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UNIVERSITI
TEKNOLOGI
MARA

What's *what* PSPM

EISSN: 2756-7729

OKTOBER 2024/VOL 2



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TRANSFORM YOUR FUTURE: MAKE YOUR FINAL YEAR PROJECT A HIGH-IMPACT SUCCESS

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WHY YOUR FINAL YEAR PROJECT MATTERS MORE THAN YOU THINK

High-impact final-year projects (FYPs) are crucial for enhancing students' employability prospects and developing essential skills. FYPs provide a platform for students to apply their knowledge, strengthen problem-solving abilities, and engage in scientific research [1][2]. They allow students to recognize, reflect on, and relate their skill development to future career steps [2]. Collaborations between universities and industry partners on FYPs can provide students with real-world problem-solving experiences, encouraging them to pursue engineering careers [3]. These projects benefit not only students but also industrial partners by offering fresh perspectives on key technical questions.

Your FYP is not just a graduation requirement but an asset that could define your career path. Employers often scrutinize FYPs during interview sessions to gauge your skills, problem-solving abilities, and initiative. A well-executed FYP can capture an employer's attention, sparking interest in your work and leading to job opportunities. It's your chance to stand out, so why not make it impactful?

HOW TO CHOOSE A HIGH-IMPACT FYP TOPIC

To make the most of this opportunity, choose topics that matter, both globally and locally. Here's how to ensure your project is relevant and high-impact:

1. Focus on SDG-Related Topics

Projects that contribute to the Sustainable Development Goals (SDGs) are not only future-focused but also valued by industries worldwide. Whether it's climate action, clean energy, or sustainable agriculture, your FYP can play a role in achieving these global goals.



Figure 1: Elements in SDG

2. Tackle Hot Environmental Issues in Malaysia

Malaysia faces pressing environmental challenges, from deforestation to air pollution. Addressing these issues in your project can have a direct impact on local communities. Projects such as analyzing sinkhole formation in Kuala Lumpur or predicting air quality trends can provide real solutions to real problems.



Figure 2: Sinkhole case on Jalan Masjid India, Kuala Lumpur

3. Choose In-Demand Fields for Your FYP

Projects in emerging and in-demand fields will always attract attention. Whether it's IoT-based agriculture solutions or economic analysis using data science, choosing a trending field ensures your FYP remains relevant to the job market.

FYP IDEAS THAT CAN MAKE A DIFFERENCE

Here are some suggestions to get you started on creating an FYP that stands out:

- **Disaster Management:** Consider projects like rainfall forecasting, flood prediction using water levels, or air pollution analysis. Malaysia has experienced several alarming sinkhole incidents in Kuala Lumpur, offering another possible focus for your FYP.
- **Agriculture:** Using IoT to monitor soil quality or predict fruit maturity can help farmers maximize yields and improve the quality of their crops, providing a meaningful contribution to food security.



Figure: IoT can help farmers improve the quality and quantity of their agricultural products

- **Economy:** Data science can be used to analyze unemployment rates, assess income inequality, or evaluate the effects of changes in minimum wage policies. These insights can help improve the national economy.
- **Sentiment Analysis:** Analyze social media trends around inflation or explore product reviews to provide businesses with valuable consumer insights. This is a fast-growing area with significant real-world applications.

CONCLUSION: MAKE YOUR FYP COUNT

Your final year project is more than an academic exercise. It's your chance to make a difference while showcasing your talents. By focusing on high-impact, relevant topics, you'll not only impress employers but also contribute to solving pressing global and local challenges. Start exploring these ideas today, and make your FYP a powerful step toward a bright future.

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