

**SENARAI BIDANG DAN SUBBIDANG PENGAJIAN
BIASISWA YANG DI-PERTUAN AGONG (BYDPA) TAHUN 2026**

A) Sains, Teknologi, Kejuruteraan dan Matematik (STEM)

(i) Sains Hayat

- Sains Tumbuhan
- Biofizik
- Biokimia
- Biologi
- Bioteknologi
- Ekologi, Evolusi dan Alam sekitar
- *Entomology*
- Farmakologi & Farmasi
- Fisiologi
- *Genetic & Heredity*
- *Immunology*
- *Mycology*
- *Palaeontology*
- *Parasitology*
- Pemakanan
- Perhutanan
- Perikanan
- Persekitaran
- Pertanian
- Sains Veterinar
- *Toxicology*
- *Virology*
- *Zoology*

(ii) Sains Fizikal

- Astronomi dan Astrofizik
- *Crystallography*
- *Earth Science*
- Fizik
- Kimia
- Matematik & Statistik
- Meteorologi dan Sains Atmosfera
- Nanoteknologi
- Sains Polimer

(iii) Kejuruteraan Teknologi

Bioscience Technology

- *Gene Editing & Engineering*
- *Nanobiotechnology*
- *Molecular Omics Technology*
- *Bioinformatics & Biocomputing*
- *Advanced Biomaterials*
- *Synthetic Biology*
- *Biofactories*

Neuro Technology

- *Neuromodulation*
- *Neurostimulation*
- *Neuroprosthetics*
- *Brain Sensing Technology*
- *Neurorehabilitation Technology*
- *Brain-Computer Interface Technology*

- *Bioseparation & Biorefining Technologies*
- *Biosensor Technology*
- *Bioreactor and Separation Technologies*
- *Metadata Analytics*
- *Neurodiagnostics*
- *Neuromorphic Computing*
- *Neuropharmacology*
- *Neuroinformatics*
- *Neurofeedback Systems*
- *Neuroergonomics*
- *Neuromarketing*

Cybersecurity & Encryption

- *Network Security*
- *Cyber Forensics*
- *Cyber Risk Management*
- *Cryptography*
- *Cloud Security*
- *Mobile Application Security*
- *Cybercrime Legislation and Policy*
- *Ethical Hacking and Penetration Testing*
- *Security Audit & Vulnerability Assessment*
- *Secure Programming (Encryption)*

Augmented Analytics & Data Discovery

- *Machine Learning*
- *Predictive Analytics*
- *Text Mining*
- *Data Mining*
- *Business Intelligence*
- *Natural Language Generation*
- *Data Management*
- *Data Science*
- *Cloud Computing*

Blockchain

- *Cryptography Technology*
- *Computer Network*
- *Distributed Ledger Technology*
- *Information Systems*
- *Blockchain Programming*
- *Computer Science*
- *Security Engineering*
- *Software Engineering*
- *Database Management*
- *Management, Economics / Crypto-Economy and Finance*
- *Digital Identity Management*
- *Business Development*
- *Telecommunications*

Advanced Materials

- *Nanoengineered Materials / Nanotechnology*
- *Derivative Materials*
- *Biomaterials Engineering*
- *Materials Science*
- *Fabrication & Integration Engineering*
- *Functional/ Smart Materials*
- *Metamaterials*
- *Organic, Green & Renewable Materials*
- *Multi-Materials Structures*
- *Polymer Science*
- *Biomedical Materials*

- *Printing & Flexible Electronics*
- *Catalysts*

Sensor Technology

- *Micro-Electro-Mechanical Systems (MEMS)*
- *Piezoceramics*
- *Wearable Biosensors*
- *Electrochemical Sensors*
- *Microelectronics*
- *Nanosensors*
- *Smart Dust Sensor Network*
- *Soft Sensor*
- *Electro-Optical and Chemical Sensors*
- *Monitoring and Control Systems*
- *Printed Sensor System*

Artificial Intelligent Systems

- *Machine Learning*
- *Neural Network*
- *Robotics*
- *Deep Learning*
- *Computer Vision*
- *Natural Language Processing (NLP)*
- *Knowledge Graphs*
- *Generative Adversarial Networks (GAN)*
- *Cloud Computing*
- *Advanced Control Systems*

4D/5D Printing

- *Materials Science*
- *Advanced Design*
- *Software Engineering*
- *Advanced Materials*
- *Electronic & Controls*
- *Robotic & Mechatronic*
- *Precise Engineering*
- *Additive Manufacturing*
- *Computational Modelling*
- *Digital Photography*
- *Printing Materials*
- *Printing & Flexible Electronics*
- *Construction & Automobile Components*

5G/6G

- *Machine Type Communication/ IoT Communications*
- *Medium Access Control*
- *Interference Management*
- *New Waveform Design and GHz/THz*
- *Massive MIMO Technology and Intelligent*
- *Terrestrial and Satellite Integrated Network*
- *AR/VR/XR and Internet of Senses Over 5G/6G*
- *Crowdsourcing Applications*
- *Electromagnetic Fields Effect (EMF) On Humans*
- *Quality Of Experience (QOE)*
- *Smart Metasurfaces*
- *Autonomous Mobility*
- *Intelligent Edge*

B) Ekonomi

- Ekonometrik
- Sejarah Ekonomi
- Ekonomi
- Ekonomi Politik

C) Undang-Undang

- Undang-undang Perbankan
- Undang-undang Komersial
- Pengajian Undang-undang Jenayah
- Undang-undang Persaingan
- Sejarah Perundangan
- Undang-undang Adat
- Undang-undang Perdagangan Antarabangsa
- Perundangan
- Undang-undang Perburuhan
- Amalan Perundangan
- Amalan Notari
- Pengajian Paralegal
- Undang-undang Syariah
- Undang-undang Percukaian

D) Kewangan Islam

- Perbankan dan Kewangan Islam
- Perdagangan Islam
- Mu'amalat
- Takaful