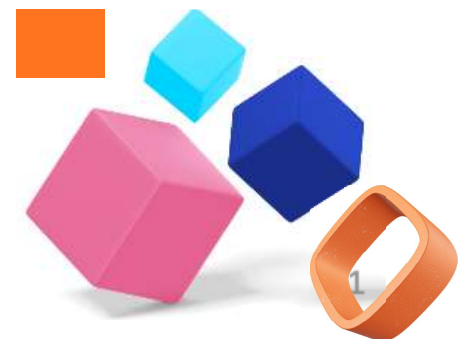




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FAKULTI SAINS KOMPUTER DAN MATEMATIK
UNIVERSITI TEKNOLOGI MARA
CAWANGAN JOHOR



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PREFACE

Praise be to Allah SWT, with His will, this eBook, ICT Trends that Matter, has been successfully compiled to capture some of the most relevant and transformative discussions in the world of Information and Communication Technology (ICT).

The work is a compilation of various views of the different practitioners, scholars, and professionals who have contributed their ideas and thoughts regarding the emerging technologies and their influence. The chapters provide just a few examples of how cybersecurity, big data harmonisation, artificial intelligence, novel learning tools, and social media analytics demonstrate the extent to which ICT has permeated our everyday worlds, our classrooms, workplaces, and communities.

ICT Trends that Matter offers readers a comprehensive exploration of 14 contemporary ICT themes that are shaping education, industry, and society. The eBook covers a wide spectrum of topics such as Big Data & AI, Digital Learning & Tools, Practical ICT Applications, Social Media & Communication and Smart Campus Initiatives highlighting UiTM Johor's experience in developing a data-driven digital ecosystem.

This eBook is informative and inspirational, with contributions that combine theory, research, and practical work. It makes the readers consider the existing ICT issues and opportunities and provides practical knowledge on personal, educational, and professional development. I would like to say that I am very grateful as the chief editor to all the contributors whose commitment, professionalism, and innovativeness have added value to the contents of this eBook. I believe ICT Trends that Matter will be useful to academicians and students, as well as any industry professional, policymaker and those who are keen to learn more about the dynamic ICT environment.

Whether you are an academic, student, or industry professional, ICT Trends that Matter provides valuable insights into the technologies that are redefining our world today. May this work inspire further dialogue, innovation, and collaboration toward building a smarter and more sustainable digital future.

Dr. Shamsatun Nahar Ahmad
Chief Editor
Brain Hub: ICT Trends that Matter

SYNOPSIS

ICT Trends that Matter is a compilation of 14 thought-provoking chapters, which discuss the most significant trends in Information and Communication Technology (ICT) and their implications on education, industry, and society.

The elements cut across essential areas of the digital world. Discussions about the harmonisation of big data and artificial intelligence to fight cybersecurity and comparative studies concerning popular AI tools will be available to the readers. The eBook also highlights innovative approaches to teaching and learning, such as Easymath2U and V-CCMPedia, to improve conceptual learning in calculus, and AI-assisted tools to improve student engagement.

The useful experience is presented with the help of the following topics: computer tips and tricks, free e-learning applications used by children, and the successful utilisation of social media analytics tools. The role of contemporary communication mediums such as Telegram and the global presence of TikTok are also discussed in the chapters, as well as reflections on institutional work towards data-driven digital ecosystems, such as the UiTM Johor RSP16 experience.

This eBook contains the work of numerous scholars and researchers and offers both theoretical insights and practical solutions, which is why it can be of interest to academics, students, practitioners in the industry, or policymakers. ICT Trends that Matter is not merely an anthology of articles but rather is a convenient way to learn about the latest trends in ICT and predict what to expect and what to take advantage of in the digital age.

ACKNOWLEDGEMENT

The Editorial Board of ICT Trends that Matter would like to thank everyone whose assistance and commitment enabled us to make this publication possible.

We would like to thank the Department of Linkage Industry and Alumni, UiTM Johor, Segamat Campus, for enabling the acquisition of eISBN and subsequent guidance throughout the publication process.

A special mention of gratitude belongs to all contributors, whose skills, knowledge and dedication have been instrumental in the content of this eBook. Every chapter is an embodiment of how well, creatively, and committed our writers were to delivering substantial discussions on the current issues in ICT.

We also recognise the unwearying efforts on the part of the Editorial Board, which have been tireless from the very beginning of the conception to the final production of this eBook, which makes it and guarantees its success.

We are most thankful to all who have assisted this undertaking either directly or indirectly. May Allah SWT bless this endeavour and enable it to do good for the readers and the community at large.

TELEGRAM: 9 REASONS WHY WE SHOULD USE IT?

MOHD LEZAM LEHAT

With an ever-growing list of messaging platforms, choosing the right one can be a challenge. However, Telegram has managed to distinguish itself with a rich set of features that cater to both personal and professional users. Whether you're seeking enhanced privacy, versatile communication tools, or seamless file sharing, Telegram offers it all. Here are nine compelling reasons why you should consider using Telegram.

9 Reasons Why We Should Use Telegram



Cloud Storage

Access your data anytime, anywhere; no manual backup needed.



File Sharing

Send files up to 2GB (or 4GB with Premium); perfect for large projects



Group Management

Keep big groups organized with topics and threads



Channels & Supergroups

Broadcast to unlimited subscribers; great for business and education



Enhanced Privacy Options

Secret chats, message timers, hidden numbers



Username Feature

Connect via usernames, not phone numbers



Administration Tools

Role-based permissions, analytics, and engagement tracking



Multi-Device Support

Stay synced on phone, tablet, and desktop



User Interaction

Polls, quizzes, scheduled messages, and customizable bots for engagement

1. Cloud Storage

One of Telegram's standout features is its unlimited cloud storage. Unlike other messaging apps that require you to back up your media manually, Telegram stores all your messages, photos, videos, and documents in the cloud. This means you can access your files from any device without worrying about losing them. Whether you're switching phones or using multiple devices, your data is always at your fingertips, securely stored in the cloud.

2. File Sharing

When it comes to sharing files, Telegram is in a league of its own. Users can share files up to 2GB in size, and premium users can share files up to 4GB. This is a significant advantage over other messaging apps like WhatsApp, which limits file sharing to just 100MB. Whether you're sending high-resolution videos, large documents, or entire project files, Telegram handles it with ease, making it an ideal tool for both personal and professional use.

3. Group Management

Managing large groups can be challenging, but Telegram simplifies this with advanced group management features. Telegram offers topics, threads, and clusters that help organize conversations within large groups. Whether you're managing a small team or a large community, these tools ensure that discussions remain focused and organized, preventing the chaos that often arises in group chats.

4. Channels and Supergroups

Telegram is designed for large-scale communication. It offers Channels, which can have unlimited subscribers, and Supergroups that can accommodate up to 200,000 members. Even for smaller groups, Telegram allows up to 200 members. This makes Telegram an ideal platform for businesses, communities, and influencers who need to broadcast messages to large audiences or manage large groups efficiently.

5. Enhanced Privacy Options

Privacy is a significant concern in the digital age, and Telegram addresses this with a range of enhanced privacy options. Users can hide their phone numbers, engage in encrypted secret chats, and set messages to self-destruct after a certain period. These features give users control over their personal information and ensure that their conversations remain private and secure.

6. Username Feature

Telegram allows users to communicate without sharing their phone numbers by using usernames. This feature is particularly useful for public interactions or when you want to maintain a level of anonymity. Instead of exchanging phone numbers, you can simply share your username, making it easier to connect with others while keeping your personal information private.

7. Administration Tools

For those managing groups or channels, Telegram provides a suite of advanced administration tools. These include setting specific admin roles with varying levels of permissions, and accessing comprehensive analytics to track engagement and activity within the group or channel. These tools are invaluable for businesses and communities looking to manage their communications effectively.

8. Multi-Device Support

One of Telegram's most convenient features is its multi-device support. Unlike many messaging apps that limit you to one device at a time, Telegram allows you to log in from multiple devices simultaneously. Whether you're using your phone, tablet, or desktop, all your messages and media are synchronized across devices, ensuring a seamless experience no matter where you are.

9. User Interaction

Telegram excels in creating an interactive user experience. It offers features like scheduled and silent messages, which allow you to control when and how messages are delivered. Additionally, Telegram supports polls and quizzes, rich media sharing, and extensive customization options, including bots that automate tasks or provide services within the app. These features enhance user engagement and make communication more dynamic and flexible.

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