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E-PROCEEDING

EXTENDED ABSTRACT

UiTM *di hatiku*

اوسها تقوى موليا

E-PROCEEDING

EXTENDED ABSTRACT



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Welcome Message

RECTOR, UITM KEDAH BRANCH

Assalamualaikum warahmatullahi wabarakatuh,

First and foremost, I would like to extend my deepest appreciation to the organising committee of i-SPIKE 2025 for their steadfast dedication and commitment in making this prestigious event a reality. My heartfelt congratulations to the committee for their tireless efforts in ensuring that i-SPIKE continues to grow as a meaningful and impactful platform for academics, researchers, students, and industry players worldwide.

The theme for this year, “Empowering Minds: Bridging Innovation, Knowledge and Education for a Sustainable Future,” is both timely and significant. It reflects our shared responsibility to not only embrace creativity and technological advancement, but also to ensure that innovation directly contributes to sustainable development, equitable education, and the well-being of future generations.

i-SPIKE 2025 provides a dynamic platform for showcasing innovations that address real-world challenges while opening new avenues for collaboration, engagement, and inclusivity. By bridging knowledge, innovation, and education, this symposium strengthens our collective capacity to design solutions that empower communities and inspire positive change.

I am truly impressed by the diversity and calibre of participants in this year’s event. The projects and ideas presented highlight the extraordinary creativity and determination of our innovators. I am confident that the insights and solutions shared here will pave the way for continuous advancement in teaching, learning, and innovation.

It is my sincere hope that you will find i-SPIKE 2025 an enriching experience, one that sparks new ideas, builds lasting collaborations, and strengthens our shared vision for a sustainable future. To all participants, I wish you every success, and to the winners, my warmest congratulations.

Once again, I thank the organising committee, partners, and contributors for their invaluable support. May i-SPIKE 2025 continue to inspire and empower minds for many years to come.

Professor Dr. Roshima Haji Said
Acting Rector
Universiti Teknologi MARA (UiTM) Kedah Branch

Welcome Message (i-SPIKE 2025 CHAIR)

It is my great pleasure to welcome you to the 4th International Exhibition & Symposium on Productivity, Innovation, Knowledge, and Education 2025 (i-SPIKE 2025). This year's theme, "Empowering Minds: Bridging Innovation, Knowledge, and Education for a Sustainable Future," reflects our collective commitment to advancing innovation and fostering meaningful collaboration across academia, industry, and communities.

i-SPIKE 2025 provides a platform for scholars, researchers, students, and practitioners from diverse fields to showcase their ideas, share knowledge, and inspire new solutions to global challenges. We extend our sincere appreciation to all participants and contributors whose efforts and dedication have made this symposium possible.

We hope that this e-proceedings serves not only as a record of the innovations presented but also as a valuable resource that continues to inspire long after the event.

Thank you.

Dr Junaida Ismail
Chair

4th International Exhibition & Symposium on Productivity, Innovation,
Knowledge, and Education 2025 (i-SPIKE 2025)

PREFACE

The 4th International Exhibition & Symposium on Productivity, Innovation, Knowledge, and Education (i-SPIKE 2025) marks yet another milestone in our ongoing commitment to fostering innovation, creativity, and collaboration across disciplines. Guided by this year's theme, "Empowering Minds: Bridging Innovation, Knowledge and Education for a Sustainable Future," the event provides a dynamic platform for students, educators, researchers, and professionals to share their ideas, showcase their innovations, and engage in meaningful knowledge exchange.

This year, we are pleased to report that i-SPIKE 2025 received approximately 50 initial submissions, with more than 35 projects successfully advancing to final presentation and exhibition. These projects reflect a rich diversity of innovation, ranging from educational technologies, digital applications, and gamified learning tools to sustainable materials, cultural heritage preservation, and community-focused solutions. Collectively, they embody the spirit of bridging innovation and education to address pressing societal and global challenges.

We sincerely thank all participants, reviewers, and committee members for their invaluable contributions in making i-SPIKE 2025 a success. It is our hope that this e-proceedings will not only serve as a record of the ideas and innovations presented, but also as an inspiration for future collaborations and advancements in the pursuit of sustainable knowledge and innovation.

Assoc. Prof. Dr. Azlyn Ahmad Zawawi
Editor-in-Chief, i-SPIKE 2025 Proceedings

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CATEGORY 2
SS (ACADEMIC)

KICKRESEARCH V2 MODULE V2: THE FAST TRACK TO RESEARCH WRITING

Azlyn Ahmad Zawawi*

Faculty of Administrative Science and Policy Studies,
Universiti Teknologi MARA (UiTM) Kedah, 08400 Merbok
azlyn@uitm.edu.my

Noorlailahusna Mohd. Yusof

Faculty of Administrative Science and Policy Studies,
Universiti Teknologi MARA (UiTM) Kedah, 08400 Merbok
lailahusna@uitm.edu.my

Intan Syahriza Azizan

Faculty of Administrative Science and Policy Studies,
Universiti Teknologi MARA (UiTM) Kedah, 08400 Merbok
intan219@uitm.edu.my

Nor Ardyanti Ahmad

Faculty of Administrative Science and Policy Studies,
Universiti Teknologi MARA (UiTM) Kedah, 08400 Merbok
ardyanti@uitm.edu.my

Corresponding author*: azlyn@uitm.edu.my

ABSTRACT

KickResearch V2: The Fast Track to Research Writing is a structured and user-friendly research toolkit designed to guide novice researchers through the entire research process efficiently. Built around a unique five-step framework, it enables users to move from topic selection to final reporting in a systematic and time-efficient manner. The module simplifies the complexities of research writing by offering standardized templates and a clear structure, helping users produce high-quality output within a six-month timeline. What sets KickResearch V2 V2 apart is its practical design, which is especially beneficial for individuals with limited research experience or resources. The five steps include refining the research topic, conducting a comprehensive literature review, planning data collection, identifying stakeholders, and drafting the research report. Each phase is supported by an integrated log sheet, a systematic reading template, and a guided writing framework, all of which can be customized to suit different fields and study requirements. With strong potential for academic and industry applications, KickResearch V2 V2 offers a scalable and versatile solution for research training and support. Its practical structure, ease of use, and adaptability make it a valuable asset for students, educators, and early-career researchers seeking a streamlined, effective approach to research writing.

Keywords: research framework, researcher support, research methodology, academic writing, research module.

INTRODUCTION

KickResearch V2: The Fast Track to Research Writing is a structured and accessible research support module developed to assist novice researchers, graduate students, and early-career academics in managing and completing their research projects effectively. The module integrates practical resources such as guidelines, reading templates, and research logbooks that promote a systematic approach to the research process. It is designed to enhance research quality, encourage timely completion, and ensure alignment with research objectives. KickResearch V2 is available on commonly used platforms including Microsoft Teams and Google Drive, making it highly accessible and user-friendly.

The development of KickResearch V2 was motivated by the recurring challenges faced by inexperienced researchers. These challenges include poor time management, lack of methodological clarity, difficulty in accessing research tools, and uncertainty about research writing standards. KickResearch V2 offers a guided pathway to help users overcome these obstacles while cultivating independent research capabilities.

Developments in Research Technology

The academic research landscape has witnessed significant transformations over the past decade, particularly with the integration of digital tools. The increased adoption of project management applications, collaborative software, data visualization platforms, and artificial intelligence technologies has enabled researchers to manage complex data and streamline workflows. Despite the proliferation of these technologies, many research students and early-career scholars continue to face barriers in utilizing them effectively. Complex interfaces, steep learning curves, and a lack of structured training often hinder the adoption of such tools (Ahmadi et al., 2023; Chen et al., 2022). In addition, many researchers struggle with integrating digital tools into the traditional academic research cycle. As noted by Lim et al. (2022), the ability to critically engage with existing knowledge while employing modern tools remains an underdeveloped skill among emerging researchers.

Rationale for KickResearch V2

KickResearch V2 addresses these gaps by offering a complete research support framework that is both intuitive and academically rigorous. Unlike many tools that focus solely on isolated tasks such as data collection or manuscript editing, KickResearch V2 guides the researcher through the entire research process. The module is structured around five key stages: refining the research theme, conducting a literature review, planning data collection, engaging with stakeholders, and initiating the research draft. Each component of the module is accompanied by templates and guidelines designed to enhance clarity and usability. This structure is particularly beneficial to those who are undertaking research for the first time, as it reduces ambiguity and promotes confidence in handling complex academic tasks. The six-month timeline embedded within the module encourages time-bound progress and helps users develop habits aligned with professional research practice. The inclusion of collaboration features further promotes accountability and feedback-driven improvement, which are essential in both academic and applied research contexts.

METHODS & MATERIAL

KickResearch V2 was developed by analyzing the requirements of research students and early career researchers. The process began by identifying common obstacles encountered by individuals initiating and concluding research projects, including challenges related to time management, organization, and information overload. The primary objective was to create a comprehensive module that addresses these obstacles and provides support to researchers throughout their project journey. This module is designed to be suitable for a wide range of users, including early-career researchers starting new projects, graduate students embarking on research endeavors, and undergraduate students eager to delve into research or initiate their own projects. By offering comprehensive guidelines, reading templates, and research logbooks, KickResearch V2 presents a user-friendly and streamlined approach to research, enabling users to save time, enhance research quality, and stay on track with their project objectives. Its main aim is to provide a complete research package that assists early-career and inexperienced researchers in efficiently commencing and completing their projects.

FINDINGS

The KickResearch V2 module presents a practical and structured framework for researchers to navigate the research process, guiding them through key project stages within a designated 6-month timeline. These stages encompass refining the research topic, conducting literature reviews, planning data collection, identifying and engaging stakeholders, and commencing the research draft. KickResearch V2 provides a logbook and reading template as tools to aid researchers in tracking their progress and recording important notes. The 6-month timeline is designed to accommodate the constraints commonly faced by early-career researchers, such as limited resources, funding, and time. By establishing specific milestones and deadlines, researchers can effectively manage their time, ensuring steady progress and increased productivity. This timeframe allows for thorough research, data analysis, and the preparation of comprehensive reports or publications that carry significance. KickResearch V2 offers a comprehensive array of resources and support, enabling researchers to successfully execute their research projects. Its structured approach streamlines the research process, resulting in the production of high-quality research outputs.

Table 1. KickResearch V2 Module Timeline

Steps/months	M1	M2	M3	M4	M5	M6
1. Refine the research topic & theme						
2. Read, read, and read!						
3. Plan the data collection process						
4. Establish contact with stakeholders						
5. Start the research draft						

The KickResearch V2 module offers a step-by-step approach to the research process, guiding researchers through key stages within a 6-month timeline. These steps aim to streamline the research process, enhance research quality, and ensure timely completion.

1. Step 1 focuses on refining the research theme. Researchers are advised to choose a specific and manageable topic within the given timeframe. Initial research is conducted to understand the subject matter, assess feasibility, and identify gaps in knowledge. This stage lays the foundation for a successful research project.
2. Step 2 emphasizes conducting an extensive literature review. Researchers search for relevant articles, books, and online sources, including social media platforms, to gather insights and identify potential data sources. Critical evaluation of sources is crucial, considering their quality and validity. Taking detailed notes and continuously reading help researchers stay updated and refine their research questions and designs. There is a crucial need for researchers to contribute to the body of knowledge by conducting literature reviews that offer new insights or perspectives on a particular topic (Lim et al., 2022).
3. Step 3 involves planning data collection. Researchers carefully determine the types of data to be collected (qualitative, quantitative, or both) and align them with current trends. The selection of appropriate methods and developing a data collection plan, including timelines and quality assurance measures, contribute to robust research. At this stage, it is advisable for researchers to plan the analytical tools that will be utilized during the data analysis phase, as the selection of appropriate tools can assist in streamlining the research process (Lesnikowski et al., 2019).
4. Step 4 focuses on engaging stakeholders. Researchers identify and involve individuals or groups impacted by or having an interest in the research. Analysis of potential impacts and consultation with experts aid stakeholder identification. Effective communication channels, regular updates, and soliciting feedback facilitate stakeholder engagement.
5. Step 5 entails starting the research draft. Researchers organize their notes and data, following a structured format. The draft should be clear, concise, and objective, adhering to journal or publication guidelines. Multiple rounds of revisions and editing ensure a high-quality output.

KickResearch V2 Module package: Log sheets, reading template, and writing guide to assist researchers

The KickResearch V2 Module offers comprehensive resources for early-career researchers, including log sheets for tracking progress, a reading template for organizing information, and a writing guide for improving research reports. These tools aid in staying organized, synthesizing information, and enhancing research quality.

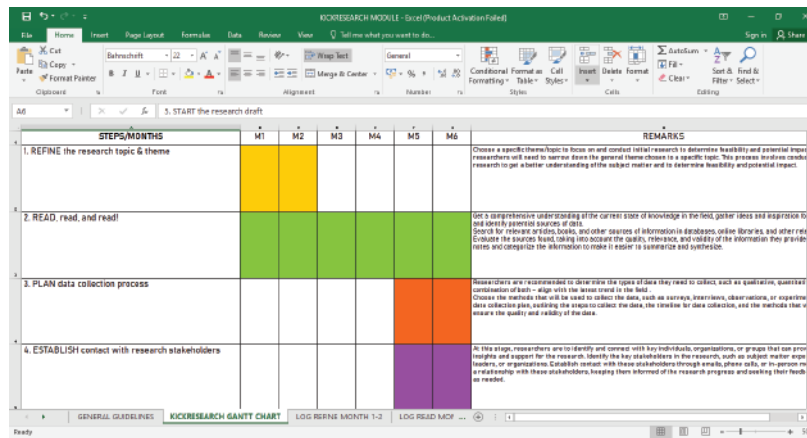


Figure 1. KickResearch V2 Module (Gantt Chart)

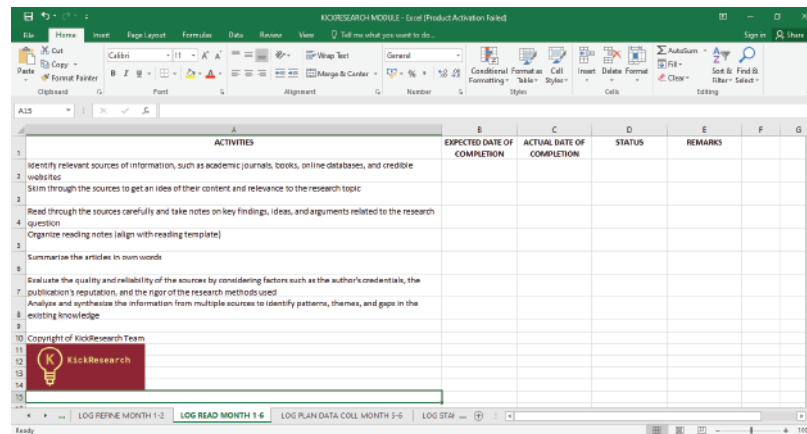


Figure 2. KickResearch V2 Module (Log sheets)

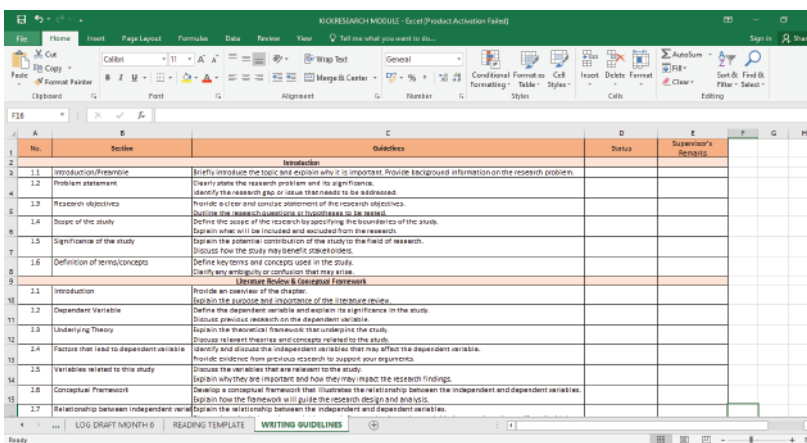


Figure 3. KickResearch V2 Module (Writing guidelines)

Novelty of KickResearch V2 Module

The KickResearch V2 Module introduces several novel features that set it apart from traditional research frameworks (Table 2).

Table 2. Novelties of KickResearch V2 Module

Novelty	Elaboration
Comprehensive Research Module	KickResearch V2 offers a complete package for researchers starting a new project, including guidelines, templates, and tools to facilitate the research process.
User-Friendly Platform	The module is designed to be user-friendly, making it accessible to a wide range of users, from undergraduate students to industry professionals.
Customizable Features	KickResearch V2 allows users to tailor the research process to their specific needs, providing a flexible framework for conducting research.
Emphasis on Collaboration	The module encourages collaboration and communication among research team members, providing a platform for sharing ideas, tracking progress, and resolving issues.
Focus on Efficiency	By providing a structured framework for research, KickResearch V2 helps researchers save time and resources, allowing them to focus on their research questions and hypotheses.

Practicality and Usefulness KickResearch V2 Module

KickResearch V2 offers a structured and comprehensive approach to the research process, making it particularly valuable for beginners and those unfamiliar with research. It provides guidelines, templates, and tools to help researchers plan and execute their projects efficiently. KickResearch V2 enhances research quality by promoting careful planning, thorough documentation, and avoiding common mistakes. It is versatile, and suitable for diverse users ranging from undergraduates to industry partners, fostering collaboration and communication. The provided resources, such as templates and checklists, increase efficiency and productivity by keeping researchers organized and on track. Overall, KickResearch V2 is a practical and beneficial tool for researchers at all levels, enabling them to produce high-quality research effectively.

Table 3. Practicality and usefulness of KickResearch V2 Module

Practicality of KickResearch	Usefulness of KickResearch
Provides a structured approach to the research process, helping guide researchers through planning and execution.	Increases efficiency and productivity by providing tools such as templates and checklists to help researchers stay organized and on track.
Breaks down the research process into manageable steps, making it helpful for beginners and those unfamiliar with the research process.	Enhances the quality of research by promoting careful planning and thorough documentation, which can help researchers produce higher quality work and avoid common mistakes.
Offers guidelines, templates, and tools that can be customized to fit the specific needs of researchers.	Encourages collaboration and communication among team members, which can lead to better research outcomes.
Can be used by a wide range of individuals interested in the research process, from undergraduate students to industry partners.	Saves time and resources, allowing researchers to focus on their research questions and hypotheses.

DISCUSSION AND CONCLUSION

This paper presents the KickResearch V2 module, a user-friendly research package that provides comprehensive guidance throughout the research process. It highlights the module's features and benefits, emphasizing its potential to enhance research quality, efficiency, and productivity. The module offers a structured approach with guidelines, templates, and tools, particularly beneficial for beginners. Its accessibility makes it suitable for various users, including undergraduate students and industry professionals. Furthermore, the module promotes collaboration and communication among research teams, fostering improved outcomes. With potential for commercialization, it can cater to universities, research institutions, and individuals interested in research. Ultimately, the KickResearch V2 module aims to elevate research quality, streamline processes, and facilitate collaboration, making it an invaluable resource across disciplines and contexts.

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