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INSTITUTE OF EDUCATION

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**“Transformative Approaches in
Teaching Learning & Assessment”**

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BOOK OF ABSTRACTS

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THE DIGITAL DIVIDE IN EDUCATION: A STUDY ON PUBLIC AND PRIVATE SCHOOLS - CHALLENGES AND SOLUTION

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ABSTRACT

Education plays a very vital Role in the Society. The digital divide provides a major role in post-covid period. There is a major influence in public and private schools. The students were exposed towards tending changes and challenges in education system which influences the major factor in both public and private schools. The digital divide in education system reflects in the behavior of learning and teaching skills among the students and teachers. It emphasizes on the drastic changes towards the implementing strategy of new polices and curriculum which provides a challenging atmosphere. There is a requirement of the solution which provides a avenue for its students growth and it resulted towards the avenue of educational disparities.

***Key Terminologies:** Digital Divide, Influencing Factor, Challenges and changes, Teaching skills.*

REVOLUTIONIZING EDUCATION: HARNESSING AI AND EMERGING TECHNOLOGIES FOR TRANSFORMATIVE TEACHING AND LEARNING

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ABSTRACT

Education is undergoing a paradigm shift, driven by the integration of Artificial Intelligence (AI) and emerging technologies. These advancements redefine traditional teaching, learning, and assessment methodologies, offering personalized, inclusive, and efficient solutions. This paper explores the transformative potential of adaptive learning platforms, virtual and augmented reality, gamification, and AI-driven analytics. Through global and Indian case studies, it highlights successful implementations and identifies challenges such as data privacy, the digital divide, and the need for teacher training. The paper concludes with actionable recommendations to sustainably integrate these technologies into education, paving the way for a future-ready learning ecosystem.

Keywords: Artificial Intelligence, Emerging Technologies, Transformative Education, Adaptive Learning, Virtual Reality, Gamification, Digital Divide, Ethical Education.

ENHANCING FAULT DIAGNOSIS WITH GNNS USING DYNAMIC EDGE WEIGHTING AND MULTISCALE FEATURES

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ABSTRACT

Class imbalance poses a significant challenge in the fault diagnosis of mechanical systems, as datasets typically contain a disproportionate number of normal samples compared to failure cases. This imbalance can compromise the performance of traditional machine learning models, resulting in biased classifications and reduced accuracy, particularly for minority classes. To address this issue, this paper introduces an innovative Graph Neural Network (GNN)-based framework designed to enhance classification performance in imbalanced data scenarios. The proposed framework incorporates two key components: Dynamic Edge Weighting and Multiscale Receptive Fields. Dynamic Edge Weighting refines graph connections during training, ensuring a more accurate representation of the relationships between samples. Multiscale Receptive Fields enable the model to capture both local and global patterns within the graph, fostering comprehensive feature learning and improving the model's ability to generalize across diverse data conditions. The results consistently demonstrated the framework's superiority over traditional oversampling techniques, including SMOTE and Graph-SMOTE, achieving significantly higher accuracy and AUC-ROC scores. Ablation studies further confirmed the pivotal roles of the Dynamic Edge Weighting and Multiscale Receptive Fields components, highlighting their critical contributions to improving model robustness and adaptability.

Keywords: Fault Diagnosis, Class Imbalance, Dynamic Edge Weighting, Graph Neural Networks, Predictive Maintenance

ARTIFICIAL INTELLIGENCE AS A HURDLE TO LANGUAGE AND LITERATURE: AN UPHILL TO CREATIVITY, ACCESSIBILITY AND CREDIBILITY.

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ABSTRACT

The Cross paths of AI (Artificial Intelligence) and literature present abundant opportunities and unavoidable barriers in understanding and generating authentic literary works. AI has evolved to greater dimensions in Natural Language Processing (NLP). But, AI struggles in replicating literary expressions and contextual understanding. AI created content or literature has hiccups related to originality, understanding emotional depth including metaphors, symbols and perceptions. Literature is regarded as a distinctly human endeavour. Stories, poetry, prose and different genres of literature which are filled with deep emotional truths and author's perceptions are highly valued. On the contrary, AI creates content relying on patterns in pre-existing works leading to absurdity. On the other hand, AI holds the capability to reduce barriers by providing easy access tools for translation, summarising and literary recommendations. This paper analyses and explores the barriers that AI faces while engaging with language and literature. It also explores overcoming the limitations which could reshape the connection between AI and literature while respecting the essence of human creativity.

Key Words: AI, Literature, Barriers, NLP, Contextual Understanding.

RECLAIMING MANGALURU'S WATER EDGE AND EMBRACING ITS NATURAL AND CULTURAL HERITAGE: A CASE STUDY OF MANGALORE SMART CITY LTD

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ABSTRACT

Waterfront development for a city acts as a zone of interaction between the urban and infrastructure development with the water. They serve a variety of functions from being a place of industrial agglomerations, trade and commerce, settlement as well as a breathing space for the city. There are 4 phases in which the evolution of a waterfront can be described; 1st Phase: Emergence of Waterfronts, 2nd Phase: Growth of Waterfronts. 3rd Phase: Decline of Waterfronts. 4th Phase: Rediscovery of Waterfronts. Mangaluru city has already gone through the first 3 phases mentioned above and is marching towards the 4th phase. This Cultural Hub at Bolar Sea Face at Mangaluru will help the city in achieving this 4th Phase. In this article, a brief explanation is given as to how setting up a Cultural Hub beside the Netravathi Riverfront at Bolar Sea Face of Mangaluru will help in developing the Tourism activities in the area and also will help in developing the Community, Revenue Generation, Creating jobs to youths of the local community.

Key words:

Smart city, Cultural hub, Promenade, River tourism, Infrastructure, Mangalore Waterfront, Waterfront development, Reclamation of Water Edges

IMPACT OF STUDY ABROAD AND CULTURAL EXPERIENCES ON STUDENT DEVELOPMENT

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ABSTRACT

This research investigates the multifaceted impact of study abroad programs and cultural immersion experiences on student development. Recognizing the increasing global interconnectedness and the significance of international experiences in higher education, along with the benefits, there are several challenges associated with cross-cultural experiences. A common challenge that students who study abroad face is culture shock. This study aims to explore the impact of study abroad and cultural experiences on student development by understanding how these experiences contribute to cognitive, personal, social, and professional growth. The current study is conducted with thorough analysis of the body of literature from numerous search engines, including Google scholar, Research Gate, academia etc. These gathered data on study abroad, culture shock and student development include journal articles, working paper, reports, books and websites etc. Data analysis will involve analysis to identify key themes and patterns related to the impact of study abroad on student learning, intercultural competence, personal growth, and career development. The findings of this research will provide valuable insights into the benefits of international experiences, inform the development of more effective study abroad programs, and it encounters a diverse range of cross-cultural influences that have a profound and enduring impact on both their personal and professional lives. The paper also contributes to a deeper understanding of the role of global learning in higher education.

Keywords: Study abroad, Cross-cultural experiences, Personal growth, Career development

“A COMPREHENSIVE STUDY ON REBRANDING IN EDUCATION”**MR. DEEPAK I¹ & DR. V BASIL HANS²**¹Research Scholar, Institute of Management and Commerce
Srinivas University, Mangalore. Email: deepakindushekar04@gmail.com²Research Professor, Srinivas University, Mangalore.
Email: Vhans2011@gmail.com ORCID 0000-0003-2713-2188**ABSTRACT**

Rebranding in education involves transforming the image, identity, and perception of educational institutions or systems to align with modern values, objectives, and the demands of the 21st century. It encompasses a broad range of changes, including curriculum updates, innovative teaching methods, infrastructure modernization, digital integration, and community engagement strategies, aiming to make education more relevant, engaging, and effective in a rapidly evolving world. Shifting student demographics, technological advancements, globalization, and the need to align educational outcomes with labor market demands are key drivers of this process. Rebranding addresses challenges such as declining enrollment, negative perceptions of educational results, and public distrust, positioning institutions as hubs of practical and innovative learning. Strategies include establishing a future-oriented vision and mission, updating curricula to include critical thinking, collaboration, and digital literacy, adopting experiential and blended learning methods, and modernizing campuses and digital platforms for accessibility. Additionally, creating a refreshed visual identity—logos, colors, and slogans—reflects the institution's redefined ethos and appeals to its audience. More than just a new symbol or tagline, rebranding involves a comprehensive reevaluation of identity, offerings, and engagement methods. When done thoughtfully, it enhances reputation, attracts a diverse and engaged student body, and ensures long-term sustainability and impact.

Key words: Rebranding, transformation, challenges, innovate teaching methods, critical thinking, collaboration, digital literacy.

REFORMING EDUCATION FOR SUSTAINABILITY: FOSTERING A FUTURE OF INTERCONNECTEDNESS AND ACCOUNTABILITY

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ABSTRACT

The critical problem faced by Education systems around the world is to provide students the values, information, and abilities they need to tackle important global issues including social injustice, biodiversity loss, and climate change. The transforming effect of education in promoting sustainability is examined in this research. The research identifies ways to include sustainability into curricula and teaching methods by looking at creative pedagogies, institutional frameworks, and community-based strategies. It also discusses the obstacles and facilitators of transformative education for sustainability, offering stakeholders, educators, and legislators practical suggestions. The need for sustainable development has become indisputable in light of growing economic instability, social inequality, and environmental deterioration. As a potent tool for social change, education must transform to foster the values, abilities, and knowledge required to meet these difficult problems. This paper examines the urgent need to change education for sustainability, pointing out the drawbacks of conventional methods and promoting an all-encompassing, learner-centered, and action-oriented strategy. We can enable people to become active change agents and contribute to a more just, equitable, and sustainable future by incorporating sustainability ideas into education at all levels, encouraging critical thinking, advancing systems thinking, and involving communities.

Keywords: Education for Sustainability (EfS), Sustainable Development Goals (SDGs) Environmental Education, Social Responsibility, Interconnectedness, Future-Focused Learning.

THE WANING INTEREST OF HIGHER EDUCATION STUDENTS IN ACADEMICS: CAUSES AND COUNTERMEASURES

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ABSTRACT

Background: The declining academic interest among college students in India is an emerging concern, with far-reaching implications for individual growth and national progress. Key contributing factors include systemic educational issues, societal pressures, and evolving career aspirations.

Objectives: This paper aims to identify the causes behind students' waning interest in academics and propose actionable recommendations to address this issue.

Design/Methodology/Approach: This review paper is equipped with qualitative approach to explore the underlying problem, drawing on secondary data collected from a diverse range of sources, including scholarly articles, reputable websites, research reports, and surveys,

Results: Findings reveal that outdated curricula, underqualified teachers, and ineffective assessment methods contribute significantly to disengagement. Technological distractions and societal pressures further aggravate the problem.

Originality/Value: Most of the existing research on this topic has been predominantly descriptive rather than empirical. To address this research gap, it is recommended to conduct further empirical research through a research proposal.

Keywords: Academic interest, higher education, PTR, Syllabus, Pedagogy

A STUDY ON EXAMINING THE ROLE OF SOCIAL AND EMOTIONAL LEARNING IN ENHANCING STUDENT WELL-BEING AND ACADEMIC SUCCESS.

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ABSTRACT

Social and Emotional Learning (SEL) has emerged as a critical component of modern education, aimed at equipping students with skills to manage emotions, build positive relationships, and make responsible decisions. This paper explores the impact of SEL on student well-being and academic success through a review of existing literature and studies. It highlights the theoretical foundations of SEL, key frameworks such as Collaboration for Academic, Social, and Emotional Learning CASEL's five core competencies, and evidence supporting its effectiveness. The paper concludes with recommendations for integrating SEL into educational policies and practices to foster holistic student development. Education today transcends the traditional focus on cognitive development to embrace the holistic growth of students. Social and Emotional Learning (SEL) is an educational approach designed to enhance students' social-emotional competencies, thereby promoting their overall well-being and academic performance. Despite its proven benefits, SEL implementation faces challenges including teacher training, cultural adaptation, and outcome measurement. This paper offers comprehensive recommendations for policymakers, educators, and stakeholders to overcome these barriers and maximize SEL's potential. By embedding SEL into educational systems, we can cultivate resilient, empathetic, and academically successful students prepared to thrive in an increasingly complex world. This paper examines the role of SEL in shaping students' mental health, interpersonal skills, and academic outcomes

Key words: Social and Emotional Learning, Education, Empathetic, Interpersonal skills.

ASSESSING COMPETENCY IN PARAMEDIC EDUCATION: AN IN-DEPTH REVIEW OF CONTEMPORARY PRACTICES

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ABSTRACT

This review explores the evolving landscape of competency assessment in paramedic training, focusing on contemporary practices, challenges, and innovations. As the role of paramedics diversifies, traditional assessment methods are increasingly re-evaluated to align with the complexities of modern practice. The paper analyzes current standards and methods, examines competency-based education's impact on paramedic performance, identifies key challenges in implementing effective assessments, and explores developing technologies in the field. A significant trend towards holistic assessment approaches emerges, incorporating both technical and non-technical skills, which reflect paramedics' multifaceted nature of competence. Competency-based education shows promise in enhancing skill acquisition and retention among students; however, its long-term impact on patient outcomes needs further investigation. Challenges include variability in standards across regions, subjectivity in assessment processes, and resource limitations, particularly in smaller or underfunded institutions. These obstacles highlight the need for standardized frameworks and innovative assessment strategies. Technological advances, such as high-fidelity simulations, virtual and augmented reality, and AI-assisted assessments, offer potential solutions by facilitating more objective, standardized, and comprehensive evaluations. The review outlines several key recommendations for the future development of paramedic education and competency assessment. It emphasizes the need for global harmonization of competency standards, which would ensure that paramedics worldwide meet consistent levels of knowledge, skills, and abilities. Furthermore, the review calls for the implementation of longitudinal studies to track the long-term outcomes of paramedic education and practice, offering valuable insights into the effectiveness of current training methods. It also stresses the development of tools for assessing non-technical skills, such as communication, decision-making, and leadership, which are essential for effective paramedic performance but often lack sufficient assessment frameworks. The overarching aim of these recommendations is to inform and guide educators, policymakers, and researchers in their efforts to enhance the quality of paramedic education, ultimately strengthening the role of paramedics in the healthcare system.

Keywords - paramedic education, competency assessment, and competency-based education.

GRAPH-BASED MACHINE LEARNING MODELS FOR EDUCATION DATA MINING: A REVIEW OF TECHNIQUES AND APPLICATIONS

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ABSTRACT

Education Data Mining (EDM) seeks to uncover patterns in educational data to improve learning outcomes. This review paper explores the rapidly evolving field of graph-based machine learning models in EDM. We present a comprehensive overview of how graph theory and network analysis are applied to represent relationships among students, resources, and knowledge concepts. We explore various graph learning methods such as graph neural networks (GNNs), and their applications for tasks such as student performance prediction, knowledge tracing, and learning recommendation. This review also examines the limitations of existing methods and highlights future research directions, promoting the development of more effective and personalized learning solutions.

Keywords: Graph-Based Machine Learning, Education Data Mining (EDM), Graph Neural Networks (GNNs), Student Performance Prediction, Knowledge Tracing

REVIEW ON APPLICATIONS OF GRAPH THEORY IN EDUCATION**MS. KAVANA N & MS. ROOPASHREE M**

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This review focuses on how graph theory and geometry can be used to build critical thinking skills for mathematics at the secondary school level. Focusing on research conducted in Mbulu District, Tanzania, the study brings out challenges facing students when solving mathematics and how graph theory could help improve the ability to solve problems and to analyse. The review analyses key concepts such as complete graphs, cycles, wheels, shortest paths, planar graphs, trees, vertex, and edge colouring concerning their applicability to a classroom setting. Synthesis: A build of varied studies brings forth how these mathematical tools usually direct evidence-based logical reasoning, pattern recognition, and decision-making. Graph theory activities promote students to think deeply about mathematics through a structured and fun learning environment that can lead them to future STEM pursuits. The review emphasizes the importance of applying the methods to real-life experiments and researches to prove the effectiveness of the methods. In short, it advocates the establishment of graph theory into the education system for upper secondary students. It's such a revolution mode of teaching about mathematics problems while developing thoughtful reasoning.

Keywords: Geometry in Education, Critical Thinking Skills, STEM Education, Graph Theory Applications, Curriculum Development.

NAVIGATING THE EDUCATIONAL LANDSCAPE: A COMPREHENSIVE SURVEY AND ANALYSIS OF KNOWLEDGE GRAPH CONSTRUCTION AND APPLICATIONS IN EDUCATION

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ABSTRACT

The transformative potential of knowledge graphs (KGs) in education is becoming increasingly evident. This paper presents a detailed systematic literature review (SLR) of 48 relevant publications (2011–2023), examining the methodologies, applications, challenges, and future directions for KGs in education. Our findings highlight KGs' prominence in higher education, with a focus on personalised learning and curriculum design. In addition, the importance of context-aware approaches, standardized evaluation metrics, scalability, ethical considerations, and privacy are emphasized. This extended survey offers a deeper analysis of existing technical implementations, uncovers important research gaps, and proposes future opportunities to guide research and practical application of KGs within the educational domain.

Keywords: Knowledge Graphs (KGs), Personalized Learning, Curriculum Design, Educational Technology, Systematic Literature Review (SLR)

Leveraging AI and Emerging Technological Learning

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ಪೀಠಿಕೆ

“Invention are good or bad by itself, it is how we make use of it” ಯಾವುದೇ ಅನ್ವೇಷಣೆಗಳನ್ನು ನಾವು ಹೇಗೆ ಬಳಸುತ್ತೇವೆ ಎಂಬುದರ ಮೇಲೆ ಒಳ್ಳೆಯ ಮತ್ತು ಕೆಟ್ಟ ಆವಿಷ್ಕಾರಗಳೆಂದು ವಿಭಾಗಿಸಲ್ಪಡುತ್ತದೆ. ಪ್ರಸ್ತುತ ಸನ್ನಿವೇಶದಲ್ಲಿ ತಂತ್ರಜ್ಞಾನ ಕಲಿಕೆ ಎಂಬುದು ಬಹಳ ವೇಗವಾಗಿ ಮುನ್ನಡೆಯುತ್ತಿರುವ ಕ್ಷೇತ್ರವಾಗಿದೆ. ಅದರಲ್ಲೂ ಸಾಮಾಜಿಕ ಜಾಲತಾಣಗಳಿಂದಲೂ ಮುಂದುವರೆದೂ ಕೃತಕ ಬುದ್ಧಿಮತ್ತೆಯನ್ನು ಪ್ರತಿಯೊಂದು ಕ್ಷೇತ್ರಗಳಲ್ಲೂ ಅಳವಡಿಸಲೂ ಅಭಿವೃದ್ಧಿ ಪಡಿಸಲಾಗುತ್ತದೆ. ಒಂದು ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಹೊಸತನವನ್ನು ಪ್ರತಿನಿತ್ಯ ತರಲು ಸಹಾಯ ಮಾಡುವಲ್ಲಿ ಕೃತಕ ಬುದ್ಧಿಮತ್ತೆ ಎಂಬುದು ಸಿದ್ಧವಾಗಿದೆ. ತನಗೆ ತಾನೇ ತನ್ನ ಕಲಿಕೆಯಲ್ಲಿ ಮುಂದುವರಿಯುತ್ತಿರುವ ಇದು ಮನುಷ್ಯನ ಬುದ್ಧಿಶಕ್ತಿಯ ಮುಂದೆ ಸ್ಪರ್ಧೆಗೆ ನಿಲ್ಲುವಲ್ಲಿ ಯಶಸ್ಸನ್ನು ಪಡೆಯುವಲ್ಲಿ ಮುನ್ನಡೆ ಇಡುತ್ತಿದೆ. ಮನುಷ್ಯನ ಬುದ್ಧಿಶಕ್ತಿಗಿಂತ ಹೆಚ್ಚು ಬುದ್ಧಿಮತ್ತೆ ಇರುವಂತಹ ಒಂದು ಕಂಪ್ಯೂಟರ್ ಪ್ರೋಗ್ರಾಮಿಂಗ್ ಎನ್ನಬಹುದು. ಮಾನವನ ಜೀವನಕ್ಕೆ ಉಪಯೋಗವಾಗುವಂತಹ ಕೃತಕ ಬುದ್ಧಿಮತ್ತೆಯೂ ಇವೆ. ಆದರೆ ಅದು ದುರುಪಯೋಗವಾಗುವ ಸಂದರ್ಭವೂ ದೂರವಿಲ್ಲ ಎಂಬುದೂ ಸುಳ್ಳಲ್ಲ. ಮಾನವನು ಆಲೋಚನೆಯೊಂದಿಗೆ ಉತ್ತಮ ಚಿಂತನೆಗಳನ್ನು ನಡೆಸಿ ತನ್ನ ಸುತ್ತಮುತ್ತಲಿನ ಪರಿಸರದೊಂದಿಗೆ ಸಂಬಂಧವನ್ನು ವಿವೇಚಿಸುವುದರೊಂದಿಗೆ ನಿಸರ್ಗದ ಶಕ್ತಿಗಳನ್ನು ತನ್ನ ಜೀವನದ ಅವಶ್ಯಕತೆಗಳಿಗಾಗಿ ವಿವಿಧ ರೀತಿಯ ಸಾಧನೋಪಾಯಗಳನ್ನು ಸೃಷ್ಟಿಸಿದ. ಮಾನವನ ಅವಶ್ಯಕತೆಗಳು ಹೆಚ್ಚಿದಂತೆ ವಿಜ್ಞಾನ ಕ್ಷೇತ್ರದ ಅಭಿವೃದ್ಧಿಯೂ ಆಯಿತು. ತಂತ್ರಜ್ಞಾನದ ಫಲದಿಂದ ಮಾನವನ ಜೀವನ ಶೈಲಿ, ಬುದ್ಧಿಶಕ್ತಿ, ಕೌಶಲ್ಯ ಹಾಗೂ ಪರಿಣತಿಗಳು ವಿಶೇಷವಾಗಿ ಬೆಳೆದಿವೆ. ಮಾನವನು ವಿಜ್ಞಾನ ವೈದ್ಯಕೀಯ ತಾಂತ್ರಿಕ ಇತ್ಯಾದಿ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ನವೀನತೆಯನ್ನು ಕಂಡುಕೊಂಡ ಅಂತೆಯೇ ಶಿಕ್ಷಣ ಕ್ಷೇತ್ರದಲ್ಲೂ ನವೀನತೆಗಳನ್ನು ಕಂಡುಕೊಂಡಿದ್ದಾನೆ.

ಮುಖ್ಯಪದಗಳು: ತಂತ್ರಜ್ಞಾನ, ಕಲಿಕೆ, ಕೃತಕ ಬುದ್ಧಿ ಮತ್ತೆ

THE ROLE OF SMART BOARDS IN ENHANCING ENGLISH LANGUAGE TEACHING AND LEARNING: A CRITICAL ANALYSIS

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ABSTRACT

This study evaluated the effectiveness of Smart Board technology in teaching English language. An experimental design involved 40 students, divided into an experimental group using Smart Boards and a control group taught with traditional methods. Pre-test and post-test assessments were conducted to measure student achievement. The results showed that the experimental group outperformed the control group, with a statistically significant difference ($p \leq 0.05$). Post-test scores for the experimental group also demonstrated notable improvement, highlighting the positive impact of Smart Board technology in English language teaching and learning and its outcomes. The study concluded that Smart Boards significantly enhance classroom instruction and student performance, providing more engagement and interactive opportunities than traditional teaching methods. The null hypothesis was rejected, supporting the potential of Smart Boards in English language teaching and learning and improving educational practices.

Keywords: Smart Board technology, experimental research, student achievement, teaching methods, computer applications.

**"DIGITAL TRANSFORMATION IN EDUCATION: ASSESSING THE
INFLUENCE OF MODERN TECHNOLOGY ON LEARNING
OUTCOMES"**

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ABSTRACT

The digital transformation in education has significantly reshaped teaching methodologies and learning experiences. This paper examines the impact of modern technology on learning outcomes, exploring both the benefits and challenges associated with integrating digital tools into educational settings. Through a comprehensive review of current literature and case studies, we assess how technological advancements influence student engagement, academic performance, and overall educational effectiveness.

Keywords: Education, Teaching Methodologies, Learning Outcomes, digital tools

EFFECTIVENESS OF OUTDOOR TEACHING STRATEGY ON SECONDARY SCHOOL STUDENTS ACHIEVEMENT

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ABSTRACT

This paper investigated the effect of outdoor teaching activities on secondary school students. Achievement in Science. Three research questions and four null hypotheses guided the study. The Study adopted single group Pre-test Post-test experimental design. The study was conducted in Mangalore North cluster of Dakshina Kannada district Karnataka State and has a target population of 9000 Students from government secondary school. A total of 30 students were sampled from the intact classes from one school for the experimental study. Achievement Test in Science consisting of 80 items constructed and standardized by the researcher was used for data collection. Data collected were analysed using Mean, Standard deviation and “t” test. Data analysis results shows that there is a significant difference in Pre-Test and Post-Test scores of “Achievement Test in Science” among boys and girls students. The study revealed that students taught using outdoor teaching strategy is effective to enhance student’s acquisition of science concepts irrespective of gender.

Keywords: Outdoor activities, Achievement in Science, lecture method, Gender

DESIGN SIMULATATE AND LAYOUT OF LOW DROP OUT VOLTAGE REGULATOR

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ABSTRACT

The design and analysis of a low drop-out (LDO) voltage regulator implemented using 90nm CMOS technology. LDO regulators are critical components in modern integrated circuits for providing stable and noise-free power supply voltages to sensitive analog and digital blocks. The proposed design focuses on achieving high power efficiency, low output voltage ripple, and excellent line and load regulation, all while maintaining a compact footprint suitable for advanced semiconductor technologies. The LDO architecture incorporates a high-gain error amplifier, an ultra-low quiescent current pass transistor, and an optimized feedback network to achieve superior performance metrics. Key design challenges, such as stability over varying load conditions and minimization of power dissipation, are addressed through the implementation of frequency compensation techniques and careful layout optimization. Simulations conducted using a 90nm CMOS technology. The power supply rejection ratio (PSRR) is enhanced to suppress high-frequency noise effectively. The proposed LDO regulator is well-suited for applications in portable devices, IoT sensors, and advanced communication systems requiring low power consumption and high reliability.

Keywords: LDO, 90nm CMOS technology, high power efficiency, low output voltage.

TRANSFORMING EDUCATION WITH TECH

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ABSTRACT

Education is undergoing a significant shift, driven by rapid technological advancements, changing societal needs, and the evolving expectations of learners. Traditional methods of teaching, learning, and assessment, which emphasize rote memorization, standardized testing, and teacher-centered instruction, are increasingly recognized as insufficient for preparing students for the demands of the 21st century. In response, transformative approaches are gaining momentum, focusing on fostering critical thinking, creativity, collaboration, and adaptability. Transformative teaching redefines the role of educators as facilitators of active learning, where students engage in meaningful exploration and application of knowledge. It emphasizes personalized and student-centered learning environments, experiential learning opportunities, and the integration of technology to enhance engagement and accessibility. Learning shifts from passive knowledge consumption to active participation, where students construct their understanding through reflection, problem-solving, and collaboration. Assessment practices are also evolving to align with these progressive methodologies. Traditional summative assessments are being supplemented or replaced by formative and authentic assessment strategies. These include real-world projects, performance tasks, self-assessments, and peer evaluations that measure higher-order thinking skills, creativity, and practical competencies. Feedback becomes a dynamic and continuous process, empowering learners to take ownership of their progress and adapt their approaches to learning. This introduction sets the stage for an in-depth exploration of transformative approaches in teaching, learning, and assessment. It highlights the importance of equipping students with the skills and mindsets needed to thrive in a complex, interconnected, and constantly changing world. By fostering innovation, inclusivity, and reflective practices, educators can create impactful learning experiences that promote lifelong learning and global citizenship.

Key words-critical thinking, self-assessments, higher-order thinking, learning, and assessment, innovation, lifelong learning

"EMPOWERING ENGLISH LANGUAGE LEARNING THROUGH TECHNOLOGY: THE IMPACT OF ONLINE LEARNING APPS"

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ABSTRACT

The rapid advancement of technology has brought transformative changes to language education, with online learning applications leading the way in improving English language proficiency. These apps provide learners with interactive, engaging, and self-paced tools that enhance essential language skills such as reading, writing, listening, and speaking. Leveraging features like gamification, adaptive feedback, and real-time communication, platforms like Duolingo, Babbel, and Memorise have become indispensable resources for language learners. This article examines the role of online learning apps in fostering English language acquisition, highlighting their potential to address diverse learner needs. By offering a flexible and personalized approach, these apps promote learner autonomy and motivation, enabling students to progress according to their capabilities. Furthermore, they bridge geographical barriers, making quality language resources accessible to a global audience. However, the effectiveness of these tools is influenced by factors such as digital literacy, internet accessibility, and the potential over-reliance on technology. While acknowledging these challenges, this study emphasizes the need for a balanced integration of technology with traditional pedagogical methods. It argues that when used strategically, online learning apps can significantly enhance the English learning experience, equipping learners with the skills needed to thrive in an increasingly interconnected world. In today's digital era, technology has become an integral part of education, revolutionized traditional teaching methods and offering innovative solutions for language learning. English, being a global lingua franca, holds immense significance as a medium of communication, academic pursuit, and professional growth. The demand for proficiency in English has led to the emergence of numerous technological tools designed to make learning more effective, engaging, and accessible. Among these, online learning applications have gained particular prominence, transforming how learners acquire language skills.

Keywords: Online learning, technology and pedagogy. language learning app.

**A STUDY ON ROLE OF TECHNOLOGY IN EDUCATION: ENHANCING
LEARNING OUTCOMES. WITH SPECIAL REFERENCE TO
MANGALURU CITY**

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ABSTRACT

The era of 21st century is often regarded as the era of technology. Today technology plays an important role in our life. It is possible only through technology that distances are no more barriers and education can be brought to the student's doorstep. The impact of technology can be felt in every possible field and one such field is education. The swift progression of technology has resulted in significant transformation across multiple domains of human existence, including the field of education. This study examines the critical role that technology plays in education, as well as how it affects learning objectives. Earlier classroom was the only mode of Education by reading books and taking down notes. But in today's era education is becoming paperless through technology. The term "technology in education" comprises of two terms viz. technology, which means the practical application of scientific knowledge to aid and augment human abilities, senses, intellect, efforts and productivity. Education on the other hand refers to the process of acquiring socially desirable knowledge, skills and values by learning and instruction. Technology in education therefore conclusively refers to the use of variety of technological tools (audio and visual aids, communication media, computer internet etc.) and application for instruction learning. Education technology is an organized process of applying modern technology to improve the quality of education. It is a systematic way of conceptualizing the educational process. i.e. learning and teaching and help with the application of modern educational teaching techniques. The structured questionnaire was used as a research tool. Primary data was collected from 80 respondents in Mangalore city.

Key Words: Technology in education, learning outcomes

**INSPIRATIONAL FICTION FOR CHILDREN: A CRITICAL ANALYSIS
OF SELECT WORKS OF SUDHA MURTHY**

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ABSTRACT

Sudha Murthy is a name that resonates deeply with readers of all ages, particularly children. A distinguished writer, philanthropist, and social worker, Murthy's ability to craft stories that are both heartwarming and impactful has made her one of the most celebrated authors in contemporary Indian literature. Her works for children are not just stories; they are a rich source of wisdom, instilling virtues like kindness, empathy, courage, and resilience in young readers. This article delves deeper into the inspirational themes of select works by Sudha Murthy, examining how her simple, relatable storytelling leaves a lasting impression on children's minds and hearts.

Key Words: Sudha Murthy, Child literature, Society, Education, Narratives

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