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*Adab Sebagai Asas
Kecemerlangan Akademik
dan Pembentukan Sahsiah*

*Biar Wasiat Jadi
Suara Terakhir*

*Merungkai Potensi:
Prestasi Pekerja Dalam
Era Kerja Jarak Jauh*

*Motivasi Diri Berdasarkan
Penilaian Prestasi*

*Cabaran dan Keperluan
Graduan Teknologi
Maklumat Dalam Dunia
Pekerjaan Masa Kini*

*"Selamat Ke Kita Ni?":
Meneroka 'OSH'*

*Kursus Pengurusan Operasi
Perkhidmatan - Membentuk
Insan Adabi Cemerlang*



PERJUANGAN YANG BERTERUSAN

Aligning The Faculty of Plantation And Agrotechnology With The Sustainable Development goals (SDG's): A Pathway To Sustainable Agriculture

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The Sustainable Development Goals (SDGs), established by the United Nations in 2015, provide a comprehensive framework for global development, aiming to address pressing social, economic, and environmental issues. The Faculty of Plantation and Agrotechnology (FPA), Universiti Teknologi MARA plays a critical role in advancing sustainable agricultural practices, ensuring food security, and fostering economic resilience within the agribusiness sector. By aligning its teaching, research, and community engagement activities with the SDGs, FPA can contribute significantly to global sustainability efforts.

Key SDG Goals Aligned with the Faculty of Plantation and Agrotechnology

SDG 2: Zero Hunger

FPA's core focus on sustainable agricultural practices directly supports SDG 2, which aims to end hunger and ensure access to nutritious food. The faculty's research into high-yield, climate-resilient crops and efficient plantation management techniques enhances food security at both local and global levels. Additionally, agronomy students are equipped with knowledge on precision agriculture, integrated pest management, and organic farming, ensuring sustainable food production systems.



Figure 1. Students from the Diploma in Agropreneurship (AT113) FPA UTM Sabah Branch proudly showcase their freshly harvested salad products.

SDG 4: Quality Education

As an academic institution, FPA plays a pivotal role in delivering quality education in agricultural sciences. By integrating sustainability concepts into its curriculum, FPA ensures that students acquire knowledge and skills necessary for sustainable agriculture. Moreover, the faculty's outreach programs, workshops, and collaborations with industry stakeholders provide lifelong learning opportunities for farmers and professionals in the agribusiness sector.



Figure 2. FPA's collaborative teaching initiative, featuring an international guest speaker from Universitas Muhammadiyah Sumatera Utara, Medan, Indonesia, sharing valuable expertise in sustainable agriculture and agropreneurship.

SDG 12: Responsible Consumption and Production

FPA advocates for sustainable agricultural practices that minimize environmental impact. Research conducted by faculty members includes innovations in sustainable land use, waste management, and efficient water usage. Encouraging responsible consumption and production ensures that agricultural activities are environmentally friendly, economically viable, and socially responsible.

SDG 13: Climate Action

Agriculture is both a contributor to and a victim of climate change. FPA addresses SDG 13 by integrating climate-smart agricultural techniques into its programs. This includes promoting carbon sequestration through agroforestry, reducing greenhouse gas emissions from plantations, and developing resilient crop varieties that can withstand extreme weather conditions.

SDG 8: Decent Work and Economic Growth

The plantation and agribusiness sectors are key contributors to economic growth, especially in developing nations. FPA supports SDG 8 by promoting sustainable employment practices, training future agribusiness leaders, and fostering entrepreneurship in agriculture. The faculty encourages students to explore value-added agribusiness ventures, such as agro-tourism, organic farming enterprises, and sustainable supply chain management.



Figure 3. Diploma in Agropreneurship (AT113) students proudly showcase their own products, ready to impress in their business pitching session.

SDG 15: Life on Land

Sustainable land management is essential for preserving biodiversity and ensuring long-term agricultural productivity. FPA contributes to SDG 15 by researching and promoting conservation practices such as soil regeneration, afforestation, and sustainable water management. The faculty also collaborates with government agencies and NGOs to develop policies that protect natural resources while supporting agricultural productivity.



Figure 4. FPA UTMCSH lecturers participated in a scientific exploration at Imbak Canyon Conservation Area (ICCA), Sabah to conduct research on soil carbon sequestration.

Strategies to Achieve SDG Alignment

Curriculum Enhancement and Research Integration

To fully align with the SDGs, FPA should continuously revise its curriculum to incorporate sustainability principles. Key initiatives include:

- Introducing specialized courses on sustainable agriculture, climate resilience, and agroecology.
- Encouraging interdisciplinary research on sustainable plantation management, organic farming, and agroforestry.
- Partnering with international universities and research institutions for knowledge exchange on sustainable agricultural practices.

Industry Collaboration and Practical Training

Strong collaboration with the agricultural industry is crucial for achieving SDG targets. FPA can enhance industry linkages by:

- Establishing internship and apprenticeship programs with sustainable agribusiness companies.
- Conducting joint research with the private sector to develop innovative and sustainable agricultural solutions.
- Organizing workshops and training sessions for smallholder farmers on best practices in sustainable farming.

Community Engagement and Farmer Education

Empowering local communities through education and outreach programs is essential for achieving SDGs. FPA can take the following steps:

- Conducting capacity-building programs for small-scale farmers on sustainable land use and water conservation techniques.
- Engaging in participatory research with rural communities to develop locally adapted agricultural solutions.
- Organizing farmer field schools and knowledge-sharing platforms to disseminate best practices.

The Faculty of Plantation and Agrotechnology has immense potential to contribute to the achievement of the SDGs through education, research, community engagement, and industry collaboration. By integrating sustainable practices into its core functions, FPA not only enhances its academic and research profile but also plays a crucial role in shaping a more sustainable agricultural sector. Through continuous innovation and commitment, FPA can drive meaningful progress towards a future where agriculture thrives in harmony with environmental and social sustainability.



THE
STARTING
POINT
OF ALL
ACHIEVEMENT
IS

DESIRE.

- Napoleon Hill