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# E-learning and Blended Learning in Tourism and Hospitality Education after the Pandemic: Challenges, and Implementation Barriers

# Harshal Kamble<sup>1</sup>, Ritu Dandge<sup>2</sup>

<sup>1</sup>Asst. Professor & HOD- Food Production – Lexicon MILE, Department of HMCT– Pune, Research Scholar – Neville Vadia Institute of Management Studies & Research, Pune, B-106, Suyog Lucky Homes, Near Bhadale vasti, Wagholi, Pune.

<sup>2</sup>Asst. Professor – Lexicon MILE, Department of HMCT– Pune, Research Scholar – Ajeenkya DY Patil University, Pune, Oxy Desire, Wagholi, Pune-412207,

#### **ABSRACT**

The Research Concept: The COVID-19 pandemic has fundamentally transformed the foundation of education system across the globe, generating a rapid shift towards e-learning and blended learning models. The tourism and hospitality industry were among the most effected sectors during and post pandemic, as it requires physical presence of each individual for experiencing the same. Thus, understanding the impact of pandemic on this sector & need to generate extreme new vision to restore this industry, this research investigates the evolution, challenges, and implementation barriers of e-learning and blended learning in tourism and hospitality education post-pandemic, to create industry ready professional with inbuilt ecosystem.

**Research Significance & Objectives:** The study aims to achieve key objectives like, to trace the evolution of e-learning and blended learning practices in the tourism and hospitality sector and to identify the challenges faced by educators and students in adopting these new learning modalities. It also aims to explore the barriers to effective implementation of e-learning and blended learning and assess the impact of these learning models on educational outcomes and industry readiness. The study also shares recommendations for improving the integration and effectiveness of digital learning tools in tourism and hospitality education.

**Research Methodology:** The research methodology employed is a systematic literature review, using secondary data from scholarly articles, industry reports, and academic publications. This approach allows for a comprehensive synthesis of existing knowledge and insights on the topic, providing a robust foundation for addressing the research objectives. The literature review process involved identifying relevant studies, assessing their quality, and synthesizing findings to draw comprehensive conclusions about the state of e-learning and blended learning in the field.

**Research Findings:** Key findings from the literature research show that, while e-learning and blended learning have become crucial in tourism and hospitality education, a number of problems remains answered. These include technological infrastructure deficiencies, a lack of digital literacy among

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<sup>&</sup>lt;sup>1</sup> RESEARCH SCHOLAR – SPPU

<sup>&</sup>lt;sup>2</sup> RESEARCH SCHOLAR – ADYP



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educators and students, and a refusal to switch from traditional teaching techniques. Furthermore, limitations such as restricted access to high-speed internet and insufficient support for faculty development impede successful implementation. The study continues with solutions for addressing these problems, such as investing in technical infrastructure, improving digital literacy programmes, and encouraging an innovative and flexible culture in educational institutions.

**Keywords:** Digital Pedagogy, Blended Learning, Hospitality & Tourism Education, Education Transformation, Technology Integration.

## 1. Introduction

The COVID-19 epidemic prompted an unparalleled transformation in educational concepts, forcing institutions globally to rapidly adopt remote and online learning modalities. The tourism and hospitality sector, reliant on practical skills and interpersonal interactions, faced unique challenges in this transition.(Fauzi, 2022) Consequently, the adoption of e-learning and blended learning strategies became not merely an option, but a necessity(Zhang et al., 2020). As the world navigates the post-pandemic era, it is imperative to critically examine the efficacy and sustainability of these educational approaches within tourism and hospitality education.

Prior to the pandemic, blended learning was gaining traction as a pedagogical approach that combined traditional face-to-face instruction with online learning elements. However, the sudden shift to fully online environments during lockdowns revealed both the potential and limitations of digital education(Munoz et al., 2021). Studies have documented the immediate challenges and adjustments experienced by students and academics in distance education within the tourism and hospitality domain(Demirdelen Alrawadieh, 2022)

Furthermore, the rapid implementation of online education necessitated an exploration of the broader challenges and implications for blended learning frameworks, highlighting the need for robust strategies to meet the evolving needs of learners(Ali, 2024)

The feasibility of remote teaching and training, especially in practical-oriented fields like hotel management, was also put to the test(Gautam & Sora, 2024)

As educational institutions transitioned from crisis-driven online delivery to more sustainable blended learning models, the challenges in implementation, both before and after COVID-19, have become clearer Now, as the education sector begins to solidify its post-pandemic strategies, a comprehensive review of the current state of blended learning is essential to ensure its continued effectiveness(Anthony Angwaomaodoko, 2024)

This research paper, aims to provide a critical analysis of the current landscape. It will explore the specific challenges encountered in implementing e-learning and blended learning within the tourism and hospitality sector, identify the implementation barriers that hinder effective adoption, and offer insights into best practices for future educational strategies. By examining these critical aspects, this study seeks to contribute to the development of resilient and effective educational frameworks that can better prepare future professionals in the tourism and hospitality industry.

### 2. Research Question

The transition to blended learning and e-learning in tourism and hospitality education was expedited by the COVID-19 pandemic(P Sankar et al., 2020). Although these approaches are flexible, there are still



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implementation issues, particularly with hands-on instruction. This study examines the main obstacles, the opinions of educators and students, and methods for enhancing digital learning in the industry.

- 1. What obstacles must educators overcome in order to implement blended learning and e-learning after the pandemic?
- 2. What are the main obstacles to successfully integrating blended learning?
- 3. How might blended learning and e-learning be improved for industrial readiness?

## 3. Research Objectives

- 1. To determine the main obstacles teachers, encounter when using blended learning and e-learning in post-pandemic tourism and hospitality education.
- 2. to evaluate how digital learning affects students' learning outcomes and skill development.
- 3. to investigate the main obstacles to the successful application of blended learning, such as pedagogical, infrastructure, and technology concerns.
- 4. To suggest ways to improve blended learning and e-learning techniques and overcome obstacles in order to increase industry readiness

## 4. Scope and Limitations of the Study

This study examines the adoption of e-learning and blended learning in tourism and hospitality education post-pandemic. It explores challenges faced by educators and students, including technological, pedagogical, and infrastructural barriers. The research assesses the impact on skill development and industry readiness while proposing strategies for improvement. Findings will benefit educators, institutions, and policymakers in shaping effective digital learning frameworks.

### Limitations:

The study focuses on specific educational institutions and may not represent global trends. Data is limited to educator and student perspectives, excluding employer feedback. Additionally, variations in technological access and institutional policies may influence findings, limiting generalizability.

### 5. Research Methodology

The Study is based on the Systematic Literature Review process conducted by adopting; (1) Deciding Inclusion and exclusion criteria for relevant studies, (2) Designing research strategy, (3) Identifying potential literature by screening and filtering of collected data, (4) Evaluating the included studies for review purpose, (5) Analysing and describing the data to generate findings for the study. (Bizami et al., 2023)

The major criteria considered to decide the inclusion of the data base includes various Key words used, the time frame was capped between 2020 to 2025 to ensure latest information is included. The exclusion parameters were about the papers which are non-hospitality based educational and non-peer reviewed papers., the study was conducted using electronic search engines and data base systems such as Scopus Indexed Journals, Web of Science, Research Gate, SpringerLink Journal, EBSCO, Science Direct Journal etc(Bizami et al., 2023)

Following are the specific Key Words used to initiate the review search, (a) Digital Pedagogy AND Online Learning AND Hybrid Learning Modules, (b) Blended Learning AND E-Learning, (c) Hospitality & Tourism Education AND Modern Hospitality Education, (d) Education Transformation AND Technology Integration.



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This systematic structuring of the available literature resulted in identifying total 324 studies in given set parameters, and subsequent to the initial selection, potential research was filtered by eliminating duplicate titles, abstracts, non-empirical studies, and non-peer-reviewed studies, resulting in the exclusion of 212 studies. This led to identifying 112 remaining studies suitable for the consideration of the scope and relevance of the present study to examine further. These studies are further assessed using (Gough, 2007) Gaugh's Weight of Evidence method to generate more precise results (Page et al., 2021). (Figure 1) After Proper screening and discussion among authors, total of 62 research articles (Table 1) are selected for this study and will be further reviewed and examined.

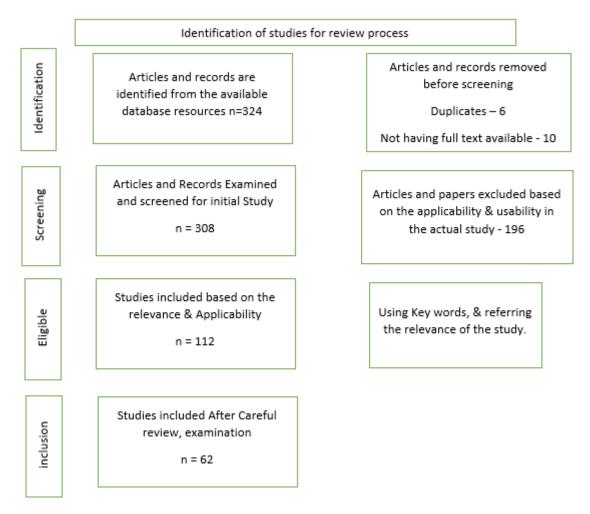


Figure 1 - Source - (Page et al., 2021)PRISMA Model concept taken with (Gough, 2007)

Sr.No	Concept Base	Number of Articles / Studies included
1	Blended Learning / Hybrid Learning	31
2	E-Learning / Online Learning	23
3	Literature review oriented & other relevant	08
	Total	62



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## 6. Literature Review

udy No	Topic Name	Name of Author	Name of Publisher / Journal	Date of Publication	Research Methodology	Inferences/Conclusion/ Research Findings
1	Hospitality and tourism education in an emerging digital economy	Samuel Adeyinka- Ojo, Sean Lee, Shamsul Kamariah	Worldwide Hospitality and Tourism Themes	21/03/20	Content analysis was conducted on relevant literature	This paper presents a framework for developing a technology-driven hospitality and tourism curriculum in Malaysia, focusing on digital literacy skills,
2	in hospitality and tourism	Abdullah, John Teo CHRISTINE BILSLAND HELGA NAGY PHIL SMITH	International Journal of Work-Integrated Learning	21/04/20	a systematic literature review,	employability, experience economy services, and The research framework considers COVID-19 change in the hospitality and tourism industry, including training mechanisms and potential implications for work-integrated learning internships, proposing fut,
3	Trends and research issues of mobile learning studies in hospitality, leisure, sport and tourism	Tu, Y. F., & Hwang, G. J	Interactive Learning Environments	18/05/20	a systematic literature review,	Previous studies have primarily focused on learners' learning perceptions, knowledge delivery, and skills training, neglecting higher order thinking, suggestir potential research issues and practitioner notes for
4		Ali Sorayyaei Azar; Albattat, Ahmad; Azni Yati	Journal of critical reviews	02/06/20	a qualitative method	The study highlights the widespread use of experiential learning in hospitality education, claimi it is more effective than traditional classroom
5	FROM ACADEMIC AND Obstacles Hindering the Implementation of E- learning in the Faculties of Tourism and Hotels in	Kamaruddin Ahmed Adel Hammad and Mohamed Abd El- Fattah Zohry	Journal of Association of Arab Universities for Tourism and Hospitality	11/06/20	a descriptive research design	learning, and suggests suggestions for improving its. The study indicates that most faculties, particularly those affected by the Corona virus pandemic, utilize learning, but challenges such as lack of familiarity persist.
6	Blended Learning in Hospitality Education and Training: Review and Discussion	Tian Hai	2021 International Conference on Modern Educational Technology and Social Sciences	13/07/20	literature review, and discussion	The literature suggests blended learning methods a feasible in hotels, with a discussion section on a conceptual hotel training design, emphasizing the importance and limitations of this approach.
7	THE ROLE OF EDUCATION IN THE HOSPITALITY INDUSTRY – LITERATURE REVIEW	Marina Laškarin	Tourism and hospitality industry	15/07/20	a systematic literature review,	The paper provides an overview of hospitality education, tracks its evolution, and identifies new research areas in the field.
8	Applied Model of E- Learning in the Framework of Education for Sustainable	Tong Zhang, Zaffar A. Shaikh, Alexei V. Yumashev and Monika Chta d	Sustainability	10/08/20	The theory of niche construction is the foundation of model creation, assuming that	The study confirms the effectiveness of a universal distance education model for stable professional growth in tourism and hospitality staff, recommend its implementation in modern e-learning systems.
9	Factors Affecting the Quality of E-Learning During the COVID-19 Pandemic From the	Kesavan Vadakalur Elumalai Jayendira P Sankar Kalaichelvi R	Journal of Information Technology Education:Research	01/10/20	An inferential statistics cross- sectional study	The study reveals a positive correlation between variables and e-learning quality in higher education, with significant differences in student perceptions based on gender, course level, and e-learning qualit
10	Tourism Education During the Pandemic: Is Distance Education a Solution?	0.1	IGI Global	01/01/21	The paper is based on a semi- systematic literature review. The paper discusses distance education in tourism as an	Distance education is essential for tourism education during the pandemic. Higher education must prepare resources for post-pandemic challenges.
11	The Impact and Effectiveness of E- Learning on Teaching and	Riah F. Elcullada Encarnacion Annjeannette Alain	International Journal of Computing Sciences Research	01/01/21	mixed methodology through online survey	Teachers and students generally agree on E-learning effectiveness, rating it positively for enhancing instruction delivery and developing knowledge
12	Rethinking of Tourism and Hospitality Education When Nothing Is Normal: Restart, Recover, or	Marianna Sigala	Journal of Hospitality & Tourism Research	03/05/21	This paper does not explicitly detail a specific research methodology in the provided contexts.	The paper identifies a pressing need for transformative changes in tourism and hospitality education, advocating for a broad approach that addresses the complexities of the current education
13	Hospitality students at the online classes during COVID-19 – How personality affects	Pimtong Tavitiyaman, Lianping Ren, Chloe Fung	Journal of Hospitality, Leisure, Sport & Tourism Education	01/06/21	Survey Method	Students with high agreeableness and openness to experience experience higher learning, technical, ar financial anxiety, while those with conscientiousness extraversion, and neuroticism partially experience k
14	Pandemic and Post- Pandemic Digital Pedagogy in Hospitality Education for Generations	Smith, R. A	Journal of Hospitality & Tourism Research	01/06/21		
15	How COVID-19 influences Hospitality and Tourism Education: Challenges, Opportunities, and New	-	Journal of Hospitality & Tourism Education	16/06/21	The paper employs a qualitative research methodology, primarily utilizing a literature review	The findings of the paper reveal that COVID-19 has profoundly impacted hospitality and tourism education, leading to disruptions, the need for technological integration, curriculum changes, and
16	Transitioning to E- Learning during the COVID-19 pandemic: How have Higher Education	Darren Turnbull,Ritesh Chugh,Jo Luck	Education and Information Technologies	23/06/21	The research methodology employed in the study is referred to as an integrative review. This methodology	Identified five challenges in transitioning to online education. Suggested strategies for successful online implementation and training support.
17	Student Perspectives on Learning Experiences in a Higher Education Active	Alejandro Armellini & Virginia Teixeira Antunes & Robert	TechTrends	01/07/21	Thematic analysis	Quality learning experiences are essential, but tutor are crucial for a positive student experience. Staff- student partnerships, regular interaction with peers



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18	A Systematic Review of Systematic Reviews on	Muhammad Azeem Ashraf,	Psychology Research and Behavior Management	01/10/21	This study conducts a systematic reviews on BL,	The study reveals that BL is primarily studied in higher education, primarily targeting students. It calls for
	Blended Learning: Trends, Gaps and Future	Meijia Yang, Yufeng Zhang.			based on PRISMA (Preferred Reporting Items for	cross-collaboration in developing countries, and highlights challenges like lack of ICT skills and
19	Enhancing online learning		Journal of Teaching in	02/10/21	interviews with instructors	The study indicates that students perceive SP
	environments using social presence: evidence from	Mei-Jung (Sebrina) Wang	Travel & Tourism		and students	positively, and teachers are enhancing the learning environment by enhancing SP indicators, despite k
20	hospitality online courses University students'	Aaron Tham Jeong-Ja Choi ,	Journal of Hospitality,	01/11/21	focus group interviews	perceptions of community cohesiveness and The study highlights the importance of effective
20	perception to online class delivery methods during the COVID-19 pandemic:	Charles Arthur Robb b, Mazalan Mifli. Zaliha	Leisure, Sport & Tourism Education	02/11/21	locus group interviews	communication between lecturers and students for success, providing insights into student experiences during the pandemic and guiding future blended
21	An integrated blended	Antonio Calderón.	Physical Education and	02/11/21		during the pandemic and guiding ruture diended
75	learning approach for physical education teacher education	Dylan Scanlon, ANN MAC PHAIL, BRIGITTE MOODY	Sport Pedagogy	1256.555.55		
22	The Dark Side of the	Quah Wei Boon,	International Journal of	13/12/21	A qualitative study	Over half of students find challenges in implementing
	Online Learning for Hotel Recreation: The Students Voice on the Perspectives	Siti Zaitun Suid	Academic Research in Business and Social Sciences		,	online learning, but acknowledge successful implementation by lecturers. Issues include unstable internet, insufficient data, practical difficulties, lack of
23	Effects Of Blended	Muhammad	International Journal of	19/12/21	published articles on blended	The study suggests that blended learning strategies
20	Learning In Comparison Of Traditional Learning To	Hafeez , Yasmeen	Educational Research & Social Sciences	13/12/22	and traditional learning strategies	can help achieve academic and professional goals while fostering a safer learning environment in
24	Online Hospitality and Tourism Education - Issues and Challenges	Shweta Chandra Aditya Ranjan Nimit Chowdhary	Tourism	31/01/22	Focused group discussions	The study highlights the significance of practical classes, labs, and instructor feedback in student satisfaction, highlighting the need for effective tools and curriculum modifications in online teaching to
25	Distance Education in Tourism and Hospitality amid Covid-19: Perspectives of Students	Derya Demirdelen Alrawadieh	Journal of tourismology	23/03/22	In-depth interviews with 12 students and 12 academics. Data analyzed using content analysis.	Distance education offers easier access and flexibilit for students.  Students miss social interactions; academics face content monitoring issues.
26	The Best of Both Worlds:	Nicole Rosenkranz	Journal of Hospitality &	03/04/22	an in-class experiential	The study demonstrates the effectiveness of a
	Experiential Problem- based Learning Approaches in Hospitality		Tourism Education		problem-based learning activity within the corporate strategy class	combined learning approach, highlighting the benefit of experiential and problem-based learning, and the inductive method's role in achieving success.
27	Challenges and Opportunities in the Hospitality and Tourism Education: A	Dr. Jennie Margart M. Apritado and Dr. Noelah Mae D. Borbonr	Asia Pacific Journal of Educational Perspective	01/05/22	an interpretative phenomenological analysis through an unstructured questions	The study indicates that tourism and hospitality educators are recognizing their weaknesses and are adapting to technological advancements in learning management systems.
28	E-learning in higher education institutions during COVID-19 pandemic: current and	Muhammad Ashraf Fauzi	Heliyon	01/05/22	bibliometric review	The outcome will assist scholars and practitioners in enhancing technology and e-learning in Higher Education Institutions (HEIs) to ensure the continuity of students' education during emergencies.
29	What Shapes E-Learning Effectiveness among Tourism Education	Insha Amin , Anish Yousaf, Sandeep Walia, Makhmoor	Journal of Hospitality, Leisure, Sport & Tourism Education	01/06/22	a systematic literature review,	The study reveals that ICT components, except perception, positively impact e-learning effectiveness with perceived usefulness, enjoyment, virtual self-
30	Blended Learning	Sangeeth	Sustainability	01/07/22	Systematic Reviews and	This review highlights blended learning strategies in
	Strategies for Sustainable English as a Second Language Education: A	Ramalingam, Melor Md Yunus and Harwati			MetaAnalyses (PRISMA)	ESL classrooms, including collaborative-based instruction, learning management systems, social media applications, and technology-based instruction.
31	A Review on Bridging the Gap Between Hospitality Education and Hospitality Industry with Special	Shikha Ahlawat, Dr. Yashwant Singh Rawal	AUR Publisher	05/08/22	exploratory based on the secondary data	The study reveals a significant gap between academia and the hotel industry, with students lacking essential skills and modern infrastructure. Innovation and creativity are needed, and collaboration in research.
32	Blended Learning Acceptance: A Systematic Review of Information Systems Models	Rana Al-Maroof, Noor Al-Qaysi, Said A. Salloum & Mostafa Al-Emran	Technology, Knowledge and Learning	01/09/22	systematic review analyzed	The technology acceptance model (TAM) is the most effective predictor of individuals' intention to adopt blearning, with e-learning being the most effective tool for managing classrooms.
33	e-Learning in Tourism	Nadzeya Kalbaska	Springer, Cham	02/09/22	Systematic Review	The chapter explores the integration of tourism,
	Education	& Lorenzo Cantoni	ShruBrit strain	SEJUJIEE	Parameter in the first	education, and technologies, highlighting the benefits of e-learning in tourism education and its potential to be effectively utilized within the sector.
34	Advancing hospitality and tourism education and research through global crises	Jieyu (Jade) Shi	Journal of Teaching in Travel & Tourism	09/10/22	Systematic Review	Transformative learning enhances intercultural competence and critical thinking skills.
35	Electronic Learning Platforms and Their	O. Jawabreh, R. Qaddhat, A. Jahmani, B. M. Al	Applied Mathematics & Information Sciences An International Journal	01/01/23	Quantitative analysis	The initial belief in ELPs reduces their effectiveness, but investments in training, incentives, and assistive technology improve university-level tourism and



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36	INSTITUTIONAL	Ramiz ALI	Turkish Online Journal of	01/01/23	a descriptive research design	Despite facing barriers, students in
	ADOPTION AND		Distance Education			tourism/hospitality, business, science, and Islamic
	IMPLEMENTATION OF					studies faculties were generally happy with blended
	BLENDED LEARNING:	<u> </u>				learning (BL), despite facing more negative
37	Innovative pedagogical	Najwa Amanina	Education and	01/02/23	systematic literature review	Cognitive factor links pedagogical principles to
	principles and	Bizami · Zaidatun	Information Technologies		technique	technological learning tools' capabilities, aiding
	technological tools	Tasir∙ Kew Si Na				instructors in selecting appropriate tools for Education
	capabilities for immersive					4.0 pedagogies, optimizing immersive blended
38	The effectiveness of ICT-	Wang, M. jung	Interactive Learning	17/02/23	Exploratory based Study	The study found that classroom activities like video-
	enhanced learning on	(Sebrina), Yang, L.	Environments			making, sharing, and discussions significantly
	raising intercultural	Z., & Chen, T. ling				promoted students' intercultural competences,
	competencies and class	(Charline).				improved learning interactions, and increased their
39	Research Progress on the	Coll-Ramis, M. À.,	Journal of Hospitality &	02/03/23	bibliometric analysis	The study identifies influential articles, author
	Role of Education in	Horrach-Rosselló,	Tourism Education	02/00/20	bibliometric analysis	keywords, main topics, and research areas related to
	Tourism and Hospitality. A		Tourism Education			educational background's impact on sustainable
	Bibliometric Analysis	Balaguer, J., &				development and tourism's role in promoting
40	The role of online tourism		Informa UK Limited,	20/03/23	The research methodology	Online education contributes to psychological
40		•••		20/05/25	involved a web-based survey	
	education and its impact		trading as Taylor &			wellbeing during crises.
	on student wellbeing		Francis Group.		and focus groups to collect	Free course attracted non-traditional university
	during a 'COVID-pause'			/ /	data.	students, enhancing their achievement.
41	EXPLORING THE	JOHN D. NAVARRO	Russian Law Journal	27/04/23	a descriptive research design	The study reveals male students dominate the BS
	EFFECTIVENESS OF					Hospitality Management program at NISU, primarily
	BLENDED LEARNING					from barangays. Blended learning strategies, including
42 1	Dovolonina Dasica	Mariak-	Custoinahilit	17/05/00	A regulat region months della	The study reveals or many animals to the second of the
42	Developing Design	Marieke	Sustainability	17/05/23	A realist review methodology	The study reveals common principles in sustainability-
	Principles for	Versteijlen, and			is used to distil and develop	oriented education, such as self-regulation,
	Sustainability-Oriented	Arjen E. J. Wals			pedagogical principles	community building, and knowledge management,
	Blended Learning in					but lacks self-awareness, orientation towards
43	Visions of blended	John Hill & Karen	Technology, Pedagogy	27/05/23	an interpretative, qualitative	The article highlights the need for strategic
	learning: identifying the	Smith	and Education		study	leadership, governance structures, professional
	challenges and					development, and ongoing support for blended
	opportunities in shaping					learning to normalize and support widespread
44	Factors influencing the e-	Hazem Ahmed	Journal of the Faculty of	01/06/23	This study is quantitative as	The study found a positive correlation between E-
	learning effectiveness and	Khairy Emad	Tourism and Hotels		well as descriptive in nature	learning effectiveness, students' perceptions, and
	its reflection on learning	Abdelaal				quality, contributing to the understanding of barriers
	quality: The role of					in hospitality higher education and offering practical
45	Overcoming Student	Imtiyaz Fawa'ida,	3rd Borneo International	27/06/23	a literature study	The study reveals teachers' lack of technology
	Engagement Barriers of E-	Juntika Nurihsan,	Conference on Islamic			management and classroom interaction skills,
	learning: A Literature	dan Tina Hayati	Higher Education			necessitating technological competency, effective
	Review Study	Dahlan	(BICIHE) 2023			learning materials design, self-efficacy, and online
46	Re-Strategizing Tourism	Mei-jung	Tourism An International	04/07/23	The research methodology	Pandemic accelerated online teaching and
	and Hospitality	Wang,Emmanuel	Interdisciplinary Journal		used in this study is primarily	assessments transition.
	Assessments in a Post-	Opoku, Naipeng			qualitative, focusing on the	Graduate employability skills need further exploration
	COVID-19 Higher	Bu, Aaron Tham			experiences and transitions	
47	Digital Future of the	Mildred Nuong	University of Cape	16-Nov-23	Content analysis method	Hospitality graduates need updated skills for industry
	Global Hospitality	Deri, Neethiahnant	Coast, Taylors University		used for examining previous	demands.
	Industry and Hospitality	han Ari Ragavan			research.	Conceptual framework for technological abilities
_		_	Asia Danifia James - L-f	16/11/00		-
	Digital Future of the	Mildred Deri Nuong		16/11/23	Using the content analysis	Digital technologies are revolutionizing tourism
	Global Hospitality	Neethiahnanthan	Futures in Education and		method	experiences and hospitality business operations,
	Industry and Hospitality	Ari Ragavan	Society			offering innovative ways to educate future
	Education: Review of					professionals and equip them with necessary
49	Challenges in the	Annie	International Journal of	09/12/23	Secondary data was collected	Teachers face challenges in digital technology skills
	Implementation of	Wan,Nurfaradilla	Academic Research in		from the e-learning group of	mastery.
	Blended Learning Before	Mohamad Nasri	Progressive Education		the Ministry of Education.	
	and After Covid 19		and Development		and the second s	
	The Perceived	Wang, M. J., Yang,	Journal of Hospitality &	02/01/24	exploratory research	The study suggests that teachers, as facilitators,
		L. Z., & Yang, W. H.	Tourism Education	32/01/24	exploratory research	monitors, and evaluators in team-based learning,
- 1	Effectiveness of the	L. Z., ox fallg, W. H.	Tourism Education			
	Blended Team-based					provide learners with opportunities to interact,
	Learning (BTBL) Model on			nn /c- :-		cooperate, and share their knowledge.
	Reviewing online learning	Idowu Sulaimon	International Journal of	28/02/24	extensive review of existing	Technological readiness impacts online learning
	effectiveness during the	Adeniyi, Nancy	Science and Research		literature	effectiveness globally.
	COVID-19 pandemic: A	Mohd Al Hamad,	Archive			Socio-economic disparities heighten challenges for
	global perspective	Ololade Elizabeth				vulnerable populations.
52	Meeting the Challenges of	Nehreen	Shanlax international	01/03/24	The research methodology	Developed blended learning framework for tertiary
	Online Education during	Majed, Arjumand	journal of education	,,-	used in the study consists of	education application.
- 1	Covid-19 Pandemic:	Ara,Sarwar R.	j- smar or education		both quantitative and	The study explores the challenges faced by teachers
					' '	
E2	Implications for Blended	Chowdhury	Journal of Hospitality 0	02/04/24	qualitative research	during the online shift of education due to the COVID-
	Examining Instructional	Huang, A., de la	Journal of Hospitality &	02/04/24	Systematic Literature Review	Most studies lack defensible learning theories and
	Technologies in	Mora Velasco, E.,	Tourism Education			adoption theories for educational technologies,
	and the second s					
	Hospitality and Tourism	& Haney, A				requiring further investigation into their benefits



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	The Evolution of	Ricardo Jorge P.	Advances in hospitality,	03-Apr-24	Case studies	Virtual platforms drive innovation and creativity in
	Knowledge Sharing in	Coutinho	tourism and the services			business tourism.
	Post-Pandemic Business		industry (AHTSI) book			Digital technologies enhance industry resilience and
	Tourism		series			adaptability post-pandemic.
	A Review of Blended	Ejuchegahi	International research in	19/04/24	comprehensive literature	Blended learning enhances flexibility and student
	Learning after the COVID-	Anthony	education		review,	motivation.
	19 Pandemic	Angwaomaodoko				Challenges include technological literacy and student
						isolation.
- 1	Factors Influencing	Anshul Garg	Asia-Pacific Journal of	22/04/24	a cross-sectional analysis	The study highlights the positive impact of student
	Student Satisfaction in	Ayson Depayso,	Futures in Education and			performance, lecturer traits, and technical support on
	Online Learning among	Sherry Junette	Society			satisfaction in online classes, despite technical
	Hospitality and Tourism	Tagle and Marina				challenges and the increasing importance of the
	Tourism Education in the	Fangzhou	IntechOpen	04/06/24	This Paper does not explicitly	Tourism education shifts to interdisciplinary
	Post-Pandemic Era	Wan,Minghui			detail a specific research	perspectives post-pandemic.
		Yang,Yubin Xi			methodology, but it discusses	Emphasis on online learning, practical skills, and
					various approaches and	industry collaboration.
- 1	The implementation of	Kristian Florensio	Jurnal Penelitian	01/07/24	The research methodology	Online learning activities have advantages and
	online learning activities	Wijaya	Humaniora (Surakarta)		employed in the study was a	disadvantages for EFL learners.
	during covid-19 outbreak				thematic analysis.	Need for contextual online learning matching EFL
						learners' needs.
	Modelling barriers to	Ming Chi, Yanli	Information Technology	09/08/24	An integrated interpretative	The study reveals immature infrastructure and
- 1	metaverse adoption in	Chen, Yongshun Xu	& Tourism		structural modeling-decision	technology fusion as barriers to metaverse adoption.
	the hospitality and	& Yuetong Wu			making trial and evaluation	It offers a framework for stakeholders to overcome
60	The Feasibility of Remote	Bikash Jyoti	Journal of Educational	26/09/24	Best remote teaching models	Remote teaching is feasible for Hotel Management
	Teaching and Training of	Gautam, Tage	Research and Policies		studied for Hotel	education.
	Hotel Management	Rupa Sora			Management.	Innovative practices are necessary for effective online
					Recommended suitable	training.
61	The benefits of the use of	Nokulunga	Journal of infrastructure,	20/11/24	Content analysis applied to	Online learning promotes independent learning and
	online learning during the	Nokwethemba	policy and development		analyze collected data.	flexibility.
	COVID-19 pandemic	Nkwanyana,	' '		,	Successful implementation involved various strategies
		Omololu Fagbadebo				for teaching.
62	Virtual Teaching and	Suresh Bahadur	Innovative research	10/12/24	Mixed research method with	Widespread familiarity with online tools among
	Learning Activities in the	Diyal, Romkant	journal		an embedded design used.	educators and learners.
	Schools during COVID-19	Pandey			Combined quantitative and	Significant challenges in student engagement and
	Period: Use and				qualitative data for	participation observed.

Image representation of the analysis of collected data in tabular format - Source – creation of the authors (Nightingale, 2009), (Lame, 2019)

## 7. Data Analysis & Result Discussion

For the analysis of the collected data, stages of discussion and examination were conducted based on the methodologies of the screened papers and articles followed by the detailed analysis of the results of these articles in order to draw the outcomes and answers of this research study.

## Challenges identified

Technological Challenges – the study shows that many students and educators face limited access to reliable internet and digital devices, making it difficult to participate in online learning effectively(Borbon & Apritado, 2022). Educational institutions often lack adequate digital infrastructure, further exacerbating these issues. Additionally, technical difficulties such as software malfunctions and connectivity problems create frequent disruptions, making the learning process frustrating for both teachers and students(Ashraf et al., 2021).

Pedagogical Challenges - Delivering hands-on, practical training online remains a major obstacle, particularly in fields requiring physical skills, such as hospitality. (Calderón et al., 2021)The lack of interactive and immersive learning experiences, such as virtual labs or simulations, reduces the effectiveness of online instruction(Bizami et al., 2023). Furthermore, many educators struggle with digital teaching tools due to insufficient expertise, limiting their ability to engage students effectively in a virtual environment.



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Student Engagement and Learning Barriers - Virtual learning often leads to reduced student motivation and participation, as it lacks the interactive and social aspects of traditional classrooms. Developing critical soft skills, such as communication and teamwork, becomes challenging when students are confined to digital platforms(Tourism and Hospitality Department, Oman Tourism College et al., 2021). Prolonged screen time further contributes to fatigue and cognitive overload, making sustained engagement difficult. Institutional and Administrative Barriers - Many institutions lack sufficient funding and support for implementing digital learning resources, making it difficult to transition smoothly to online education. (Hammad & Zohry, 2020)Resistance from educators accustomed to traditional teaching methods further slows down this shift. Additionally, insufficient training programs leave faculty members unprepared to adapt effectively to digital platforms.

Assessment and Evaluation Challenges - Assessing practical skills remotely poses significant difficulties, as digital platforms often fail to replicate hands-on learning experiences. Online exams also face increased risks of academic dishonesty, compromising the integrity of assessments. Furthermore, there is a lack of effective real-time tracking tools, making it difficult to monitor student progress and provide timely feedback.

Industry Readiness Concerns - A major concern in online education is the gap between theoretical learning and real-world industry expectations, particularly in fields requiring hands-on experience. The reduced availability of internships and practical training opportunities further hinders students' readiness for the workforce. Additionally, many employers remain sceptical about the effectiveness of online learning in equipping students with the necessary skills for hospitality and other practical industries.

## **Implementation barriers identified**

Technological Barriers - Many students and educators face limited access to high-speed internet and advanced digital tools, making online learning difficult(Wang et al., 2023). The high costs associated with implementing and maintaining e-learning infrastructure further restrict accessibility. Additionally, technical difficulties and a lack of IT support create ongoing challenges for both educators and students(Tu & Hwang, 2020).

Pedagogical Barriers - Virtual learning struggles to replicate hands-on, experiential training, particularly in practical fields like hospitality. The limited availability of interactive and simulation-based tools reduces engagement. Faculty members, often lacking digital teaching experience, may resist adopting new methods, further slowing progress.

Institutional and Administrative Barriers - Insufficient funding for digital transformation hinders progress in education. A lack of standardized policies for blended learning creates inconsistencies, while inadequate training programs leave educators unprepared for digital instruction.

Student-Cantered Barriers - Many students resist transitioning from traditional classroom learning and struggle to maintain motivation online. Differences in digital literacy levels create learning disparities, making engagement more difficult(Quah & Suid, 2021).

Assessment and Evaluation Barriers - Monitoring student progress remotely is challenging, with increased risks of plagiarism and academic dishonesty. Practical assessments remain limited, particularly for hospitality training(Huang et al., 2024).

Industry Collaboration Barriers - Limited industry involvement in e-learning curriculum design and reduced internship opportunities hinder students' real-world preparedness. Employers also remain sceptical about the effectiveness of online hospitality education.



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## 8. Suggestions & Recommendations

To enhance digital learning, institutions should invest in high-speed internet access, digital devices, and user-friendly learning management systems (LMS), ensuring seamless educational experiences. (Hill & Smith, 2023)Providing dedicated IT support can help educators and students overcome technical challenges efficiently. (Bizami et al., 2023)Pedagogically, incorporating virtual simulations, augmented reality (AR), and interactive videos can make learning more engaging, particularly for practical training. A blended learning approach, integrating online theoretical instruction with in-person sessions, can offer a balanced educational experience. Additionally, training educators in digital pedagogy will improve their ability to engage students effectively(Ali, 2023).

From an institutional perspective, sufficient funding must be allocated to e-learning infrastructure and faculty training, alongside establishing clear policies and guidelines for blended learning. Encouraging a culture of digital adaptability through continuous professional development programs is essential(Fawaida et al., 2023). To improve student engagement, institutions should leverage gamification, discussion forums, and collaborative activities while offering digital literacy training to ease the transition to online platforms(Armellini et al., 2021). Mental health support should also be prioritized to mitigate screen fatigue and maintain motivation.

Assessment methods should evolve to include project-based evaluations, virtual case studies, and AI-driven proctoring for academic integrity. Strengthening industry collaboration through virtual internships, industry-aligned curricula, and hybrid learning experiences will ensure students gain real-world exposure(Zhang et al., 2020), bridging the gap between education and professional requirements.

#### 9. Conclusion

The shift to e-learning and blended learning in tourism and hospitality education post-pandemic has introduced both opportunities and challenges. While digital learning offers flexibility and accessibility, barriers such as technological limitations, pedagogical constraints, and industry readiness concerns remain significant(Al-Maroof et al., 2022). This study highlights key challenges and implementation barriers(Chandra et al., 2022), emphasizing the need for improved infrastructure, faculty training, student engagement strategies, and industry collaboration. By addressing these issues, institutions can enhance digital learning effectiveness and better prepare students for real-world hospitality careers(Deri & Ari Ragavan, 2023). Future research should explore innovative teaching methods and industry-driven solutions to bridge the gap between online learning and practical skills.

## Future Scope for Research

Future research should focus on empirical studies, including surveys and interviews with educators, students, and industry professionals, to gain first-hand insights. Exploring emerging technologies such as virtual reality (VR), artificial intelligence (AI), and gamification in hospitality education could provide valuable perspectives. Comparative studies across different regions and educational institutions can help develop globally applicable e-learning strategies. Additionally, research on the long-term impact of blended learning on student employability and industry expectations will further strengthen digital learning frameworks in tourism and hospitality education.

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