



INSPIRE ZONE

Ambalika Institute Of Management And Technology
DEPARTMENT OF APPLIED SCIENCES
DEPARTMENTAL MAGZINE – (JULY 2023)



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From HoD Pen



Mr. Sunil Kumar Singh
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Dear Students,

I am delighted to extend my warmest regards to the members of our esteemed academic community. As the coordinator of applied science, I take immense pride in the remarkable accomplishments and unwavering dedication demonstrated by each of you.

Our department stands as a beacon of academic excellence, fostering innovation, critical thinking, and collaborative spirit among students and faculty alike. Together, we navigate challenges, celebrate achievements, and inspire positive change in our ever-evolving world.

I commend the editorial team and contributors for their outstanding work in bringing this magazine to life. Your creativity and passion are truly commendable.

I encourage everyone to explore the insights and stories shared within these pages. May they inspire us to continue our pursuit of excellence and collective growth.

Best regards



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Inside This issue

Dear Readers,

Welcome to the latest edition of our Student Academic Magazine! It is with great pleasure that we present to you a collection of insightful articles, thought-provoking essays, and inspiring stories that reflect the vibrant intellectual landscape of our academic community.

In this edition, we celebrate the spirit of academic excellence that permeates every corner of our institution. As students, scholars, and lifelong learners, we embark on a journey of growth and discovery, guided by our insatiable curiosity and passion for knowledge.

At the heart of our academic pursuits lies a commitment to intellectual rigor, critical thinking, and innovation. Whether we are delving into the depths of scientific research, exploring the nuances of literature and the arts, or analyzing complex societal issues, we approach our studies with a sense of purpose and determination.

In the pages that follow, you will find a diverse array of topics and perspectives, each offering a glimpse into the myriad interests and talents that define our community. From groundbreaking research projects to personal reflections on the joys and challenges of academic life, these contributions reflect the richness and depth of our collective experience.

As we navigate the complexities of the modern world, it is more important than ever to embrace the values of tolerance, empathy, and intellectual curiosity. Our academic journey is not merely about accumulating knowledge, but about understanding the world around us, engaging with diverse perspectives, and striving to make a positive impact on society.

In closing, I would like to extend my deepest gratitude to the contributors, editors, and staff who have worked tirelessly to bring this magazine to life. Your dedication and passion are truly inspiring, and I am proud to be part of a community that values scholarship, creativity, and collaboration.

I invite you to dive into the pages of this magazine with an open mind and a sense of curiosity. May the ideas and insights shared here ignite your imagination, spark new conversations, and inspire you to continue your own journey of academic exploration and discovery.

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Navigating Educational Challenges Amidst Global Conflict

In an era marked by geopolitical tensions and armed conflicts, the ripple effects of war extend far beyond the battlefield, impacting every aspect of society, including education. Across different regions of the world, students, teachers, and educational institutions face unique challenges that threaten to disrupt learning and hinder progress. From displacement and trauma to resource shortages and infrastructure damage, the obstacles confronting education in times of war are multifaceted and complex.

One of the most immediate and devastating consequences of conflict is the displacement of populations, including students and teachers. Forced to flee their homes in search of safety, many find themselves in overcrowded refugee camps or temporary shelters, where access to education is limited or nonexistent. For these individuals, the disruption of schooling not only deprives them of valuable learning opportunities but also exacerbates feelings of uncertainty and instability.

Moreover, the trauma and psychological impact of war can have profound effects on the learning process. Children and adolescents who have experienced violence or witnessed conflict firsthand may struggle to concentrate, engage with academic material, or form meaningful relationships with peers and teachers. Addressing these emotional and psychological needs is essential for creating a supportive learning environment where students feel safe, valued, and empowered to succeed.

In addition to the human toll, armed conflict often results in the destruction of educational infrastructure, including schools, libraries, and laboratories. The loss of these vital resources not only disrupts the continuity of learning but also deprives entire communities of the tools and facilities needed to cultivate knowledge and innovation. Rebuilding and restoring educational infrastructure in post-conflict settings is a daunting task that requires sustained investment, coordination, and collaboration among governments, humanitarian organizations, and local communities.

Furthermore, the economic impact of war can strain already limited resources, making it difficult for governments to allocate funds to education. With competing priorities for reconstruction, security, and basic services, education may be relegated to the sidelines, further exacerbating existing inequalities and widening the gap between the privileged few and the marginalized many. Investing in education, however, is not only a moral imperative but also a strategic necessity for building peaceful, prosperous societies that are resilient in the face of adversity.

Despite these formidable challenges, there is hope on the horizon. Across the globe, educators, activists, and policymakers are working tirelessly to ensure that education remains a priority, even in the midst of conflict.



Navigating Educational Challenges Amidst Global Conflict

From makeshift classrooms in refugee camps to innovative distance learning programs, initiatives are emerging to provide quality education to those who need it most. By harnessing the power of technology, community engagement, and international cooperation, we can overcome the barriers to education and create a brighter future for generations to come.

In conclusion, the challenges facing education in times of war are immense, but they are not insurmountable. By recognizing the complex interplay of factors at play and committing ourselves to collective action, we can create a world where every child has access to the transformative power of education, regardless of the circumstances into which they are born.

Let us stand together in solidarity with students, teachers, and communities affected by conflict, and work towards a future where education is not a casualty of war, but a beacon of hope for a better tomorrow.

BY

Mr. Dristi Choube, Sec E

Ambalika Institute of Management & Technology



Balancing Education in the Age of Excessive Mobile Device Use

In today's digital age, mobile devices have become ubiquitous tools for communication, entertainment, and learning. While these devices offer unprecedented access to information and resources, they also present significant challenges for educators striving to engage students and foster meaningful learning experiences. The pervasive use of mobile devices, particularly among students, has raised concerns about its impact on academic performance, attention span, and overall well-being.

One of the primary challenges posed by excessive mobile device use is its potential to distract students from their studies. With constant notifications, social media updates, and instant messaging apps vying for their attention, students may find it difficult to focus on classroom lectures, assignments, or homework. The allure of digital distractions can lead to decreased productivity, procrastination, and a decline in academic performance, ultimately hindering the learning process.

Moreover, the addictive nature of mobile devices can have detrimental effects on students' mental health and well-being. Excessive use of social media platforms, online gaming, and streaming services can contribute to feelings of isolation, anxiety, and depression, especially among adolescents who are more susceptible to peer pressure and social comparison. The constant need for validation and instant gratification inherent in digital interactions can erode self-esteem and detract from real-world social connections and interpersonal skills.

Additionally, the reliance on mobile devices for information and communication has the potential to undermine critical thinking and information literacy skills. With a vast array of information available at their fingertips, students may struggle to discern credible sources from misinformation or navigate complex issues with nuance and depth. The ease of access to pre-packaged content and quick answers may discourage independent inquiry and intellectual curiosity, leading to a superficial understanding of topics and concepts.

Addressing the challenges associated with excessive mobile device use requires a multifaceted approach that involves collaboration between educators, parents, and students themselves. Establishing clear boundaries and expectations regarding device use in educational settings can help create a conducive learning environment that minimizes distractions and promotes active engagement. Encouraging mindfulness and self-regulation techniques can empower students to manage their screen time responsibly and prioritize academic tasks.

Furthermore, integrating digital literacy and media literacy education into the curriculum can equip students with the skills they need to navigate the digital landscape critically and responsibly. By teaching students how to evaluate sources, analyze information critically, and engage in constructive online discourse, educators can empower them to become savvy consumers and creators of digital content.



Balancing Education in the Age of Excessive Mobile Device Use

At the same time, fostering a culture of balance and well-being is essential for promoting healthy screen habits and overall academic success. Encouraging students to take breaks, engage in physical activity, and cultivate offline hobbies can help mitigate the negative effects of excessive screen time and promote holistic well-being. In conclusion, while mobile devices offer tremendous opportunities for learning and communication, their excessive use can pose significant challenges for education. By fostering a balanced approach to technology use, promoting digital literacy skills, and prioritizing student well-being, educators can help students harness the power of mobile devices for learning while minimizing the negative impact on academic performance and mental health. Together, we can empower students to navigate the digital landscape responsibly and thrive in an increasingly connected world.

By:

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Navigating the Challenges of Semester Systems: Finding Balance between Teachers and Students

The implementation of the semester system in education has been met with both enthusiasm and skepticism. While it offers benefits such as more focused study periods and increased flexibility, it also presents unique challenges, particularly in the dynamic relationship between teachers and students. As educators strive to adapt to the demands of the semester system, they must navigate the delicate balance between academic rigor and student well-being.

One of the primary challenges posed by the semester system is the accelerated pace of learning. With condensed time frames for instruction and assessment, teachers are often faced with the daunting task of covering vast amounts of material in a limited amount of time. This can lead to increased stress and workload for both teachers and students, as they grapple with the pressure to meet deadlines and achieve academic milestones.

Moreover, the semester system may exacerbate existing disparities in student readiness and preparedness. Students who struggle to keep pace with the fast-paced curriculum may fall behind their peers, leading to feelings of frustration, inadequacy, and disengagement. Teachers, in turn, may feel overwhelmed by the challenge of addressing the diverse needs and learning styles of their students within the confines of a semester schedule.

Furthermore, the semester system can impact the dynamics of the teacher-student relationship. With limited time for meaningful interaction and feedback, teachers may find it challenging to establish rapport with their students, provide personalized support, and nurture a collaborative learning environment. Students, on the other hand, may feel alienated or disconnected from their teachers, leading to a sense of disengagement and apathy towards their studies.

Addressing the challenges of the semester system requires a comprehensive approach that prioritizes the needs of both teachers and students. Educators must strike a delicate balance between academic rigor and student well-being, fostering an environment that promotes learning, growth, and mutual respect.

One strategy for mitigating the challenges of the semester system is to prioritize essential learning outcomes and focus on depth rather than breadth in curriculum design. By identifying core concepts and competencies that are essential for student success, teachers can streamline instruction and assessment, allowing for more meaningful engagement with course material.

Additionally, educators can leverage technology and innovative teaching strategies to enhance the learning experience and foster greater collaboration between teachers and students. Online platforms, virtual classrooms, and interactive multimedia resources can provide valuable opportunities for asynchronous learning, personalized instruction, and peer-to-peer collaboration, thereby supplementing traditional classroom instruction and extending the reach of the semester system.

Furthermore, fostering a culture of open communication and feedback is essential for building trust and mutual understanding between teachers and students. By soliciting input from students on their learning needs, preferences, and concerns, educators can tailor instruction to better meet the diverse needs of their learners and create a more inclusive and supportive learning environment.

BY

Dr. Swati Srivastava
Associate Professor

Ambalika Institute of Management & Technology



Vision & Mission of Institute

Vision of Institute

To nourish the students, blossom them into tomorrow's world class professionals and good human beings by inculcating the qualities of sincerity, integrity and social ethics.

Mission of Institute

1. To provide the finest infra structure and excellent environment for the academic growth of the students to bridge the gap between academia and the demand of industry.
2. To expose students in various co- curricular activities to convert them into skilled professionals.
3. To grind very enthusiastic engineering and management student to transform him into hard working, committed, having a zeal to excel, keeping the values of devotion, concern and honesty.
4. To involve the students in extracurricular activities to make them responsible citizens



Vision & Mission - Department of Applied Sciences

Vision - Department of Applied Sciences

To educate undergraduate students in the field of technology, service, applied sciences, preparing sincere and socially responsible students to thrive and contribute to an ever-changing global society.

Mission - Department of Applied Sciences

1. To provide strong foundation to the students through basic courses and value added teaching in areas of technical fields, innovation, personality development and competitive abilities and guide for their respective discipline.
2. To renders proactive and adaptive services systems those provide students with a flexible yet solid learning infrastructure.
3. To create and propagates knowledge and tools at the interface between areas of engineering, emerging trends industries and other core areas of Applied Science and Humanities.



Programme Outcome

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



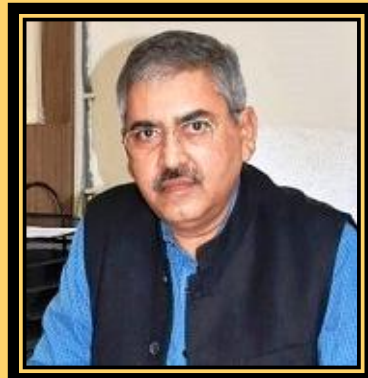
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