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## Memorandum of Understanding for the UK–Thailand Automotive, Electric Vehicle (EV), and Motorsport Innovation Consortium

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### I. OBJECTIVE

#### Consortium Framework

The Participants hereby reach a mutual understanding to establish an **eleven-party academic consortium** aimed at advancing academic research, education, workforce development, industry collaboration, and strategic international engagement. The initial objective of the Consortium is to establish a **strong, structured, and sustainable scientific and educational network** between the United Kingdom and the Kingdom of Thailand.

The Consortium shall focus on the following areas of cooperation:

- Collaborative curriculum development and specialised training programmes;
- Industry–academia and workforce collaboration in emerging and advanced technology sectors;
- Promotion, development, and strengthening of Thailand’s Electric Vehicle (EV) ecosystem;
- Research and talent development in motorsport engineering, with particular emphasis on motorcycle motorsport and the integration of EV technologies;
- Organisation of Consortium-led conferences, co-design workshops, and international academic and innovation events;
- Student innovation competitions, including Formula One EV and EV motorsport challenges, particularly Formula Student EV competitions aligned with international standards;
- Public–private–academic collaboration to strengthen technology pipelines and promote student and talent mobility between UK and Thai institutions.

#### Consortium Members (11 Parties)

1. Rajamangala University of Technology Thanyaburi – Thailand
2. Rajamangala University of Technology Krungthep – Thailand
3. Rajamangala University of Technology Rattanakosin – Thailand
4. Rajamangala University of Technology Phra Nakhon – Thailand
5. Rajamangala University of Technology Tawan Ok – Thailand
6. Rajamangala University of Technology Lanna – Thailand
7. Rajamangala University of Technology Srivijaya – Thailand
8. Rajamangala University of Technology Suvarnabhumi – Thailand
9. Rajamangala University of Technology Isan – Thailand
10. Mahanakorn University of Technology (MUT) – Thailand  
(Consortium Member and Thailand-side Academic Coordinator)
11. Oxford Brookes University – United Kingdom  
(Consortium Member and UK-side Academic Coordinator)



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### Initial Proposed Activities

- Joint EV and motorsport engineering conferences and symposia, hosted alternately in the United Kingdom and Thailand;
- Co-designed curriculum programmes in EV engineering and motorsport-related micro-credential training;
- UK–Thailand student Formula EV and EV motorsport competitions, including Formula Student EV races and EV-integrated smart mobility events;
- Academic mobility pathways for high-potential engineering students in EV and motorcycle motorsport disciplines;
- Public Consortium-led events promoting Thailand's leadership in EV supply chains, battery technologies, power electronics, and EV motorsport innovation, with particular emphasis on motorcycle EV motorsport.

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The Participants, **willing to cooperate** as Consortium members to jointly advance academic excellence, training, innovation competitions, and industry collaboration in Electric Vehicle (EV) engineering and motorcycle motorsport;

**Considering** the strategic objective of establishing a UK–Thailand academic cooperation network through education, applied research, industry engagement, and Formula Student EV and motorcycle motorsport competitions;

**Motivated** by the shared aim of accelerating academic research and development, talent formation, and international innovation competitiveness through EV engineering systems, Formula Student EV platforms, and advanced motorcycle motorsport technologies, including EV-integrated race-grade electronics and powertrain systems;

**Wishing** to establish a non-binding framework for cooperation that enables joint curriculum development, research collaboration, workforce training, and international student innovation competitions among the eleven Consortium members;

**Acknowledging** the designation of Mahanakorn University of Technology (MUT) as one of Thailand's National Semiconductor Training Centres under the national strategy of the Ministry of Higher Education, Science, Research and Innovation (MHESI), with a mandate to lead and coordinate international collaboration in semiconductor-related education, workforce development, and innovation;

**Acknowledging further** the dual role of MUT as both a full Consortium member and the Thailand-side Academic Coordinator, responsible for facilitating academic integration and technical alignment without exercising governance authority over other Consortium institutions;



Have reached the following



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understanding:



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## **II. SCOPE OF CONSORTIUM COLLABORATION**

All activities undertaken under this Memorandum of Understanding shall directly support the objectives set out in Section I. The Participants agree to collaborate through subsequent institution-to-institution technical or implementation agreements where appropriate. Areas of cooperation include, but are not limited to:

- Academic research and applied R&D collaboration between institutions in the United Kingdom and Thailand;
- Industry-linked innovation initiatives supporting the development of the EV and automotive sectors;
- Joint curriculum co-design, training programmes, and workforce development in EV engineering, motorsport engineering, and motorcycle motorsport technologies;
- Student mobility schemes and innovation competitions in Formula EV and motorsport disciplines;
- Exploration of the establishment of joint or co-created Centres of Excellence (CoEs) as shared platforms for training, applied research, industry engagement, and innovation;
- Development of an industry engagement framework enabling collaboration with domestic and international partners across EV, automotive, motorsport, semiconductor, and smart mobility sectors.

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## **III. UK–THAILAND ACADEMIC NETWORK ESTABLISHMENT**

The Participants agree to initiate and develop a structured academic network between the United Kingdom and Thailand under the Consortium, enabling:

- Faculty, student, and industry expert linkages;
- Co-creation of activities under Centres of Excellence, where applicable;
- Strengthening of knowledge pipelines in EV supply chains, power electronics, battery systems, embedded electronics for motorsport applications, and related biosensor technologies.

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## **IV. FORMULA STUDENT EV AND MOTORCYCLE MOTORSPORT COMPETITIONS**

The Consortium shall support student-led innovation activities, including:

- Formula EV, Formula Student EV, and related EV race challenges;
- EV motorsport innovation events, with particular emphasis on motorcycle motorsport and motorcycle Formula EV;
- Cross-institutional and, where appropriate, cross-national student engineering teams;



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- Hosting of competitions in designed international venues.

Thailand, the United Kingdom, or jointly

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## **V. CURRICULUM CO-DESIGN AND TRAINING PROGRAMMES**

Curriculum development and training activities shall:

- Relate directly to the Consortium's priority domains of EV engineering and motorsport technologies;
  - Where appropriate, be co-designed with UK institutions and aligned with international engineering and motorsport standards;
  - Include modular training, bootcamps, joint masterclasses, conference-linked training, and micro-credentials, where feasible.
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## **VI. INDUSTRY AND EVENT ECOSYSTEM COLLABORATION**

The Consortium shall facilitate:

- Public-private-academic collaboration supporting EV sector industrialisation;
  - UK-Thailand cooperation in knowledge exchange and event organisation related to EV racing, motorcycle motorsport electronics, embedded systems, power systems, and integrated smart mobility;
  - Joint Consortium-led innovation events and competitions showcasing EV supply chain capabilities and motorcycle EV motorsport research and development.
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## **VII. CONSULTATION AND TECHNICAL ALIGNMENT**

The interpretation and implementation of this Memorandum shall be guided by its objectives and scope. The Participants may consult with one another at any time to ensure strategic alignment, academic coherence, and effective functioning of the Consortium network.

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## **VIII. FUNDING**

This Memorandum does not constitute any commitment by the Participants to provide funding or to secure financial resources for any activity. All cooperative activities shall be subject to the availability of resources and any financial assistance obtained independently by the Participants.

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## **ANNEX A**

### **Role of Mahanakorn University of Technology (MUT) as Academic Coordinator**

While serving as both a Consortium Member and Academic Coordinator, MUT shall undertake the following functions:

1. Technical coordination of EV engineering, motorsport engineering, and motorcycle EV programme development;
2. Facilitation of academic integration, curriculum alignment, and mobility pathways between UK and Thai institutions;
3. Acting as the principal academic liaison between Oxford Brookes University and Thai Consortium members;
4. Support for the planning and coordination of Formula EV and motorcycle motorsport competitions, conferences, and innovation events;
5. Assistance in industry engagement with Thai and international partners;
6. Support for capacity building through training models, workshops, and faculty development initiatives.

### **Non-Interference Clause**

To preserve the institutional autonomy of all Consortium members:

- MUT shall act solely as an academic and technical coordinator and shall not exercise supervisory or governing authority;
  - Each Consortium member retains full control over its academic programmes, internal governance, and institutional policies;
  - MUT's role is facilitative and supportive in nature;
  - Consortium-wide initiatives shall be implemented only by mutual agreement;
  - Participation in any proposed framework or project shall remain voluntary.
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## IX. FINAL PROVISIONS

This Memorandum shall enter into effect on the date of signature and shall remain valid for a period of five (5) years, unless extended by mutual written consent. It may be amended at any time by mutual written agreement of all Participants.

Any Participant may withdraw from this Memorandum by providing at least sixty (60) days' written notice to the other Participants. Such withdrawal shall not affect activities or agreements already initiated, unless otherwise mutually agreed.

Nothing in this Memorandum shall create legal, financial, or governance obligations. This Memorandum serves solely as a non-binding framework for academic, research, training, and innovation collaboration.

Signature

Assoc. Prof. Dr. Sommai Pivsa-Art  
President, Rajamangala University of Technology  
Thanyaburi

Dr. Sean Mackney  
Pro Vice Chancellor - Educational Partnerships,  
Oxford Brookes University

Witness

Assoc. Prof. Dr. Pichai Janmanee  
President, Rajamangala University of Technology  
Krungthep

Prof. Dr. Supachai Pathumnakul  
Permanent Secretary MHESI

Witness

Assoc. Prof. Dr. Rerkchai Fooprateepsiri  
President, Rajamangala University of Technology  
Tawan-ok

Prof. Gordana Collier  
Head of School of Engineering, Computing and  
Mathematics  
Oxford Brookes University

- 4 FEB 2026



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Dr. Natworapol Rachsirivatcharabul  
President, Rajamangala University of Technology  
Phra Nakhon

Assoc. Prof. Dr. Udomvit Chaisakulkiet  
President, Rajamangala University of Technology  
Rattanakosin

Asst. Prof. Dr. Unnop Tassanaudom  
President, Rajamangala University of Technology  
Lanna

Prof. Dr. Suwat Tanyaros  
President, Rajamangala University of Technology  
Srivijaya

Assoc. Prof. Dr. Pramuk Unahalekhaka  
President, Rajamangala University of Technology  
Suvarnabhumi

Assoc. Prof. Dr. Khosit Sripithon  
President, Rajamangala University of Technology  
Isan

Assoc. Prof. Dr. Panavy Pookaiyaudom  
President Mahanakorn University of Technology

- 4 FEB 2026

For Oxford Brookes University (United Kingdom – Consortium Member & UK-Side Academic Coordinator):

Name: Professor Helen Laville

Title/Position: Vice Chancellor

Signature: Helen Laville

Date: - 4 FEB 2026