UTHM
Universiti Tun Hussein Onn Malaysia

NEW INTAKE IS OPEN !

BACHELOR OF ENGINEERING TECHNOLOGY IN RAIL TRANSPORTATION WITH HONOURS

ABOUT THE PROGRAMME

The Bachelor of Engineering Technology in Rail Transportation with Honours aims to produce competent, industry-ready graduates equipped with current technical knowledge and skills relevant to the locomotive sector.

The programme emphasizes practical applications of multidisciplinary engineering—mechanical, electrical, electronic, and civil—specifically for rail transportation. Students gain hands-on experience in problem-solving, system analysis, and maintenance, while also developing essential soft skills.

A key component is the Work-Based Learning (WBL) model, where students complete a one-year industry attachment in their final year, providing valuable real-world exposure and professional readiness.

Aligned with the university's goal to nurture well-rounded professionals, the curriculum includes industry training, workshops, and collaborative projects to ensure graduates are prepared for the demands of modern rail systems.

ENTRY REQUIREMENT

SIJIL TINGGI PERSEKOLAHAN MALAYSIA (STPM)

Pass STPM with at least grade C (NGMP 2.00) in the followings:

- Mathematics T AND Physics OR
- Mathematics T AND Chemistry/Biology (with at least grade C in Physics for SPM)

MATRICULATION (SCIENCE/ENGINEERING/TECHNICAL)

Pass MATRICULATION with at least grade C (2.00) in the followings:

- Mathematics AND Physics OR
- Mathematics AND Chemistry/Biology (with at least grade C in Physics for SPM)

DIPLOMA (ENGINEERING/TECHNOLOGY)

Pass DIPLOMA (Engineering/Technology in Mechanical, Electrical & Electronics, Civil, Mechatronic, Chemical) with the followings:

- CPA/PNGK 2.50 OR
- CPA/PNGK 2.30 with at least 2 years working experience OR
- Pass Diploma Kemahiran Malaysia (DKM)/Diploma Lanjutan Kemahiran Malaysia (DLKM) in Mechanical, Electrical & Electronics, Civil, Mechatronic, Chemical Engineering/Technology from Institusi Latihan Awam (ILA) with minimum of CPA/PNGK of 3.00/ Grade B/ >80% marks)

OTHER REQUIREMENTS

- MUET (with at least Band 2)
- Not blind/deaf/physically disabled which consequently result in difficulty performing practical work

CAREER DESTINATION

Engineer / Executive (Rolling Stock, Infra, Signalling, Electrification, Purchasing, Project, Trackworks, Maintenance, Technical and Production, Design)

Academician | Railway Operation Management | Quality Assurance

Project Management Executives (Trackworks, Rolling Stock, Signalling, Electrification, Operations)

Testing and Commissioning | Technical Support | Corporate Strategy

Fleet Maintenance | Research Officer

PROGRAMME STRUCTURE

3 years in university, 1 year in industry (WBL)
Duration = 4 years

YEAR 1
Sem 1 - University
Sem 2 - University

YEAR 2
Sem 1 - University
Sem 2 - University

YEAR 3
Sem 1 - University
Sem 2 - University

YEAR 4
Sem 1 - Industry (WBL)
Sem 2 - Industry (WBL)

*Sem = Semester *WBL = Work-Based Learning

CORE COURSES

- Vibration and Noise in Railway
- Railway Construction and Geometric Design
- Railway Impact Assessment
- Railway Electrification System
- Railway Track structural design
- Transportation System and Panning
- Railway Policy and Legislation
- Train Communication and Signalling System
- Railway Infrastructure and Facilities
- Rolling Stock Technologies
- Railway Modelling and Design
- Railway Management
- Thermofluids
- Electrical and Electronics Technology
- Project Management
- Quality Assurance
- Management and Professional Ethics
- Mathematics for Engineering Technology
- Occupational Safety and Health
- CAD Modelling
- Material Science and Technology
- Statics
- Dynamics
- Engineering Technologist and Society
- Instrumentation and Control System
- Engineering Economy
- Electromagnetic Technology

SCAN FOR FULL TIME FEE

INTAKE FEB & OCT

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UTHM is Rated as a Five-Star Institution

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Department of Transportation Engineering Technology - JTKP FTK UTHM

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