

**SENARAI BIDANG DAN KURSUS DALAM SIJIL PROGRAM PENGKHUSUSAN TERBUKA (SPPT)**

Kolej	Fakulti/Pusat Jabatan	Bidang	Nama Kursus	Penawaran Kursus Bagi Semester 1, Sesi 2021/2022
Kolej Kejuruteraan	Jabatan Kejuruteraan Elektrik	Electrical Energy Management	<ul style="list-style-type: none"> <li>• (BEE3133) Electrical Power Systems</li> <li>• (BEE4113) Electrical Installation Design</li> <li>• (BEE4163) Alternative Energy</li> <li>• (MEE5042) Energy Management &amp; Efficiency</li> <li>• (BEE3333) Integrated Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>• (BEE3133) Electrical Power Systems</li> <li>• (BEE4113) Electrical Installation Design</li> <li>• (BEE4163) Alternative Energy</li> </ul>
	Jabatan Kejuruteraan Kimia	Chemical Process Engineering	<ul style="list-style-type: none"> <li>• (BKF2343) Material &amp; Energy Balance</li> <li>• (BKF2453) Chemical Reaction Engineering I</li> <li>• (BKF3463) Unit Operation</li> <li>• (BKF3553) Process Simulation and Computer Aided Design</li> <li>• (BKC4xxx) Plant Design Chemical Plant</li> </ul>	<ul style="list-style-type: none"> <li>• BKF2343) Material &amp; Energy Balance</li> <li>• (BKF2453) Chemical Reaction Engineering I</li> <li>• (BKF3463) Unit Operation</li> </ul>

	<b>Jabatan Kejuruteraan Awam</b>	<b>Building Structures</b>	<ul style="list-style-type: none"> <li>• (BAA1133) Mechanics of Materials</li> <li>• (BAA2113) Theory of Structures</li> <li>• (BAA2123) Structural Analysis</li> <li>• (BAA3223) Steel &amp; Timber Design</li> <li>• (BAA4023) Project for Professional Practices</li> </ul>	<ul style="list-style-type: none"> <li>• (BAA1133) Mechanics of Materials</li> <li>• (BAA2113) Theory of Structures</li> </ul>
	<b>Jabatan Kejuruteraan Industri</b>	<b>Smart Manufacturing</b>	<ul style="list-style-type: none"> <li>• (BFI4823) Industrial Simulation</li> <li>• (BFI4853) Engineering Optimization</li> <li>• (BFI4833) Smart Manufacturing</li> <li>• (BFI4763) AI for Industrial Engineers</li> <li>• (BFI4743) Lean Six Sigma</li> </ul>	-Tidak ditawarkan sem 1, sesi 2021/2022
	<b>Jabatan Kejuruteraan Mekanikal</b>	<b>Materials Engineering</b>	<ul style="list-style-type: none"> <li>• (BMM1523) Engineering Materials</li> <li>• (BMM4803) Corrosion Science &amp; Engineering</li> <li>• (BMM4113) Advanced Materials Characterization Theories &amp; Tools</li> <li>• (BMM3643) Manufacturing Processes</li> <li>• (BMM3601) Integrated Design Project</li> </ul>	<ul style="list-style-type: none"> <li>• (BMM3643) Manufacturing Processes</li> <li>• (BMM4113) Advanced Materials Characterization Theories &amp; Tools</li> <li>• (BMM3601) Integrated Design Project</li> </ul>

Kolej Teknologi Kejuruteraan	<b>FTKEE</b>	<b>Artificial Intelligence of Things (AIoT)</b>	<ul style="list-style-type: none"> <li>• Microcontroller Programming &amp; Interfacing (SPPT1)</li> <li>• Programming &amp; Data Structure (Python) (SPPT2)</li> <li>• IoT Analytics (SPPT3)</li> <li>• Practical IoT (SPPT4)</li> <li>• Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• Microcontroller Programming &amp; Interfacing (SPPT1)</li> </ul>
	<b>FTKMA</b>	<b>Computer Aided Design (CAD)</b>	<ul style="list-style-type: none"> <li>• (BHA1602) Technical Drawing</li> <li>• (DMM1413) Engineering Drawing &amp; CAD</li> <li>• (DMM2633) Manufacturing Technology</li> <li>• (DMM2632) Industrial Design</li> <li>• Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BHA1602) Technical Drawing</li> <li>• (DMM1413) Engineering Drawing &amp; CAD</li> <li>• (DMM2633) Manufacturing Technology</li> <li>• (DMM2632) Industrial Design</li> </ul>
	<b>FTKPM</b>	<b>Robotics</b>	<ul style="list-style-type: none"> <li>• (BFM4503) Robotics For Engineers</li> <li>• (BFM3003) Artificial Intelligence</li> <li>• (BFM4523) Autonomous Robotic System</li> <li>• (BFM4533) Robotic Prototype Design</li> <li>• BFMXXX3 Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BFM3003) Artificial Intelligence</li> </ul>

	<b>FTKA</b>	<b>Construction Management</b>	<ul style="list-style-type: none"> <li>• (BET2373) Construction Engineering</li> <li>• (BET2413) Project Scheduling</li> <li>• (BET2422) Financial Management for Decision Making</li> <li>• (BET3582) Digital Construction Technology</li> <li>• (BET4774) Technology Design Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BET2373) Construction Engineering</li> </ul>
	<b>FTKPP</b>	<b>Bioprocess Development</b>	<ul style="list-style-type: none"> <li>• (BTK2013) Introduction to Bioprocess</li> <li>• (BTK2023) Bioreactor Technology</li> <li>• (BTK3013) Bioseparation Technology</li> <li>• (BTK3023) Bioprocess Optimization</li> <li>• (BTK4013) Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BTK2013) Introduction to Bioprocess</li> </ul>
		<b>Herbal &amp; Medicinal Plants Processing</b>	<ul style="list-style-type: none"> <li>• (BTK2053) Introduction to Herbal &amp; Medicinal Plants</li> <li>• (BTK2063) Extraction, Isolation &amp; Identification of Phytochemicals</li> <li>• (BTK3053) GMP for Natural Products</li> <li>• (BTK3063) Development of Nutraceutical Products</li> <li>• (BTK4033) Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BTK2053) Introduction to Herbal &amp; Medicinal Plants</li> </ul>

		<b>Process Systems Engineering</b>	<ul style="list-style-type: none"> <li>• (BTK2033) Sustainability in Process Industries</li> <li>• (BTK2043) Computer Aided Process Modelling and Dynamics</li> <li>• (BTK3033) Process Monitoring</li> <li>• (BTK3043) Introduction to Microsoft Project and Primavera</li> <li>• (BTK4023) Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BTK2033) Sustainability in Process Industries</li> </ul>
Kolej Komputeran Dan Sains Gunaan	FK	<b>Multimedia Technology</b>	<ul style="list-style-type: none"> <li>• BCM1013 - Fundamental Of Digital Media</li> <li>• (BCM3233) 3D Modelling Simulation</li> <li>• (BCM3103) Virtual Reality</li> <li>• BCM3283 Fundamental Of Game Development</li> <li>• (BCM3243) Multimedia Development Workshop (Project)</li> </ul>	<ul style="list-style-type: none"> <li>• BCM1013 - Fundamental Of Digital Media</li> <li>• BCM3283 - Fundamental Of Game Development</li> </ul>
		<b>Computer Game Development</b>	<ul style="list-style-type: none"> <li>• BCM1013 - Fundamental Of Digital Media</li> <li>• (BCM3233) 3D Modelling Simulation</li> <li>• (BCM3103) Virtual Reality</li> <li>• (BCM3283) Fundamental Of Game Development</li> <li>• (BCM3293) Game Programming And Development</li> </ul>	<ul style="list-style-type: none"> <li>• BCM1013 - Fundamental Of Digital Media</li> <li>• BCM3283 - Fundamental Of Game Development</li> </ul>

	<b>FSTI</b>	<b>Metal, Corrosion &amp; Failure Analysis</b>	<ul style="list-style-type: none"> <li>• (BSP2153) Material Science &amp; Technology</li> <li>• (BSP2133) Metals &amp; Alloys</li> <li>• (BSP3173) Corrosion</li> <li>• (BSP3183) Failure Analysis</li> <li>• BSP***3 Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• BSP2153 - Material Science &amp; Technology</li> <li>• BSP3173 - Corrosion</li> </ul>
	<b>PSM</b>	<b>Data Analytics</b>	<ul style="list-style-type: none"> <li>• (BSD1323) Storytelling and Data Visualization</li> <li>• (BSD2213) Data Science Programming I</li> <li>• (BSD2223) Data Science Programming II</li> <li>• (BSD3533) Data Mining</li> <li>• (BSD3733) Data Analytics (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BSD2213) Data Science Programming I</li> <li>• (BSD3533) Data Mining</li> </ul>
Kolej Pengurusan Dan Kemanusiaan	<b>FPI</b>	<b>Finance</b>	<ul style="list-style-type: none"> <li>• (BPQ1213) Management Accounting</li> <li>• (BPC1123) Principles of Economics</li> <li>• (BPQ2213) Financial Management</li> <li>• (FIN 2/ FIN 3) Investment Management</li> <li>• FIN 4 Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (BPC1123) Principles of Economics</li> <li>• (BPQ1213) Management Accounting</li> <li>• (BPQ2213) Financial Management</li> </ul>

		<b>Logistics</b>	<ul style="list-style-type: none"> <li>• BPQ2223 Supply Chain &amp; Logistic Management</li> <li>• BPE4123 Supply Chain Control &amp; Management Control Systems</li> <li>• BPE4233 International Transport Logistics</li> <li>• BPE4243 Warehouse &amp; Inventory Planning</li> <li>• BPN4013 Individual Study Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• BPQ2223 Supply Chain &amp; Logistic Management</li> <li>• (BPE4243) Warehouse &amp; Inventory Planning</li> <li>• (BPE4123) Supply Chain Control &amp; Management Control Systems</li> </ul>
	<b>PBM</b>	<b>Speaking</b>	<ul style="list-style-type: none"> <li>• (UHN 2313) Language, Sounds and Structures</li> <li>• (UHN 2323) Language and Culture</li> <li>• (UHN 2333) Public Speaking Mastery</li> <li>• (UHN 2343) Persuasive Speaking</li> <li>• (UHN 2353) Capstone Project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (UHN2313) Language, Sounds and Structures</li> </ul>
		<b>Education</b>	<ul style="list-style-type: none"> <li>• (UHN 2113) Educational Philosophy &amp; Psychology</li> <li>• (UHN 2123) Classroom Leadership &amp; Management</li> <li>• (UHN 2133) Syllabus Design, Assessment &amp; Evaluation</li> <li>• (UHN 2143) Task Based Instruction</li> <li>• (UHN 2153) Capstone project (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (UHN2113) Educational Philosophy &amp; Psychology</li> <li>• (UHN2123) Classroom Leadership &amp; Management</li> </ul>

		<b>Fictional Prose</b>	<ul style="list-style-type: none"> <li>• (UHN 2513) The Fictional Writer</li> <li>• (UHN 2523) Elements of Craft</li> <li>• (UHN 2533) Process Writing Exploration</li> <li>• (UHN 2543) Road to Publication</li> <li>• (UHN 2553) Capstone (Projek)</li> </ul>	<ul style="list-style-type: none"> <li>• (UHN2513) The Fiction Writer</li> <li>• (UHN2523) Elements of Craft</li> <li>• (UHN2533) Process Writing Exploration</li> </ul>
		<b>Mandarin Language</b>	<ul style="list-style-type: none"> <li>• (UHT2313) Chinese Characters Writing 1</li> <li>• (UHT2323) Chinese Characters Writing 2</li> <li>• (UHT2333) Mandarin For Lower Intermediate</li> <li>• (UHT2343) Mandarin For Upper Intermediate</li> <li>• (UHT2353) Capstone (Projek Akhir)</li> </ul>	<ul style="list-style-type: none"> <li>• (UHT2313) Chinese Characters Writing 1</li> </ul>
	<b>PSK</b>	<b>Halal Compliance &amp; Certification</b>	<ul style="list-style-type: none"> <li>• (CHH2213) Introduction To Halal Studies</li> <li>• (CHH2223) Introduction To Islamic Jurisprudence</li> <li>• (CHH2233) Halal Quality Assurance</li> <li>• (CHH2243) Halal Certification Process Administration And Internal Audit Facilitation</li> <li>• (CHH2253) Projek</li> </ul>	<ul style="list-style-type: none"> <li>• (CHH2213) Introduction To Halal Studies</li> <li>• (CHH2223) Introduction To Islamic Jurisprudence</li> </ul>



		<p><b>Islamic Studies</b></p> <ul style="list-style-type: none"> <li>• (CHI2113) Fundamental Ibadah In Islam</li> <li>• (CHI2123) Introduction To Islamic Jurisprudence</li> <li>• (CHI2133) Fiqh Hajj &amp; Umrah</li> <li>• (CHH2143) Family System In Islam</li> <li>• (CHI2153) Projek</li> </ul>	<ul style="list-style-type: none"> <li>• (CHI2113) Fundamental Ibadah In Islam</li> <li>• (CHI2123) Introduction To Islamic Jurisprudence</li> <li>• (CHI2133) Fiqh Hajj &amp; Umrah</li> </ul>
		<p><b>Psychology</b></p> <ul style="list-style-type: none"> <li>• (CHP2313) Introduction To Human Behavior</li> <li>• (CHP2323) Psychology In Quran &amp; Sunnah</li> <li>• (CHP2333) Organizational Counseling</li> <li>• (CHP2343) Positive Psychology</li> <li>• (CHP2353) Projek</li> </ul>	<ul style="list-style-type: none"> <li>• (CHP2313) Introduction To Human Behavior</li> <li>• (CHP2333) Organizational Counseling</li> </ul>
		<p><b>T.R.I.Z (Teoriya Resheniya Izobreatatelskikh Zadatch) -Theory of Inventive Problem Solving</b></p> <ul style="list-style-type: none"> <li>• (CHT2413) TRIZ I</li> <li>• (CHT2423) TRIZ II</li> <li>• (CHT2433) TRIZ III</li> <li>• (CHT2443) TRIZ IV</li> <li>• (CHT2453) Projek</li> </ul>	<p>-Tidak ditawarkan sem 1, sesi 2021/2022</p>

\* Senarai penawaran kursus adalah tertakluk kepada perubahan.