

Diploma in Renewable Energy Technologies

TVET/QPSWA 17902

Power Your Future With Renewable Energy

DRET

The Diploma in Renewable Energy Technologies (DRET) at UNITEN is an industry-driven TVET program that blends theory with hands-on learning and Work-Based Learning (WBL). Students gain skills in electrical systems, renewable energy, and solar PV technologies, with training on campus, at ILSAS, and through real-world industry placements.

Opportunities

- ✔ Start careers as skilled technicians in renewable energy.
- ✔ Continue studies in engineering or sustainable energy degrees

Programme Duration : ✔ 2.5 Years

Strong Industry Linkages for a Seamless Career Path

UNITEN's close ties with top industry players offer students real-world exposure through structured Work-Based Learning (WBL) and industrial training, ensuring they graduate workforce-ready.

Career Prospects:

- Solar PV Installation Technician
- Renewable Energy Technician
- Solar System Maintenance
- Project Assistant in Renewable Energy Project
- Site Supervisor
- Energy Efficiency Technician
- Assistant Engineer
- Field Service Technician
- Wireman
- Lab Technician

Course Offered:

Sem I (UNITEN Campus Putrajaya)

- Introduction to Electrical and Electronics
- Fundamental of Electrical and Electronics Laboratory
- Basic Information Technology
- English for Diploma
- Penghayatan Etika & Peradaban
- Islamic/Moral Studies

Sem II (UNITEN Campus Putrajaya)

- Electric Circuits
- Introduction to Renewable Energy
- Digital Electronics
- Instrumentation
- Microcontroller and Interfacing Lab (IOT)
- Occupational Safety & Health (OSH)

Sem III (UNITEN Campus Putrajaya)

- Kursus Integriti & Anti Rasuah
- Low Carbon Technologies
- Machine and Power Electronics
- Electrical Wiring
- Electrical Safety & Hazards

Sem IV (Selected Industry Partner)

- Power System
- Electricity Sustainable Applications
- Mechanical Manufacturing Workshop
- Consumer Installations & Testing
- Battery Storage and Electric Vehicle

Sem V (WBL at Selected Industry Partner)

- Solar PV Installation, Test & Commissioning
- Solar PV Operation & Fault Preventive Maintenance
- Final Year Project
- Industrial Training

Entry Requirements:

Applicants must meet **ONE** of the following:

- Certificate Level 3 (SKM) or equivalent in the same field, **OR**
- Pass SPM or equivalent with min credits (grade C) in at least three (3) subjects, **OR**
- Pass SPMV or equivalent with a minimum of three (3) credits.

Fees: RM28,800 (Malaysian)

Head of Program:

Assoc. Prof. Ir. Dr. Goh Chin Hock

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