• Introduction to R&I Division
• Research Grant Management
The university is governed by the ITPSB Board of Directors & PHEI Act 1996 (555) (new Organizational structure as approved by ITPSB Board in Oct 2017)
MOVING FORWARD IN THE SPIRIT OF EXCELLENCE
TOWARDS GLOBAL PROMINENCE

Motivation
Moving T&L from traditional learning to technology enabled learning

Key Strategy
Positioning educators to become a Level 4 – discipline based education researcher

Impact
Opening new T&L frontier, optimizing new technologies and methods for Academic excellence

Motivation
Expanding R&I within the realms of knowledge creation, impacting industry and society

Key Strategy
Developing and innovating new technologies and bringing technologies to the industry via commercialization & entrepreneurial activities

Impact
Solution provider in Research & Innovation to PETRONAS, industry and nation

Motivation
Aspire to produce graduates with values of responsible leaders and global citizens

Key Strategy
Providing students with appropriate development and experiences, molding them into well-rounded graduates

Impact
Inspire graduates with the desire for lifetime learning, strong critical and analytical thinking ability, balanced values and ethics, etc.

R&I moving forward
✓ Refocusing R&I direction
✓ Enhancing ecosystem by restructuring R&I research focus areas
✓ Creating knowledge exchange channels
✓ Introducing the new R&I Institutes

Transformation journey
Experiencing transition and transformation journey as a philosophy of student life cycle in UTP...
Governance: Research & Innovation Division

- **Research Advisory Council (RAC)**
  Research strategic direction

- **University Research Committee (URC)**
  University research planning

- **R&I Division Operational Committee (RDOC)**
  Operational planning for Research Division

**KEY FUNCTION**

Management of Research & Development and Consultancy Activities

- Exploration & development of fund sources;
- Develop linkages with Local/International Partners;
- Provide support & linkages to UG and PG on research matters;
- Provide value added services to PETRONAS such as in technology and capability building;
- Management of IP & technology;
- Provide R&D project support and administration;
- Consultancy services;
- University Research Committee (URC).
Research Management Centre (RMC)

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As an educational institution that is heavily invested in research and innovation, RMC serves as an establishment to manage and facilitate activities related to R&D in-line with UTP's vision. The Centre is also tasked to source and manage funds to ensure all research activities are sustainable and objective-driven.

The research at Universiti Teknologi PETRONAS brings together outstanding international researchers, working together with leading international companies and organizations to develop and innovate solutions in overcoming critical world issues and set the agenda for the future research and education.

UTP is committed to bring a world leader in research. With that, our key success factor in research are as follows:

• **Recruit and develop the best researchers locally and internationally**
• **Promote and facilitate collaboration in multi-disciplinary research**
• **Develop strategic research partnership with leading companies, government organizations, and research group globally**
• **Initiate leading research across the full spectrum of research clusters from fundamental**
Once an innovative technology has been created, it needs to be protected and promoted. TTO is responsible to facilitate the creation of intellectual properties, organize exhibitions and awards, as well as promote commercialization and licensing.

The Intellectual Property and Commercialization Unit is responsible in coordinating and managing all matters pertaining to intellectual property and commercialization of invention and research output.

The Unit is tasked to:
- Evaluate research projects from various sources such as students and research projects and make recommendation for participation in exhibitions.
- Identify potential research for commercialization.
- Liaise with relevant authorities for IP applications.

In addition, the Unit is also accountable for coordinating, negotiating, managing and maintaining any agreement between the University and its business partners.

The Consultancy Services Unit promote the University’s R&D capabilities to external parties, as well as playing a role in fostering strategic alliance for the university by developing and providing the best technical solutions to the industry, university and community as well as contribute to wealth creation.

Consultancy Services Unit is responsible in promoting expertise, managing consultancies and liaising with internal and external collaborators on matters related to expertise services provided to the stakeholders. In addition, the unit is entrusted to promote UTP services and expertise derived from the University’s R&D activities. The unit have access to state of the art and highly certified research centers and facilities manned by highly skilled professionals.

The unit have 15 years of experience in consultancy, currently managing almost 100 projects per year for the government and industry. Our clients includes PETRONAS, Hitachi Japan, Daewoo Korea, Valsler, Scomi, Murphy Oil, ACME, Transwater, MARA, IWK, Sime Darby, etc.

Among the services provided by this Unit are as follows:
- Consultation service
- Contract research
- Public Private Research Network (PPRN)
Research Institutes

- Primarily focused on serving the Oil & Gas industry, Research Institutes conducts specific research programmes to support PETRONAS's core business and the nation's development.

- There are 6 Research Institutes across niche disciplines for the benefit of the industry and the nation as a whole.

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Institute of Contaminant Management
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Institute of Hydrocarbon Recovery
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Institute of Transport Infrastructure
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The Centre for Advanced and Professional Education or CAPE was established in May 2016 to provide flexible post-bachelor degree opportunities by developing sustainable programmes and modules of professional short courses. CAPE aims to be the sought after partner to the industry by providing a platform for flexible learning to diverse learners and access to the Universiti Teknologi PETRONAS’s intellectual resources.

Being in a well-situated spot of Menara Kembar Bank Rakyat, a 10-minute walk from KL Sentral, CAPE provides convenient access for the external stakeholders to the University’s research and educational resources. It also boasts an impressive and up-to-date collection of spaces available for hire. The office houses a classroom and 2 seminar rooms with the capacity to accommodate up to 32 pax each, a 20-pax telepresence meeting room, a 6-pax discussion room, an e-library and open office areas for the UTP and CAPE staff. All the rooms are equipped with projector, screens and writing glass. The classroom and seminar rooms are designed to meet the current pedagogical requirements with the state-of-the-art facilities.

**WE HELP BUILD YOUR CAREER!**

With close collaboration with the industry, we provide career building programmes and modules that will:

- **Be a platform for development of new skills and the opportunity to self-re-skill**
- **Mould lifelong learners through a mixture of problem-based learning and blended learning**
New Game Changing on Research Project, New Industry Leaders…

Private Education Excellence Awards 2016*
*Organized by Koperasi Pendidikan Swasta Malaysia Berhad (Educoop) since 2015

Dr Tazli Azizan
The winner for National Outstanding Educator Award (University Category)

Prof Dr Azmi Mohd Shariff
The winner for National Outstanding Researcher Award (University Category)

AP Dr Iraivan Elamvazuthi
The winner for National Outstanding Researcher Award (University Category)

AP Dr Lau Kok Keong
The winner for National Outstanding Innovator Award (University Category)

Prof Dr Mohamed Ibrahim Abdul Mutalib
UTP Vice Chancellor
Elected as Fellow of the Academy of Sciences Malaysia (ASM) in the discipline of Engineering & Computer Sciences

Research funding secured from the Petroleum Research Fund (PRF)

1. Game Changing Smart Well Technology Using Electromagnetics
   - Project Value: RM42.2M
   - Duration: 3 years
   - Project led by Prof Dr Noorhana

   Research Output: The Project will change the landscape of electromagnetics technology in the Oil & Gas sector

2. Advanced Shale Gas Extraction Technology Using Electrochemical Methods
   - Project Value: RM20.7M
   - Duration: 5 years
   - Project led by Assoc Prof Dr Eswaran

   Research Output: Enhance the shale gas extraction percentage for better recovery.

3. Development of a Concept-Demonstrator Free Piston Linear Generator (FPLG) Powered by Flexi-fuel
   - Project Value: RM10.6M
   - Duration: 4 years
   - Project led by Prof Dr Abdul Rashid

   Research Output: Enhance the generation of electrical power for well exploration and power generation on platforms

Scientists’ Hall of Fame
Prof Dr Azmi Mohd Shariff and Prof Dr Suzana Yusup
Top Research Scientist Malaysia (TRSM) 2015
Future Development of UTP R&D Park

UTP R&D Park will enable UTP be financially sustainable by leveraging its existing talent, research facilities, operations and land.

- Synergy of resources UTP – Industry through Joint Industry Project (JIP)
- Creating job opportunities

UTP Research Park can transform the O&G industry in Malaysia into one of innovation and supply, as much as procurement. It will not only shape the future of UTP, but also the country.
The two new R&D buildings mark UTP forays into world-class leading-edge research and the beginning of the exploration of UTP Research Park. The new R&D Buildings will house two types of tenants:

- Larger part of internal tenants for R&D programme (EOR & CO2) and flagship / impactful R&D projects.
- Smaller part of external tenants to develop a sense of “international and world-class presence” and “technopreneur and innovation” including Technology-based Start-ups and Spin-off Companies related to Oil & Gas.
• Introduction to R&I Division

• Research Grant Management
UTP Research At Glance…

1. **CRITICAL MASS**
   - 23% increased in number of academic staff
   - 90% increased in total Postgraduate students
   - 140% increased in number of PhD students
   - 50% increased in PhD academic qualifications
   - 28 times increased in the accumulated PhD graduated. The highest international students in Malaysia

2. **RESEARCH PERFORMANCE**
   - 290 percentile increased in the number of Principal Investigator (PI)
   - 290 percent increased in the number of Principal Investigator (PI)
   - Accumulated Grant secured: RM 178M from RM25m in 2009
   - Government Grant secured: RM 79M from RM11.6m in 2009
   - Industry Grant secured: RM 82M from RM24m in 2009

3. **RESEARCH OUTPUT**
   - 20 times increased in the accumulative number of publication in Scopus & ISI
   - 255 times increased in paper citation
   - 50% increase in publication impact factor per year (The HIGHEST publication in Malaysia for paper per faculty)

4. **NETWORK & LINKAGES**
   - >100 MOUs/MOAs signed
   - Professional Chairs sponsored by industries: SIX (6)
   - RM 1.35B accumulated gift received from industries compared with RM3.7M in 2009

UTP Research Strategic Collaboration & Alliances

Established Strategic Alliances

**Networking**
- University & Research Institution: 44 international
- Industry: 22 (3 intl.)
- Companies for Internship Placement: 400 (local & intl.)

**Professorial Chairs**
- 6 nos with average RM1.5Mil endowment per year per chair

**Companies & Technologies**
- Schlumberger
- Enhanced Oil Recovery
- Petroleum Geosciences
- Petroleum Engineering
- Deepwater structure & Subsea Technology
- Deepwater Drilling & Construction Technology
- Technip
- Green Technology
- Mitsubishi
- Fugro
- Baker Hughes
- Halliburton
- Weatherford
- senergy
- UTAR
- Griffith University
- Lehigh University
- Hiroshima University
- UTI
- Technip
- Kencana Petroleum
- Amongst others...
Types of Research Grants Available

**UTP Internal Grants**
- STIRF
- URIF
- Matching Grants
- ICRF

**PETRONAS Grants**
- PRF
- YUTP
- GR&T

**Industry Grants**
- LLM
- CREST
- etc.

**National Grants**
- MOHE
- MESTECC
- JRP
- etc.

**International Grants**
- Horizon 2020
- Hitachi
- Murata
- etc.

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**Contract Research**
Example of Industry & National Grants

- WWF MALAYSIA
- Sapura Kenchana
- IKIM
- Kelantan State Government
- CURTIN UNIVERSITY, MALAYSIA
- GREEN MASTER HARVEST SDN BHD
- INSTITUT PENYELIDIKAN PEMBANGUNAN BELIA MALAYSIA (IYRES)
- INSTITUTE DARUL RIDZUAN
- KEMENTERIAN TENAGA, TEKNOLOGI HIJAU AND AIR
- PROMAT (M) SDN. BHD.
- SIRIM
- Etc.....
Thank You
@Research Management Centre