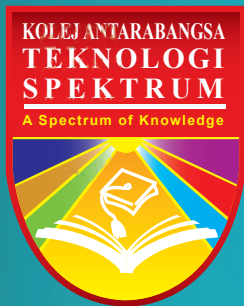


Registration No : DK095(B)



Dual Qualification @SPECTRUM double the reward without doubling the study.

Sustainable. Innovative. Creative. Technology Driven.

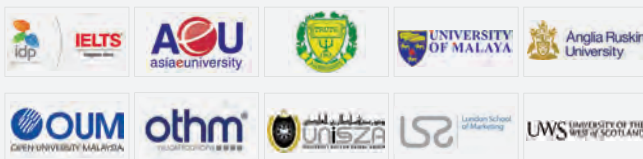
Better Education for a Better Future



DIPLOMA IN RENEWABLE ENERGY MANAGEMENT


(Approval Code : R/522/4/0035)






Our Partners



Recognised By



 **Spectrum Education Group**
Unit 13 -G, Jalan OP1/2, One Puchong Business Park, 47160, Puchong, Selangor
Spectrum Education Group
Lot 2F-26A, The Main Place Mall, Level 2, Jalan USJ 21/10,
Persiaran Kewajipan, 47630, Subang Jaya, Selangor, Malaysia

1700.818.912 
1700.817.013 
1700.817.013 
www.spectrum.edu.my 
info@spectrum.edu.my 

ABOUT SPECTRUM INTERNATIONAL COLLEGE OF TECHNOLOGY

Spectrum Education Group aims to create leaders, innovative thinkers, and problem solvers - people capable of tackling the most pressing world challenges. We aim to produce quality graduates capable of performing in demanding work environments.

Each of our academic, vocational and adult learning programmes is also designed to equip students with the knowledge and skills they need for a rewarding and successful career. We constantly review and renew our courses based on the local and international industry requirements, so that they are relevant, modern and equip students for careers anywhere in the world. We are proud to have 15 years' experience in delivering education service and currently have more than 1,000 students and staffs working together, exploring new ways of thinking and engaging with significant social and scientific challenges of our time.

CHAIRMAN MESSAGE

I am indeed honoured to be officially leading this young and gallant team, comprising some formidable professionals who have had extensive administrative and teaching experience. Together we will push Spectrum Education Group (SEG) to another height and work tirelessly to make SEG the chosen place for young generation to pursue their dreams. This, of course requires hard work, determination, resilience, no compromises on standards and quality and active involvement of all parties involved. With great plans for the future and God Will, with His Blessing, SEG will serve you 'A Better Education For A Better Future'.

Yours sincerely,
Prof. Emeritus Tan Sri Dato' Dr. Mohamed Salleh Mohamed Yasin
Chairman/Academic Advisor,
Spectrum Education Group



CEO MESSAGE

The intensity of progress the world has seen today makes it essential for students to foster talent and skill sets which are effective across diverse cultures. At Spectrum International College of Technology (SICT), we believe in building a strong foundation for students, right from the certificate level, by inculcating global values and preparing them to face emerging challenges. We measure the continual improvement of our students, through various mode of analysis.

We are able to proactively predict the results of students in all spheres of learning and execute action plans to ensure that every student is taken to the next level of competency.

We can proudly say that our graduates are equipped with the best understanding and excellence techniques - be it in academics or co-curricular. We look forward to seeing the best of our students' achievements across all spheres of learning. If you aspire to attain the skills and knowledge to progress in your career or you wish to embark on a career change, then you have come to the right place.

Do feel free to view the various online modes of teaching and learning in this specially developed portal!

Yours sincerely,
Dato' Mohd Azmi Istatat
CEO SICT





PROGRAMME DESCRIPTION

The Diploma in Renewable Energy Management programme is designed to provide students with the theoretical knowledge necessary for a career in management, electronics and renewable energy. Students acquire hands-on skills in troubleshooting, maintenance, installation, operation and repair and replacement of related equipment. This diploma will train you in the key areas of Renewable Energy, Electronics and Management so that graduates are able to address energy issues from both the demand and supply side of things.



ENTRY QUALIFICATION

Pass SPM / GCE 'O' level with minimum 3 credits including PASS in Mathematics (OR) Recognized Certificate in Engineering / Engineering Technology or its equivalent.



PROGRAMME CURRICULUM

The curriculum for the Diploma in Renewable Energy Management programme is designed for the semester system and to graduate, diploma-seeking students must earn a minimum of 91 credit hours. The programme requires a minimum of 7 semesters to complete (approximately 2 1/2 years).



PROGRAMME OBJECTIVES

- To provide a comprehensive knowledge and understanding of the origins and distribution of different renewable energy sources (solar, wind, hydro, wave and bioenergy).
- To provide a comprehensive knowledge and understanding of the storage/conversion and integration of these renewable energy sources into existing systems.
- To expose students to Renewable Energy, Electronics Engineering and Engineering Management.

SEMESTER 1

FDL110	English Proficiency
DREM110	Electrical Principles
MPW1013/ MPW1023/ MPU2233	Bahasa Kebangsaan A / B /Public Speaking
DREM2120	Digital Circuits

SEMESTER 2

MPU2422	Khidmat Masyarakat
FDE 1110	Foundation Mathematics
DREM1120	Introduction to Renewable Energy
DREM1130	Electronics Principles
FDL1120	English Communication

SEMESTER 3

FDC1110	Computer Applications
FDE2110	Principles of Management
MPU1033	Pengajian Malaysia

SEMESTER 4

FDC1130	Computer Programming
DREM1150	Professional Ethics
DREM2125	Critical Thinking
DREM2160	Occupational Safety and Health
MPU1043/ MPU1053 DBA2200	Pengajian Islam / Pendidikan Moral Entrepreneurship

SEMESTER 5

DREM2150	Project Management
DREM2130	PV Design and Installation
DREM1140	Energy Systems & Renewable Energy Resources
DREM2190	Electrical Wiring

SEMESTER 6

DREM2140	PV Technology & Manufacturing
DREM2180	Solar Thermal Technology

SEMESTER 7

DREM2170	Wind and Hydro Power Technology
DREM2200	Design Project

SEMESTER 8

DREM3000	Industrial Placement
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Career

- ✓ Design professionals
- ✓ Green Energy Sales
- ✓ Architects
- ✓ Sub-Contractors
- ✓ Junior Engineer
- ✓ Assistant Engineer
- ✓ Supervisor
- ✓ Technician
- ✓ Assistant Project & Facility Manager
- ✓ Administrator
- ✓ Executive Administrator
- ✓ Administrative Assistant

Industries

- ✓ Electrical
- ✓ Business
- ✓ Technical Consulting
- ✓ Information Technology
- ✓ Management
- ✓ Manufacturing
- ✓ Electronics



Why Study @ SPECTRUM



Qualified Lecturers



Job Placement



Active Student Council



Industrial Training assisted by Spectrum



Digital Library 60,000 books available (UDL Pro)



Facilities, well equipped labs



Spectrum Learning Management System



FREE Intensive Classes - MUET, Employability Skills

PROGRAMME KNOWLEDGE & EDUCATIONAL PATHWAY

INFORMATION TECHNOLOGY (IT)

- Computer Applications
- C++ Programming
- Microcontroller

ELECTRONICS

- Electronics Circuit 1 & 2
- Digital Circuit 1 & 2
- Microprocessor

ELECTRICAL

- Electrical Circuit 1
- Electrical Circuit 2

COMMUNICATION

- Communication Engineering
- Data Communication /Network

RENEWABLE ENERGY

- Photovoltaic System Installation
- Electrical Wiring

Job Placement

Degree

Diploma In RENEWABLE ENERGY MANAGEMENT

SPM

WHAT MAKES SPECTRUM DIFFERENT?



a) Concentration with additional certifications

- Certificate in Internet of Things (IoT)
- Certificate in Industry 4.0: Managing the Digital Transformation
- Certificate in Electronic Design Automation

b) Special Fee for all Spectrum Education Group Training Programmes

- MUET (Malaysian University English Test)
- IELTS (International English Language Testing System)
- Mandarin Language
- Drone Technology

c) Spectrum Employability Skills Training

SPECTRUM employability skills training programs consist of multi-day workshops focusing on developing the critical knowledge and skills necessary for success in job placement and career development.

d) Pathways to Degree Programmes

Pave your own pathways to an Accredited Degree @ SPECTRUM. We have a range of engineering programmes designed to help you reach your goals. Choose the option that suits you best. Contact our counsellor for more information.