

**LIST OF EQUIPMENTS
FTKM-ZONE A**

NO	LABORATORY CATEGORY & SIZE	LABORATORY CODE	LABORATORY NAME	PIC	CAPACITY	EQUIPMENT	QUANTITY
1	WORKSHOP (70 ft x 70 ft)	MPU 1 FTKM- A1	BENGKEL REKABENTUK PRODUK	EN.SUHELMI BIN SENAWI	50	Belt And Disc Sanding Machine	1
2						Oscillating Belt Edge Sander	1
3						Bench Grinder	1
4						Circular Table Saw With Tilting Blade	1
5						Double Round Disc Sander	1
6						Heavy Duty Vacuum Cleaner	2
7						Mini Metal Working Lathe	2
8						Line Saw	1
9						Milling Drilling Centre	2
10						Milling/Drilling Machine	2
11						Radial Drill Press Machine	1
12						Sliding Table Saw	1
13						Scroll Saw	1
14						Undercut Mitre Saws	1
15						Water Spray Booth	1
16						Wood Lathe	5
17						Woodworking Bandsaw	1
18	LABORATORIES (70 ft x 70 ft)	MPU 2 FTKM- A2	MAKMAL RAPID PROTOTYPING	EN.NARZREZAL BIN ABDUL RAZAK	50	Rp Machine	1
19						Vacuum Casting Machine	1
20						Ultrasonic Tank	2
21						Laboratory Oven	2
22						3d Scanner	1
23						Desktop Computer	71
24						Desktop Rp Machine	6
25						Rp Machine Poly Jet	1
26	LABORATORIES (70 ft x 70 ft)	MPU 3 FTKM- A3	MAKMAL ERGONOMIK & METROLOGI	EN. MAZLAN BIN HUSIN	50	Alat-Alat Pengukuran	1
27						Alatan-Alat Ergonomik	4
28						Micro Scratch Tester	1
29						Surface Roughness Tester	1
30						Coordinate Measuring Machine	1
31						Universal Tasting Machine	1
32						Torsion Testing Machine	3
33						Scanning Electron Microscope	1
34	COMPUTER LABORATORIES (70 ft x 70 ft)	MPU 5 FTKM- A5	MAKMAL REKABENTUK	PN.MISNI BT ROSLI	70	ALIAS Software	1
35						ILLUSTRATOR Software	1
36						Ironcad Software	1
37						PHOTOSHOP Software	1
38						Desktop Computer	85
39	COMPUTER LABORATORIES (70 ft x 70 ft)	MPU 6 FTKM- A6	MAKMAL CAD/CAM1	EN.SHUKRI B.NORDIN	70	Autocad 2007	40
40						Moldflow	35
41						NX UG	35
42						CATIA	38
43						Desktop Computer	80
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47	LABORATORIES (70 ft x 70 ft)	MPU 7 FIKM- A7	MAKMAL KAWALAN PROSES	EN.SHUKRI B.NORDIN	30	Computer Hp/Dell	58
48						Witness Software	40
49						Mannequin Pro Ink Software	40
50						Matlab 7.0 Software	40
51						Spc Iv Excel Software	40
52						Plc Editor Ink Software	40
53	LABORATORIES (70 ft x 70 ft)	MPU 8 FIKM- A8	MAKMAL ELEKTRONIK & PERALATAN	EN.RASHID B.RAMLI	50	Digital Oscilloscope	50
54						Digital Function	50
55						Laboratory Dc Power	50
56						Digital Multimeter	50
57						Desktop Computer	10
58	STUDIO (70 ft x 70 ft)	MPU 9 FIKM- A9	STUDIO REKABENTUK	EN.RASHID B.RAMLI	50	Studio With Partition	30
59						Drafting Table	75
60						Drawing Board With T Square	75
61	WORKSHOP (70 ft x 70 ft)	MPU 13 FIKM- A13	BENGKEL PEMBUATAN & PENUANGAN	EN.FAIRUZ B.KARIM	30	Crucible Furnace	1
62						Heat Treatment Machine	1
63						Drill Grinder	1
64						End Mill Re-Sharpener	1
65						Bench Tapping Machine	1
66						Drilling & Tapping Machine	1
67						Lathe Machine	10
68						Milling Machine	10
69	WORKSHOP (70 ft x 70 ft)	MPU 14 FIKM- A14	MAKMAL KEJURUTERAAN PEMBUATAN	EN.NAZRI B.HAMID	30	Plasma Cutting	1
70						Tig Welding	6
71						Arc Welding Machine	10
72						Mig Welding Machine	6
73						Oxy-Asetilena Gas Welding Machine	10
74						Pedestal Drilling Machine	3
75						Bench Tapping Machine	3
76						Shearing Machine	1
77						Bending-Plate Machine	1
78						Bending-Pipe Machine	1
79						Lathe Machine	1
80						Milling Machine	1
81	LABORATORIES (70 ft x 70 ft)	MPU 15 FIKM- A15	MAKMAL KEJURUTERAAN BENDALIR	EN.MOHAMAD NAZRY B.NAYAN	40	Study Of Flow Measurement Devices	1
82						Bernoulli's Theorem Demonstration Unit	1
83						Hydrostatic Pressure	1
84						Shell & Tube Heat Exchanger Apparatus	1
85						Demonstration Of Pelton Turbine	1
86						Reynolds Apparatus	1
87						Hydraulics Bench	1
88						Losses In Pipe Friction	1
89						Pressure Measurement Method Apparatus	1
90						Impact Of Jet Apparatus	1
91						Free & Force Convection Heat Exchanger	1
92						Radiation Heat Transfer Apparatus	1
93						Heat Conduction Study Bench	1
94						Apparatus For Determination Of Gear	1
95						Centrifugal Force	1
96						Free And Force Vibration	1

97						Gyroscope	1
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98						Static And Dynamic Balancing	1
99	LABORATORIES (70 ft x 70 ft)	MPU 16 FTKM- A16	MAKMAL TERMODINAMIK	EN.ROSZI ANUAR	40	Temperature Measurement Training	1
100						Air Conditioning Training Unit	2
101						Refrigeration Training Unit	3
102						Internal Combustion Engine Test Bed	1
103						Marcet Boiler	2
104						Small Engine Test Bed Petrol	1
105						Small Engine Test Bed Diesel	1
106	LABORATORIES (70 ft x 70 ft)	MPU 17 FTKM- A17	MAKMAL CNC	MOHAMAD NAZMI B.RADZI	30	Cnc Die Sinker Machine	2
107						Cnc Milling Machine	1
108						Cnc Turning Machine	1
109						Cnc Super Drill	1
110						Cnc Wire Cut	1
111						Injection Molding Machine	1
112						Rapid Granulator Machine	1
113						Mixer Machine	1
114						Drilling Machine	1
115						Stand Grinder Machine	2
116						End Mill Re-Sharpener	1
117	LABORATORIES (70 ft x 70 ft)	MPU 18 FTKM- A18	MAKMAL AUTOMASI &ROBOTIK	EN.MOHAMAD NAZMI B.RADZI	30	Cnc Edu Lathe Machine	1
118						Cnc Edu Mill Machine	1
119						Abb Robotic Arm C/W Robot Controller	2
120						Basic Training Pneumatics	8
121						Electropneumatics Starter Kit -Tp201	8
123						Fluid Sim (Pneumatics / Hydraulic)	5
124						Hydraulics Equipment Set	5
125						Robot Studio Software	12
126						Desktop Computer	22
127	LABORATORIES (70 ft x 70 ft)	MPU 19 FTKM- A19	MAKMAL PEMBUATAN TERMAJU	EN.MOHAMAD JASMIN B. SHAARI	40	3d Shaker Mixer	1
128						Electronic Densimeter	3
129						Electronic Balance	3
130						Hand Press	4
131						High Power Microscope	2
132						Low Speed Diamond Saw	1
133						Microwave Sintering Furnace	1
134						Mounting Press	3
135						Grinding/Polishing	3
136						Rockwell Hardness Tester	2
137						Rotational Moulding	1
138						Single Zone Tube Furnace	2
139						Hot Press Machine	1
140						Basic Microscope	3
141						Magnetic Strainer	1
142						Oven	1
143						Hot Plate	1
144						Dry Cabinet	2
145						Ultra Sonic	2
146						Purging Water Filter	1