

LIST OF EQUIPMENTS
FTKM-ZONE C

NO	LABORATORY CATEGORIES & SIZE	LABORATORY CODE	LABORATORY NAME	PIC	CAPACITY	EQUIPMENT	QUANTITY
1	WORKSHOP (24 ft x 42 ft)	FTKM-C3	BENGKEL PRODUCT DESIGN 3	En. FAZRUL IZHAM BIN AZIZAN	30	VACUUM FORMING MACHINE	1
2						GRINDER POLISHING MACHINE	1
3						BENCH CIRCULAR SAW MACHINE	1
4						SCROLL SAW MACHINE(MAKITA)	1
5						BAND SAW (EINHELL)	1
6						3D TOUCH PRINTER3D PRINTER	1
7						AIRBRUSH SET SYSTEM	12
8						3D PRINTER FOR ABS/PLA MATERIAL	4
9						3D PRINTER FOR ABS/PLA MATERIAL	3
10						LONG NOSE DIE GRINDER	3
11						PIN NAILER	3
12						ORBITAL SANDER	3
13						COMBINATION DISC BELT SANDER	1
14						OSCILLATING SPINDLE SANDER	1
15						LABORATORY WORKBENCH	10
16						LASER CUTTING & ENGRAVING MACHINE(NON METAL CUTTING)	1
17						CARVING TOOLS WITH CASE SET	1
18						CLAY WARMER	1
19						MULTIPURPOSE POWER TOOL KIT 219 PCS	6
20						CORDLESS DRILL 14.4V	3
21						CIRCULAR SAW	3
22						SLIDE MITRE SAW	3
23						208 APPRENTICE ENGINEER TOOLKIT	6
24						JIGSAW MAKITA	3
25						BENCH SAW	3
26						BENCH DRILL MACHINE	2
27						WOOD LATHE MACHINE	3
28						DUST COLLECTOR	3
29						AMP CORNER SANDER	3
30						BENCH POLISHER	3
31						FLAT SANDER	1
32						BOBBING VERTICAL SANDER	1
33						ACRYLIC BENDING MACHINE	1
34						STATIONARY PLANNER	1
35						TUBULAR HEATER	1
36						SUPERLIFT HAND PALLET TRUCK	1
37						BOSCH BENCH GRINDER	3
38						HAND DRILL BOSCH	3
39						ABBRAISVE CUTTER	1
40						CORDLESS METAL CIRCULAR SAW	1
41						THERMO FORMING MACHINE	1
42						ERGONOMIC ASSESSMENT TOOLS(ANTHROPOMETRIC	1
43						CORDLESS ORBITAL SANDER	1
44						RANDOM ORBIT SANDER	6
45						CORDLESS ORBITAL SANDER	6
46						CORDLESS SAW SABREE	3
47						CORDLESS JIGSAW	7
48						RECIPRO SAW(MAKITA)	3
49						CORDLESS IMPACT DRILL	3
50						PORTABLE PLANER	6

51	WORKSHOP (24 ft x 42 ft)	FIKM-C2	BENGKEL PRODUCT DESIGN 3	En. FAZRUL IZHAM BIN AZIZAN	30	PALM ROUTER	6
52						SPRAY GUN	3
53						INDUSTRIAL VACUM	2
54						PORTABLE WORKBENCH	5
55						MIG WELDING MACHINE	2
56						DUST COLLECTOR SYSTEM	3
57						CORAL DRY SPRAY BOOTH	1
58						PLASMA CUTTING MACHINE	1
59						WELDING TABLE &STOOLS	3
60						BAND SAW	2
61						PLASTIC WELDING KIT	2
62						SMART LED DIPLAY	1
63						SMART LED DIPLAY+BRACKET	1
64						PORTABLE STAND	1
67						TABLE WORKBENCH WITH STORAGE	2
68						TABLE WORKBENCH WITHOUT STORAGE	1
69						WALL MOUNTED INDUSTRIAL FAN	2
70						PORTABLE INDUSTRIAL FAN	3
71						CANON CAMERA	1
72						TAMRON LENS	1
73						CANON LENS	1
74						GODOX SPEEDLIGHT	1
75						MINI PHOTO STUDIO BOX	1
76						TITAL VIDEO SLIDER	1
77						YONGNUO SPEEDLIGHT	1
						BOYA MICROPHONE	1
						LIGHTING KIT	1
78	LABORATORY (24 ft x 42 ft)	FIKM-C1	MAKMAL KIMIA BAHAN	En. FAZRUL IZHAM BIN AZIZAN	30	VISCOMETER	1
79						LABORATORY DRYERS	1
80						STIRRING HOT PLATE	4
81						DIGITAL SHAKING WATER BATH	1
82						DENSIMETER	2
83						FILTER CHEMICAL STORAGE	1
84						SAFETY FLAMMABLE STORAGE	1
85						EMERGENCY SHOWER	1
86						GENERAL PURPOSE FUME HOOD	1
87						OVERHEAD STIRRER	5
88						ELECTROCHEMISTRY DEMONSTRATION SET	1
89						CORROSION LEARNING KIT	1
90						STILL WATER HEATER	2
91	LABORATORY (24 ft x 42 ft)	FIKM-C12	MAKMAL SENSOR DAN AUTOMASI	En. FAZRUL IZHAM BIN AZIZAN	30	JET FILL TENSIO METER	15
92						OSCILLOSCOPE	5
93						TORQUE SENSOR MEASUREMENT TRAINER	1
94						LOAD CELL TRAINER.	1
95						SPEED SENSOR MEASUREMENT	1
96						TEMPERATURE SENSOR MEASUREMENT TRAINER	1
97						PRESSURE SENSOR MEASUREMENT TRAINER	1
98						UNIVERSAL PRISMATIC COMPASS I 75	3
99						GUNTER CHAIN NICE CHESTERMAN 50'	3
100						AUTOMOTIVE TOOL SET WITH 5 TIER CABINET DRAWER	5
101						TRIMBLE R2 SUBMETER GPS RECEIVER	1
102						1 FOOT POLE SEGMENT & TRIMBLE BACKPACK	1

103						TRIMBLE JUNO 3B (AS DATA LOGGER)	1
104						CONVEYOR SORTING MODULE	1

105						ROBOTIC AUTOMATION STORAGE MODULE	1
106						PROGRAMMING LOGIC CONTROL KIT	1
107						ALUMINIUM WORKSTATION	1
108						AIR COMPRESSOR UNIT	1
109						SMART BUILDING CONTROL SYSTEM	1
110						AQUATERR T350 SOIL MOISTURE & TEMPERATURE METER (40550)	1
111						PC WORKSTATION	1
112						TRIMBLE TERRASYNC STANDARD SOFTWARE	1
113						TRIMBLE GPS PATHFINDER OFFICE SOFTWARE	1
114						JUPEM VRSNET ANNUAL SUBSCRIPTION	1
115						CHLOROPHYLL METER	2
116						BASIC HYDRAULIC TRAINER	1
117						BASIC PNEUMATIC TRAINER	1
118						OMRON PLC TRAINING KIT	3
119						COMPUTER SYSTEM	3
120						DOUBLE OPTICAL SQUARE	3
121	LABORATORY (24 ft x 42 ft)	FIKM-C13	MAKMAL SAINS PERTANIAN DAN TEKNOLOGI	En. FAZRUL IZHAM BIN AZIZAN	30	FRUIT PRESSURE TESTER	5
122						VACUUM PACKAGING MACHINE	1
123						BASIC PH METER	5
124						3120000925 RESEARCH PLUS 3-PACK	2
125						311500003 PIPETTE CAROUSEL STAND FOR 6 PIPETTES	2
126						3120000020 RESEARCH PLUS, ADJUSTABLE 0,5-10UL	1
127						3120000046 RESEARCH PLUS, ADJUSTABLE 10-100UL	1
128						3120000054 RESEARCH PLUS, ADJUSTABLE 20-200UL	1
129						FOOT IMPULSE SEALER	1
130						WATER ACTIVITY METER	1
131						ACCUTEC DIGITAL WEIGHING SCALE	2
132						UV-VIS SPECTROPHOTOMETER	2
133						-20C CHEST FREEZER	2
134						REFRIGERATOR (3-DOOR CHILLER)	1
135						MICROSCOPE BINOCULAR	10
136						CHROMAMETER	1
137						STEAM DISTILLATION UNIT	1
138						FLUID BED DRYER	1
139						EC3000- COMPLETE KIT IN TRANSPORT CAGE	5
140						MAGNETIC STIRER WITH CERAMIC HEATING PLATE	5
141						TRACEABLE JUMBO THERMO HYGROMETER	5
142						LUX MULTIMETER	2
143						BLENDER	5
144						650 L SIDE BY FRIDGE	2
145						OVEN	5
146						ECONOMY REVERSIBLE TWO-TIER STAINLESS STEEL UTILITY TROLLEY	2
147						LAB SERIES DEWAR/CARRIER TANK LAB 20, 21 LITERS	1
148						THERMOMETER SAFE T-GUARD PEN	5
149						MOISTURE BALANCE	2
150						REFRACTOMETER	5
151						VORTEX MIXER	2
152						FREEZER -40C	1
153						UPRIGHT FREEZER -20C	1
154						MUFFLE FURNACE	1
155						PRECISION BALANCE	3
156						HIGH PERFORMANCE DRY BATH- HEATING	2
157						LABORATORY DRYING CABINET	3
158						STORAGE CHEMICAL CABINET	1

159						ANALYTICAL BALANCE	5
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160						DIGITAL SHAKING WATERBATH	3
161						BENCHTOP CENTRIFUGE	1
162						WATER PURIFICATION SYSTEM	1
163						BENCHTOP LEAF AREA METER	1
						PORTABLE MULTI PARAMETER WATER QUALITY METER	2
						PORTABLE HANDHELD DIGITAL DISSOLVED OXYGEN METER	2
						DIGITAL OVERHEAD STIRRER	2
						MECHANICAL SIEVE SHAKER	1
						GAS COMBUSTION ANALYZER	1
						SAMPLE RING KIT MODEL	1
						LAQUA TWIN NITRATE METER (NO3)	1
						LAQUA TWIN POTASSIUM METER	1
						LAQUA TWIN CALCIUM METER	1
						PHOSPHORUS PHOTOMETER	1
164	LABORATORY (24 ft x 42 ft)	FIKM-C14	MAKMAL SAINS PERTANIAN DAN TEKNOLOGI	En. FAZRUL IZHAM BIN AZIZAN	30	PELLETIZER	1
165						WOOD CHIPPER	1
166						TOKAI 2-STROKE CHAIN SAW (TK521)	1
167						BAKER DISK MILL MACHINE	1
168						ENGINE STAND 1 CYLINDER 4 STROKE.	4
169						ENGINE STAND 3 CYLINDER 4 STROKE	4
170						SOLAR GENERATION TRAINING SYSTEM	1
171						BIODIESEL PROCESSOR KIT	1
172						COMPUTER CONTROL WIND ENERGY UNIT	1
173						SOLAR THERMAL INSTALLATION TRAINING SYSTEM. COME WITH	1
174						1 CYLINDER 2 STROKE ENGINE STAND	5

NO	LABORATORY CATOGERY & SIZE	LABORATORY CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTITY
1	LABORATORY	FIKM 5 FIKM-C5	MAKMAL PEMROSESAN BAHAN	En.Mohd Nurhilmi Bin Mohamad		TWO ROLL MILL MACHINE	1
2						ABRASIVE CUTTER	1
3						UNIVERSAL TESTING MACHINE (50KN)	1
4						UNIVERSAL TESTING MACHINE (250KN)	1
5						HAND PRESS	2
6						EDUCATIONAL KIT FOR PENETRANT KIT	1
7						EDUCATIONAL KIT FOR MAGNETIC PARTICLE KIT	1
8						PLANETARY MONO MILL	1
9						MECHANICAL MILLING MACHINE	1
10						RESIN TRANSFER MOLDING	1
11						LABORATORY TWIN SCREW EXTRUDER	1
12						INJECTION MOLDING MACHINE	1

NO	LABORATORY CATO GERY & SIZE	LABORATOR Y CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTIT Y
1	LABORATORY	FIKM 7 FIKM-C7	MAKMAL METALUR GI	En.Mohd Nurhilmi Bin Mohamad		HOT PRESS MACHINE	1
2						HOT MOUNTING	1
3						HIGH TEMPERATURE TUBE FURNACE	1
4						TUBE FURNACE 1200C HORIZONTAL	1
5						Z-BLADE MIXER	1
6						VACUUM OVEN	1
7						ROLLER MILL MIXER	1
8						FIBRE CRUSHER	1
9						OVEN WITH FAN	1
10						MWS –GL BELL CASTING	1
11						ELECTRIC MELTING FURNACE	1
12						TI MOTORISED SIEVE SHAKER	1
13						MOVING DIE RHEOMETER	1
14						BENCHTOP INJECTION MOLDING MACHINE	1
15						JAW CRUSHER	1
16						GRINDING POLYMER	2
17						HIGH TEMPERATURE CHAMBER FURNACE	1
18						SAND MIXER	1

NO	LABORATORY CATO GERY & SIZE	LABORATOR Y CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTIT Y
1		FIKM 18 FIKM-C18	MAKMAL MEIRO LOGI & PENCIRIAN BAHAN			MET ALLURGICAL HIGH POWER MICROSCOPE	1
2						PORT ABLE SURFACE ROUGHNESS TESTER	4
3						HRS-150 ROCKWELL DIGITAL DISPLAY HARDNESS TESTER	4
4						MHV-50Z DIGIT AL VICKERS HARDNESS TESTER	1
5						DIGIT AL BRINELL HARDNESS TESTER	1
6						CHARPY IMPACT TESTER	1
7						SHIMADZU UV-1800	1

NO	LABORATORY CATO GERY & SIZE	LABORATOR Y CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTIT Y
1		FIKM 8 FIKM-C8	MAKMAL TEKNOLOGI CNC 2	En.Mohd Nurhilmi Bin Mohamad		CNC VERTICAL MILLING MACHINE	2
2						DIGIT AL MICROSCOPY FOR TOOL WEAR MACHINING ANALYSIS HIGH POWER MET ALLURGICAL MICROSCOPE	1
3						MULTI COMPONENT FORCE DYNAMOMETER SYSTEM MULTI CHANNEL CHARGE AMPLIFIER DATA ACQUISITION SYSTEM (DAQS)	1
4						LOW CAPACITY AIR COMPRESSOR SYSTEM ROTARY SCREW COMPRESSOR	1
5						HEAVY DUT Y STORAGE CABINET	1
6						HEAVY DUT Y WORK BENCH	1
7						BLACK GRANITE SURFACE PLATE WITH STANDS	1
8						MICROMETER STANDS VERTICAL TYPE (up to 125 – 300 mm)	4
9						7” BANDSAW MACHINE (180 x280MM)	1

NO	LABORATORY CATOGERY & SIZE	LABORATORY CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTITY
1		FIKM 9 FIKM-C9	MAKMAL TEKNOLOGI CNC 2	En.Mohd Nurhilmi Bin Mohamad		CNC 5 AXIS MILLING MACHINE	1
2						AIR DRYER SYSTEM REFRIGERATED AIR DRYER	
3						HI-CAPACITY AIR COMPRESSOR SYSTEM.	1
4						MICROMETER STANDS VERTICAL TYPE (up to 300 – 1000 mm)	1
5						HEAVY DUTY WORK BENCH	1
6						BLACK GRANITE SURFACE PLATE WITH STANDS	1
7						CNC LATHE MACHINE (BRAND/MODEL:QUICKTECH/T6	1
8						MESIN CNC TURNING / DANOBAT	1
9						DIGITAL MICROSCOPY FOR TOOL WEAR MACHINING ANALYSIS	1
10						FULL HEIGHT CUPBOARD	1

NO	LABORATORY CATOGERY & SIZE	LABORATORY CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTITY
1	LABORATORY	FIKM 10 FIKM-C10	MAKMAL PEMESINAN TERMAJU	En.Mohd Nurhilmi Bin Mohamad		DIGITAL TORSION TESTING MACHINE (100 Nm) BRAND META-	1
2						DIGITAL TORSION TESTING MACHINE (200 Nm) BRAND META-	1
3						VACUUM & DEGASSING SYSTEM	1
4						RESIN INFUSION SYSTEM	1
5						MOULD OF AUTOMATIVE PART (UNIVERSAL)	1
6						MOULD OF AUTOMATIVE PART (SCOOP HOOD)	1
7						MESIN CNC / ENSHU	1
8						BLACK GRANITE SURFACE PLATE WITH STANDS	1

NO	LABORATORY CATOGERY & SIZE	LABORATORY CODE	LABORATORY	PIC	CAPACITY	EQUIPMENT	QUANTITY
1	LABORATORY	FIKM 17 FIKM-C17	MAKMAL MEKANIK KEJURUTERAAN	En.Mohd Nurhilmi Bin Mohamad		REACTION OF BEAM	3
2						PROJECTILE MOTION APPARATUS	2
3						LAW OF COLLISION	2
4						EQUILIBRIUM OF BEAM APPARATUS	3
5						EQUILIBRIUM OF FORCES APPARATUS	3
6						AIR TRACK EXPERIMENTS	2
7						PROJECTILE MOTION	3