

KURSUS JANGKA PENDEK DI ADTEC KULIM TAHUN 2014/2015
SHORT TERM COURSES OFFERED AT ADTEC KULIM 2014/2015

Untuk maklumat lanjut sila hubungi:

Pusat Latihan Teknologi Tinggi (ADTEC), Lot 635, Jalan Mahang, 09500 Karangan, Kulim, Kedah Darul Aman.
 || No Tel: 04-404 2975 || Faks: 04-404 2971 || website: www.adteckulim.gov.my

BIL NO	BAHAGIAN DEPARTMENT	KOD KURSUS COURSE CODE	TAJUK KURSUS COURSE TITLE	KANDUNGAN KURSUS COURSE CONTENT	TEMPOH (JAM) DURATION (HRS)	BILANGAN PESERTA (orang) CAPACITY (pax)	YURAN / PESERTA FEES/PAX (RM)	PEGAWAI UNTUK DIHUBUNGI CONTACT PERSON
1	Teknologi Telekomunikasi	DET - 001	Optical Fiber Installation, Splicing and Testing	<p><u>1. Introduction</u></p> <ul style="list-style-type: none"> Why Fiber Optics Optical Fiber Application Types of Optical Fiber Cable (Indoor & Outdoor) <p><u>2. Splicing technique</u></p> <ul style="list-style-type: none"> Splicing Technique (Fusion Splicing & Mechanical Splicing) Hands-On / Practical <p><u>3. Testing</u></p> <ul style="list-style-type: none"> Testing & Commissioning of Fiber Optics Link Basic OTDR & its theory Maintenance & Trouble Shooting 	3 hari	5 (Min.) 10 (Max.)	365.00	Nama : Pn. Hanifah Zabiri / Hj Kamar b. Nasir No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
2	Teknologi Telekomunikasi	DET - 002	Fiber Optic To The Home Basic Course	<p><u>Day 1 :</u></p> <ul style="list-style-type: none"> FTTH Technology Overview terminologies, topologies, infrastructure elements Hands on 1: Strip & prepare optical fiber cable <p><u>Day 2 :</u></p> <ul style="list-style-type: none"> Fiber Optic Technology cable type, construction, loss types, connector types, FTTH accessories Fiber optic cabling installation cable pulling (outdoor), safety, joint loss, allowable loss, fusion splicing <p><u>Day 3 :</u></p> <ul style="list-style-type: none"> Hands on 2 : Fusion splicing Hands on 3 : install FTTH basic representative system (fiber patch panel (exchange) to manhole to SDB, FTB & FWS at home) <p><u>Day 4 :</u></p> <ul style="list-style-type: none"> Fiber optic testing & troubleshooting Optical loss test, end to end loss test, OTDR test. Hands on 4 : Testing system installed 	3 hari	5 (Min.) 10 (Max.)	365.00	Nama : Pn. Hanifah Zabiri / Hj Kamar b. Nasir / Cik Banisreka Mohd Nawi No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
3	Teknologi Telekomunikasi	DET - 003	Electronic Troubleshooting and Radio / TV System	<ol style="list-style-type: none"> Introduction to Electronic System Check on defect chip for faulty hardware. Introduction to Radio & TV system Identify TV block diagram and radio system. Replace fault component Troubleshooting and Testing 	1 hari	5 (Min.) 10 (Max.)	145.00	Nama : Hj Kamar b. Nasir No Tel : 04-4042975 ext. 120 Emel : kulimadmin@jtm.gov.my
4	Teknologi Telekomunikasi	DET - 004	Project Management using Microsoft Project	<ol style="list-style-type: none"> How to use Microsoft Project Project planning and progress monitoring using Microsoft Project software 	16 (2 hari)	5 (Min.) 10 (Max.)	255.00	Nama : Pn. Azlin bt. Abd Aziz No Tel : 04-4042975 ext. 152 Emel : kulimadmin@jtm.gov.my
5	Teknologi Telekomunikasi	DET - 005	Copper Network Installation & Maintenance for MSB	<ol style="list-style-type: none"> Customer access diagram Copper cable color codes MSB installation and maintenance Testing and troubleshooting 	16 (2 hari)	5 (Min.) 10 (Max.)	245.00	Nama : Pn. Hanifah bt. Zabiri No. Tel : 04-4042975 ext. 163 Emel : kulimadmin@jtm.gov.my
6	Teknologi Telekomunikasi	DET - 006	Designing, Simulating and Troubleshooting Data Communication Network using Packet Tracer Software	<ol style="list-style-type: none"> How to use Packet Tracer software Simulating network environment without using the actual hardware. 	16 (2 hari)	5 (Min.) 10 (Max.)	255.00	Nama : En. Mohd Hezri b. Abdullah No. Tel : 04-4042975 ext. 123
7	Teknologi Telekomunikasi	DET - 007	Building a Database using Microsoft Access	<ol style="list-style-type: none"> Introduction to Databases Database Planning and Design Introduction to Microsoft Access and Microsoft Access Objects 	2 hari	5 (Min.) 10 (Max.)	255.00	Nama : Cik Banisreka bt. Mohd Nawi / Pn. Roshaniza Md Hashim No Tel : 04-4042975 ext. 165/138 Emel : kulimadmin@jtm.gov.my
8	Teknologi Telekomunikasi	DET - 008	C Programming	<ol style="list-style-type: none"> Basic principles of programming using C++ algorithmic, Procedural problem solving; program design and development; Basic data types, control structures and functions; arrays and pointers; Introduction to classes for programmer-defined data types 	2 hari	5 (Min.) 10 (Max.)	255.00	Nama : En. Mohd Edzrin b. Abdul Aziz No. Tel : 04-4042975 ext. 154 Emel : kulimadmin@jtm.gov.my
9	Teknologi Telekomunikasi	DET - 009	Linux Server	<p><u>Day 1</u></p> <ol style="list-style-type: none"> Debian Linux Installation Installation Setup partition, networking and package installation Host information, routing, networking tool Configure Apt-get/Aptitude package management <p><u>2. LAMP Server</u></p> <ul style="list-style-type: none"> Setup and configure Apache, MySQL and PHP <p><u>3. DHCP Server</u></p> <ul style="list-style-type: none"> Install and configure <p><u>4. FTP Server</u></p> <ul style="list-style-type: none"> Install and configure <p><u>Day 2</u></p> <ol style="list-style-type: none"> File Sharing NFS Mounting a NFS share Allowing persistent share for NFS <p><u>6. Samba</u></p> <ul style="list-style-type: none"> SMB and NMB Windows environment <p><u>7. CUPS Server</u></p>	3 hari	5 (Min.) 10 (Max.)	375.00	Nama : En. Mohd Edzrin b. Abdul Aziz No. Tel : 04-4042975 ext. 154 Emel : kulimadmin@jtm.gov.my

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10	Teknologi Telekomunikasi	DET - 009	Linux Server	Day 2 8. Domain Name Service (DNS) Server - Chroot - Setup Caching DNS, Primary Master and Secondary Master 9. Network Monitoring System (NMS) Server - Install and configure Nagios 10. Webmin - Install and configure	3 hari	5 (Min.) 10 (Max.)	375.00	Nama : En. Mohd Edzrin b. Abdul Aziz No. Tel : 04-4042975 ext. 154 Emel : kulimadmin@jtm.gov.my
11	Teknologi Telekomunikasi	DET - 010	Pembinaan Aplikasi untuk Android	1. Pengenalan kepada Android SDK 2. Mengenal sistem Android 3. Rekabentuk User Interface 4. Coding / programming app 5. Home-screen widget untuk android 6. Publish app ke google play 7. Membuat app berbilang fungsi (feature-rich app)	2 hari	5 (Min.) 10 (Max.)	265.00	Nama : En Noor HairilFaiz b. Mohammad No. Tel : 04-4042975 ext 153 Emel : kulimadmin@jtm.gov.my
12	Teknologi Telekomunikasi	DET - 011	Visual Basic	1. VB 2008 environment 2. Membina user interface 3. Programming in VB 2008 4. VB and Database 5. Pembinaan aplikasi untuk Windows	2 hari	5 (Min.) 10 (Max.)	265.00	Nama : En Noor HairilFaiz b. Mohammad No. Tel : 04-4042975 ext 153 Emel : kulimadmin@jtm.gov.my
13	Teknologi Telekomunikasi	DET - 012	PIC Programming for Beginners	1. Pengenalan kepada PIC 2. Litar asas 3. PIC dan LED 4. PIC dan 7-segmen 5. PIC input/output 6. PIC dan Paparan LCD 7. PIC dan Keypad 8. PIC dan EEPROM (internal)	2 hari	5 (Min.) 10 (Max.)	265.00	Nama : En Noor HairilFaiz b. Mohammad No. Tel : 04-4042975 ext 153 Emel : kulimadmin@jtm.gov.my
14	Teknologi Telekomunikasi	DET - 013	PIC Programming for Intermediate	1. ADC 2. PIC dan Temperature sensor 3. PIC dan LDR 4. USART module 5. PIC dan Bluetooth/Xbee/PC Communication 6. SPI module 7. Interrupt 8. TIMER Interrupt 9. External Interrupt	2 hari	5 (Min.) 10 (Max.)	265.00	Nama : En Noor HairilFaiz b. Mohammad No. Tel : 04-4042975 ext 153 Emel : kulimadmin@jtm.gov.my
15	Teknologi Mekatronik	DMM - 001	Modul 8 - Pneumatic / Electro-Pneumatic System & Circuit Design	1. Physical quantities and units of pneumatics 2. Physical properties and law of air, air and the influence of flow speed and pressure 3. Explain the purpose and operation of fluid conditioners, including filters, regulators, lubricators, mufflers & air dryers 4. Pneumatic components, symbol of directional valves to ISO 1219, pneumatic components, air cylinder, control valves, service unit (FRL), pneumatic fitting, pneumatic system / circuit design. 5. Describe the purpose, construction and operation of electro-pneumatic pressure control valve, flow control valves & directional control valves 6. Construction and operation of pneumatic cylinders 7. Read / Construct electro-pneumatics circuit diagrams and describe the corresponding system operation / maintenance based on industrial application 8. Troubleshoot pneumatic system failure 9. Troubleshoot vacuum / clean dry air equipment	32 (4 hari)	5 (Min.) 10 (Max.)	505.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : onghj188@yahoo.com.my
16	Teknologi Mekatronik	DMM - 002	Modul 8 - Electro-hydraulic	1. Introduction & application of Electro - Hydraulics 2. Basic components and standard symbol of Electro - Hydraulics 3. Development of Electro - Hydraulics, control circuits, component base on symbols standard 4. Construction and working principles of Electro - Hydraulics 5. Troubleshoot hydraulic system failure	24 (3 hari)	5 (Min.) 10 (Max.)	385.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : onghj188@yahoo.com.my
17	Teknologi Mekatronik	DMM - 003	Omron PLC System Maintenance & Programming	1. Carry out PLC functionality check 2. Carry out input / output maintenance activities 3. Carry out PLC integration check 4. Configure PLC 5. Monitor process parameters using PLC 6. Programming and system troubleshooting using Omron CX Programmer V9 7. Industrial application control using PLC 8. Interfacing PLC with electro-pneumatic 9. Mini project & troubleshooting	32 (4 hari)	5 (Min.) 10 (Max.)	505.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : onghj188@yahoo.com.my
18	Teknologi Mekatronik	DMM - 004	Sensor Technology and Detection System Maintenance	1. To equip participants with basic knowledge on sensor, field usage and their roles in automation. This is an introduction session to the various types of sensors. 2. Application of sensors in industrial automation system 3. Carry out detection system component check 4. Carry out detection system component installation 5. Carry out detection system test 6. Maintain detection system component 7. Carry out detection system parameter setup	24 (3 hari)	5 (Min.) 10 (Max.)	385.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : onghj188@yahoo.com.my
19	Teknologi Mekatronik	DMM - 005	Robotics Technology & Maintenance	1. Introduction to robotic system 2. Demonstration of robot operations (Mitsubishi RV-M1) 3. Teaching Robot (using teach operations) 4. Pick and place & I/O Operation 5. Programming Using PLC & Simulation 6. Carry out robots condition check 7. Carry out robots safety check 8. Troubleshoot robots malfunction 9. Carry out robots faulty parts replacement 10. Ensure robots functionality	24 (3 hari)	5 (Min.) 10 (Max.)	385.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : onghj188@yahoo.com.my

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20	Teknologi Mekatronik	DMM - 006	Motion Control Technology Using CTC Stepping Motor Control Module	<ol style="list-style-type: none"> 1. To develop participants' understanding on stepper principle and competent in handling positioning system and motion control applications 2. System overview 3. Stepping motor positioning control technology 4. Wiring among stepping motor control module, stepping motor drive and motor 5. Start / Stop motor in motion 6. Establish a home or zero position for the motor 7. Specification of motion control components 8. CTC 2206 stepping motor control module operation and features 9. Set or change stepping motor motion parameters 10. Programming stepping motor control module 11. Position control and PTP control in common applications 	24 (3 hari)	5 (Min.) 10 (Max.)	385.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : ongjh188@yahoo.com.my
21	Teknologi Mekatronik	DMM - 007	CTC Programmable Automation Controller (PAC) Programming Using Quickstep State Language	<ol style="list-style-type: none"> 1. To provide knowledge on applications and operations of CTC PAC in factory automation systems. 2. Introduction and knowledge on understanding about PAC 3. PAC System configuration, features, function, unit specification, and components 4. Input & output addressing 5. Key points to know when using PAC 6. System design concept using PAC 7. Practical state language programming of Quickstep software. 8. Basic command and programming method 9. PAC & Quickstep hardware and software configuration 10. Establish communication link between computer to PAC and PAC to computer 11. Online monitoring in Quickstep environment 12. Hands-on wiring on input and output devices to PAC 	24 (3 hari)	5 (Min.) 10 (Max.)	385.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : ongjh188@yahoo.com.my
22	Teknologi Mekatronik	DMM - 008	Industrial Automation Process Design & MPS / FMS Programming	<ol style="list-style-type: none"> 1. Develop industrial automation process flow, process design layout and process design manual instruction to meet process design requirements. 2. Demonstration and programming of individual workstation of Power One FMS / Festo MPS training system 3. Identify industrial automation process design requirement and specification 4. Plan industrial automation process design 5. Develop industrial automation process flow 6. Develop industrial automation process design layout 7. Develop industrial automation process design manual instruction 8. Check industrial automation process design parameters 9. Obtain superior approval 	32 (4 hari)	5 (Min.) 10 (Max.)	535.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : ongjh188@yahoo.com.my
23	Teknologi Mekatronik	DMM - 009	Industrial Automation System Design Using Solidworks	To carry out industrial automation system design sketching, engineering drawing and develop industrial automation system Bill of Material (BOM) to meet industrial automation system design requirement. Industrial automation system design using SolidWorks Essentials to build	32 (4 hari)	5 (Min.) 10 (Max.)	505.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : ongjh188@yahoo.com.my
24	Teknologi Mekatronik	DMM - 010	Penyelaan Tahap 3 (T-010-3)	<ol style="list-style-type: none"> 1. Communication techniques 2. Plan works 3. Organize works 4. Enforce safety 5. Control budget 6. Evaluate works 7. Train workforce 	40 (5 hari)	5 (Min.) 10 (Max.)	515.00	Nama : Ong Joo Hun No Tel : 017-4883618 Emel : ongjh188@yahoo.com.my
25	Teknologi Elektronik	DEE - 001	Basic Electronic	<ol style="list-style-type: none"> 1. Introduction to the electronics devices. 2. Introduction of digital system. 3. Soldering technique and mini project. 	16 (2 hari)	5 (Min.) 10 (Max.)	305.00	Nama : Mohd Norhisham Bin Maznan No. Tel : 019-6241161 Emel: mohdnorhishammaznan@yahoo.com
26	Teknologi Elektronik	DEE - 002	Electronic Circuit Design	<ol style="list-style-type: none"> 1. Draw schematic diagram. 2. Create PCB circuit. 3. Drill and milling the PCB. 4. Fixing component in PCB. 	16 (2 hari)	5 (Min.) 10 (Max.)	305.00	Nama : Mohd Norhisham Bin Maznan No. Tel : 019-6241161 Emel: mohdnorhishammaznan@yahoo.com
27	Teknologi Elektronik	DEE - 003	Basic PIC Microcontroller	<ol style="list-style-type: none"> 1. Concept and application . 2. Write programs for specific hardware – LCD, sensors, etc. 3. Simulate the program code using Proteus and observe the behavior. 4. Load program code to microcontroller and test. 	16 (2 hari)	5 (Min.) 10 (Max.)	305.00	Nama : Mohd Norhisham Bin Maznan No. Tel : 019-6241161 Emel: mohdnorhishammaznan@yahoo.com
28	Teknologi Elektronik	DEE - 004	PLC Workshop	<ol style="list-style-type: none"> 1. Knowledge on understanding about PLC System configuration, features, function, unit specification, and components. 2. Practical ladder programming of PLC using CXProgrammer software. 3. Establish communication link between computer to PLC and PLC to computer. 	16 (2 hari)	5 (Min.) 10 (Max.)	305.00	Nama : Mohd Norhisham Bin Maznan No. Tel : 019-6241161 Emel: mohdnorhishammaznan@yahoo.com
29	Teknologi Elektronik	DEE - 005	PC Maintenance & Configuration	Perform installing, diagnosis and maintaining computer hardware and foundational skill in programming.	16 (2 hari)	5 (Min.) 10 (Max.)	305.00	Nama : Mohd Norhisham Bin Maznan No Tel : 019-6241161 Emel : mohdnorhishammaznan@yahoo.com
30	Teknologi Mekanikal Pembuatan	DMP - 001	AutoCAD 2011 - Essential	<ol style="list-style-type: none"> 1. Basic rules for the program operation 2. Basic drawing commands 3. Editing drawings 4. Trimming operation 5. Working with polylines 6. Construction of spline curves 7. Applying text, fonts and styles 8. Construction of sectional and patterned drawings 9. Introduction to dimensioning 10. Plotting drawing. 	32 (4 hari)	5 (Min.) 10 (Max.)	530.00	Nama : En. Hasri Abd Hamid No Tel : 04-4042975 Emel : hasrihamid@gmail.com

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31	Teknologi Mekanikal Pembuatan	DMP - 002	AutoCAD 2011 - 3D	1. AutoCAD 3D basic concept 2. Coordinate system and viewing 3. Entities in 3D space 4. Surfaces 5. Creating 3D solids 6. Editing and analyzing 3D solids 7. Model space and paper space 8. Concepts visualizing the finished model.	32 (4 hari)	5 (Min.) 10 (Max.)	530.00	Nama : En. Hasri Abd Hamid No Tel : 04-4042975 Emel : hasrihamid@gmail.com
32	Teknologi Mekanikal Pembuatan	DMP - 003	Autodesk Inventor Professional 2011	1. Autodesk Inventor basic concept 2. Sketching, geometric constraints 3. Geometric dimensioning 4. Extruded basic shape design 5. Revolved sweep 6. chamfer, fillet, hole, circular patterns 7. Threading features 8. Mirrored patterns 9. Shell 10. Feature modification.	32 (4 hari)	5 (Min.) 10 (Max.)	530.00	Nama : En. Hasri Abd Hamid No Tel : 04-4042975 Emel : hasrihamid@gmail.com
33	Teknologi Mekanikal Pembuatan	DMP - 004	SolidWorks - Essential	1. SolidWorks basics 2. Sketching 3. Basic part modeling 4. Modelling a casting or forging 5. Patterning 6. Revolved features 7. Shelling and ribs 8. Editing 9. Design changes 10. Configuration of parts 11. Assembly modeling.	32 (4 hari)	5 (Min.) 10 (Max.)	530.00	Nama : En. Hasri Abd Hamid No Tel : 04-4042975 Emel : hasrihamid@gmail.com
34	Teknologi Mekanikal Pembuatan	DMP - 005	Mastercam X	1. Introduction to Mastercam X 2. Drawing and design basics with Mastercam X 3. Creating geometry 4. Modifying geometry 5. Choosing a machine and control condition 6. Setting machine group properties 7. Creating toolpaths 8. Backplot and verify 9. Post processing.	32 (4 hari)	5 (Min.) 10 (Max.)	530.00	Nama : En. Hasri Abd Hamid No Tel : 04-4042975 Emel : hasrihamid@gmail.com
35	Teknologi Mekanikal Pembuatan	DMP - 006	Conventional Surface Grinding Operation - Level 1	1. Safety instructions 2. Proper grinding wheel selection 3. Set up workpiece on machine 4. Operate machine controller 5. Perform the surface grinding operation.	32 (4 hari)	5 (Min.) 10 (Max.)	635.00	Nama : En. Hasri Abd Hamid No Tel : 04-4042975 Emel : hasrihamid@gmail.com
36	Teknologi Mekanikal Pembuatan	DMP - 007	CNC EDM Die Sinking	1. Review basic programming 2. Prepare electrode for CNC EDM Die Sinking 3. Generate (key-in) program data into machine 4. Set up workpiece and electrode on machine 5. Carry out CNC EDM Die Sinking operation.	24 jam (3 hari)	5 (Min.) 10 (Max.)	510.00	Nama : En. Junaidi Osman No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
37	Teknologi Mekanikal Pembuatan	DMP - 008	CNC EDM Wire Cut	1. Review basic programming 2. Generate (key-in) program data into CNC EDM Wire Cut machine 3. Set up workpiece alignment and guide distance for wire cut operation 4. Set up workpiece on machine, carry out CNC EDM Wire Cut operation.	16 (2 hari)	5 (Min.) 10 (Max.)	380.00	Nama : En. Junaidi Osman No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
38	Teknologi Mekanikal Pembuatan	DMP - 009	Servicing, Maintenance and Troubleshoot of EDM Machines	1. Machine function 2. Part identification 3. Machine part function 4. Maintenance procedure and techniques 5. Dielectric unit maintenance 6. Working area maintenance 7. Mechanical part servicing 8. General servicing and maintenance 9. Maintenance and troubleshoot.	16 (2 hari)	5 (Min.) 10 (Max.)	380.00	Nama : En. Junaidi Osman No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
39	Teknologi Mekanikal Pembuatan	DMP - 010	Basic CNC Lathe - Okuma	1. Difference between absolute and incremental coordinate system 2. Type of machine controllers 3. Address code (G and M code) and cycles 4. Method of programming 5. Preparation before running the machine 6. Step by step guide to operating the CNC Lathe Machine.	32 (4 hari)	5 (Min.) 10 (Max.)	660.00	Nama : En. Abd Jalil Hassan No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
40	Teknologi Mekanikal Pembuatan	DMP - 011	Basic CNC Milling - Okuma	1. Difference between absolute and incremental coordinate system 2. Type of machine controllers 3. Address code (G and M code) and cycles 4. Method of programming 5. Preparation before running the machine 6. Demonstration on how to operate the machine 7. Step by step guide to operating the CNC Milling Machine.	32 (4 hari)	5 (Min.) 10 (Max.)	635.00	Nama : En. Amer Isyraqi Hussin No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
41	Teknologi Mekanikal Pembuatan	DMP - 012	Turning Operation - Level 1	1. Workshop safety and common tools used in turning operation 2. Part and function of lathe machine 3. Facing and longitudinal step turning 4. Drilling 5. Reaming 6. Boring 7. Taper turning 8. V thread cutting 9. Grooving 10. chamfering and parting off operation on lathe machine.	32 (4 hari)	5 (Min.) 10 (Max.)	635.00	Nama : En. Abd Jalil Hassan No Tel : 04-4042975 Emel :
42	Teknologi Mekanikal Pembuatan	DMP - 013	Milling Operation - Gear Cutting and Spiral Flute	Step by step instruction on gear cutting and machining spiral flute.	32 (4 hari)	5 (Min.) 10 (Max.)	635.00	Nama : En. Ahmad Nordin Hasin No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my

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43	Teknologi Mekanikal Pembuatan	DMP - 014	Heat Treatment	1. Introduction to heat treatment 2. Types of heat treatment process 3. Material selection 4. Pre-heating procedures 5. Stress relieving process 6. Hardening process 7. Tempering process 8. Annealing process 9. Hardness control techniques.	16 (2 hari)	5 (Min.) 10 (Max.)	380.00	Nama : En. Junaidi Osman No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
44	Teknologi Mekanikal Pembuatan	DMP - 015	Progressive Die Design and Die Making	1. Introduction to Tool and Die 2. Stamping and punching principal 3. Stamping/punching process with workpieces trial and exercise 4. General service and maintain the stamping machine.	16 (2 hari)	5 (Min.) 10 (Max.)	380.00	Nama : En. Junaidi Osman No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my
45	Teknologi Mekanikal Pembuatan	DMP - 016	Injection Moulding Process & Troubleshooting	1. Introduction to Injection Moulding Machine 2. Appreciation to plastic injection mould and maintenance 3. Plastic materials and handling 4. Plastic injection moulding process and control 5. Troubleshooting techniques.	16 (2 hari)	5 (Min.) 10 (Max.)	380.00	Nama : En. Che Soupi Ismail No Tel : 04-4042975 Emel : kulimadmin@jtm.gov.my