

FACULTY OF TECHNICAL & VOCATIONAL EDUCATION



FACULTY BACKGROUND

FACULTY OF TECHNICAL &
VOCATIONAL EDUCATION (FPTV)



FPTV IN BRIEF



Started as a
Department of
Education and
Humanities
(1996)



Department of
Technical and
Vocational Education
(2001)



Upgraded
to Faculty of
Technical
Education
(FPTek)
(1 Mei 2004)



Renamed to
Faculty of
Technical and
Vocational
Education (FPTV)
(23 Jun 2011)



FPTV ORGANIZATIONAL CHART



Ts Dr MOHD HASRIL AMIRUDDIN

DEAN



Encik Eaddy Bin Zainal Abidin

SENIOR DEPUTY REGISTRAR



Assoc Prof. Ts. Dr. Faizal Amin Nur B. Yunus

DEPUTY DEAN

(Academic & International)



Ts Dr ZURINA BINTI YASAK

DEPUTY DEAN

(Student Affair & Alumni)



Assoc Prof Ts. Dr. Aini Nazura
Palmin @Abdul Halim

DEPUTY DEAN

(Research, Development & Publication)



Dr. Azita Ali

HEAD OF DEPT.
(Vocational
Education)



Ts Dr Mohd Bekri
Rahim

HEAD OF DEPT.
(Technology
Studies)



Ts. Dr. Marina Bt Ibrahim
Mukhtar

HEAD OF DEPT.
(Teaching Practice &
Industrial Training)



Ts. Reyanhealme Rohanai

HEAD OF DEPT.
(Skills &
Professional)



Dr. Wan Hanim
Nadrah Wan Muda

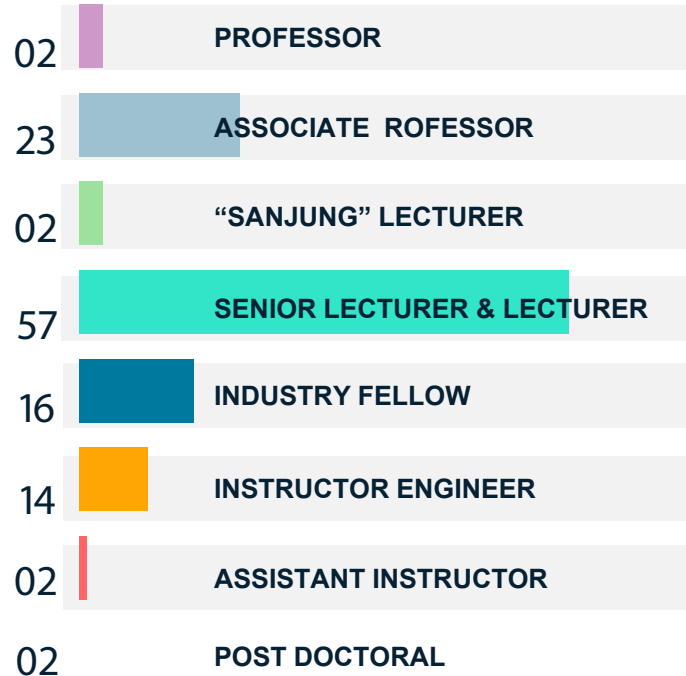
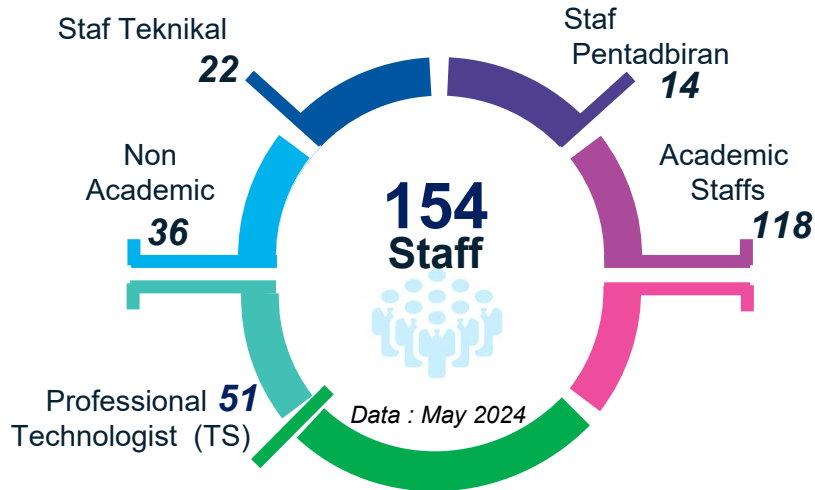
HEAD OF DEPT.
(Professional Education
& Postgraduate)



Assoc Prof Dr Mohamad
Zaid Mustafa

Lab's Manager

FACULTY STAF



for May 2024 data

FPTV STAFFS WITH MALAYSIAN SKILLS CERTIFICATION (SKM)



Malaysian Skills Certificate (SKM 1)
Level 1

4 STAFFS

Malaysian Skills Certificate (SKM 2)
Level 2

45 STAFFS

Malaysian Skills Certificate (SKM)
Level 3

38 STAFFS



Malaysian Skills Diploma(DKM)

2 STAFFS

Malaysian Skills Advanced Diploma(DLKM)

1 STAFF



Vocational Training Officer (VTO)

31 STAFFS

Vocational Training Executive (VTE) Vocational Training Manager (VTM)

21 STAFFS

16 STAFFS

PROFFESIONAL BOARD FPTV STAFF

No. Staff	PROFEFESIONAL BOARD	No. Staff	PROFEFESIONAL BOARD
51	Malaysian Board of Technologists (MBOT)	1	Malaysian Society For Engineering & Technology (MySET)
6	Asian Academic Society for Vocational Education and Training (AASVET)	2	Mobile Learning Association of Malaysia
7	Board of Engineers Malaysia (BEM)	2	Regional Association for Vocational Teacher Education in East and Southeast Asia (RAVTE)
1	Institute of Research Engineers and Doctors (theIRED)	1	Technological Association of Malaysia (TAM)
1	International Association of Academicians (IAASSE)	6	The Association for Science, Education and Technology (TASET)
7	International Association of Engineers (IAENG)	3	The Institution of Engineers, Malaysia (IEM)
2	International Vocational Education And Training Association	2	The Malaysia TRIZ Innovation Association & The International TRIZ Association (MATRIZ)
1	Majlis Rekabentuk Malaysia (MRM)	1	Welding Institute of Malaysia
2	The Institution of Geospatial and Remote Sensing Malaysia (IGRSM)	1	World Academy of Science, Engineering and Technology (WASET)

TOTAL ACTIVE STUDENTS 2025 AT FPTV

UNDERGRADUATE

1826 students



POSTGRADUATE

844 students

TOTAL

2670 students

UNDERGRADUATE PROGRAMS

NEW

BACHELOR OF VOCATIONAL EDUCATION WITH HONOURS

1. General Machining
2. Building and Construction
3. Catering
4. Welding and Metal Fabrication
5. Electrical & Electronics
6. Multimedia Creative
7. Air Conditioning and Refrigeration



Teacher-Training
+
Malaysia Skills Certificates (SKM)- Level 3

2

BACHELOR OF TECHNOLOGY WITH HONOURS

1. Building and Construction
2. Air Conditioning and Refrigeration
3. Industrial Electronics Automation
4. Electrical System Maintenance
5. Welding
6. Food Services
7. Industrial Machining
8. Food Service Industry



Technologist
+
Professional Certificates

INDUSTRIAL MODE



Bachelor of Technology
in Refrigeration and Air
Conditioning



Bachelor of Technology
in Industrial Machining



Bachelor of Technology
in Electrical
Maintenance System



Bachelor of Technology
in Industrial Electronic
Automation



Bachelor in Food
Service Technology



Bachelor of Technology
in Building
Constructions



Bachelor of Technology
in Welding

Currently Programs Malaysian Skills Certification at FPTV

01 MC-050-3:2012
Machining Operation

02 B-010-2
Building Constructor

03 HT-012-3:2012
Food Preparation & Production

04 MC-024-3:2012
Shielded Metal Arc Welding Process

05 EE-320-3:2012
Three Phase Electrical Installation & Maintenance

06 IT-070-3
Multimedia Designer-Authoring

07 ME-020-3:2012
HVAC Installation and Maintenance Supervision

08 C259-006-3:2020
Machining Operation CNC

NEW

Future Programs Malaysian Skills Certification at FPTV

01 F432-005-3:2019
Three Phase Electrical Installation & Maintenance

02 F432-007-3:2020
Heating, Ventilation, Air Conditioning (HVAC) Single Phase Installation and Maintenance

03 C259-008-3:2022
Shielded Metal Arc Welding Process

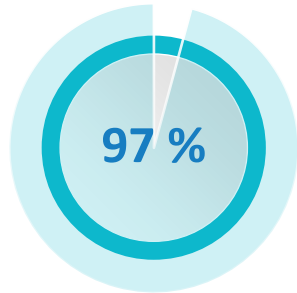
04 J582-001-3:2019
Interactive Multimedia Design

05 F410-001-3:2019
Building Construction Operation Supervision

06 I561-005-3:2022
Culinary Arts Operation

07 EE-021-3:2012
Electronic Equipment Troubleshooting, Repair & Maintenance

GRADUATE EMPLOYABILITY (GE)



GE FPTV

Data up to February,
2024

ISMPV degree ←
Meets VTO requirements

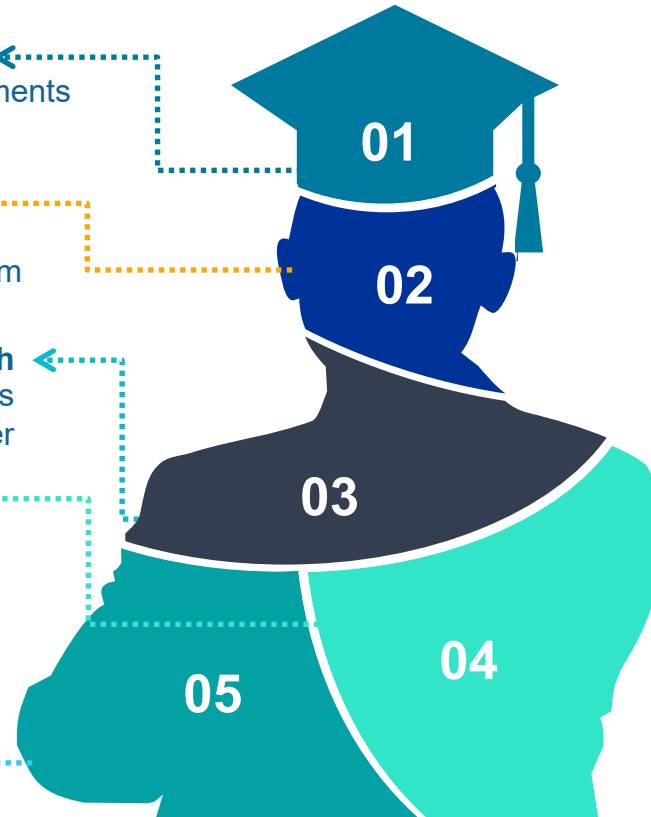
SKM ←
Embedded
in the curriculum

Second career path ←
Alternative routes
student career

Job Opportunities ←

- Instructor at TVET institution
- School Teacher
- PP/PPD/PPB at the Certified Center /ILKS

Industrial worker ←

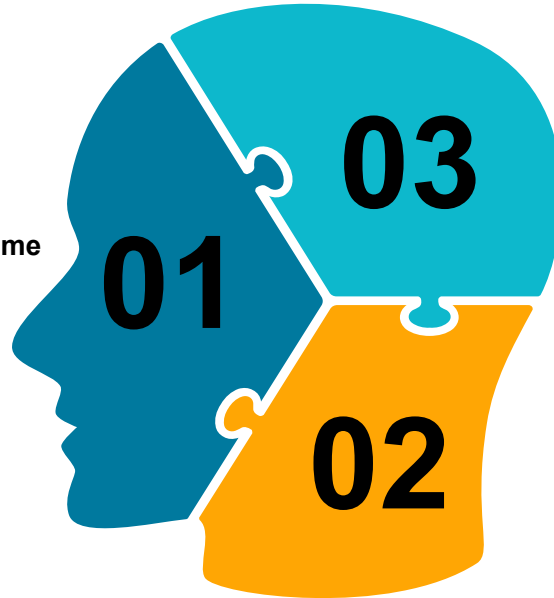


POSTGRADUATE PROGRAMS

DOCTOR OF PHILOSOPHY PROGRAMME (PhD)

By Research Full Time / Part Time

- Doctor of Philosophy (PhD) in Education (PBP)
- Doctor of Philosophy (PhD) in Technical and Vocational Education (PBV)



MASTERS DEGREE PROGRAMME

By Research Full Time or Part Time

- Master in Technical and Vocational Education (KBV)

By Coursework Full Time or Part Time

- Master in Technical and Vocational Education (MBV)
- Master of Technical Education (Civil Engineering) (MBC)
- Master of Technical Education (Electrical Engineering) (MBE)
- Master of Technical Education (Mechanical Engineering) (MBM)
- Master of Technical Education (Instructional Design and Technology) (MBT)

ENROLMEN

417 Master

224 PhD

FPTV NEW PROGRAM

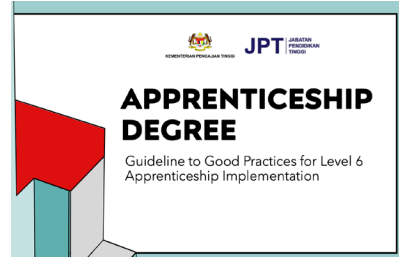
EXCEL

EXPERIENTIAL LEARNING AND
COMPETENCY-BASED EDUCATION LANDSCAPE
REAL - IDEAL - CARE - POISE

**Industry Driven
Experiential Learning
(IDEAL)**

**BACHELOR IN FOOD
SERVICE INDUSTRY
WITH HONOURS**

**SARJANA MUDA INDUSTRI
PERKHIDMATAN MAKANAN
DENGAN KEPUJIAN**



LEVEL OF MALAYSIAN QUALIFICATION FRAMEWORK (MQF)

Degree: Level 6

NEC

1013 – *Hotel, Restaurant & Catering*

STUDY MODE

Industrial Mode– *Apprenticeship*

APPROVAL STATUS

MSA JPT, KPT

- Approve: 2 August 2022

MQA COPTPA 01 PA TVET/QP 16332

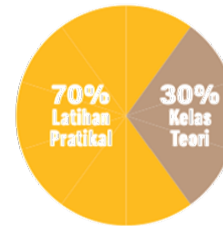
- Approve: 4 November 2022

JKPT

- UA-JKPT BIL.5/2022

PROGRAM OFFER SUGGESTED

- Sept 2023



This Program
integrated min **70%**
experiential learning
at McDonald's & min
30% theoretical
lecture at UTHM

Co-operation



Gerbang Alaf
Restaurant Sdn Bhd

Fakulti Pendidikan
Teknikal & Vokasional

Center at FPTV

DSD ACCREDITED CENTRE (K16002)

Faculty of Technical & Vocational Education has been accredited as a **JPK Accredited Center** with the center code **K16002** to certify the Malaysian Skills Certificate (SKM) to vocational education bachelor's degree students (ISMPV) since 2013 until now.



10

TAHUN

2013 - 2023

01 KOD NOSS : B-010-2 Tajuk Noss : Juru Bina Bangunan TAHAP 2 Bil SKM Semasa 20 BILANGAN PELAJAR 243 (+13)	03 KOD NOSS : MC-024-3:2012 Tajuk Noss : Proses Kimpalan Arka Kepingan Logam TAHAP 3 Bil SKM Semasa BILANGAN PELAJAR 98 (+32)	05 KOD NOSS : EE-320-3:2012 Tajuk Noss : Pemasangan & Penyelenggaraan Elektrik - Tiga Fasa TAHAP 3 Bil SKM Semasa BILANGAN PELAJAR 297 (+32)
02 KOD NOSS : IT-070-3 Tajuk Noss : Rekabentuk Multimedia Pengarangan TAHAP 3 Bil SKM Semasa 0 BILANGAN PELAJAR 193 (+24)	04 KOD NOSS : MC-050-3:2012 Tajuk Noss : Operasi Pemesinan TAHAP 3 Bil SKM Semasa 0 BILANGAN PELAJAR 125 (+39)	06 KOD NOSS : ME-020-3:2012 Tajuk Noss : Penyelidikan Pemasangan & Penyelenggaraan HVAC TAHAP 3 Bil SKM Semasa BILANGAN PELAJAR 130 (+15)

The Total Statistics of FPTV Students Who Have Successfully

Obtained SKM is **1097** peoples.
 (for March 2023 data)

Center at FPTV

AUTHORIZED TRAINING CENTRE DOE (ATC062)

Faculty of Technical & Vocational Education, Tun Hussein Onn University (UTHM) has been certified by the **Department of Environment (DOE)** as an **Authorized Training Center (ATC)** for the **Certification Service Technician Program (CSTP)** in the Refrigeration and Air Conditioning Sector (RACs) with center code **ATCo62** to certify the CSTP Certificate to UTHM students.



MASTER TRAINER

4



TECHNICIAN

107



STUDENT PARTICIPANTS

195



OTHER PARTICIPANTS

3

Center at FPTV

UNEVOC Centre

The UNESCO-UNEVOC International Centre for Technical and Vocational Education and Training is one of 8 UNESCO institutes and centres working in the field of education, and the only organization working to promote the United Nations' mandate through TVET. UNESCO-UNEVOC also contributes to the United Nations' mandate to promote peace, poverty alleviation, and sustainable development.



unesco

UNEVOC Network Member

CLUSTER

- Innovation and the Future of TVET
- SDGs and Greening
- Inclusion and Youth
- Industry / Private sector Engagement
- Education 2030
- TVET Teachers' Competency
- Entrepreneurship

FUTURE PLAN

- UNEVOC Logo usage
- Update Report from Committee
- Expand the center activity (mapping and integration of existing activity)
- Knowledge Transfer (seminar, forum)
- Research according to cluster
- Training (national and international)
- Collaboration with other center



UNESCO-UNEVOC

About Us Our Network Skills for Work and Life Knowledge Resources

Contact and Communication

Faculty of Technical and Vocational Education, University Tun Hussein Onn Malaysia (UTHM)
 Parit Raja
 86400 Batu Pahat
 Malaysia
prof@uthm.edu.my
 (+60) (7) 4564011
<https://www.uthm.edu.my>

UNEVOC Centre since 1999

Head of the UNEVOC Centre

Professor Ts. Dr. Ruzairi Abdul Rahim
 Universiti Tun Hussein Onn Malaysia
 Vice Chancellor
ruza@uthm.edu.my
 Johor
 Malaysia

Coordinator of the UNEVOC Centre

Dr. Affero Ismail
 Faculty of Technical and Vocational Education
 Head of Global Cooperation
affer@uthm.edu.my
 +6019-7789843
 Johor
 Malaysia

Please note: The contact information of the Coordinator (tel, fax and email) is only visible to other UNEVOC Centres. The contact details of the Head are only visible to UNEVOC staff, but not to the public nor to other UNEVOC Centres.

FPTV in RAVTE

Faculty of Technical and Vocational Education (FPTV) from University Tun Hussein Onn Malaysia (UTHM) is one of the delegates member in Regional Association of Vocational and Technical Education in Asia (RAVTE). Assoc Prof Ts Dr Razali bin Hassan is the solely representative on behalf of the Dean of FPTV in RAVTE's General Assembly.



The 2nd RAVTE Students Innovation Awards

Type of Awards

- Gold Award
- Silver Award
- Bronze Award
- Special Awards

Type of Work

- Novel & Innovative Research Articles that have been published or presented (within 3 years)
- Prototypes (computer game, software, media, hardware etc.)

Category of Work

- Group A: Innovations in technology and industry
- Group B: Innovations in energy / environment / safety
- Group C: Innovations in agricultural technology and food product
- Group D: Innovations in medicine and health
- Group E: Innovations in quality-of-life improvement
- Group F: Innovations in creativity and fine arts
- Group G: Innovations in educational construction
- Group H: Innovations in bio circular green economy
- Group I: Innovations in business management, commerce and logistics

Important Dates

- Application start date: 01 Feb 2023
- Application Deadline: 28 Apr 2023
- Short list announcement: 08 May 2023
- Presentation Date: 22 May 2023
- Written Announcement & Awarding Ceremony: 07 June 2023

Eligibility

- Graduate students (Team of 2-3 members including adviser(s))
- Undergraduate/ Diploma students (Team of 2-3 members including adviser(s))

Submission Guidelines

- Application forms download and submission could be made via RA/GE code provided.
- Submission list to complete includes:
 - Application form
 - Consentship letter (A one-page (A4 in-port) poster about your project/the engaged research (for faculty, carrying the work)
 - The document detailing the work
- The document format should include these topics (Please add if not included in your previous work):
 - Introduction
 - Purpose
 - Design/Technology/Approach
 - Practical results
 - Practical applications
 - Originality value
 - Keywords (5)
- Number of pages should be from 2 to 4 pages.
- All documents should be prepared in PDF format using Times New Roman font size 12.
- Submitting your application: Your application due date is 28 April 2023 at 8:00 pm. Please submit your application using online form via QR code provided.
- If there is any clarification or issues, please contact to our email: ravte-secretariat@umt.ac.th or tanawee_sikmurti.ac.th

QR Codes:

- Download form
- Registration/consentship
- Submit application
- Online announcement

<http://www.ravte-asia.mut.ac.th>

2022 RAVTE WEBINAR SERIES 1

FOSTERING QUALITY TVET POSTGRADUATE PROGRAM

12TH DEC 10AM - 12PM (Malaysia Time)

SCAN TO JOIN

<http://bit.ly/3tzcD07>

SPEAKER

- ASSOC. PROF. DR. SOMMAI PIVSA-ART
President of RAVTE
President of BAVTE
Thailand
- PROF. DATUK. IB. TS. DR. WAHID RAZZALI
Former Vice Chancellor
UM Malaysia
- DR. NGUYEN THANH THUY
HCMC University of Technology and Education
Vietnam
- ASSOC. PROF. DR. JUN LI
Tongji University
China

Host:
ASSOC. PROF. TS. DR. RAHAZUDDIN B. IBRAHIM
Dean
Department of Research, Innovation & Academic Support

RAVTE Webinar Series 1 is an event in conjunction with the 8th World Congress on Technical Vocational Education and Training (WCVET 2022). This webinar will serve as a forum for the knowledge sharing and exchange of information on managing the TVET postgraduate program.

Organized by:
Faculty of Technical and Vocational Education, UTHM
Malaysia Research Institute for Vocational Education and Training (MyRIVET)

Partners:
MyRIVET, UNESCO, UTHM

NINGBO POLYTECHNIC-CHINA CENTER

Ningbo Polytechnic-China Center was established in 2018 with the collaboration between Faculty of Technical and Vocational Education (FPTV), Universiti Tun Hussein Onn Malaysia (UTHM) and Ningbo Polytechnic (NBPT), China. The center plays vital role in empowering Technical and Vocational Education (TVET).



Center at FPTV

UTHM-LABTECH DIGITAL INNOVATION CENTRE



UTHM-LABTECH DIGITAL INNOVATION CENTRE

Advisor



Prof. Ir. Ts. Dr. Ruzairi Bin Abdul Rahim
Vice-Chancellor, UTHM



Prof. Ts. Dr. Rabiah binti Ahmad
Deputy Vice-Chancellor (Research and Innovation), UTHM



Assoc. Prof. Ts. Dr. Abdul Kamil Bin Abdul
Dean, FPTV, UTHM



Dr. Steven McKee
Founder & President
Labtech International Ltd

Industry Partner



Mr. Shahmir Shafiek
Project Coordinator / Assistant of Head of Centre



Mr. Sharief Sultan
Subject Matter Representative



Mr. Brad Ker
Digital Content Specialist



Mr. Ignatius David
ICT Representative

Introduction

Digital Innovation Centre is responsible to accelerate the development of innovative solutions for digital learning from the research & development stage to the commercially available stage. As a teaching and innovation centre, it provides a flexible and efficient avenue to improve digital teaching and learning.

Vision

To become leader in the development of DIGITAL LEARNING

Mission

To mainstream and empower Digital Learning through training, research, development, technology and innovation for nation.

Objectives

- 1) Develop a 2 years for knowledge and technology transfer, guiding UTHM to support industry partners to solve problems, providing digital learning through training and capacity building activities.
- 2) Open up opportunities for more systematic development, research and consultancy activities with industry partners, especially in the areas of TVET, digital content and technical assistance to SMEs.
- 3) Increase a proprietary step for further grant applications either for research or consultation from the Ministry of Education Malaysia (MOE), Ministry of Higher Education Malaysia (MAM), Ministry of Science, Technology and Innovation (MSTI), and development bank (MAM, MAM, MAM or MAM).
- 4) Expand the experience sharing and technology transfer in digital content development and innovation in teaching & learning towards digital transformation.
- 5) Serve as an incubator in planning and designing digital content that follows the requirements of the latest curriculum and technology.
- 6) Increasing a production house that manages content projects in collaboration with industry to produce quality products towards a global technopreneur university.

Build your own future

Affiliate Fellow
Mr. Md Azizi Bin Shams - Dr. Nurhasyiah Bt Hamzah - Dr. Nur Syazmin Bt Mohd Razali - Mr. Yusoffudin Bin Hamzah - Ts. Dr. Zurina Binti Yusoff - Ts. Dr. Marissa Binti Mohd - Ts. Dr. Dania Ismail Bt Rosli - Dr. Haniffa Binti Hamid - Ts. Dr. Faridha Bt Abd Halim



International Consultation

USD66,055

- 1) UNESCO TVET leadership Program: Development of Digital Content and OER - USD25,000
- 2) Capacity Building Programme for TVET - USD5,000
- 3) Technical support to re-brand Maldives Polytechnic - USD11,055
- 4) Adoption of Digital Competency Framework for TVET - USD25,000

Research Grant

RM 325,000



CENTRE & RESEARCH GROUPS

CENTRE OF RESEARCH

1. ADVANCED CENTRE FOR TECHNICAL AND VOCATIONAL EDUCATION (ACTIVE)
2. SUSTAINABLE PROFESSIONAL EXCELLENCE EDUCATION DEVELOPMENT (SPEED)

CENTRE OF INDUSTRY

1. UTHM-LABTECH DIGITAL INNOVATION CENTRE

FOCUS GROUP

1. EXPERIENTIAL LEARNING (ExL)
2. INSTRUCTIONAL DESIGN AND TECHNOLOGY (IDT)
3. TEAM TEST, EVALUATION, ASSESSMENT & MEASUREMENT (TEAM)
4. DIGITAL EDUCATIONAL TECHNOLOGY & RESOURCES (DETR)
5. COMMUNITY BASED SUSTAINABILITY TOURISM (CBST)

NEW FOCUS GROUP

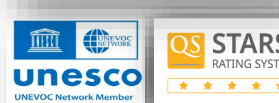
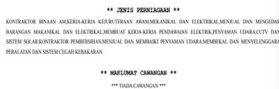
1. WELDING PROCESSES AND PRODUCTION SYSTEMS (WeldPro-S)
2. HEATING, VENTILATION, AND AIR CONDITIONING SYSTEM (HVAC)
3. RENEWEABLE ENERGY TECHNOLOGY (RenTECH)
4. KATERING & HOSPITALITY (HOSPITALITY)
5. DATA ANALITIC AND APPLICATION (DAA)

TVET TECHNOPRENEUR FPTV

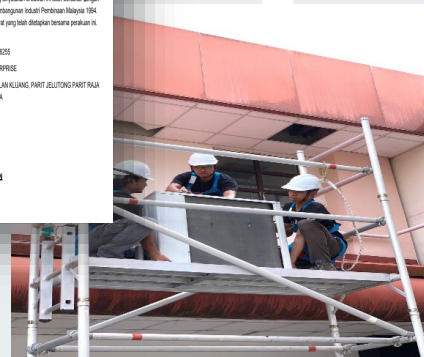
Establishment of CIDB Registered Student Company

Code M0 1: Carrying out HVAC works

- HZ KUCHO Enterprise
- KNR Tech Engineering Sdn Bhd



Global Technopreneur
University 2030



TVET TECHNOPRENEUR FPTV

A service in the form of a kiosk that provides quality coffee and provides a comfortable place and space for those who come to visit in line with the latest space concept that will be located in the RMC building, at Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Johor.



TVET TECHNOPRENEUR FPTV

The Heating Ventilation and Air Conditioning (HVAC) Student Company of the Faculty of Technical and Vocational Education successfully obtained a contract for Service and Maintenance of Air Conditioning Equipment in Blocks B6, B7, B8 and D15 worth **RM11,910.00** for 5 months under the Work@ Project Campus.



PROGRAM RECOGNITION



LIST MOU WITH INDUSTRY

43

Industry

MEGAMAJU
TERAS MEGAMAJU SDN BHD

 **BARISTA GUILD ASIA™**
BARISTA GUILD ASIA SDN BHD



EEW MALAYSIA SDN BHD

 **Domino's**
DOMMAL FOOD SERVICES SDN BHD



AFA TECHNOLOGIES

 **DB**
DUNHAM-BUSH

DUNHAM-BUSH INDUSTRIES SDN. BHD

 **GPIBS**
GPIBS SDN BHD

 **prihoda.**
Fabric Ducting & Diffusers
PRIHODA MALAYSIA SDN BHD



BINAAN DESJAYA SDN BHD



LABTECH INTERNATIONAL

SIASUN
SIASUN AUTOMATION SINGAPORE PTE LTD

 **ONGBROS**
HVAC ENGINEERING SDN BHD
ONGBROS HVAC ENGINEERING SDN BHD



TASEK KASTURI SDN. BHD



DOMINO'S PIZZA MALAYSIA SINGAPORE



SAN MIGUEL YAMAMURA PLASTIC

LIST MOU WITH INDUSTRY



POTENTIAL AREAS OF COLLABORATION ACADEMIC & RESEARCH



1. Bengkel Penyejukan & Penyaman Udara Domestik & Komersial 1
2. Bengkel Penyejukan & Penyaman Udara Domestik & Komersial 2
3. Bengkel Teknologi Berasaskan Kayu & Perabut
4. Bengkel Teknologi Pembuatan Termaju
5. Bengkel Pendawaian Elektrik
6. Bengkel Fabrikasi Logam & Pemeriksaan Bahan
7. Bengkel Pemesinan
8. Bengkel Kerja Bata
9. Bengkel Kimpalan
10. Studio Fotografi & Repografi
11. Studio Audio & Video Digital
12. Studio Pendidikan
13. D'Onions Restaurant
14. Cilantro Restaurant
15. Makmal Komputer Building Information Modelling (BIM)
16. Makmal Perkhidmatan Bangunan & Ukur
17. Makmal Pengajaran Multimedia & IT
18. Makmal Bekalan Kuasa Elektrik
19. Makmal Grafik Kejuruteraan
20. Makmal Teknologi Elektrik
21. Makmal Pengajaran Mikro
22. Makmal Komputer Umum
23. Makmal Industri Festo
24. Makmal Elektronik
25. Makmal AutoCAD
26. Makmal IoT



LAB WORKSHOPS & FACILITIES

Domestic & Commercial Refrigeration & Air Conditioning Workshop 1

Fungsi

Bengkel Penyejukan & Penyaman Udara Domestik & Komersial 1 menyediakan keperluan bagi program Ijazah Sarjana Muda Pendidikan Vokasional Penyejukan dan Penyaman Udara dan Sarjana Muda

Teknologi Penyejukan dan Penyaman Udara. Melatih pelajar dalam kerja - kerja penyelenggaraan, baik pulih dan pemasangan sistem penyaman udara domestik dan komersil.

Peralatan utama

- Penyaman Udara 1hp wall mounted type - 15 unit.
- Penyaman udara wall mounted 1hp (inverter unit) - 2 unit.
- Air cooled packaged unit 6hp - 1 unit
- Penyaman udara VRF unit 5hp - 1 unit
- Water cooled chiller with water cooled condenser trainer unit - 1 unit.
- Digital Smart Probe for hvac inspection - 10 unit

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Penyeliaan, Penyelenggaraan dan Pemasangan Sistem HVAC.

Pusat tauliah untuk CSTP di bwh Jabatan Alam Sekitar



LAB WORKSHOPS & FACILITIES

Domestic & Commercial Refrigeration & Air Conditioning Workshop 2

Fungsi

Bengkel Penyejukan & Penyaman Udara Domestik & Komersial 2 menyediakan keperluan bagi program Ijazah Sarjana Muda Pendidikan Vokasional Penyejukan dan Penyaman Udara dan Sarjana Muda

Teknologi Penyejukan dan Penyaman Udara. Melatih pelajar dalam kerja - kerja penyelenggaraan, baik pulih dan pemasangan sistem penyaman udara domestik dan komersil.

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- Water cooled chiller with water cooled condenser trainer unit - 1 unit.
- Digital Smart Probe for hvac inspection - 10 unit

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Penyeliaan, Penyelenggaraan dan Pemasangan Sistem HVAC.



LAB WORKSHOPS & FACILITIES

Wood Based Technology & Furniture Workshop

Fungsi

Bengkel Teknologi Berasaskan Kayu & Perabut menyediakan fasiliti dan kemudahan peralatan untuk pelajar program Ijazah Sarjana Muda Pendidikan Vokasional (Binaan Bangunan) dan

Sarjana Muda Teknologi Binaan Bangunan terutamanya amali bagi kerja-kerja kayu dan Perkhidmatan Bangunan.

Peralatan utama

- Radial Arm Saw - 1 unit
- Thicknesser - 1 unit
- Table Saw - 1 unit
- Automatic Hollow Chisel Mortiser - 1 unit
- Jointer - 1 unit



LAB WORKSHOPS & FACILITIES

Advanced Manufacturing Technology Workshop

Fungsi

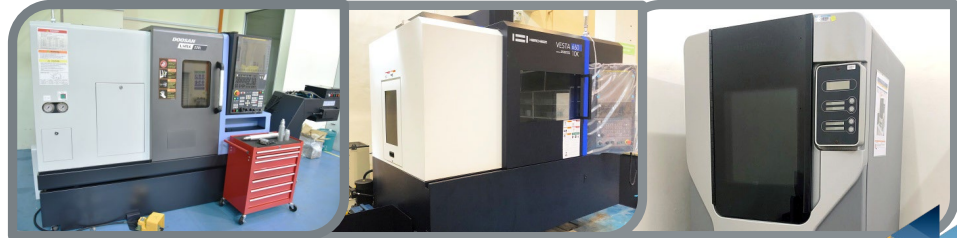
Bengkel Teknologi Pembuatan Termaju menyediakan fasiliti dan kemudahan kepada pelajar dengan penggunaan mesin berteknologi tinggi yang dikawal oleh komputer. Pelajar dalam bidang Sarjana Muda Pendidikan Vokasional

Pemesian dan Sarjana Muda Teknologi Pemesinan akan terlibat dalam penggunaan makmal ini.

Peralatan utama

- CNC 3 axis milling machine
- CNC lathe machine
- Edm machine
- 3D printer
- 3D scanner
- Software mastercam

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Operasi Pemesinan.



LAB WORKSHOPS & FACILITIES

Electrical Wiring Workshop

Fungsi

Bengkel Pendawaian Elektrik menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang Sarjana Muda Pendidikan Vokasional (Elektrik & Elektronik), Sarjana Muda Teknologi

Penyelenggaraan Sistem Elektrik dan Sarjana Muda Teknologi Automasi Elektronik Industri terutamanya amali bagi kursus Pendawaian & Pemasangan Elektrik, Kemahiran Pendawaian Domestik, Kemahiran Pendawaian Industri, Building Services, Energy Efficiency dan Projek Pelajar.

Peralatan utama

- Wiring Bay Surface - 20set
- Wiring Bay Conceal - 9 set
- Analog Insulation Continuty Tester
- Digital Insulation Continuty Tester
- Digital Rcd(ELCB) Tester
- Earthing Digital Tester

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Pemasangan dan Penyelenggaraan Elektrik.



LAB WORKSHOPS & FACILITIES

Metal Fabrication and Material Inspection Workshop

Fungsi

Makmal Fabrikasi Logam dan Pemeriksaan Bahan menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang kemahiran. Aktiviti utama yang dijalankan adalah memproses dan membentuk bahan logam menjadi produk.

Selain itu, pelajar boleh menganalisa bahan logam untuk menentukan ciri-ciri sesuatu bahan menggunakan kaedah ujian tanpa musnah (NDT). Aktiviti yang dijalankan merangkumi penggunaan seperti mesin pengimpal, mesin pemotong, mesin pembentuk logam, peralatan NDT serta peralatan.

Peralatan utama

- Welding MIG
- Welding TIG
- Welding Gas
- CNC Plasma Cutting
- Plasma Cutting Machine
- Bending Pipe
- Hand Tools



LAB WORKSHOPS & FACILITIES

Machining Workshop

Fungsi

Bengkel Pemessinan menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang Sarjana Muda Pendidikan Vokasional Pemessinan dan Sarjana Muda Teknologi Pemessinan. Menyediakan kemudahan untuk pelajar dalam bidang

Pemessinan Am untuk membuat kerja amali bagi kursus Kemahiran Pemessinan 1 dan 2 yang merangkumi penggunaan mesin konvensional seperti Mesin Larik, Kisar, Pencanai Permukaan, Pencanai Tanpa Tetengah serta kerja-kerja menggegas.

Peralatan utama

- Lathe Mesin -10 unit
- Milling Machine - 4 unit
- Surface Grinder - 1 unit
- Centerless Grinder - 1 unit

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Operasi Pemessinan.



LAB WORKSHOPS & FACILITIES

Brickwork Workshop

Fungsi

Bengkel Kerja Bata menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang Sarjana Muda Pendidikan Vokasional (Binaan Bangunan) dan Sarjana Muda Teknologi Binaan

Bangunan terutamanya amali kerja bata dan pembinaan struktur konkrit bangunan

Peralatan utama

- Concrete mixer-3unit
- Barbending machine -1unit
- Radial arm saw- 1 unit
- Table saw- 1 unit



LAB WORKSHOPS & FACILITIES

Welding Workshop

Fungsi

Bengkel Kimpalan menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang Sarjana Muda Pendidikan Vokasional Kimpalan dan Fabrikasi Logam dan Sarjana Muda Teknologi Kimpalan.

Di bengkel ini pelajar akan belajar proses-proses kimpalan seperti kimpalan arka, kimpalan TIG, kimpalan MIG, pemotongan plasma dan ujian tanpa musnah.

Peralatan utama

- Mesin Kimpalan Arka – 10 Unit
- Mesin Kimpalan Tig – 6 Unit
- Mesin Kimpalan Mig – 6 Unit
- Mesin Pemotong Plasma – 1 Unit
- Mesin Kimpalan Berautomasi (Robotik) - 1 unit

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Proses Kimpalan Arka Kepingan Logam.



LAB WORKSHOPS & FACILITIES

Photography & Repography Studio

Fungsi

Studio Fotografi dan Repografi menyediakan kemudahan untuk pelajar berkaitan Fotografi seperti teknik asas fotografi, penggunaan studio fotografi, penyuntingan gambar dan

percetakan dalam proses pembelajaran dan pengajaran teknologi pendidikan dan projek PSM.

Peralatan utama

- DSLR Kamera - 25 unit, lens, speed light dan tripod
- Studio light - 4 unit
- Background - 2 unit
- Penyuntingan gambar - 5 unit
- Laminating – 1 unit



LAB WORKSHOPS & FACILITIES

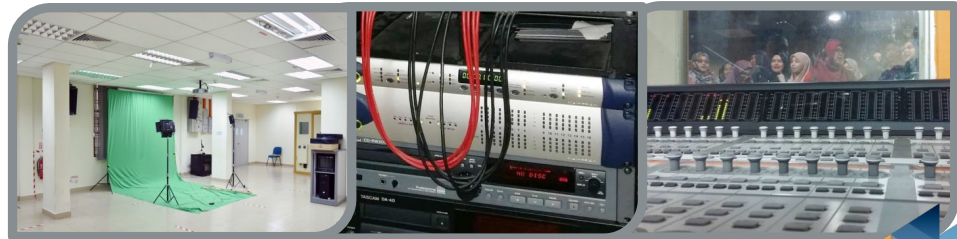
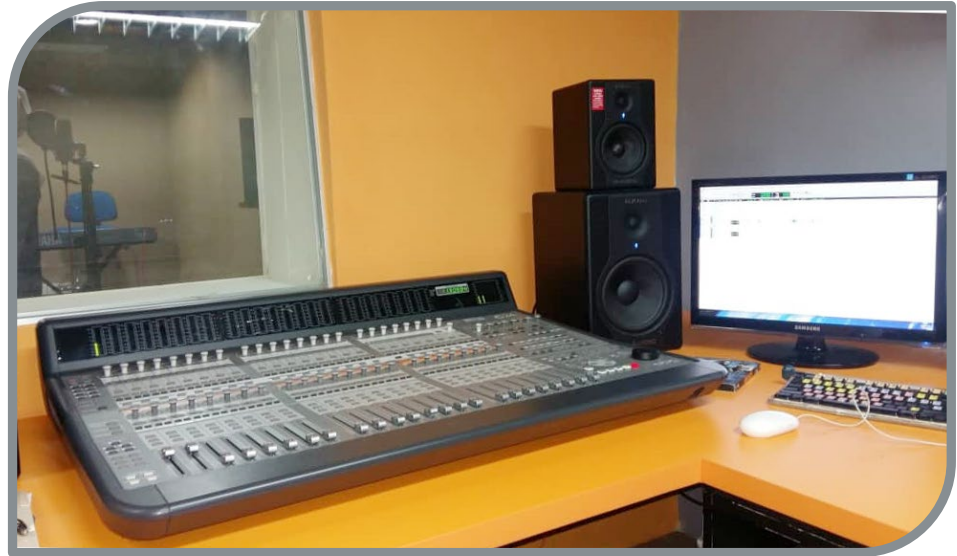
Digital Audio and Video Studio

Fungsi

Studio Audio dan Video Digital menyediakan kemudahan untuk pelajar membuat rakaman audio dan video dalam pengajaran dan projek PSM..

Peralatan utama

- Kamera Video
- Video Editing system
- Mini studio untuk Layar Chromakey
- MCP (Multicamera Production)
- Studio Rakaman Audio (Kedap Bunyi)



LAB WORKSHOPS & FACILITIES

Education Studio

Fungsi

Studio Pendidikan menyediakan kemudahan untuk pelajar P&P dan aktiviti-aktiviti seminar, bengkel bagi peningkatan kemahiran pelajar dan staf fakulti. Kapasiti penuh ialah seramai 170 orang boleh digunakan dalam satu-satu masa.

Peralatan utama

- Smart Projection and audio system



LAB WORKSHOPS & FACILITIES

Catering Lab

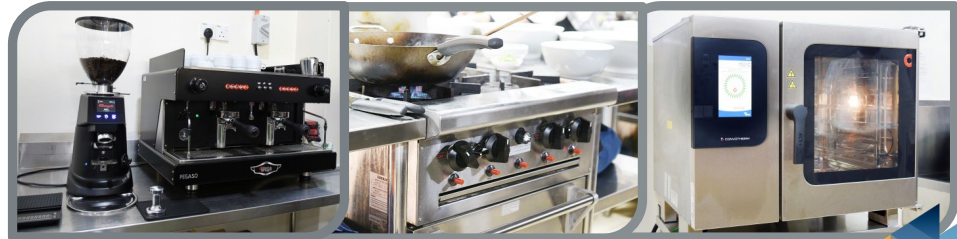
Fungsi

Makmal Katering menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang Sarjana Muda Pendidikan Vokasional (Katering) & Sarjana Muda Teknologi Penyediaan Makanan. Antara kerja-kerja amali menggunakan

kemudahan di makmal ini ialah kursus Bakeri, Operasi Kafeteria, Amalan Penyajian, Artistri Makanan, Seni Kulinari, Barista dan projek pelajar

Peralatan utama

- 3 Deck Oven Machine - 1 unit
- Industrial Stand Mixer - 1 unit
- 4 burner gas stove with oven - 5 unit
- Combi Oven - 1 unit
- 4 Doors upright freezer - 2 unit
- 4 Doors upright chiller - 2 unit



LAB WORKSHOPS & FACILITIES

Building Information Modeling (BIM) Computer Lab

Fungsi

Makmal Komputer Building Information Modelling (BIM) Menyediakan kemudahan pengajaran dan pembelajaran bagi memenuhi program Sarjana Muda Pendidikan Vokasional (Binaan Bangunan)

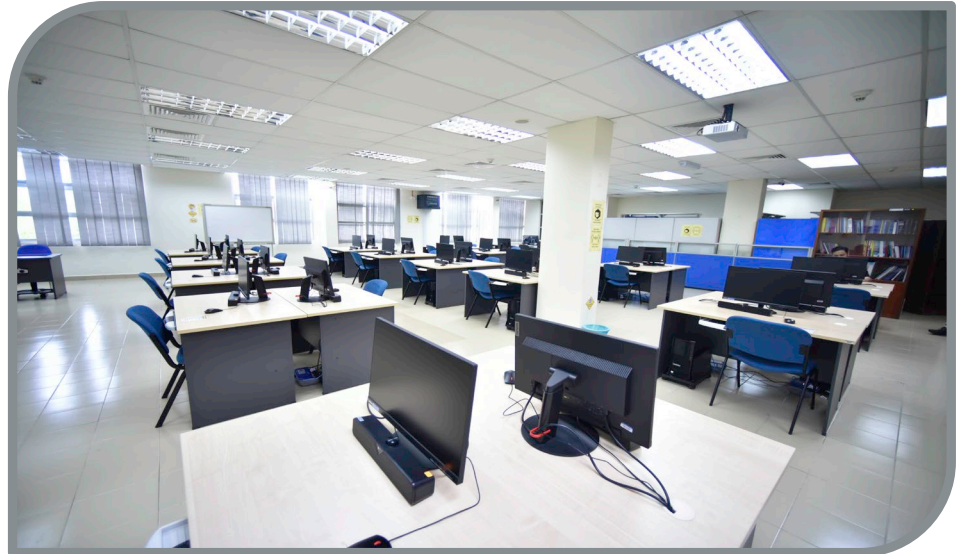
dan Sarjana Muda Teknologi Binaan Bangunan. Di makmal ini pelajar diajar untuk menghasilkan kerja-kerja rekaan grafik menggunakan perisian TriffinBIM, Solidworks dan Microsoft Teams. Di akhir semester, pelajar akan berkemahiran untuk menghasilkan projek akhir mata pelajaran masing-masing.

Peralatan utama

- Set Komputer : 31 unit

Perisian digunakan di makmal ini :

- TriffinBIM 12
- Solidworks Education Edition
- Microsoft Teams.



LAB WORKSHOPS & FACILITIES

Service Lab Building & Surveying

Fungsi

Makmal Perkhidmatan Bangunan & Ukur menyediakan kemudahan untuk pelajar bagi program Sarjana Muda Pendidikan Vokasional Binaan Bangunan dan Sarjana Muda Teknologi Binaan Bangunan untuk membuat Amali bagi kursus ukur kejuruteraan, Perpaipan Domestik dan Perkhidmatan Bangunan.

Peralatan utama

- Threading Machine - 2 unit
- Automatic Level - 8 set
- Surveying Compass - 8 set
- Total Station - 8 set

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Operasi pembinaan bangunan.



LAB WORKSHOPS & FACILITIES

Multimedia & IT Teaching Lab

Fungsi

Makmal Pengajaran Multimedia dan IT menyediakan kemudahan untuk pelajar membuat amali bagi kursus Multimedia Kreatif. Semua program pengajian di FPTV akan menggunakan kemudahan yang disediakan di Makmal ini.

Peralatan utama

- Komputer MacPro - 21 unit
- Komputer Dell - 20 unit

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Artis Multimedia.



LAB WORKSHOPS & FACILITIES

Electric Power Supply Laboratory

Fungsi

Makmal Bekalan Kuasa Elektrik menyediakan fasilitis dan kemudahan peralatan Amali pengajaran dan pembelajaran Sistem Bekalan Kuasa Elektrik (Renewable Energy) untuk pelajar Ijazah Sarjana Muda Pendidikan Vokasional dalam bidang Elektrik dan Elektronik dan Ijazah Sarjana Muda Penyelenggaraan Sistem Elektrik.

Peralatan utama

- 5KW Single Phase Hybrid Solar PV System
- 8KW Three Phase On Grid Solar PV System
- Renewable Energy System dan Maintenance
- Wind Energy System



LAB WORKSHOPS & FACILITIES

Engineering Graphics Lab

Fungsi

Makmal Grafik Kejuruteraan menyediakan kemudahan pengajaran dan pembelajaran untuk pelajar bagi memenuhi keperluan program ISMPV. Di makmal ini pelajar dilatih untuk menghasilkan kerja - kerja lukisan secara manual mengikut RPP yang telah disediakan.

Di akhir semester hasil kerja pelajar akan difailkan di fail SKM bidang masing-masing.

Peralatan utama

- Set meja lukisan - 30 unit

Program SKM 2 : Kod NOSS: EE-320-2:2012
Tajuk NOSS: Pemasangan & Penyelenggaraan Elektrik - Satu Fasa
Tajuk CU: Lukisan Fasa Satu

Program SKM 3: Kod NOSS: EE-320-3:2012
Tajuk NOSS: Pemasangan & Penyelenggaraan Elektrik -Tiga Fasa
Tajuk CU: Lukisan Tiga Fasa
SKM Bidang Awam (Binaan Bangunan)



LAB WORKSHOPS & FACILITIES

Electrical Technology Laboratory

Fungsi

Makmal Teknologi Elektrik menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang Sarjana Muda Pendidikan Vokasional (Elektrik & Elektronik), Sarjana Muda Teknologi

Penyelenggaraan Sistem Elektrik dan Sarjana Muda Teknologi Automasi Elektronik Industri terutamanya amali bagi kursus Mesin Elektrik, Kawalan Motor, Sistem Bekalan Kuasa, Sistem Solar, Baik Pulih Peralatan, Pengujian Elektrik, Teori Litar & Projek Pelajar.

Peralatan utama

- Electrical Machine Trainer (4 Set)
- Industrial Controls Training Systems (2 Set)
- Transmission Trainer
- Switchboard Demonstrator (2 Set)
- Motor Control Training Unit (25 set)

Sebagai Pusat Bertauliah bagi Sijil Kemahiran Malaysia (SKM) Tahap 3 Pemasangan dan Penyelenggaraan Elektrik.



LAB WORKSHOPS & FACILITIES

Micro Teaching Lab

Fungsi

Makmal Pengajaran Mikro menyediakan kemudahan untuk pelajar Ihtisas Pendidikan dalam P&P antara kursus yang terlibat ialah Pedagogi Dalam Pendidikan dan Pengajaran Mikro. Kemudahan makmal ini digunakan untuk semua program Sarjana Muda dan juga Pasca Siswazah.

Peralatan utama

- Projection system
- Sistem Rakaman
- PA System
- Online System



LAB WORKSHOPS & FACILITIES

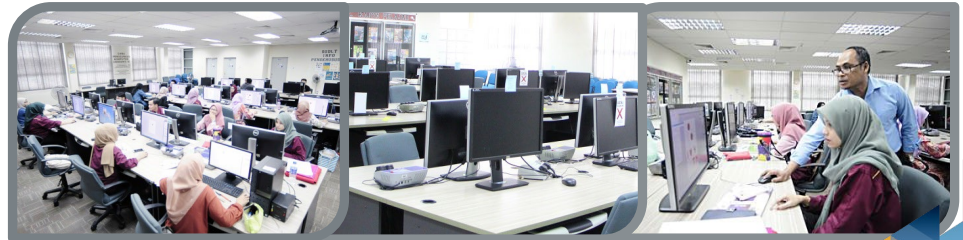
Computer Lab

Fungsi

Makmal Komputer Umum menyediakan kemudahan untuk pelajar membuat amali dalam bidang statistic, analisis qualitative & multimedia.

Peralatan utama

- Komputer Dell - 31 unit



LAB WORKSHOPS & FACILITIES

Festo Industrial Laboratory

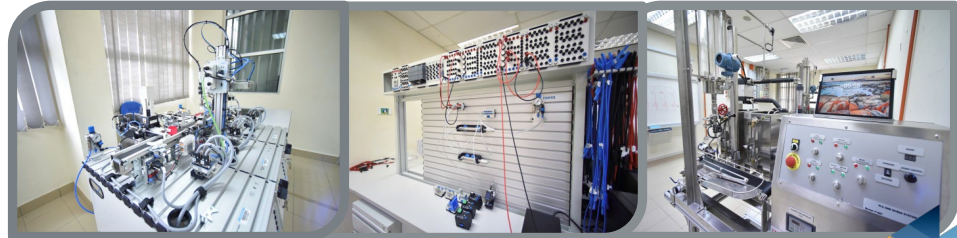
Fungsi

Makmal Industri FESTO menyediakan kemudahan pengajaran dan pembelajaran untuk pelajar bagi memenuhi keperluan program Btech dan ISPMV. Di makmal ini pelajar mempelajari teknologi automasi,

Sistem pneumatik dan SCADA. Pelajar diajar menggunakan software fluidsims untuk melihat simulasi pneumatik dan elektro pneumatik. Selain itu pelajar juga diajar untuk memprogram sistem automasi menggunakan PLC. Software TiaPortal digunakan untuk mereka bentuk sesuatu program.

Peralatan utama

- Set Pneumatik, ElectroPneumatik - 3 set
- MPS station (distribution, joining and sorting) - 1 set
- SCADA sistem - 3 station



LAB WORKSHOPS & FACILITIES

Electronics Lab

Fungsi

Makmal Elektronik menyediakan fasiliti dan kemudahan peralatan untuk pelajar dalam bidang Sarjana Muda Pendidikan Vokasional (Elektrik & EElektronik), Sarjana Muda Teknologi Penyelenggaraan Sistem

Elektrik dan Sarjana Muda Teknologi Automasi Elektronik Industri terutamanya amali bagi kursus Sistem Digit, Elektronik, Sistem Telekomunikasi, Asas IoT, Kemahiran Baikpulih Peralatan Elektrik & Elektronik dan Projek Pelajar. Pelajar didedahkan untuk menghasilkan papan litar elektronik menggunakan mesin engraver PCB.

Peralatan utama

- Trainer Elektronik/digit - 10 uniTrainer Elektronik/Digit - 10 unit
- Mesin Engraver PCB - 1 unit
- Software multisim - 10 unit



LAB WORKSHOPS & FACILITIES

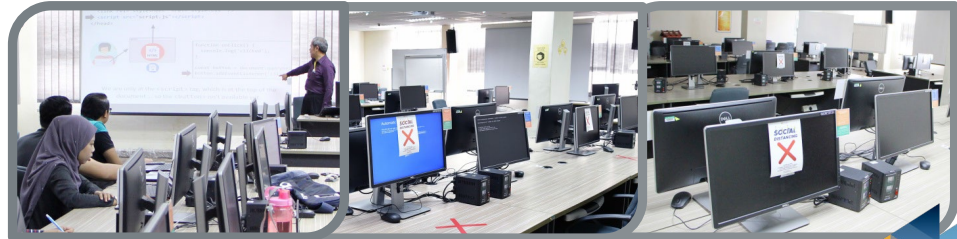
AutoCAD Lab

Fungsi

Makmal Autocad menyediakan kemudahan untuk pelajar membuat amali bagi subjek Lukisan Kejuruteraan menggunakan perisian Autocad bagi bidang elektrik, mekanikal dan awam..

Peralatan utama

- Komputer Dell - 30 unit



LAB WORKSHOPS & FACILITIES

IoT Lab

Fungsi

Makmal Comptia menyediakan kemudahan untuk pelajar dalam bidang Elektrik, Elektronik dan Multimedia Kreatif untuk membuat amali elektrik, elektronik dan multimedia kreatif. Makmal ini juga lebih menumpukan kepada perkembangan terkini dalam IoT.

Peralatan utama

- Troubleshooting Computer – 20 biji
- CCTV Security System – 2 set
- Practical Network and Cabling - 2 set
- 4. KNX Smart Home Security System - 1 set
- Fire Alarm System Trainer - 1 set



THANK YOU



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