselling can enhance family stability by holding biblical convictions and cultural identity in constructive dialogue. Employing a descriptive survey design, the study examines the perceptions of clients and practitioners regarding the role of Christian counselling in family life, the importance of cultural sensitivity, the challenges to its integration, and practices that support effective counselling outcomes. The findings indicate that Christian counselling is most impactful when it respects cultural patterns of communication, family hierarchy, and communal participation while remaining grounded in scriptural principles of love, forgiveness, and mutual responsibility. Participants identified counsellor cultural misunderstandings, inadequate training, and reliance on Western models as key challenges, while culturally informed training, whole-family involvement, and contextually appropriate communication emerged as significant strengths. The study concludes that culturally sensitive Christian counselling is not merely a methodological option but a compassionate and faithful response to families’ lived experiences, offering a holistic pathway toward enduring family stability.

Keywords: Culture, Faith, Christian Counselling, Family Stability.

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Incentive Theory and Teacher Retention: Evidence from Private Secondary Schools in Lagelu LGA, Ibadan, Nigeria

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Abstract

The study was carried out to investigate teacher retention in a private school in Lagelu local government area Ibadan, Nigeria. The research of interest was “Application of incentive theory: A case study of teacher retention in a private secondary school in Lagelu Local Government Area, Ibadan. The study was conducted to find out retention rate of teachers and applicability of incentive theory in the school. The survey design method of data collection was used, using questionnaire to get information from respondents. The sample size was 100 teachers and descriptive statistical tool was used.

The findings reveals that teachers were not motivated to be retained though there were motivational policies in school but not often implemented.

The study concluded that application of incentive theory to the school system will reduce teacher turnover and bring positive impact in the school.

The following recommendations were made:

Teachers’ welfare should be given priority by schools to encourage teachers stay in the job. Prompt salary payment of teachers should be given attention.

Keywords: Teacher, Retention, Attrition, Turnover.

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The Future of French Language Education in Nigeria: Technological Innovations and Emerging Trends for Sustainable Educational Development

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Abstract

The increasing relevance of French as a foreign language in Nigeria, particularly in light of the country’s geopolitical position among Francophone nations, has intensified the need for innovative and sustainable approaches to French language education. This article examines emerging trends and technological innovations shaping the teaching and learning of French within the Nigerian educational context. Drawing on contemporary scholarship and policy frameworks, the study explores the use of digital technologies such as mobile-assisted language learning, virtual classrooms, online collaboration tools, and artificial intelligence-supported instructional platforms in Nigerian French language classrooms. The article analyses how these technologies enhance learner engagement, communicative competence, and access to quality language education, while also addressing issues of inclusivity and sustainability. Furthermore, the study discusses pedagogical shifts towards learner-centred, competency-based, and blended learning models that align with Nigeria’s educational reforms and sustainable development goals. Critical attention is given to contextual challenges, including inadequate infrastructure, limited teacher training in educational technology, inconsistent policy implementation, and the persistent digital divide between urban and rural schools. By situating French language education within Nigeria’s broader developmental agenda, the article highlights the potential of technology-enhanced instruction to strengthen multilingual competence, regional integration, and global competitiveness. The study concludes with strategic recommendations for educators, policymakers, and stakeholders on leveraging technological innovations to promote sustainable and effective French language education in Nigeria.

Keywords: French language education in Nigeria; educational technology; digital language pedagogy; sustainable educational development; multilingual education; language teaching innovation.

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Perceived Family Environment: A Study in Relation to Socio-Economic Status of Family of Learners with Learning Disabilities

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Abstract

Socio-economic has been a major factor in sustainability of human life which cannot be disregarded. Economic level of the family significantly impacts psychological well-being of an individual, social behaviour and all round development. Learners with learning disabilities faced series of challenges such as poor parenting, negative peer influence, and socio-economic factor and so on. Therefore, the study focused on the socio-economic status of family of learners with learning disabilities. This study used descriptive survey research design. Stratified random sampling technique was used to select one hundred and fifty (150) learners with learning disabilities belonging to different socio-economic factors drawn from three (3) secondary schools. T-test was used to analyze the data collected from the respondents. From the analysis, the results shows that economic level of the family was an important factor, families having low income were found to be less cohesive, allowed less expression of feeling, were less organized and exercised more control in comparison to the families having average and high income. Based on the results of this study, recommendations were made that parent should double their efforts in raising their income to meet up with the standard of living, government should create an enabling family environment for high economic level in the society.

Keywords: Environment, Family, Socio-Economic, Learners with Learning Disabilities.

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Youth Mental Health and Social Well Being

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Abstract

Youth mental health and social well-being are increasingly recognised as critical global public health concerns, particularly in societies undergoing rapid social change, digitalisation, and economic uncertainty. The age range of 15–30 years represents a pivotal developmental period marked by identity formation, expanding social roles, and heightened exposure to psychosocial stressors. This study examines the relationship between youth mental health and social well-being, with a specific focus on social connectedness, interpersonal support systems, and digital social environments. A mixed-methods research design was employed to capture both quantitative patterns and qualitative insights. Quantitative data were collected using standardised and validated instruments that assessed mental health outcomes and social well-being among youth aged 15–30 years from diverse social and cultural contexts. Qualitative data were collected through focus group discussions and semi-structured interviews, which explored participants’ perceptions of social relationships, emotional well-being, and social participation. Data analysis involved inferential statistical techniques for quantitative data and thematic analysis for qualitative data. The findings reveal a significant positive association between social well-being and mental health outcomes. Youth reporting strong social support, a sense of belonging, and meaningful engagement within family, peer, and community networks demonstrated lower levels of anxiety, depression, and psychological distress. Conversely, social isolation, stigma, interpersonal conflict, and negative digital interactions were associated with poorer mental health outcomes. The study highlights the dual role of digital platforms as both facilitators of social connection and sources of psychosocial risk. The study concludes that youth mental health is deeply embedded within social environments. Effective mental health promotion requires integrated interventions that strengthen social support systems, foster inclusive social environments, and encourage healthy digital engagement among young people.

Keywords: Youth Mental Health; Social Well-being; Social Connectedness; Digital Media; and Psychosocial Factors.

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Ethical Labor Practices and Global Responsibility: Lessons from Bangladesh’s Garment Industry

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Abstract

Bangladesh’s Ready-Made Garments (RMG) sector is a cornerstone of the national economy, contributing over 80% of total exports and employing millions, particularly women. Despite its economic significance, the sector faces persistent human rights challenges, including unsafe working conditions, wage disparity, gender-based discrimination, and limited labor rights enforcement. These issues are amplified by the global nature of apparel supply chains, where multinational brands and international consumers share responsibility for ethical sourcing and accountability. This paper examines the intersection of human rights and global citizenship within the context of Bangladesh’s RMG industry, emphasizing the role of corporate social responsibility, international labor standards, and consumer awareness in shaping ethical practices. The study traces the historical evolution of women’s participation and leadership in the sector, evaluates key regulatory frameworks including the Bangladesh Labor Act, Accord on Fire and Building Safety, and UN Guiding Principles on Business and Human Rights, and analyzes the socio-economic impacts of compliance and non-compliance on both local workers and global markets. By integrating case studies of successful labor reforms alongside persistent challenges, the paper highlights the systemic and structural barriers that impede human rights protection while demonstrating the influence of global citizenship in promoting ethical trade practices. Furthermore, the study underscores the critical importance of empowering female workers, implementing fair wages, and fostering workplace safety, not only as legal obligations but as integral components of sustainable development and international reputation. The paper concludes with actionable recommendations for policymakers, multinational corporations, and global citizens to advance ethical practices in the RMG sector, thereby strengthening the alignment of economic growth with human rights and global responsibility.

Keywords: Human rights, global citizenship, labor standards, Bangladesh RMG, corporate social responsibility, ethical sourcing, women workforce, sustainable supply chains, international trade, worker empowerment.

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Climate Change, Eco-Consciousness, and Green Technologies: Pathways toward Sustainable Development

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Abstract

Climate change has emerged as one of the most pressing global challenges, posing serious threats to environmental stability, economic growth, and human well-being. Scientific assessments confirm that anthropogenic activities such as fossil fuel consumption, industrialization, and unsustainable resource use have accelerated global warming and climate variability (IPCC, 2023). In response, sustainable development has gained prominence as a guiding framework that seeks to balance environmental protection with social and economic progress. Within this framework, eco-consciousness and green technologies have emerged as critical drivers of climate change mitigation and adaptation.

Eco-consciousness reflects the growing awareness, values, and behavioral intentions of individuals, organizations, and societies toward environmental responsibility (Kollmuss & Agyeman, 2002). It influences consumption choices, corporate strategies, and public support for environmental policies. Simultaneously, green technologies offer practical solutions for reducing environmental impacts by enhancing energy efficiency, promoting renewable energy, minimizing waste, and lowering greenhouse gas emissions (Rennings, 2000). Together, eco-conscious behavior and technological innovation form an integrated pathway toward sustainable development.

This paper examines the interrelationship between climate change, eco-consciousness, and green technologies, emphasizing their combined role in achieving sustainable development. A comprehensive review of existing literature highlights the evolution of climate change research, the behavioral foundations of eco-consciousness, and the growing significance of green technological innovation across sectors such as energy, transportation, agriculture, and urban development. Despite extensive research in these areas, the literature reveals a lack of integrative frameworks that simultaneously address behavioral, technological, and policy dimensions of sustainability.

To address this gap, the study proposes a conceptual framework linking eco-consciousness and green technology adoption to sustainable development outcomes. The research adopts a qualitative and analytical methodology, drawing insights from secondary data sources, policy reports, and scholarly studies. The findings suggest that eco-consciousness acts as a catalyst for green technology adoption, while supportive institutional and policy environments strengthen sustainable outcomes. The study concludes that an integrated approach combining awareness, innovation, and governance is essential for long-term climate resilience and sustainable development.

Keywords: Climate Change; Eco-Consciousness; Green Technologies; Sustainable Development; Climate Policy.

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Inclusive Physical Education and Social Justice for Sustainable Development: Lived Experiences and Policy Implications In the Central Region of Ghana

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Kweku Victory

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Abstract

Ghana has made its educational policies more inclusive. However, inclusive physical education frequently lacks consistency in implementation. Nonetheless, evidence from senior high school physical education (PE) is scarce. This study examines the experiences of teachers and students regarding inclusion and exclusion in physical education, yielding social justice and policy implications for Ghana’s educational system. This hermeneutic phenomenological study was executed in five public senior high schools located in the Central Region of Ghana. Purposive sampling comprised 30 participants, consisting of 13 physical education teachers and 17 students, both with and without disabilities. Data were gathered through semi-structured interviews, classroom visits, and field observations conducted over four-week periods. Thematic analysis, based on hermeneutic interpretation, was employed to examine transcripts and field notes. Four themes emerged. Participants recounted instances of significant engagement that fostered peer relationships, drive, and a sense of efficacy. However, inclusion was not always present and often fell apart during sports and activities between schools. Most of the barriers were systemic, including facilities that weren't accessible, equipment that was not adapted, insufficient guidance on the curriculum, and teachers who were not properly trained to change tasks, rules, and tests. These circumstances worsened marginalisation and compromised the dignity, belonging, and involvement of students with disabilities. Inclusive physical education (IPE) can help make schools in Ghana more fair, but it needs clear policies and funding. To close the gaps in implementation, we suggest that the Ghana Education Service should have a clear IPE policy, improve pre-service and in-service training, make the curriculum and assessments more inclusive, upgrade basic facilities and equipment, and keep an eye on things regularly. These goals will help us move closer to SDGs 3, 4, and 10.

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Digital Literacy to Digital Leadership: Preparing Youth for Ethical Innovation In the AI Era

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Abstract

The rapid progress of digital technology, especially artificial intelligence, has fundamentally transformed the way the younger generation learns, works, and interacts. While basic digital literacy provides the foundational skills to operate these tools, it is no longer enough in a world where technology deeply impacts ethical choices and global progress.

This paper analyses the shift from simple digital proficiency to "digital leadership," highlighting the importance of training youth to innovate ethically within the AI landscape. It explores the intersections of literacy, leadership, and AI while specifically addressing the moral dilemmas created by automated systems.

Furthermore, the text outlines practical methods for equipping young people with the integrity and accountability needed to lead in the digital age. Ultimately, it argues that educational systems and global stakeholders must collaborate to develop responsible innovators who can build a fair and inclusive digital world.

Keywords: Digital Literacy, Digital Leadership, Artificial Intelligence, Ethical Innovation, Youth.

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Confidentiality and Its Ethical Implications among the Contemporary Pastors and Counselors

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Abstract

Confidentiality is stronger than confidence, because confidence is a general requirement for the establishing or continuing of any relationship between people. A confidential relationship is thus one in which one or more secrets are shared. Confidentiality is a feature of close friendship and an important ingredient in certain kinds of professional relationship especially between a doctor and a patient, a lawyer and a client, a counsellor and a counselee, a husband and wife, Its basic justification lies in the right of an individual to decide whether, and to whom, personal information is to be disclosed. The study employs a descriptive research method. It describes and interprets the conditions or relationships that exist, practices that prevail, beliefs, points of view or attitudes that are helpful; processes that are going on; effects that are being felt, and trends that are developing. With the above in view the paper will talk about the concept of confidentiality, biblical perspective on confidentiality, level of breaking confidential issues, ethical implications of confidentiality for contemporary pastors and counselors, merit derived from confidentiality and its ethical recommendations for contemporary pastors and counselors with a drawn conclusion.

Keywords: Confidentiality, Counselors, Pastors, Ethics.

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Hearing Impairment in the Context of Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility

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Abstract

Hearing impairment constitutes a major developmental and social challenge that significantly affects the cognitive, educational, and psychosocial growth of young people, particularly in low- and middle-income societies. Within the framework of *Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility*, this abstract examines hearing impairment as both a human rights issue and a developmental concern that demands coordinated, inclusive, and forward-looking interventions. Hearing loss limits access to spoken language, formal education, social participation, and future employment opportunities, thereby undermining sustainable human capital development if not adequately addressed. This paper situates hearing impairment within a multidisciplinary discourse, drawing insights from education, health sciences, technology, leadership studies, and social policy to emphasize holistic empowerment strategies. It highlights the role of early identification, inclusive educational practices, and assistive technologies in mitigating learning barriers and enhancing academic outcomes for young people with hearing impairment. Furthermore, the paper underscores leadership and governance as critical drivers for policy formulation, advocacy, and implementation of disability-inclusive frameworks that promote equity and access. Social responsibility is also emphasized as a shared obligation of families, educational institutions, communities, and governments to dismantle stigma, foster inclusion, and create enabling environments for learners with hearing impairment. By integrating innovation, ethical leadership, and community engagement, the paper argues that sustainable development cannot be achieved without deliberately empowering marginalized groups, including persons with hearing impairment. Ultimately, the study affirms that investing in inclusive systems for young people with hearing impairment contributes not only to individual well-being but also to broader societal resilience, productivity, and sustainable development.

Keywords: Hearing Impairment, Sustainable Development, Inclusive Education, Innovation, Leadership, Social Responsibility, Young Minds.

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Repositioning Nigerian Youth as Drivers of Sustainable Innovation, Leadership Transformation and Social Accountability

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Abstract

Nigeria is at a pivotal moment. Its youth population, which makes up more than half of the nation, could either become a challenge or an engine for transformative development. This paper argues that Nigerian youth must be intentionally positioned as the driving force behind sustainable innovation, leadership transformation, and social accountability. Drawing insights from development studies, leadership theory, innovation systems, and governance, it contends that youth are not just passive recipients of policies but active agents capable of reshaping the country's future. The paper examines structural, institutional, and cultural barriers that have limited youth participation while highlighting emerging opportunities in technology, social entrepreneurship, civic engagement, and advocacy. Through analysis supported by illustrative tables and conceptual frameworks, it demonstrates how youth-led initiatives can accelerate progress toward the Sustainable Development Goals (SDGs). Finally, the paper offers practical strategies for government, academia, civil society, and the private sector to meaningfully invest in youth as co-creators of a sustainable future.

Keywords: Nigerian youth, sustainable innovation, leadership, social accountability, SDGs.

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Aesthetic Dimensions of Mathematics Instruction: A Multidisciplinary Pathway for Creativity, Innovation and Technological Development

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Abstract

Empowering young minds for a sustainable future requires instructional approaches that integrate creativity, innovation, and social responsibility across disciplines. Mathematics, as the language of logic and structure, plays a critical role in technological development. However, its aesthetic and creative dimensions are often undervalued in conventional instruction. Beyond computation, Mathematics embodies intrinsic qualities of beauty, symmetry, and harmony that stimulate curiosity, imaginative thinking, and innovative capacity among learners. This paper presents a reflective pedagogical practice that integrates mathematical aesthetics with Gestalt theory and constructivist learning principles to enrich creative mathematics instruction and promote responsible technological engagement. The approach emphasizes visualization, pattern recognition, modeling, and experiential exploration, enabling learners to perceive mathematical ideas holistically and meaningfully. Instructional strategies such as inquiry-based learning, visual reasoning, and digital modeling using tools including GeoGebra, Desmos, and PhET simulations are employed to enhance engagement, confidence, and creative expression. Through project-based and technology-supported activities, abstract mathematical concepts are translated into real-world applications connecting mathematics with technology, architecture, data science, and sustainable design. These multidisciplinary learning experiences encourage learners to apply mathematical reasoning to societal and environmental challenges, fostering innovation that is both practical and socially responsive. However, rigid curricula, examination-oriented instruction, limited teacher preparation, and weak policy support continue to constrain such practices. Imbibing curriculum flexibility, sustained professional development and supportive educational policies would help its integration into creative Mathematics instruction in nurturing innovative thinkers capable of contributing meaningfully to sustainable technological development.

Keywords: Aesthetics; Mathematics Instruction; Creativity, Innovation, Technological Development.

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Empowering Young Minds for A Sustainable Future: A Multidisciplinary Exploration of Innovation, Leadership and Social Responsibility In the Twenty-First Century

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Abstract

Youth constitute the most influential demographic group in shaping the future trajectory of societies, economies, and ecological systems. In an era marked by climate uncertainty, technological acceleration, social polarization, and ethical challenges, the empowerment of young minds has emerged as a global imperative rather than a developmental option. This paper presents an extensive multidisciplinary examination of youth empowerment for sustainable development, emphasizing the interrelated roles of innovation, leadership, and social responsibility. Drawing upon insights from education, psychology, sociology, management studies, sustainability science, and public policy, the study develops an integrative conceptual framework that positions youth as proactive agents of transformation. The study develops an integrated conceptual framework positioning innovation, leadership, and social responsibility as interdependent pillars of youth empowerment. Through critical synthesis of global literature, policy documents, and theoretical perspectives, the paper highlights the limitations of fragmented approaches and argues for holistic strategies that nurture ethical leadership, creative problem-solving, and civic engagement. The study is particularly contextualized within the Indian socio-cultural framework and aligned with the philosophical vision of National Youth Day. The findings underscore that sustainable futures depend not only on technological advancement, but on value-driven, socially conscious and innovation-oriented youth leadership. The study contributes a holistic framework relevant for policymakers, educators, and institutions seeking long-term sustainability outcomes.

Keywords: Youth empowerment, Sustainable development, Innovation, Leadership education, Social responsibility, Multidisciplinary approach.

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Impact of Examination Malpractice on Education: Perspective of Biology Secondary Students in Selected South – West in Nigeria

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Abstract

Education is faced with huge problem which can affect both learners and teachers while examination malpractice is one of the factors affecting the growth of education in Nigeria which has a negative impact on the learners. The purpose of this research work is to find out the impact of examination malpractice on education: Perspective of Biology Secondary Students in Selected South – West in Nigeria. Three (3) research questions guided the study. The survey research design was done using two (2) Senior Secondary Schools each making four (4) in selected south west in Nigeria. A sample of two hundred (200) students was randomly selected. A modified structure of fifteen (15) items questionnaire was used to gather data which were analyzed using mean and standard deviation. Finding showed that examination malpractice has a negative impact on education thereby undermines the integrity of the education system in Nigeria. Recommendation were made which included the government should implement policy on penalty any students involved in examination malpractice, the school authority should create more awareness to parents and students on effects and prevention of examination malpractice, Examination supervision should be properly monitored and supervised during examination in schools this will prevent the act of examination of malpractice.

Keywords: Impact, Examination Malpractice, Education, Biology.

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Teachers’ Mentorship Roles and Civic Education Students’ Educational Aspirations in Gusau Educational Zone, Zamfara State

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Abstract

This study examined the relationship between teachers’ mentorship roles and Civic Education students’ educational aspirations in the Gusau Educational Zone of Zamfara State, Nigeria. A correlation survey research design was adopted for the study. The population comprised Civic Education teachers and senior secondary school students in the zone, from which a sample of 76 teachers and 311 students was selected using stratified random sampling techniques. Data were collected using a structured questionnaire measuring teachers’ mentorship roles and students’ educational aspirations. The instrument was validated by experts, and reliability coefficients of 0.84 and 0.88 were obtained for the mentorship and aspiration scales respectively using Cronbach’s alpha. Descriptive statistics (mean and standard deviation) were used to determine the levels of teachers’ mentorship roles and students’ educational aspirations, while Pearson’s Product Moment Correlation Coefficient was employed to test the hypothesis at the 0.05 level of significance. Findings revealed that teachers’ mentorship roles were performed at a moderate level, and students’ educational aspirations were also moderate. The results further showed a strong and significant positive relationship between teachers’ mentorship roles and students’ educational aspirations ($r = 0.62$), leading to the rejection of the null hypothesis. The study concluded that effective teacher mentorship significantly influences students’ educational aspirations. It was therefore recommended that structured mentorship programmes, teacher training, and supportive educational policies be strengthened to enhance mentorship practices and promote higher educational aspirations among Civic Education students in the Gusau Educational Zone.

Keywords: Civic Education; Educational Aspirations; Gusau Educational Zone; Mentorship; Teachers.

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Revitalizing Apprenticeship Models in TVET Education for Empowering Young minds for Employability Skills and Sustainability Future

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Abstract

The increasing global demand for skilled labor in technical and vocational fields has brought renewed attention to the role of TVET education in preparing individuals for productive employment. In many developing countries, however, the disconnect between school-based training and workplace realities has resulted in graduates who are often ill-prepared for the labor market. Apprenticeship, historically one of the most effective methods of vocational skill development, has gradually weakened due to declining industry-school partnerships, outdated workshop facilities, and an overemphasis on theoretical instruction. This position paper contends that revitalizing apprenticeship models in TVET education is essential for equipping learners with employability skills such as problem-solving, adaptability, creativity, and hands-on technical competence. Drawing insights from international best practices, particularly the dual vocational training system in countries such as Germany and Switzerland, the paper argues that structured collaboration between educational institutions and industries will bridge the existing gap between theory and practice. Furthermore, it highlights the potential benefits of apprenticeship, including enhanced employability, reduced youth unemployment, industrial growth, and national development. While critics raise concerns about its relevance in the era of rapid technological change, the paper proposes modernized apprenticeship models that integrate digital technologies, safety standards, and sustainability practices. It concludes with recommendations on policy reforms, industry incentives, and capacity building as pathways toward revitalizing apprenticeship for a more effective and future-oriented TVET education system.

Keywords: Revitalization, Apprenticeship, TVET Education & Employability Skills.

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Effective Communication and Relationship-Building with Learners

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Abstract

Effective communication and strong teacher–student relationships are widely recognized as foundational components of successful teaching and meaningful learning in contemporary educational systems. As classrooms become more diverse and technologically dynamic, the need for purposeful, empathetic, and responsive communication has become increasingly critical. This paper examines the role of effective communication and relationship-building in enhancing student engagement, motivation, academic performance, and emotional well-being. The theoretical underpinnings of the discussion are rooted in social constructivism, self-determination theory, and emotional intelligence frameworks, which collectively illustrate how relational interactions shape learning environments and student outcomes. Furthermore, the paper explores the impact of relational trust, psychological safety, cultural responsiveness, and personalized support on students’ sense of belonging and academic resilience. This study concludes that effective communication is not merely an instructional skill but a holistic professional disposition essential for fostering inclusive, supportive, and high-performing learning environments. Strengthening teacher–student relationships, therefore, remains a vital pathway for improving educational quality and promoting positive academic and socio-emotional outcomes across diverse learning contexts. By emphasizing relational pedagogy and communication literacy, educators and policymakers can better address the evolving needs of 21st-century learners and enhance the overall effectiveness of teaching and learning processes.

Keywords: Communication, instructional skills, professional disposition, academic resilience, motivation, policy makers.

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Church Music As a Tool for Youth Empowerment and Social Change in Nigeria

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Abstract

This study explores the multifaceted role of church music in fostering youth empowerment and driving social transformation within the Nigerian socio-cultural landscape. In Nigeria, the church functions as a place of worship and as an avenue for musical talent and leadership skills development. Using qualitative approach comprising of interviews and participant observation the researcher examines how participation in liturgical and contemporary gospel music equips young people with marketable technical skills, emotional intelligence, and social intellect.

The findings suggest that church music programs serve as a "non-formal" educational system, providing training in instrumentation, vocal performance, and sound engineering, which many youths pivot into professional careers in the global musical world. Furthermore, the study analyzes how gospel lyrics have evolved to address pressing social issues such as corruption, insecurity, and mental health, thereby positioning the youth as agents of social change. The research concludes that by leveraging the institutional influence of the church, stakeholders can better harness music as a strategic tool for poverty alleviation and civic engagement among Nigeria's burgeoning youth population.

Keywords: Church Music, Youth Empowerment, Tool, Social Change.

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Empowering Nigerian Youths through Mentorship: Unlocking Innovation and Leadership Potentials for sustainable development in education

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Abstract

Though Nigeria's youth are positioned to drive sustainable development in education, there is a need for guidance to unlock their potentials. This paper explores the impact of mentorship programs on empowering Nigerian youths for innovation and leadership. A multidisciplinary approach, pairing youths with industry experts, and providing skills training, project guidance, and networking opportunities is proposed. It is recommended that investing in mentorship, among others, can equip Nigerian youths to drive positive change and shape the country's educational future positively.

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Mapping the Social Foundations of Development: Community Support Networks, Networked Capital, and Youth Participation in Modern Cambodia

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Abstract

This study examines the role of social capital and community support networks as catalysts of Cambodia’s development progress. Drawing on theoretical contributions from Coleman, Putnam, Bourdieu, Fukuyama, Woolcock, and Dasgupta, the paper analyses how bonding, bridging, and linking social capital contribute to cooperation, resilience, and inclusive development. Cambodia provides a compelling context, characterized by strong cultural traditions of solidarity, Buddhist moral values, and vibrant community-based organizations. The study applies a conceptual framework that links social capital to community support networks, cross-organizational collective action, and development outcomes and illustrates the impact of community savings groups, agricultural cooperatives, rural development committees, and youth and women’s associations on enhanced livelihoods, governance, and resource management. Findings indicate that social capital is an important constituent element of the enabling environment for economic empowerment, social protection, active citizenship, and community resilience. The paper asserts that deepening community networks can advance Cambodia’s sustainable and inclusive development while strengthening the country’s cultural assets of trust, cooperation, and a sense of collective identity.

Keywords: Cambodia; Social capital; community support networks; youth leadership; collective action; governance; resilience.

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The Binary Impact of Artificial Intelligence on Modern Era in between Innovation and Disruption: A Critical Evaluation

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Abstract

Artificial Intelligence (AI) has emerged as one of the most transformative invention of the modern era, significantly remodelling industrial processes, economic structures, and social systems. Due to rapid advancements in data analytics, machine learning and computational power, AI has transitioned from a supportive technological tool to an autonomous and decision-oriented system. AI act as catalyst to accelerate the operational efficiency, accuracy, and scalability across multiple sectors, including education, healthcare, manufacturing, finance, and environmental management. Applications such as predictive diagnostics, personalized learning platforms, smart industrial automation, and climate modelling highlight AI’s potential to contribute to sustainable development and long-term societal progress.

Despite these benefits, AI also presents serious challenges that position it as a disruptive force. The increasing automation of tasks has intensified concerns regarding workforce displacement and economic inequality. Ethical issues such as algorithmic bias, lack of transparency, and accountability in AI-driven decision-making systems further complicate its adoption. Moreover, the extensive use of data-driven technologies raises significant concerns related to privacy infringement, mass surveillance, cyber security threats, and the misuse of AI in autonomous and weaponized systems. These challenges underscore the growing tension between technological advancement and human control.

This exploratory review evaluates the binary impact of Artificial Intelligence, examining its dual role as both a creator of future opportunities and a source of potential disruption. The study emphasizes the necessity of integrating robust ethical frameworks, effective governance structures, and human-centric design principles into AI development and deployment. It argues that the future trajectory of AI will depend not only on technological innovation but also on responsible regulation, interdisciplinary collaboration, and societal readiness. By adopting a balanced and ethical approach, AI can be harnessed to promote inclusive growth, minimize risks, and ensure sustainable development in the modern era.

Keywords: Artificial Intelligence, Ethical AI, AI regulation, Technological Risk, Emerging Technology.

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Development and Evaluation of Value-Added Snack Bars Using Orange Peel and Pomace Powder for Sustainable Nutrition

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Abstract

Substantial amounts of by-products are generated during citrus processing, especially in the form of orange peels and pomace, which are most commonly considered as waste materials. However, orange peel and pomace are rich sources of dietary fibre, minerals, and bioactive compounds, suggesting a wide range of possibilities for their use in the development of value-added products. The present study was undertaken with an interest to explore the nutritional and functional applicability of orange peel and pomace powder in the preparation of an acceptable and nutrient-enriched snack product.

Orange peel and pomace were dried under controlled conditions using a hot air oven and subsequently ground into fine powder. To assess their application in food product formulation, snack bars were developed by partially replacing rice flakes flour with a 1:1 mixture of orange peel and pomace powder at substitution levels of 5, 10, 15, and 20%, along with a control sample without substitution. Sensory evaluation of the developed snack bars was carried out using a nine-point hedonic scale to assess taste, appearance, aroma, colour, texture, and overall acceptability. Based on the sensory evaluation results, the most preferred formulation was selected and subjected to biochemical analysis, and its proximate composition and mineral content were evaluated in comparison with the control sample using standard analytical methods.

The sensory analysis revealed that the addition of orange peel and pomace powder at different levels of substitution was not detrimental to the acceptability of the product. Among the different formulations, the snack bars with 20% flour substitution achieved the highest overall acceptability score. Biochemical analysis of the most preferred snack bar formulation, when compared with the control sample, indicated a significant improvement in the nutritional quality of the value-added snack bar with respect to crude fibre, total dietary fibre, calcium, and potassium. In addition, the developed snack bar exhibited decreased values of fat and moisture content, indicating an improved nutritional profile and better stability.

The study indicated that orange by-products can be effectively added to the formulation of value-added products to improve their nutritional value without compromising sensory attributes. These findings suggest that citrus by-products can be effectively used as functional ingredients, contributing to sustainable food production, food waste valorisation, and improved public health nutrition.

Keywords: Orange peel, Orange pomace, Value-added products, Functional ingredient, Food waste valorisation.

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Color Strength Variations in Cotton/Jute Blends: Influence of Fiber Composition

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Abstract

This study examines the effect of fiber composition on the color strength of cotton–jute blended textiles. Cotton and jute, both natural fibers with distinct chemical and structural characteristics, were blended in different proportions to evaluate their influence on dye uptake and color strength. The blended fabrics were dyed using reactive dyes through a direct dyeing process, and color strength (K/S values) was assessed using spectrophotometric analysis. The findings demonstrated noticeable variations in color strength among the different blend ratios, indicating that fiber composition significantly affects dye absorption behavior. Blends containing higher proportions of jute exhibited increased color strength, attributed to jute’s higher moisture regain and superior water absorbency compared to cotton. The results offer valuable insights for optimizing cotton–jute blends to achieve improved color performance, with practical relevance for textile manufacturers aiming to develop sustainable and high-performance fabrics.

Keywords: Fiber composition; Color strength; Reactive dyeing; Dye uptake; Moisture regain; Sustainable textiles.

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Legal Regime Regarding Indian Diaspora Youth with Special Reference to the State of Punjab

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Abstract

Recognition of the contributions made by Indian especially Punjabi diaspora youth towards their home country by way of remittances, investments and networks has facilitated a transformation in the attitude and philosophy regarding migration from brain drain to brain gain. The present work depends heavily upon various provisions given in a number of relevant statutory enactments at the National and State level providing favourable laws for the benefits of Punjabi diaspora youth along with the significant works of a number of jurists contributing towards this direction. This paper aims at examining the various impediments involved for the meagre investments made by Overseas Punjabi Youth into the State of Punjab. This study has also the objective to divulge that State of Punjab has been taking effective steps through the enactment of various laws providing them some benefits regarding property and certain tax benefits through exemptions; deciding to organize disputes redressal meets and to supply security from PESCO (Punjab Government undertaking) to non-resident Indian (NRIs) especially Punjabi Youth during their visit in Punjab; the setting up of NRI specific Police Stations; the issuance of NRP Privilege cards and many more in the form of now thinking of honoring Punjabi Diaspora's political aspirations of entering the legislatures also through the nomination of some of their member(s) to Parliament and State Legislative Agencies along with granting the voting rights to them. However, even though the various initiatives have been taken and various have been proposed to be taken by the Government of Punjab to bond their (Punjabi diaspora youth) brethren with their homeland, yet greater propel in the form of implementation is required particularly at the State level to facilitate Punjab and its diaspora youth to enrich each other in a spirit of mutual interest.

Keywords: Brain drain, Brain gain, Diaspora Youth, Overseas, Privilege cards, Redressal meets.

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A Multidisciplinary Framework Using PBIB Design for Innovation and Social Impact

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Abstract

In the modern world, empowering youth is crucial to accomplishing sustainable development objectives. Multidisciplinary approaches that incorporate creativity, leadership, and social responsibility are becoming more and more common in educational institutions. However, due to numerous interrelated aspects and a lack of experimental resources, empirical evaluation of such complex educational interventions continues to be a methodological problem. In order to methodically evaluate interdisciplinary teaching approaches targeted at sustainability education, this research suggests a Partially Balanced Incomplete Block (PBIB) design-based framework. PBIB design offers an effective and statistically sound method for assessing the efficacy of education by modeling learners, pedagogical techniques, disciplinary inputs, and outcome measures as treatments and blocks. The suggested framework emphasizes how experimental design theory can support youth learning that is socially conscious, leadership development, and evidence-based educational innovation.

Keywords: PBIB Design, Sustainable Education, Multidisciplinary Learning, Innovation, Leadership, Social Responsibility, Experimental Design.

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Empowering Young Minds for a Sustainable Future: Multidisciplinary Approaches to Innovation, Leadership, and Social Responsibility

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Abstract

Empowering young minds is critical to achieving a sustainable future in an increasingly complex and interconnected world. This paper explores multidisciplinary approaches that integrate innovation, leadership development, and social responsibility to equip youth with the skills, values, and competencies necessary to address global sustainability challenges. Drawing on insights from education, technology, social sciences, and environmental studies, the study examines how experiential learning, collaborative problem-solving, and ethical frameworks can foster creativity, critical thinking, and responsible decision-making among young learners. Emphasis is placed on the role of inclusive leadership and innovation ecosystems in nurturing socially conscious change makers capable of translating ideas into impactful solutions. The paper further highlights the importance of aligning educational practices with the United Nations Sustainable Development Goals to promote civic engagement, environmental stewardship, and social equity. By adopting a holistic, multidisciplinary model, this research underscores the potential of youth-driven innovation and leadership as a transformative force for sustainable development and long-term societal resilience.

Keywords: Youth empowerment, Leadership development, Social responsibility, Experiential learning, Sustainable Development Goals.

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Evolving Landscape of FinTech in India: Expansion, Obstacles, and Future Prospects

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Abstract

India, rapidly evolving into a global consumer powerhouse, undoubtedly offers a substantial growth platform for this sector, a trend observed over the last few decades, particularly in the aftermath of the pandemic. Currently, various industries and business sectors are facing new challenges arising from digital transformation and major technological innovations. This has sparked the rise of Financial Technology (FinTech), which signifies a significant change in the areas of finance and technology. Fintech has transformed the financial industry by improving financial operations and fostering innovation. Acknowledgments to the rise of FinTech is giving rise to new business opportunities and services, while simultaneously posing a threat to traditional business practices and their providers. The realm of finance is vast and is undoubtedly crucial to people’s daily lives worldwide. The recent surge in advanced financial services has attracted many customers and investors in recent years, yet it remains a subject of discussion as this area has not been thoroughly examined. This paper aims to explore the opportunities and challenges that this growing industry encounters concerning its ability to reach and adapt to a wider audience. It emphasizes different regulatory obligations aimed at reducing the risks linked to Fintech firms and their performance challenges. The document also seeks to analyze Fintech adoption, the increasing dependence of financial services users, the industry's potential, and the key trends that have been crucial for the sector's development.

Keywords: FinTech, Artificial Intelligence, Machine Learning, Finance, Digital Technology.

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Empowering Youth for a Sustainable Future: A Success Story in Water Conservation through Innovation

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Abstract

Water treatment forms a significant challenge in the global south. This obstacle can be mitigated by integrating environmental engineering within the domain of the education system. By designing practical teaching tools within the college campus, students can receive hands-on training on sustainable development. Students can undertake projects on water treatment, water resource management, energy efficiency, lowering carbon footprint, waste reduction, public awareness campaigns to name a few.

In this paper, we discuss the RO plant as a living laboratory, which has been used to educate the college students in a sustainable method of treatment of ground water.

Keywords: Youth empowerment, sustainability, innovation, water treatment, green technology, RO plant.

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Evaluating the Effectiveness of the Blended Learning Approach for Enriching Critical and Problem Solving in Undergraduate students

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Abstract

The Blended Learning is a progressive and innovative approach that transform the teaching learning interaction through technology and create a more constructive and collaborative environment. This study examines the effectiveness of the Blended Learning approach in teaching education to undergraduate students and conduct a comparative study between traditional teaching approach and Blended Learning approach. The purpose of this study is to provide a clear view of the transformative potential of this new approach in the context of the challenges faced in the higher education. A quasi-experimental design was used with 120 students divided into experimental group and control group. In this study, control group students received traditional instructions, while the experimental groups were taught with the help of Blended Learning approach. Pre-test and Post-test scores were analyzed. Statical technique used when the Pre-test and Post-test data were analyzed. Results showed a progressive change in the academic performance of students taught using Blended Learning approach, with higher Post-test scores compared to the control group. The findings focus on the effectiveness of the Blended Learning approaches in enriching student’s critical thinking and solve their problem. The study recommends inclusion of Blended Learning approach into education subject and provide various faculty development program for its implementation.

Keywords: Blended Learning, Critical Thinking Development, Problem Solving, Educational Innovation, Academic Achievement, Traditional Teaching Method, Control group, Experimental group.

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In Silico Molecular Docking Analysis Of Laccase-Mediated Bioremediation Of Plastic and Crude-Derived Compounds from Sewage Wastewater

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Abstract

Sewage is a type of wastewater containing human waste, while wastewater is a broader term for any water polluted by human activity, including industrial, agricultural, and stormwater runoff, containing various contaminants like pathogens, chemicals, nutrients, and solids etc. Laccase is an enzyme rich in copper and abundantly found in white rot fungus *Trametes versicolor*, which can degrade a wide range of Plastic and crude derived compounds from sewage wastewater which conventional treatment methods cannot fully remove. In this study, we performed molecular docking studies on laccase (Pdb id: 1GYC) with 10 selected Plastics and Crude derived compounds (Anthracene, Benzoic acid, Catechol, Dibutyl phthalate, Hydroquinone, Phenol, Pyrene, Styrene, Syringic acid and Terephthalic acid) which are commonly present has to be done in sewage wastewater. The study aims to understand the binding interaction and stability of enzyme-substrate complex to mediate the bioremediation of these sewage pollutants from wastewater. The result revealed a significant binding affinity of laccase with plastic and crude derived pollutants ranging from -4 to -7Kcal mol^{-1} . Further, the 2-D analysis of ligands and polar amino acid residues unravels the involvement of hydrophobic interactions and stability of enzyme-substrate complexes. In future it can be consider as a effective Bioremediation. Further research is required to evaluate the long-term performance of laccase-mediated bioremediation in large-scale sewage treatment systems, including enzyme immobilization, reuse potential, and cost-effectiveness under varying environmental conditions

Keywords: Laccase; Bioremediation; *Trametes versicolor*; Molecular docking.

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Transforming Classroom Learning: The Synectic Model of Teaching influence on Higher Order Thinking Skills among Elementary students

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Abstract

Synectic is an educational model of learning which helps to develop high order thinking skills among students. In the 1960s, William J.J. Gordon developed the Synectics Model of Teaching as a creative approach to teach students. It enhances learner’s capacity to think more creatively and better at solving problems by getting them to connect ideas that don't seem to be related. It helps students to think in a new ways, come up with creative solutions to problems, and improve their higher-order thinking skills by looking at analogies, metaphors, and new ideas. The development of higher-order thinking skills (HOTS) in elementary students is important for fostering problem-solving, creativity, and analytical abilities. The conventional teaching approaches emphasis on memorization, which hinders learners' ability to think critically and develop cognitively. However, this approach helps in teaching method to improve HOTS since it encourages imaginative thinking, metaphor, and creative problem-solving. The main objective of the study is to investigate how the Synectics model affects the development of higher order thinking abilities among elementary students. The study is thematic in nature. The data was collected from secondary sources like dissertations, theses, research papers, Google Scholar, Shodhganga, ERIC, etc. To do the analysis, a deep analysis of previous studies was done. It is found that some teachers face challenges in developing higher order thinking skills among students due to their lesser knowledge. The findings also reveal a considerable improvement in students' higher-order thinking skills when exposed to the synectics approach, implying that creative, analogical, and student-centred teaching methods that can help to transform classroom learning effectively. This method broadens students' perspectives and promotes lifelong learning. Last but not the least, educators can take advantages by integrating synectics-based strategies to engage students actively.

Keywords: Synectics, higher-order thinking skills, elementary education, creative learning, problem-solving.

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Youth-Led Climate Action and Environmental Stewardship: Empowering Young Leaders for a Greener Future

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Abstract

Youth-led climate action and environmental stewardship have emerged as powerful drivers of sustainable development and global environmental governance. As climate change, biodiversity loss, and environmental degradation intensify, young people are increasingly at the forefront of advocacy, innovation, and community-based action aimed at securing a greener future. This abstract examines the significance of empowering young leaders to actively participate in climate action and environmental decision-making processes. Youth bring fresh perspectives, moral urgency, and technological adaptability, enabling them to mobilize communities, influence policy agendas, and promote sustainable lifestyles. Through climate movements, green entrepreneurship, local conservation initiatives, and digital advocacy, young leaders are reshaping environmental stewardship at local, national, and global levels.

Despite their growing engagement, youth often encounter barriers such as limited access to resources, inadequate representation in environmental governance, and insufficient institutional support. The abstract highlights the role of education, capacity building, mentorship, and inclusive policy frameworks in overcoming these challenges and strengthening youth-led climate initiatives. Integrating climate education into curricula, supporting youth networks, and enabling meaningful participation in international forums can significantly enhance the effectiveness of youth-driven environmental action.

Furthermore, youth-led climate action contributes to long-term resilience by fostering environmental awareness, intergenerational equity, and sustainable behavioral change. Empowering young leaders not only accelerates climate mitigation and adaptation efforts but also nurtures responsible global citizenship and democratic environmental governance. Recognizing youth as key stakeholders and partners in environmental stewardship is essential for achieving climate justice and ensuring a sustainable and equitable future for present and future generations.

Keywords: Youth-led climate action, Environmental stewardship, Climate change, Youth empowerment, Sustainable development, Green leadership.

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Reimagining Heritage Tourism through Sustainability: Balancing Conservation and Visitor Experience

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Abstract

Heritage tourism represents a critical intersection of history, culture, and economic development, offering opportunities for preserving historical monuments, cultural landscapes, and living traditions while promoting tourism-driven growth. However, increasing tourist inflows, commercialization, environmental degradation, and inadequate management practices have posed significant challenges to the long-term conservation of heritage sites. In this context, sustainability has emerged as an essential framework for reimagining heritage tourism in ways that balance conservation imperatives with meaningful and enriching visitor experiences. This paper examines how sustainable tourism principles can be strategically integrated into heritage tourism planning and management to ensure the protection of heritage resources without compromising visitor engagement.

Drawing upon interdisciplinary perspectives from heritage studies, tourism management, environmental science, and cultural history, the study conceptualizes heritage sites as dynamic spaces shaped by historical narratives, ecological contexts, and community practices. Rather than viewing conservation and tourism as competing objectives, the paper argues that sustainability provides a unifying approach capable of harmonizing these goals. Key dimensions explored include responsible visitor management, eco-sensitive infrastructure development, interpretive planning, community participation, and assessment of environmental and cultural carrying capacity.

The paper highlights the role of visitor experience design in advancing sustainable heritage tourism. Educational interpretation, experiential learning, and culturally authentic engagement enhance visitor satisfaction while fostering awareness and respect for heritage values. Strategies such as controlled access, guided circulation routes, digital interpretation tools, and participatory cultural activities are discussed as mechanisms to reduce physical stress on heritage assets and improve experiential quality. Furthermore, community involvement is identified as a cornerstone of sustainable heritage tourism, as local populations act as custodians of heritage knowledge and contribute to the authenticity and continuity of cultural practices.

Despite its potential, the paper identifies several challenges to implementing sustainable heritage tourism, including policy fragmentation, limited financial and technical resources, and tensions between conservation priorities and tourism-driven economic objectives. Addressing these challenges requires integrated governance frameworks, interdisciplinary collaboration, and alignment with global sustainability and cultural conservation agendas.

The paper concludes that reimagining heritage tourism through sustainability offers a viable and forward-looking pathway for balancing heritage conservation with visitor experience. By adopting holistic, conservation-led, and experience-oriented strategies, heritage tourism can contribute to cultural preservation, environmental responsibility, and sustainable development in an increasingly globalized tourism landscape.

Keywords: Heritage tourism; Sustainable tourism; Cultural conservation; Visitor experience; Heritage management; Responsible tourism; Community participation.

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The Empire Within: Postcolonial Perspectives on Domestic Ideology in Louis May Alcott’s Little Women

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Abstract

Postcolonial theory has traditionally focused on texts emerging directly from colonized regions. However, contemporary critics increasingly acknowledge that imperial ideology also operates within metropolitan and post-independence cultures, shaping social structures and cultural consciousness. Although the United States achieved political independence in 1776, scholars argue that colonial power structures continued to shape its cultural, economic and ideological development, particularly through inherited value systems, literary forms and moral discourses. This critical insight allows postcolonial analysis to extend beyond formerly colonized territories to include nations such as the United States, whose cultural identity evolved in constant negotiation with imperial histories. Louisa May Alcott’s *Little Women* is widely celebrated as a domestic and feminist novel which offers a valuable insight for examining these lingering imperial ideologies within nineteenth-century American culture. Set in post-independence America, the novel demonstrates how colonial ideologies persist not through political domination but through cultural values embedded in everyday practices, moral instruction, and domestic routines. From a postcolonial perspective, *Little Women* reveals how imperial power operates within domestic spaces. By shaping subjects who internalize discipline, hierarchy and moral authority as natural and universal thereby transforming private life into an ideological training ground. The current paper discusses how *Little Women* subtly reinforces cultural imperialism and American idol exceptionalism through its representation of domestic labour, moral discipline, class aspiration, and gendered responsibility. Drawing upon post-colonial theorists such as Edward Said, Homi K. Bhabha, Gayatri Chakravorty Spivak, Frantz Fanon and Ania Loomba, the study demonstrates how the novel’s domestic sphere functions as a site of ideological governance rather than a neutral or purely sentimental space. While appearing to promote moral individualism and familial harmony, the text simultaneously naturalizes hierarchical values inherited from colonial discourse thereby legitimizing authority through ethical norms. While this novel functions as a tool for ideological governance, this paper highlights the moments of hybridity and resistance that threaten to destabilize its colonial logic. By identifying these internal contradictions, the paper argues that the domestic sphere is not a monolith of imperial authority but a site of constant negotiation. The study also offers a more nuanced understanding of how domesticity simultaneously serves and complicates the reach of cultural imperialism.

Keywords: Post-colonialism, domestic ideology, American nationalism, cultural imperialism, gendered morality, hybridity.



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