

**LIST OF EQUIPMENTS
FTKM-ZONE B**

NO	LABORATORY CATEGORIES & SIZE	LABORATORY CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTITY
1	WORKSHOP (100 ft x 50 ft)	MN2A0 FTKM-B1	MECHANICAL WORKSHOP 1	En.Ikbal Aizudin	20/per entry	Pedestal drill	1
2						Combination shear, brake and roll	1
3						Art welding set (wrt 2001- p)	1
4						High speed lathe machine	1
5						Tig welding machine triton 220 a	1
6						Band saw	1
7						Mastika milling machine	1
8						Mig/mma welding machine wega 400s	1
9						Hydraulic guilotine	1
10						Welding bay	1
11						Metal bending machine	1
12						Band saw (waytrain / ue 712a)	1
13						Band saw (waytrain / ue 916a)	1
14						Floor standing hydraulic press machine (big red / trd 53002)	1
15						Stand drill machine (dacho /dp1500w25n)	1
16						Stand drill machine (dacho /dp1500w25n)	1
17						Turning machine (guangzhou lathe machine /lc360b/1000)	1
18	WORKSHOP (44 ft x 40 ft)	MN2B0 FTKM-B2	MECHANICAL WORKSHOP 2	En.Norzarul Asri Bin Kamis	25	Fanuc CNC Milling Machine	1
19						DELL Desktop Computer	3
20	WORKSHOP (90 ft x 50 ft)	MN2C0 FTKM-B3	AUTOMOTIVE / UNIART LAB	En Amirol Bin Johari	35	On Set Up	

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21	LAB (38 ft x 56 ft)	MN2D0 FTKM-B4	THERMODYNAMIC LAB	En.Mohd Nizam Bin Hashim	40	Pool boiling heat transfer unit	1
22						Concentric tube heat exchanger unit	1
23						Conduction study bench	1
24						Transient heat transfer unit	1
25						Free& forced convection heat exchanger	1
26						Radiation heat transfer & exchanger	1
27						Mechanical heat pump	1
28						Critical point	1
29						Water cooling tower	1
30						Temperature measurement	1
31						Marcet boiler apparatus	1
32						Air compressor study unit	1
33						Digital recording thermometer	2
34						Fuel cell system hydrogen fuel cell parts & accessories	1
35						Marcet boiler	2
36						Boiler simulator software	10
37						Hp compax business desktop dx2000 mt series	10
38	LAB (38 ft x 60 ft)	MN2D0 FTKM-B4	TURBO MACHINERY & ENERGY	En.Mohd Nizam Bin Hashim	40	Francis Turbine	1
39						Subsonic Wind Tunnel	1
40						Fuel Cell Training System	1
41						Multi Pump test Rig	1
42						Solar Energy Apparatus	1
43						Photovoltaic Module	1
44	LAB (100 ft x 50 ft)	MN3D0 FTKM-B5	FLUID MECHANICS	En.Norzarul Asri Bin Kamis	50	Hydraulic Bench	2
45						Viscometer	1
46						Hydrostatic Pressure	1
47						Metacentric Height	1
48						Bernoulli's Theorem Demonstration Unit	1
49						Flow Measurement Apparatus	1
50						Pressure Measurement	1
51						Digital Barometer 1	2
52						Rheocal32 Software	1
53						Basic Hydraulic Bench 1	3
54						2D Particle Image Velocimetry Analyzer	1
55						Impact Of Jet Apparatus	1

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56	LAB (100 ft x 50 ft)	MN3D0 FTKM-B5	FLUID MECHANICS	En.Norzarul Asri Bin Kamis	50	TC-502D Circulating Water Bath Compact-Refrigerated	1
57						Small Sample Adapter	1
58						Fluid Friction Measurement Apparatus	1
59						Digitron Pressure Meter	1
60						Digital Thermo Anemometer Instrument	1
61						471 B-1 Digital Thermo Anemometer Instrument	1
62						6 Channel Data Logger	1
63						Thermal Properties Analyzer	1
64						Video IR Thermometer	1
65						Flir Infrared Camera	1
66						Hydrogen Generator System	1
67						Malfunction Vane Thermo Anemometer	1
68						HP laser Jet Printer	1
69						Circulating Water Bath	1
70						RV-1 Spindle	1
71						Impact of Jet Apparatus	1
72	Thermo Anemometer	1					
73	Digital Barometer	2					
74	LAB (160ft x 50 ft)	MN4F0 FTKM-B6	SOLID MECHANICS	En Muhamad Aliff Bin Yusoff	80	250kn Load Cell	1
75						250 Capacity Wedge type grips	1
76						Universal Joint for 250 KN	1
77						Loading Jig for Comperssion & Bending (250 KN)	1
78						Euler's Strut Demo unit	1
79						Rockwell Hardness Tester	1
80						Thermostatic Chamber	1
81						Autoclave	2
82						Impact Testing Machine	1
83						Servohydraulic Dynamic testing Machine	1
84						Cam & Follower Apparatus	2
85						Belt Friction Apparatus	2
86						Universal Governor Apparatus	1
87						Data Acquisition System Analyzer	1
88						Whirling of Shaft Apparatus	1
89						Universal Vibration Apparatus	3
90						Shaker & Vibration Test System	1
91						Machine Dynamics Faults Diagnostik Simulator	1
92	Picoscope 3424 4 Channel (PC Osilloscope)	1					

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93	LAB (160ft x 50 ft)	MN4F0 FTKM-B6	SOLID MECHANICS	En Muhamad Aliff Bin Yusoff	80	LCD Projector	1
94						Split Tube Furnace	1
95						DB8 Scadas Mobile 8 channel	1
96						Universal material testing Machine	1
97						Strain Gauge type Extensometer	1
98						Motorized Gear Train Apparatus	1
99						Torsion testing Machine	1
100						Metallurgical Microscop	1
NO	LABORATORY CATEGORIES & SIZE	LABORATORY CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTITY
101	LAB (85 ft x 38 ft)	MN4D0 FTKM-B7	MECHANICAL DESIGN 1	En.Mohd Amri Bin Zainol Abidin	40	Komputer Pelajar (Dell Xps 89300)	22
102						Komputer Pelajar (Hp Z 400)	18
103						3d printer	5
104						Planetary ball mill	1
105						Dry mixer	1
106						Wet / vaccum mixer	1
107						Shievering machine	1
108						Benchtop mill machine	1
109						Catia	25
110						Ansys	25
111						Spin casting system	1
112	LAB (158 ft x 38 ft)	MN4C0 FTKM-B8	MECHANICAL DESIGN 2	En.Mohd Amri Bin Zainol Abidin	100	Drafting table	100
114						Komputer Pelajar (Dell T3500)	20
115						Komputer Pelajar (Acer Veriton S670g)	30
116						KOMPUTER PELAJAR (ACER VERITON 690 Pro)	10
117						Komputer Pelajar (Hp Xw4400)	25
118						Komputer Pelajar (Hp COMPAQ Dx-2100)	60
119						Code Block	75
120						Auto cad 2007	75