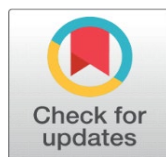
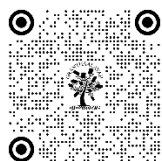


A DEEPER STUDY OF INNOVATIONS IN SUSTAINABLE TOURISM PRACTICES: LESSONS FOR EDUCATIONAL INSTITUTIONS

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ABSTRACT

The Sustainable Development Goals (SDGs) are a set of 17 interconnected global objectives approved by the United Nations General Assembly in 2015. They work to address global social, economic, and environmental issues, with the objective of introducing sustainability in the world by 2030. SDG objective 4 - Quality Education highlights the importance of a comprehensive approach to education, with the curriculum created in such a way that the SDGs can be met in one way or another. Starting with elementary school and progressing to higher education, the system should be sustainable. The educational institute should focus on infrastructure that promotes sustainability. The concentration of these concepts is on educational institutes that provide skills-based learning.

The primary objective of these concepts is on educational establishments offering skill-based knowledge and hands-on experience in all tourism-related courses. All the prior cases have included related studies and a literature review, and further information can be suggested. This paper will focus on the past literature review and its objective will be to study the innovations implemented in hospitality focused educational institutions related to the sustainable tourism practices.

Keywords: Sustainability, Sustainable Tourism, Tourism Related Courses, Tourism Related Curriculum, Innovative Sustainable Practices

1. INTRODUCTION

1.1. BACKGROUND

As all the countries are trying to approach the Agenda 2030 programme, visionaries are continuously relying on innovative solutions to help us achieve the Sustainable Development Goals (SDGs). As the SDGs are dependent and universal, any innovations intended for accomplishing targets must meet a multitude of regulations. Schot and Steinmueller (2018) indicate the extensive scope of the SDGs demands revolutionary approaches that require innovation; thereby, requiring implementation of amalgam of Science, Technology, and Innovation (STI). Innovations may exert an immense effect on the costs of creating progress, considering opportunities to develop new ideas, thoughts, and environmental actions that will contribute to sustainable development (Marini Govigli et al., 2022). The initial line of research focused on multiple aspects of environmental sustainability. In the opinion of (Sheraz, 2021), green innovative solutions moderate the relationship between the financial health of a business and advancement towards social and environmental SDG. Meanwhile, (Sheraz, 2021) stress the need of government assistance for businesses of all sizes in

implementing green innovation. Wei et al. (2023) and Zhou et al. (2020) tried to initiate the green innovation in supply chains which are sustainable, while Wang et al. (2022) highlight the critical role of green initiative awareness for organisations. Green innovation is an important concept for environmental performance. A properly developed environmental strategy allows organisations to embed numerous environmental challenges into operational activities and helps encourage the sustainable growth of green products, processes, and green management. Obtaining a clear directive or a corporate-level commitment in writing before to commencing any sustainability activities is perhaps the most significant way to overcome these obstacles. Sustainability is becoming increasingly crucial in the hospitality management course sector. Professionals in hotel and tourism management are aware of tourism's environmental impact and the need for sustainable development. The hospitality industry significantly contribute to the global economy, and the hotel industry is an important player in the tourism industry. As a result, sustainability practices have risen to the top of the agenda for Hospitality Management students and hotel managers. Sustainability strategies are critical to ensuring a brighter future for both the environment and the hotel industry. Hotel management has a broad scope that includes a variety of aspects, including sustainable practices. Sustainability strategies in the hospitality management course business include lowering the environmental impact of hotel operations and supporting sustainable tourism. This includes decreasing energy use, minimising waste, and saving water. The Best Hospitality Management Courses emphasise developing sustainable practices in hotels, resorts, and other tourism enterprises in order to encourage sustainability in the hospitality industry. The hospitality industry is increasingly valuing sustainable measures. Professionals in the hotel industry understand the environmental impact of tourism and the importance of sustainable development. Implementing sustainability principles in the hospitality business necessitates a collaborative effort from all stakeholders, including Hospitality Management Course, hotel management experts, employees, and visitors. The best hospitality management courses should equip students with the information and abilities to adopt sustainable practices in hotels, resorts, and other tourism organisations. Hotels that adopt sustainable methods can not only minimise their environmental effect but also save money. Hotels that embrace sustainable practices can lessen their environmental effect while simultaneously saving money. Thus teaching the students of hotel management institutes all these sustainable practices will help us achieve the goals of SDGs by 2030

1.2. RESEARCH OBJECTIVE

The research objective for this topic is

- 1) To find out the different sustainability practices which are followed in various hotels around the world.
- 2) To find out the different sustainability approaches which are suitable for hotel management institutes.

1.3. RESEARCH METHODOLOGY

The research methodology which is followed in this paper is the study of previous literature of past 7 years. The research was completely exploratory in nature. The study has been done taking research papers and articles from reputed journals like Scopus, Science Direct, journal of facilities management, journal of health sciences, Global business and finance review etc. The literature review is an amalgamation of various past research paper, case studies and book chapters presenting research on different sustainability practices followed in various tourism domains.

2. LITERATURE REVIEW

In one of the study it was found that Learning by doing may lead to successful outcomes in real life. Students in hospitality management took on the role of farm owners who used organic agriculture to generate food and beverages. The students collaborated to bring these agricultural items from farm to table, cook them, and serve them to consumers in a natural dining setting. Concept of Eco-innovation can serve as a long-term marketing strategy for boosting the local community economy and can be put into practice. Future studies could compare the elements influencing educational implementation .In many research papers , the study identified significant themes and concepts related to guest satisfaction (with nine Norwegian green hotels in one and many global hotels in others) and their attributed features which made us to understand the guest's perspective in practising sustainability.

The Literature review also gave us many new terms like Green hotels, Responsible Tourism. Responsible tourism can be an effective technique for sustainable tourist development. In other study conducted shows that the Interns can be engaged in sustainable practices during hotel internships. HEIs (Many Asian and European Universities) contribute to sustainability through the SDGs and goal setting. Collaboration may increase the effect of sustainability programs and encourage information sharing across borders. Research also gave results on influencing behavioural change in pupils through scientific writing. Sustainable education entails generating long-term behavioural changes in students. Many research paper also shows that Sustainable practices have a substantial impact on the tourism industry's financial performance. Large hotels are more likely to adopt sustainable practices than independents. Independent hotels lag in adopting environmentally friendly business practices

The study taken by

S. NO	TITLE	AUTHOR/PUBLISHER/JOURNAL/YEAR (APA STYLE)	PURPOSE	VARIABLES OF STUDY/KEYWORDS	RESEARCH DESIGN	FINDINGS/RESULTS	RESEARCH GAP	FUTURISTIC APPROACH
1	Reflective and Cooperative Learning for Understanding Sustainability through an Eco-Innovation Strategy in Rural Travel and Hospitality: A STEAM Case Study	(Chin-LienHung, and Cooperative Learning for Understanding Sustainability through an Eco-InnovationStrategy in RuralTravel and Hospitality: ASTEAM CaseStudy, 2023)	This study took a reflective and cooperative learning approach to science, technology, engineering, arts, and mathematics (STEAM) education. Students in hospitality management took on the role of farm owners who used organic agriculture to generate food and beverages. The students collaborated to bring these agricultural items from farm to table, cook them, and serve them to consumers in a natural dining setting. Tourism, sports and leisure management, and food	Keywords: sustainable development education; environment protection; environmental psychology; reflexive process; responsible behavior; rural community; rural tourism; sustainability learning; sustainable tourism and hospitality; travel experience	Case study, Qualitative data	The findings revealed that eco-innovation can serve as a long-term marketing strategy for boosting the local community economy and can be put into practice in STEAM. The ESD aim for 2030, social change, is to encourage students' responsible behavior and attitudes in a personally authentic manner, thereby promoting long-term learning and comprehension.	The limitation is that this is only one case from Wanlaun Township, a rural settlement. This may be a problem to various experts, as technical and vocational education teaching approaches differ from those used in general education. Societal transformation--how to apply or connect this to higher education has received less attention.	Learning by doing may lead to successful outcomes in real life. Future studies could compare the elements influencing educational implementation.

			science and nutrition students acted as visitors in a self-guided trip scenario, visiting sites to learn about heritage while noting that the properties were still in use as dwellings. This sparked a thought on the value of cultural preservation.					
2	Determinants and Impacts of Quality Attributes on Guest Perceptions in Norwegian Green Hotels	(Ali, 2023)	The study's goal is to contribute to tourist literature and the Norwegian hospitality industry by including and mapping visitors' green hotel experiences.	Keywords: green hotels; green perspectives; user-generated content; quality attributions; guest experiences	Descriptive analysis	As a result, the study identified significant themes and concepts related to guest satisfaction with nine Norwegian green hotels and their attributed features. As a result, the survey identified 10 important themes: "hotel", "room", "food", "location", "staff", "stay", "service", "recommend", "value", and "experience". To illustrate, the majority of guests were found to be satisfied	The current study was carried out in Norway, hence the findings cannot be generalized. To make finding more general, studies may involve more and diverse hotels of varying classifications (four or five stars), sizes, locations, and scales.	Future research could be undertaken in different geographic areas, such as European or Asian countries, to compare and identify changes in guest perceptions. Additional research could use qualitative methodologies to acquire a deeper understanding and deepen the findings.

						with their assigned attributes. Guests were disappointed with hotel topics such as green practices, booking, check-in, and attribution. Green hoteliers in Norway should clearly embrace green methods, as improvements and diversification techniques should be looked into and developed.		
3	Implementation of Sustainability Practices in the Hospitality Industry	Daniel E. Meeroff, 2020)	This article examines the environmental and economic performance, as well as the social behavioral implications, of sustainability measures adopted by participating hotels. The goal of this research is to determine the elements that affect or influence the performance of specific strategies for reducing waste, increasing energy efficiency, conserving	Keywords: Waste Minimization, Recycling, Water Conservation, Energy Efficiency, Indoor Air Quality, Communication, Lodging; Hospitality, Sustainable Practices	Descriptive analysis	The sustainability initiatives that will likely make the most impact for similar hotels. Installation of computerized energy management systems to track and control electricity consumption in the guest rooms, back of the house, and common areas. High efficiency lighting for all areas of the property, Recycling and composting, thermal comfort systems to have more	In looking to the future, the participating hotels are investigating the possibility of implementing several new projects. The process encountered resistance from corporate and managing supervisors because of high turnover, low priority, disinterest, certificate of occupancy issues, and economic/corporate pressures, but these were largely overcome by	Many of these approaches can be applied in daily usage with support of government

			water, and improving air quality. The hospitality industry is becoming increasingly conscious of the benefits of implementing sustainability measures and optimizing operations to encourage the tourism industry to conserve and protect natural resources while also meeting guest expectations .			control of temperature and humidity set-backs, sub-metering to reduce sewer charges for items such as irrigation systems, cooling towers and pools, renewable energy options for water heating or back-up power applications, building re-commissioning to improve the performance of the building as it was designed to operate, switching to green cleaners, products, and finishes, water use efficiency practices (i.e. sub-metering, fixture retrofits for faucets, showerheads, and toilets, cooling tower water treatment, etc.), product substitution (i.e. reusable items, recyclable items, or items containing post-consumer recycled content),	the time the designation visit was completed; replaced by a sense of accomplishment. There were palpable regrets about the inability to implement certain energy conserving strategies because of budgetary constraints and low priority assigned to energy management systems.	
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						eliminating environmental tobacco smoke at the facility, and performance contracting to help finance implementation projects through forecasted savings and limit upfront capital expenditures .		
4	Sustainability Initiatives for Green Tourism Development: The Case of Wayanad, India	(Markose N, 2022)	Mainstream sustainability talks emphasize the balancing of commercial and environmental concerns. These talks have resulted in responsible tourism (RT) practices, which play an important role in the "greenification" of economies in many nations. Green tourism encourages travel that supports natural and cultural values while also protecting the destination community's limited resources. Kerala, India, was a pioneer in	Keywords: responsible tourism; sustainability; green tourism development	Explorative analyzes, A case study method, Secondary data	Responsible tourism has a beneficial effect on destinations. Responsible tourism can be an effective technique for sustainable tourist development and green economic growth in several destinations if more efforts are made to make the destination economically sustainable.	Even after taking into account all of the factors, there is still work to be done to establish economic vitality because there is little proof of the destination's long-term economic development. This will also rely on the lifetime of tourism products in any specific destination.	Future scholars can also investigate the relationship between responsible tourism and green tourism. Future academics may also shed insight on the role of public-private partnerships (PPP) in responsible tourism. More research is needed to understand the role and impact of responsible tourism on achieving sustainable green tourist development.

			implementing RT.					
5	Hospitality internships and green leaders: analyzing the engagement of interns with hotel sustainable development practices	Rashmeet, Kapoor., Anjana, Singh. (2023). Hospitality internships and green leaders: analyzing the engagement of interns with hotel sustainable development practices. Worldwide Hospitality and Tourism Themes, DOI: 10.1108/whatt-02-2023-0023	Purpose of this study is that the Interns can engage in sustainable practices during hotel internships. Sustainability training can be integrated for creating future green leaders in hospitality. This paper also explores the sustainability training in hospitality internships and engagement of interns. This paper also highlights the importance of sustainability training and strategies to create students true hospitality professionals	Sustainability training Green internships	Qualitative research methodology In-depth interviews with students and learning and development managers	Sustainable training should be included in hotel internships. Interns can help the industry become more sustainable.	The qualitative character of the research approach, as well as the dependence on interviews, raises the danger of data bias. When analyzing the study's findings, this potential bias must be taken into account.	The paper acknowledges the limits of a limited sample size, but recommends that a more thorough study could provide additional insights into the impact of sustainability training on interns and the hospitality sector.
6	The Effect of Sustainable Practices on Customer Attitude: A Study of Sustainable Hospitality Operations	Varinder, Singh, Rana., Ashish, Raina., Gaurav, Bathla. (2023). The Effect of Sustainable Practices on Customer Attitude: A Study of Sustainable Hospitality Operations. DOI: 10.54878/ejbess.227	Customer satisfaction, loyalty, and willingness to pay are all positively affected by sustainable practices. Because of their growing responsibilities, hoteliers	Sustainable business practices, Customer attitude, Hospitality industry, Sustainable operations,	Quantitative approach and qualitative	Sustainable hospitality practices positively affect customer satisfaction, loyalty, and willingness to pay a premium. The opinions of clients are	While the study focuses on the benefits of sustainable practices on consumer sentiments, there is a vacuum in knowing how individual customer	As the need to be economically, socially, and environmentally responsible intensifies, hoteliers must prioritize sustainable business practices.

			must adopt sustainable methods. Hoteliers must adhere to sustainable business principles in the twenty-first century. Travelers and businesses are altering their mindset towards sustainability.	Customer satisfaction, Guest loyalty		influenced by environmental and economic dimensions of sustainable hospitality practices.	demographics or business factors may influence these interactions.	
7	A review of green practices and initiatives from stakeholder's perspective towards sustainable hotel operations and performance impact	Natasha, Khalil, Siti, Noorfairus, Che, Abdullah., Siti, Norsazlina, Haron., Md., Yusof, Hamid. (2022). A review of green practices and initiatives from stakeholder's perspectives towards sustainable hotel operations and performance impact. Journal of Facilities Management, DOI: 10.1108/jfm-03-2022-0025	This paper showcase the Green practices in hotels taken into account the viewpoints of managers, employees, and customers. Sustainable projects are aligned with the environmental, economic, and social performance pillars. The Review of Green Practices in the Hotel Industry Stakeholders' Perspectives on Sustainable Hotel Operations and Performance Impact	Green practices, Sustainable initiatives, Stakeholders, Hotel operations, Performance impact, Manager perspectives, Employee perspectives, Customer perspectives, Sustainability pillars, Environmental performance, Economic performance, Social performance	Literature review	Identified ten attributes, including green marketing strategy, eco-innovation investment, and green technology, emphasizing the importance of managerial attitudes and tactics in implementing green practices. Sustainable methods have been discovered to assist hotel owners by improving economic, environmental, socio-cultural, and legal policy sustainability in hotel operations. All discovered attributes were connected with performance	While the study entirely analyses many features of green practices and their performance impact, there are potential research gaps that might be addressed further in the Integration of Stakeholder Perspectives.	Implementing sophisticated technologies like IoT sensors, AI-driven energy management systems, and smart devices to optimize resource utilization, improve operational efficiency, and reduce the environmental imprint.

						effectiveness in hotel operations, affecting sustainability pillars such as environmental, economic, and social performance.		
8	Sustainable practices and green competencies	Syed, Aasif, Bukhari., Mamta, Jain. (2022). Sustainable practices and green competencies. International Journal of Health Sciences (IJHS), DOI: 10.53730/ijhs.v6ns4.9299	This paper shows that the Hotels have adopted sustainable initiatives to lessen their environmental impact. Technical ability, communication, and problem-solving skills are examples of green competencies in hotel operations. The study focuses on sustainable practices and green competencies.	Sustainability Practices, Green Competencies, Hotels, Environmental Impact, Sustainable Practices Implementation	In-Depth Interviews	The primary findings from the research study on sustainable practices and green skills at Category "A" hotels in Kashmir are as follows: Employee competencies are Identified as critical to the successful adoption of sustainable initiatives. Competent hotel staff have a crucial role in driving sustainable efforts. Green competencies for sustainable development require essential technical abilities include energy management and assessment. Information technology skills were emphasized to ensure	The study lacked a detailed examination of specific green competencies, instead focusing on overall green competencies. The study's focus on Category "A" hotels in Kashmir may limit the generalizability of its findings The survey did not conduct a comparative analysis of sustainability practices and green capabilities across hotel categories or geographies. Comparative investigations could highlight differences in processes and competencies, providing more nuanced	Future research could include a broader selection of hotels or locations to have a more complete knowledge of sustainable practices.

						efficient operations. Behavioral Skills also are emphasized the importance of employee motivation and behavioral transformation. Communication and project management abilities were rated as critical for sustainability initiatives. Facilitative leadership was identified as essential for cultivating a sustainable culture. Analytical and decision-making skills are essential for sustainability activities, including understanding of legislation and problem-solving abilities	insights to the industry.	
9	A Comprehensive Study on Sustainable Practices in the Hotel Industry: A Review	Poonam, Jindal, and, Dr., Mohsin, Shaikh., Prerna, Bhautik. (2022). A Comprehensive Study on Sustainable Practices in the Hotel Industry: A Review. ECS transactions, doi: 10.1149/10701.0479ecst	To lessen their environmental impact, ecological hotels use green practices. Smart bathrooms and solar power systems are being	Green practices Sustainable initiatives sustainable practices	In-Depth Interviews	The study describes the characteristics and strategies of sustainable hotel practices. It also aim to educate and raise awareness of		

			installed in hotels all around the world. Ecological hotels lessen their environmental impact by implementing green measures. The study's goal is to describe, investigate, and learn about sustainable hotel operations.			sustainability in the hospitality business.		
10	Driving Sustainable Practices in Vocational Education Infrastructure: A Case Study from Latvia	Girts, Bohvalovs., Antra, Kalnbalkite., Ieva, Pakere., Ruta, Vanaga., Vladimirs, Kirsanovs., Dace, Lauka., Toms, Prodanuks., Krista, Laktuka., Kristiāna, Dolge., Zigmārs, Zundāns., Dagnija, Blumberga., Andra, Blumberga. (2023). Driving Sustainable Practices in Vocational Education Infrastructure: A Case Study from Latvia. Sustainability, DOI: 10.3390/su151410998	This study focuses on Energy-efficient building systems, the utilization of renewable energy, and the integration of a sustainable curriculum. Managers, teachers, and students must all be actively involved. Promoting sustainable practices in vocational education infrastructure in Latvia, including energy-efficient building systems and renewable energy sources in schools.	Climate neutrality, energy efficiency, renewable energy, education on sustainability Stakeholder participation, composite indicator, reduction in energy consumption	Comprehensive study of educational institutions	Mandatory and discretionary interventions can dramatically reduce energy consumption and greenhouse gas emissions in educational facilities. Climate-neutral technologies should be showcased through demonstration projects.	The cost of abandoning optional actions is higher. Mandatory steps result in significant savings in energy use.	Install energy-efficient building systems and use renewable energy sources. Include sustainable techniques in the curriculum for future professionals.

11	Sustainable Higher Education Systems - Approaches & Practices with Emphasis on Green Technologies and their Integration in Higher Education Systems	(2023). Sustainable Higher Education Systems - Approaches & Practices with Emphasis on Green Technologies and their Integration in Higher Education Systems. International Journal For Multidisciplinary Research, DOI: 10.36948/ijfmr.2023.v05i03.2968	The study aims at Green technology integration, environmentally friendly campus initiatives, and sustainable infrastructure development. Circular economy ideas, transdisciplinary methodologies, and community engagement for sustainability. The article investigates approaches and practices for incorporating green technologies into higher education institutions. It emphasizes the importance of sustainability and demonstrates case studies and issues.	Case studies, challenges, opportunities, sustainability, sustainable practices Ecologically minded curriculum and research, green campus initiatives, green technologies	Surveys, interviews, observations Document analysis, focus groups	Importance of Integrating Sustainability into Campus Life Pathways for Sustainable Higher Education Systems	Challenges to incorporating green technologies in higher education systems Navigating the diverse terrain of opportunities and obstacles.	Developing IoT apps for energy management and resource monitoring. Creating environmentally friendly data centers with energy-efficient technology and virtualization.
12	Quality and Practices for Sustainability in Higher Education—An Impact Ranking Approach	James, R., Ballinger, James, R., Ballinger. (2023). Quality and Practices for Sustainability in Higher Education—An Impact Ranking Approach. Smart Innovation, Systems and Technologies, DOI: 10.1007/978-981-19-6585-2_27	HEIs contribute to sustainability through the SDGs and goal-setting. HEIs ensure that there is no prejudice and that future	Higher Education Institutions, Sustainability, Impact Rankings, SDGs Knowledge dissemination, societal trends, global performance	Qualitative analysis of sustainability elements in THE Impact Rankings Review of elements and documents on selected Portuguese	Higher education institutions are devoted to and actively participating in sustainability measures. Higher education institutions contribute to	The study is based on the elements found in the Times Higher Education (THE) Impact Rankings for the chosen HEIs. This limited	Collaboration may increase the effect of sustainability programs and encourage information sharing across borders.

			generations learn about sustainability practices. The Impact Rankings analyze universities' attainment of the SDGs. Portuguese higher education institutions are committed to promoting sustainability.	e tables, UN goals	HEIs websites	the attainment of the SDGs for 2030.	scope may ignore other significant sustainability activities and practices that these institutions are participating in but are not reflected by the ranking criteria.	
13	Sustainability practices at higher education institutions in Asia	Walter, Leal, Filho., Maria, Alzira, Pimenta, Dinis., Subarna, Sivapalan., Halima, Begum., Theam, Foo, Ng, Abul, Quasem, Al-Amin., Gazi, Mahabubul, Alam., Ayyoob, Sharifi., Amanda, Lange, Salvia., Qudsia, Kalsoom., Mustafa, Saroar., Samara, da, Silva, Neiva. (2021). Sustainability practices at higher education institutions in Asia. International Journal of Sustainability in Higher Education, DOI: 10.1108/IJSHE-06-2021-0244	Asian universities have diverse sustainability approaches in higher education institutions. This study addresses a gap in the research on sustainable practices in Asian higher education institutions. The study investigates sustainability methods in Asian higher education institutions. Variation among countries; far eastern countries have more practices.	Sustainability practices Higher education institutions in Asia	Bibliometric analysis Online survey with descriptive analysis and t-test.	Higher education institutions in Asia vary in their sustainability approaches. Far eastern countries demonstrate more sustainable practices.	The study highlights a gap in the literature regarding sustainability practices in Asian higher education institutions. This research contributes by providing a comprehensive instrument to measure sustainability practices in higher education institutions, filling this vacuum in knowledge. Limited Coverage of Asian Countries: The report notes that the survey did not cover all Asian countries, revealing a geographica	HEIs in far eastern countries demonstrate more sustainable practices. The study establishes a baseline for Asian HEIs to improve sustainability strategies.

							l gap in the research. While countries such as Indonesia, Malaysia, and Thailand were thought to display stronger sustainable practices, the survey did not include all Asian nations, leaving a vacuum in the representation of sustainability efforts across the continent.	
14	Sustainable Education Starts in the Classroom	Maura, Pilotti., Runna, Al, Ghazo. (2020). Sustainable Education Starts in the Classroom. Sustainability, DOI: 10.3390/SU12229573	The study defines the relevance of sustainable higher education. Research on influencing behavioral change in pupils through scientific writing. Sustainable education entails generating long-term behavioral changes in students. Environmental disturbances, such as the shift to online instruction, can have an impact on	Sustainable education, scientific reasoning, reproductive learning, behavioral change COVID-19 pandemic, online instruction, Middle East, motivation	The paper employed cognitive functions such as applying, analyzing, and evaluating. The article also looked at the effects of environmental interruptions on learning.	Students' behaviors change as they practice scientific reasoning. Environmental disruptions have little effect on students' scientific reasoning.	Reproductive learning does not impede scientific thinking. A sudden change in the learning environment may cause uncertainty, but it does not significantly affect motivation.	Reproductive learning does not hamper scientific reasoning. An abrupt change in the learning environment may create uncertainty, but it has no meaningful impact on motivation.

			sustainability.					
15	Sustainable Rural Tourism Practices From the Local Tourism Stakeholders' Perspective	Jennifer, Kim, Lian, Chan. (2023). Sustainable Rural Tourism Practices from the Local Tourism Stakeholders' Perspectives. Global business and finance review, DOI: 10.17549/gbfr.2023.28.3.136	The research looks into sustainable approaches in rural tourism, including conservation and preservation, economic benefits, collaboration and protection, environmental impact, future growth, awareness, knowledge, and improvement. The study looks into sustainable practices in rural tourism. The conclusions include information about conservation, economic benefits, teamwork, and other topics.	Sustainable tourism practices, rural tourism stakeholders	Exploratory qualitative research project Semi-structured interviews with rural tourism operators	Sustainable tourism practices prioritize conservation, economic benefits, collaboration, and protection. Economic, social, environmental, and government assistance all play key roles in promoting sustainable practices.	These findings have implications for sustainable rural tourist destination management and stakeholder engagement. Expands upon prior research on meaning, motivation, and sustainability behaviors.	Sustainable rural tourism approaches prioritize future growth and awareness. Economic, social, environmental, and government assistance are among the primary motivators.
16	The Impact of Sustainability Practices on the Going Concern of the Travel and Tourism Industry: Evidence from Developed and Developing Countries	N., Nagendrakumar., Kalubowilage, Navodya, Nilupulee, Alwis., Udage, Arachchige, Kaveesha, Eshani., Seekku, Baduge, Ushani, Kaushalya. (2022). The Impact of Sustainability Practices on the Going Concern of the Travel and Tourism Industry: Evidence from Developed and Developing Countries. Sustainability, DOI: 10.3390/su142417046	Tourism sustainability practices take into account environmental, economic, and social elements. These techniques improve financial performance in the tourism business.	Sustainability practices, financial performance, tourism industries Macro-level sustainability factors, going concern, developed and developing countries	Panel data analysis Hausman test	Sustainability measures at the macro level have a substantial impact on the ongoing business. The study closes an empirical gap in analysing financial performance related to sustainability practices.	Corporate reporting lacks consistency and openness. There is a lack of research on the impact of macro-level sustainability factors on financial success.	Social sustainability strategies have a favorable impact on the future of travel and tourism industries. Sustainable practices have a substantial impact on the tourism industry's financial

			Examined the impact of sustainable practices on the ongoing concern. Significant influence found from the perspectives of developed and poor countries.					performance.
17	Assessing the adoption of sustainability practices in tourism industry: Insights from a developing country	Md., Farijul, Islam., Jing, Zhang., Najmul, Hasan. (2019). Assessing the adoption of sustainability practices in tourism industry: Insights from a developing country. The Bottom Line: Managing Library Finances DOI: 10.1108/BL-09-2019-0113	This study examines how collaboration, creativity, employee culture, and technology infrastructure influence the adoption of sustainable tourism practices. Collaboration, innovation, and employee culture all have an impact on how sustainable practices are adopted in tourism. Government policy and local attitudes have little impact on adoption.	Sustainability practices Tourism accommodation firms	Structural equation modeling used for hypothesis testing and validation.	Collaboration, innovation, and employee culture all have an impact on how sustainable practices are adopted in tourism. Government policy and local attitudes have an insignificant impact on adoption.	Government sustainable tourism policies and local attitudes have little impact. The mediating effect of sustainable initiatives on competitive advantage is underlined.	The study focuses on existing sustainable practices in the tourism business. Encourages tourist activities that are economically sustainable and socially responsible.
18	Challenges to Implementing Sustainability Practices in Tourism	Alexandra, Coghlan. (2019). Challenges to Implementing Sustainability Practices in Tourism. DOI: 10.23912/9781911396734-4255	Stagnation of sustainability techniques in the tourism business. Reasons to employ	Sustainability practices, tourism, challenges Green washing, government regulation,	Qualitative research methodology In-depth interviews with students and learning and	Sustainability in tourism has stagnated. Tourism industry has seemingly stagnated in terms of	The paper primarily focuses on the challenges to implementing	Sustainability practices stagnation in tourism due to various challenges.

			sustainability measures in tourism businesses. The tourism industry's sustainability has stagnated. Green washing is common in the sector.	green consumers, social license	development managers	sustainability practices, primarily focusing on superficial initiatives like flight carbon offset schemes and towel re-use programs. Businesses in the tourism sector often engage in 'greenwashing,' exaggerating their environmental efforts to appear more sustainable than they actually are. This can be attributed to reasons such as avoiding stricter government regulations, appealing to the growing market of environmentally conscious consumers, and improving their social reputation in sensitive areas like the Antarctic environment. The inclusion of sustainability-related behaviors in tourism businesses is driven by the need to maintain a social license to operate in environmentally fragile regions, such as cruise	sustainability practices in tourism without delving deeply into specific case studies or empirical data to support the arguments made. The discussion on 'greenwashing' in the tourism industry could benefit from more concrete examples or case studies to illustrate the extent of this phenomenon and its impact on sustainability efforts. The paper does not explore potential solutions or strategies to overcome the identified challenges in implementing sustainability practices in tourism, leaving the discussion somewhat open-ended. There may be a lack of diverse perspectives or voices represented in the paper, potentially	Green washing, government regulations, green consumers, and social license drive sustainability.
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						ships in sensitive areas. Green washing is prevalent in the industry.	limiting the comprehensiveness of the analysis on sustainability practices in tourism. The study does not address the perspectives of key stakeholders such as tourists, local communities, or regulatory bodies, which could provide valuable insights into the complexities of sustainability in tourism.	
19	Analysis of hotels' environmentally sustainable policies and practices: Sustainability and corporate social responsibility in hospitality and tourism	Ajay, Khatter., Michael, McGrath., Joanne, Pyke., Leanne, White., Leonie, Lockstone-Binney. (2019). Analysis of hotels' environmentally sustainable policies and practices: Sustainability and corporate social responsibility in hospitality and tourism. International Journal of Contemporary Hospitality Management, DOI: 10.1108/IJCHM-08-2018-0670	Large hotels more likely to adopt sustainable practices than independent hotels. Independent hotels lag in adopting visible sustainable practices. Analysis of hotels' environmentally sustainable policies and practices in Melbourne. Independent hotels lag in adopting environmentally friendly	ESPPs, sustainable business practices, stakeholder theory, and hotel websites. Independent and chain-affiliated hotels, sustainability information, and environmental efforts.	Secondary data and content analysis. Systematic review of hotel websites	Hotels vary in their commitment to environmentally sustainable policies and practices. Independent hotels are less likely to display environmental measures than chain hotels.	Hotel websites may not show all ESPPs. It is difficult to locate environmental sustainability information on websites.	Hotels can play a leading role in the green economy's transition. Senior managers must demonstrate a strategic commitment to environmental sustainability.

			business practices.					
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Data collection

Literature review on secondary source of academic database of research articles, journal articles, conference proceeding articles, and industry report during the time period of 2016 to 2024.

3. CONCLUSION

Hotel management institutes courses teach students the knowledge and skills they need to apply in accepting sustainable practices in the hospitality management business. The hospitality management course sector utilises a large quantity of energy. Energy conservation methods, such as employing energy-efficient lights and appliances, as well as installing renewable energy sources like solar panels, can be employed to reduce energy consumption. The hospitality management course can teach the students to implement water conservation methods, such as low-flow showerheads and toilets, as well as rainwater harvesting devices that can drastically cut water consumption. The hospitality business produces a substantial amount of garbage. Recycling programmes, composting, and limiting the use of single-use plastics can all help to cut trash creation dramatically. All these techniques can be inculcated in the curriculum.

The hospitality management course industry may promote sustainable food practices, such as sourcing locally grown and organic food and reducing food waste. Hotel management professionals and the institutes can create a plan outlining the hotel's sustainability activities and goals. The strategy may include a road map for putting in place sustainable practices, such as minimising energy use and trash generation. Hotel management professionals can instruct individuals on sustainable practices. This involves training employees on energy efficiency, trash reduction, and sustainable food habits. Hotel management experts can design a curriculum that may educate guests on sustainable practices, including minimising water consumption and garbage generation. Hotel management experts can talk about technologies like energy management systems and water monitoring systems to reduce energy and water use and introduce them in practical components. Introducing Sustainability Practices in the Hospitality Management Course Industry and Implementing sustainability methods in the hospitality management course business is critical for a better future for both the world and the industry itself. Integrating sustainability throughout the curriculum. The scope of hotel management encompasses various subjects, and sustainability approaches should be integrated into the curriculum. The Best Hotel Management Courses focus on developing sustainable practices in hotels, resorts, and other tourism enterprises, and they equip students with the information and skills needed to execute sustainable practices in the hospitality industry.

At the same time, hotel personnel and institute management involved in the process should not resist these practices. There are tangible regrets like High turnover, low priority, disinterest, high initial cost involved, and economic/corporate pressures over the inability to implement certain energy-saving methods due to cost restrictions and the low priority allocated to energy management systems.

Futuristic Approach

There are many initiatives taken in other courses both at primary education level and at higher studies. HIAL (Himalayan Institute of Alternatives), Leh and Rajkumari Ratnavati Girls School in Jaisalmer are true examples of sustainable practices which can easily show the path to other education models that SDG can be achieved by multiple ways involving management and the students.

CONFLICT OF INTERESTS

None.

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REFERENCES

- Schot, J., & Steinmueller, W. E. (2018). Three frames for innovation policy: R&D, systems of innovation and transformative change. *Research policy*, 47(9), 1554-1567.
- Govigli, V. M., Rois-Díaz, M., den Herder, M., Bryce, R., Tuomasjukka, D., & Górriz-Mifsud, E. (2022). The green side of social innovation: Using sustainable development goals to classify environmental impacts of rural grassroots initiatives. *Environmental Policy and Governance*, 1-19. <https://doi.org/10.1002/eet.2019>
- Wei, X., Wei, Q., & Yang, L. (2023). Induced green innovation of suppliers: The “green power” from major customers. *Energy Economics*, 124, 106775.
- Zhou, X., Yu, Y., Yang, F., & Shi, Q. (2021). Spatial-temporal heterogeneity of green innovation in China. *Journal of Cleaner Production*, 282, 124464.
- Zameer, H., Wang, Y., Yasmeen, H., & Mubarak, S. (2022). Green innovation as a mediator in the impact of business analytics and environmental orientation on green competitive advantage. *Management Decision*, 60(2), 488-507.
- Ali, U. H. (2023, 3 21). Sustainability 2023. doi:<https://doi.org/10.3390/su15065512>
- Daniel E. Meerooff, P. D. (2020, April). *Journal of Service Science and Management*. doi:10.4236/jssm.2020.132013
- Markose N, V. T. (2022, 1 24). *Journal of Risk and Financial Management*. doi:<https://doi.org/10.3390/jrfm15020052>
- Sheraz, M. (2021). Moderating the effect of globalization on financial development, energy consumption, human capital, and carbon emissions: evidence from G20 countries. *Environmental Science and Pollution Research*. doi:<https://doi.org/10.1007/s11356-021-13116-0>
- Hung C-L, Yu T-F, Lin Y-H, Lin Y-C, Chen Y-H, Lo W-S. Reflective and Cooperative Learning for Understanding Sustainability through an Eco-Innovation Strategy in Rural Travel and Hospitality: A STEAM Case Study. *Sustainability*. 2023; 15(17):13152. <https://doi.org/10.3390/su151713152>