LATIHAN INDUSTRI

- Pautan industri KKTM sangat baik bagi menyediakan peluang dan pengalaman tempat kerja yang berharga. Pelajar akan menjalani Latihan Industri semasa pengajian mereka. Tujuannya adalah untuk mempersiapkan pelajar untuk pekerjaan, memberi pelajar kesempatan untuk mendapatkan pengalaman di tempat kerja langsung dan menerapkan teori yang mereka pelajari di kelas.

KEUSAHAWAN & PERNIAGAAN

- Program Pembudayaan Keusahawanan
- *Online Business Marketing*
- Bantuan Kewangan untuk perniagaan bagi yang layak

BANTUAN KEWANGAN

- KKTM akan melakukan yang terbaik dalam membantu pelajar mendapatkan bantuan kewangan untuk pelajar yang layak seperti berikut:
  - Yuran pengajian ditanggung MARA sepenuhnya
  - Elaun sara hidup disediakan
  - Tiket Kapal Terbang pergi balik disediakan untuk pelajar dari Sabah dan Sarawak sekali sahaja

SYARAT KEMASUKAN

- ✓ Warganegara Malaysia
- ✓ Taraf Bumiputera / Bumiputera Sabah & Sarawak
- ✓ Berumur 17 tahun dan ke atas
- ✓ Sihat tubuh badan

<u>(Lulusan SPM)</u>

- ✓ Lulus SPM atau setara dengan tiga (3) Kepujian dalam mata pelajaran berikut:
  - i. Matematik
  - ii. Mana-mana satu (1) mata pelajaran mengikut Kum- pulan Sains/ Vokasional & Teknikal/ Mata Pelajaran Vokasional(MPV)/ Mata Pelajaran Aliran Vokasional (MPAV)
  - iii. Mana-mana satu (1) mata pelajaran lain iv. Dan LULUS Bahasa Inggeris

<u>(Lulusan IKM)</u>

- ✓ Lulus Sijil Kejuruteraan/Teknologi Kejuruteraan/ Teknologi, dalam bidang berkaitan, dengan CGPA ≥2.50

<u>(Diploma Kompetensi)</u>

- ✓ Lulus SPM dan Sijil Kemahiran Malaysia (SKM) tahap
- ✓ 3 dalam bidang berkaitan, yang diiktiraf atau setara

- ✓ *** Tidak Rabun Warna bagi Program Bioperubatan

KKTM LEDANG

Kolej Kemahiran Tinggi MARA (KKTM) Ledang mula beroperasi pada 14 Jun 2010 di Serom 4 & 5, Ledang, Johor Darul Takzim dengan keluasan 72 ekar. KKTM Ledang merupakan satu-satunya Institusi Pendidikan di Malaysia yang menawarkan pengkhususan dalam bidang Kejuruteraan Elektronik Bioperubatan dan telah mendapat perakuan akreditasi daripada pihak Malaysian Qualification Agency (MQA). Kurikulum di sini turut mendapat pengiktirafan daripada Industri dan Badan Profesional.

KOMITMEN KECEMERLANGAN

- KKTM Ledang disokong oleh kakitangan akademik dan pengurusan yang berkelayakan dan berkemahiran tinggi. Selain itu, dengan makmal pembelajaran yang bertaraf *state-of-the-art* dan peralatan terkini, para pelajar dilengkapi dengan teori/konsep teknikal yang mencukupi dan kemahiran yang khusus dan kompeten untuk menyumbang sepenuhnya sebagai tenaga kerja mahir. KKTM juga menawarkan program pendidikan sepanjang hayat terutamanya bagi juruteknik mahir untuk menaik taraf keupayaan diri dan memperoleh pengiktirafan kelayakan.

KOLEJ KEMAHIRAN TINGGI MARA LEDANG

Serom 4 & 5,
Jalan Serom, Bukit Gambir,
Sungai Mati,
84410 Tangkak, Johor

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Faks: 06-975 6203
Website: ledang.kktm.edu.my
Website: tvetmara.edu.my/index.php/kktm-ledang
Website: apponline.mara.gov.my/upimonline

Facebook: KKTM LEDANG
Instagram: KKTM_LEDANG_OFFICIAL

LEDANG

KOLEJ KEMAHIRAN TINGGI MARA LEDANG

Peneraju Kerjaya Electronik Perubatan Terunggul

TVET@KPLB
PILIHAN KEMAHIRAN ANDA

"BUILDING TALENT, GENERATING FUTURE"

PROGRAM YANG DITAWARKAN

DIPLOMA KEJURUTERAAN ELEKTRONIK BIOPERUBATAN (DIAGNOSTIK)

- Pengkhususan melibatkan pengetahuan dan kemahiran dalam mengendalikan dan menyelenggara mesin dan instrument khusus alatan diagnosis (kenalpasti) penyakit di badan manusia

DIPLOMA KEJURUTERAAN ELEKTRONIK BIOPERUBATAN (TERAPEUTIK)

- Pengkhususan melibatkan pengetahuan dan kemahiran dalam mengendalikan dan menyelenggara mesin dan instrument yang bertujuan untuk mengelakkan dan merawat penyakit.

DIPLOMA KEJURUTERAAN ELEKTRONIK BIOPERUBATAN (MAKMAL)

- Pengkhususan melibatkan pengetahuan dan kemahiran dalam mengendalikan dan menyelenggara peralatan makmal perubatan dalam menganalisis, memproses dan memeriksa spesimen dari tubuh badan manusia seperti darah, sel kulit, air liur, urin dan sebagainya.

DIPLOMA KEJURUTERAAN ELEKTRONIK BIOPERUBATAN (RADIOLOGI & PENGIMEJAN)

- Pengkhususan melibatkan pengetahuan dan kemahiran dalam mengendalikan dan menyelenggara mesin dan instrument yang menggunakan radiasi seperti x-ray, sinar gamma, gelombang bunyi frekuensi tinggi dan medan magnet untuk radiasi tidak mengion bagi menghasilkan imej organ dan bahagian dalaman lain badan pesakit sebagai fungsi diagnostik

DIPLOMA KEJURUTERAAN ELECTRONIK BIOPERUBATAN (TEKNOLOGI MAKLUMAT & KOMUNIKASI)

- Pengkhususan yang melibatkan pengetahuan akademik dan kemahiran dalam aspek rangkaian komputer, pengurusan pelanggan dan pelayan *(server)*, keselamatan teknologi maklumat daan komunikasi dalam industri perubatan.

DIPLOMA KOMPETENSI RANGKAIAN KOMPUTER DAN SISTEM PENTADBIRAN—SKM TAHAP 4

- Pengkhususan dalam mengendalikan struktur pelanggan dan pelayan *(server)* dalam sistem komputer yang merangkumi aspek konfigurasi pelayan, pengurusan rangkaian dan kawalan keselamatan sistem komputer di samping berkemahiran dan berpengetahuan dalam pengurusan penyelenggaraan dan perolehan sistem komputer dan rangkaian.

PROGRAM (2.5 TAHUN)

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

- *PEO1: Graduates with knowledge and technical skills to perform their job tasks in biomedical electronics engineering and exhibit lifelong learning attributes.*
- *PEO2: Graduates with positive attitudes and ethics, who can work independently or in teams with effective communication and problem-solving skills to fulfill their duties towards the working culture and community*
- *PEO3: Graduates who possess entrepreneurial knowledge and attributes in the related career.*

PROGRAM LEARNING OUTCOME (PLO)

At the end of the programme, graduates should be able to:

- *PLO1: Apply knowledge of mathematics, science, engineering fundamentals and engineering specialization principles to well-defined procedures and practices in the field of biomedical electronics engineering.*
- *PLO2: Acknowledge problems encountered in biomedical electronics engineering applications and provide engineering solutions.*
- *PLO3: Ability to conduct investigation through hands on instruction and finding design solutions for medical devices and system.*
- *PLO4: Apply appropriate techniques, resources and engineering tools to well-defined biomedical instrumentation engineering activities, with awareness of limitations.*
- *PLO5: Demonstrate an awareness of and consideration of the societal, health, safety legal and cultural issues and the consequent responsibilities*
- *PLO6: Demonstrate effective communication with the engineering community and society at large in both written and oral mode with a potential to lead team or working independently.*
- *PLO7: Demonstrate leadership quality and to work effectively in a diverse technical team.*
- *PLO8: Demonstrate an understanding of professional ethics, responsibilities and norms of biomedical electronics engineering practices.*
- *PLO9: Demonstrate an awareness of management, business practices and entrepreneurship.*
- *PLO10: Demonstrate an understanding of the impact of engineering practices, taking into account the need for sustainable development.*
- *PLO11: Recognise the need for career development and to engage in lifelong learning.*

PROGRAM (3 TAHUN)

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

- *PEO1: Graduates with adequate knowledge and technical skills to perform their job tasks in the related field.*
- *PEO2: Graduates with leadership qualities, effective communication skill, ethical values and social responsibilities to fulfill their duties towards the working culture and community.*
- *PEO3: Graduates demonstrate entrepreneurship skill and recognize the need of lifelong learning for career advancement in related industry.*

PROGRAM LEARNING OUTCOME (PLO)

At the end of the programme, graduates should be able to:

- *PLO1: Apply knowledge of applied mathematics, applied science, engineering fundamentals and an engineering specialization respectively to wide practical procedures and practices.*
- *PLO2: Identify and analyze well-defined engineering problems reaching substantiated conclusions using codified methods of analysis specific to their field of activity.*
- *PLO3: Design solutions for well-defined technical problems and assist with the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.*
- *PLO4: Conduct investigations of well-defined problems; locate and search relevant codes and catalogues, conduct standard tests and measurements*
- *PLO5: Apply appropriate techniques, resources, and modern engineering and IT tools to well-defined engineering problems, with an awareness of the limitations*
- *PLO6: Demonstrate knowledge of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering technician practice and solutions to well-defined engineering problems.*
- *PLO7: Understand and evaluate the sustainability and impact of engineering technician work in the solution of well-defined engineering problems in societal and environmental contexts.*
- *PLO8: Understand and commit to professional ethics and responsibilities and norms of technician practice.*
- *PLO9: Function effectively as an individual, and as a member in diverse technical teams*
- *PLO10: Communicate effectively on well-defined engineering activities with the engineering community and with society at large, by being able to comprehend the work of others, document their own work, and give and receive clear instructions.*
- *PLO11: Demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member or leader in a technical team and to manage projects in multidisciplinary environments.*
- *PLO12: Recognize the need for, and have the ability to engage in independent updating in the context of specialized technical knowledge.*