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## PROGRAMME INFORMATION

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### PROGRAMME NAME

Programmes (Malay/English)

- Sarjana Muda Teknologi Pemesinan Industri Dengan Kepujian
- Bachelor of Technology in Industrial Machining with Honours

### PROGRAMME DESCRIPTION

The program focuses on manufacturing and machining. This program will produce machining technologies that carry out work such as machine design and manufacturing systems, manufacturing, machine maintenance, machine facility management and production management and machine related project management. The program also aims to produce techno-entrepreneurs in machining-related technologies and subsequently produce respected and referenced professionals in machining technology.

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## PROGRAMME OBJECTIVES (PEO)

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CODE	PROGRAMME EDUCATIONAL OBJECTIVES
PEO 01	To produce machining technologist that perform related work including machinist, design, manufacturer, maintenance, facility manager and production manager.
PEO 02	To produce technopreneurs in machining related technology.
PEO 03	To produce relevant, respected and referred professionals in machining technology.

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## PROGRAMME LEARNING OUTCOME (PLO)

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CODE	PROGRAMME OUTCOMES
<b>PO 01</b>	Apply knowledge of technology fundamentals to broadly-defined procedures processes, systems and methodologies in machining technology.
<b>PO 02</b>	Able to suggest and apply latest tools and techniques to solve <b>broadly-defined</b> problems.
<b>PO 03</b>	Demonstrate strong analytical and critical thinking skills to solve <b>broadly-defined</b> problems in machining technology.
<b>PO 04</b>	Able to <b>communicate and articulate</b> effectively in both verbal and written among technologist communities and society <b>at large</b> .
<b>PO 05</b>	Demonstrate understanding of the societal related issues and the consequent responsibilities relevant to <b>broadly defined</b> technology practices.
<b>PO 06</b>	Recognize the needs for professional development and to engage independent lifelong learning in <b>specialist technologists</b> .
<b>PO 07</b>	Demonstrate an awareness of management and technopreneurship practices in real perspective.
<b>PO 08</b>	Demonstrate professionalism and social and ethical consideration.
<b>PO 09</b>	Demonstrate leadership quality, mentoring and work effectively in <b>diverse teams</b> .

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## **PROGRAMME DETAIL**

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- Two and half (2.5) years teaching and learning at university – 5 semesters
- One (1) year Work Based Learning (WBL) at industry – 2 semesters
- Six (6) months of Industrial Training at the end of study
- Total of Seven (7) semesters including 1 short semester
- Each semester (14 weeks of Teaching and Learning) excluding of short semester

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## **ADMISSION FEES**

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- Tuition Fee Semester 1 - RM 2,690
- Next Semester Tuition Fee - RM 1,900

## PROGRAMME STRUCTURE

YEAR	FIRST		SECOND		THIRD		FOURTH	
SEMESTER	I	II	II	IV	V	VI	VII	VIII
<b>DISCIPLINE CORE (104)</b>	<b>VDT150/3</b> Product Drafting and Specification	<b>VDT154/4</b> Tool Setup and Refurbishment	<b>VDT250/4</b> Precision and Finishing in CNC Technology	<b>VDT254/4</b> Multi Axis Machining	<b>VDT350/4</b> Assembly Method	<b>VDT315/4</b> Final Year Project 1	<b>VDT415/6</b> Final Year Project 2	<b>VDT416/12</b> Industrial Training
	<b>VDT151/3</b> Standard Product Precision	<b>VDT155/3</b> Sustainable Machining	<b>VDT251/3</b> Precision and Finishing in EDM and Grinding Technology	<b>VDT255/3</b> Complex CAD/CAM Product	Elective	<b>VDT353/4</b> Project Management and Supervision		
	<b>VDT152/3</b> Workpiece and Cutting Tool Properties	<b>VDT156/3</b> Assessment of Machinability	<b>VDT252/4</b> Prismatic CAD/CAM Product	<b>VDT256/3</b> Heat Treatment of Machined Component	<b>VDT351/4</b> Rework and Rehabilitation of Machined Component	<b>VDT354/4</b> Acts and Risks Assessment in Machining Production		
	<b>VDT153/3</b> Jig and Fixture	<b>VDT157/3</b> Condition Monitoring in Machining	<b>VDT258/4</b> Capstone Technopreneurship 1	<b>VDT259/4</b> Capstone Technopreneurship 2	<b>VDT352/4</b> Surface Aesthetics of Machined Component	<b>VDT355/4</b> Machine Maintenance		
<b>UNIVERSITY CORE</b>	<b>UZWXXX/1</b> Co-Curriculum I	<b>UZWXXX/1</b> Co-Curriculum II	<b>UVW312/2</b> English Technical for Communication	<b>UUW235/2</b> Engineering Entrepreneurship	<b>UUW131/2</b> Appreciation of Ethics and Civilization			
	<b>UVW410/2</b> University Malay Language	<b>UUW130/2</b> Philosophy and Current Issues	<b>UVWXXX/2</b> Third Language					
	<b>PUW122/2</b> Skill and Technology in Communication	<b>UVW201/2</b> English for General Communication						
	<b>UVA101/2</b> *Preparatory English							
	17	18	19	16	18	16	6	12

**Electives:**

**VDT356/4** Tool and Die Making,

**VDT357/4** Aerospace Machining

**VDT358/4** Rapid Machining,

**VDT359/3** Human Factor Technology,

**VDT360/4** Production Planning in Machining

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## **CREDIT TRANSFER/EXEMPTION**

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No Credit exemption is allowed now for DKM/DVM based on MQA upon the temporary accreditation approval.

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## **GENERAL ADMISSION REQUIREMENT**

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Passed the Sijil Pelajaran Malaysia (SPM) / equivalent with a credit in Bahasa Melayu / Bahasa Malaysia subject or Bahasa Melayu / Bahasa Malaysia credit papers in July and passed in History (SPM 2013 and above) in the SPM examination;

**or**

Passed the Sijil Vokasional Malaysia (SVM) and earned CERTIFICATE with 3 Sijil Pelajaran Malaysia (SPM) credits as follows:

- i. Malay Language Honors (Code 1104);
- ii. Academic CGPA of at least 2.00;
- iii. Vocational CGPA of at least 2.67;
- iv. Competent all vocational modules; and
- v. Pass the History (History (Code 1251) for candidates for the Sijil Vokasional Malaysia (SVM) cohort 2013 - 2016);

**and**

Have a Diploma or other equivalent qualification recognized by the Government of Malaysia and approved by the University Senate;

**and**

Obtained at least Level 1 (Band 1) in Malaysian University English Test (MUET);

### **Specific Requirement**

Passed Diploma Kemahiran Malaysia (DKM) / Diploma Lanjutan Kemahiran Malaysia (DLKM) from the Department of Skills Development (JPK) under the Ministry of Human Resources with a minimum CGPA of 2.00 in the relevant field recognized and approved by the University Senate;

**or**

Passed a Diploma in Technology from Vocational College under the Ministry of Education Malaysia with a minimum CGPA of 2.00 in the relevant field recognized and approved by the University Senate;

**and**

Candidates DO NOT have physical disabilities / members to make it difficult to practice;

**and**

Has graduated / graduated at the Diploma level before the deadline of application;

**and**

Entry is for Year 1 only without credit exemption.

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## **DOCUMENTS FOR ADMISSION**

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Documents to be prepared

- Copy of application via online
- Copy of MyKad OR Copy of Birth of Certificate/Surat Akuan Sumpah (if MyKad is lost)
- School Certificate/Surat Akuan
- Employer's Declaration (if any)
- Copy of Diploma Certificate
- Copy of STPM Certificate
- Copy of SPM Certificate
- Copy of all Academic's Transcript
- Copy of MUET Certificate
- Copy of Letter of endorsement graduated
- Copy of Bahasa Melayu / Matematik July (if any)
- Copy of MQA AND MQR proof

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## **CAREER PROSPECT**

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- Machining Maintenance Officer
- Quality Control Management Officer
- Machining Design Officer
- Production Management Officer
- Manufacturing System Officer
- Project Management Officer
- Other relevant career fields.