

Sir Syed University of Engineering & Technology
_____Biomedical_____ Engineering Department

List of Dedicated Laboratories

Sr #	Room #	Block	Laboratory Name
01	DF-04	D	Bio-Instrumentation II Lab
02	DF-05	D	Physiology & Dentistry Lab
03	DF-06	D	Biomedical Engineering Sciences Lab / Basic Electrical Engineering Lab
04	DS-04	D	Anatomy & Medical Imaging Lab
05	DS-05	D	Bio Electronics & Bio Instrumentation Lab
06	DT-05	D	Advanced Electronics & Signal Processing Lab
07	DT-06	D	Bio-computing Lab
08	DFT-05	D	Project Lab
09	DFT-06	D	Biomechanics & Biomaterials Lab
10	DFT-04	D	Post –Graduate Research Lab (For PhD Program)

Sir Syed University of Engineering & Technology
_____BIOMEDICAL____ Engineering Department

Laboratories List
(Shared With Other Departments)

Sr #	Room #	Block	Laboratory Name
01	DT-04	D	BIOINFORMATICS LAB
02			
03			
04			
05			
06			
07			
08			
09			
10			

(Please fill one sheet per laboratory to provide information about each lab)

BIO INSTRUMENTATION-II (DF-04)

No. of Work Benches : 05

Maximum No. of Students : 45

No. of Students per Bench : 03

Adequacy & Quality

Sr #	Equipment	Quantity
01	UV – 1700 Spectrophotometer	01
02	Spectrofluorometer	01
03	HPLC (High Performance Liquid Chromatography)	01
04	Clinical Flame Photometer Model 410 with Sodium & Lithium Filters	01
05	Deionizer	01
06	Digital Viscosity Meter	01
07	Bio-Fuge (Capillaries Centrifuge)	01
08	8 Refrigerated Centrifuge Machine	01
09	Micro Lab 300 (Semi Automated clinical chemistry)	01
10	10 Filter	01
11	pH Meter	02
12	HP Laser Jet Printer	01
13	Cages	12
14	Decapitator	01
15	Stabilizer	01
16	Air Compressor	01

Anatomy & Medical Imaging Lab (DS-04)

No. of Work Benches : 05
Maximum No. of Students : 20-25
No. of Students per Bench : 5

Adequacy & Quality

Sr #	Equipment	Quantity
1	Big Left Ear Model with stand	01
2	02 Colored Giant Eye (06 pcs) 6 times magnified (Round Based)	05
3	03 Deluxe Brain with Arteries on base of Head	05
4	04 Human Skeleton with Stand	05
5	04 Middle Kidney with adrenal Gland magnified on base, 14.5cm Long	05
6	06 Super Heart Model	05
7	07 Transparent Lung, Larynx, Trachea, Heart & Heart Model with Elliptic	05
8	08 Computer Intel Pentium – IV	01
9	09 Computer Intel Pentium – III	01
10	10 Ultra Sound Machine	01

Bio Electronics & Bio Instrumentation Lab(DS-05)

No. of Work Benches : 07
Maximum No. of Students : 20-25
No. of Students per Bench : 3-4

Adequacy & Quality

Sr #	Equipment	Quantity
01	Digital Multimeter	05
02	Uni IC tester	01
03	Computer Pentium – IV	01
04	Function Generator	06
05	Oscilloscope	04
06	Digital Power Supply	06
07	ECG Module	01
08	EOG Module	01
09	EEG Module	01
10	EMG Module	01
11	ECG simulator	03
12	EEG simulator	03
13	EMG simulator	03
14	Blood Pressure Measurement module	01
15	Photo plethys gram module	01
16	Respiratory ventilation	01
17	Pulse meter module	01
18	Impedance module	01
19	Sensor module (KL-64001 to KL-64016)	16
20	Computer Interface Signal Converter	02
21	Micro computer sensing trainer	01
22	Micro computer sensing trainer	01
23	Digital Logic Trainer with 13 modules (KL-33001 to KL-33013)	01
24	Digital Analog Trainer	02
25	Computer Core i5 Computer Core i3	09 01

Advanced Electronics & Signal Processing Lab (DT-05)

No. of Work Benches : 7
Maximum No. of Students : 20-25
No. of Students per Bench : 03-04

Adequacy & Quality

Sr #	Equipment	Quantity
01	Power Electronic Trainer 02	02
02	Micro Processor Trainer (8088) 08	08
03	Micro Processor Trainer (8086) 03	01
04	ASIC (CPLD – FPGA) Trainer – XILINEX / ALTERA 04	04
05	Analogue Oscilloscope 14	14
06	Function Generator 09	01
07	Universal Counter 07	07
08	DC Power Supply (Dual) 12	12
09	Multimeters 25	25
10	Microcontroller Programmer 03	03
11	Memory (EPROM) Eraser 05	05
12	DSP Developing System 03	03
13	8051 Micro Computer Controller 08	08
14	Logic Probes 14	1
15	Oscilloscope probe 30	30
16	LEAD Selector 03	03
17	Bio Meter	01
18	18 touch Tone dialer	01

19	19 F.M Transmitter	01
20	Optical Bench	01
21	Digital logic Recorder	01
22	FM. Receiver	01
23	Science Instrument co	02
24	Audio Meter	01
25	Material Tester	01
26	Batteries Solar Cells and masks	01
27	Motors and Generators	07
28	Panel Base	01
29	Power Supply Base	01
30	Master Builder	01
31	Digital IC Tester	01
32	leaper -48 universal Writer	01
33	Instrumentation Transducers	03
34	Biomedical Instrumentation	02
35	Electric stimulator	01
36	Computer Cor2duo & Core i5	

Post Graduate Research Lab (MS Biomedical Engineering) (DT-05)

No. of Students per Bench : 03

Sr #	Equipment	Quantity
37	Computer Hp core i7 3.60 GHZ 50GB Hard disk – 8 GB RAM Casing– tower/ LED HP Keyboard- HP, Mouse-HP	03

Project Lab (DFT-05)

No. of Work Benches : 8
Maximum No. of Students : 20-25
No. of Students per Bench : 03

Adequacy & Quality

Sr #	Equipment	Quantity
1	Oscilloscope	06
2	Digital Power Supply	08
3	Function Generator	08
4	Digital Multimeter	05
5	Logic Probes	06
6	Computer Core i3	02

Post –Graduate Research Lab (For PhD Program) (DFT-04)

Maximum No. of Students: 3-5

Sr #	Equipment	Quantity
1	Computer Core2duo & Core i5	02

Biomechanics & Biomaterials Lab (DFT-6)

No. of Work Benches : 7
Maximum No. of Students : 20-25
No. of Students per Bench : 3-4

Adequacy & Quality

Sr #	Equipment	Quantity
1	Robotics, Lego NXT	06
2	Robotics, ARM	08
3	Robotics, Trainers	08
4	Universal Writer	05

5	Musculoskeletal System	06
6	Biomechanics Advance Structure Module	02
7	Human Arm Model	
8	Material Testing Machine	01
9	Atomic Absorption U /V. White Light, Transilluminator	01
10	Incubator (Binder)	01
11	Spectrophotometer	01
12	Digital Ph Meter	01
13	Centrifuge	01
14	Submarine Electrophoresis System	02
15	Digital Electronic Scale	01
16	Computer Pentium – IV	01
17	Step down Transformer	

**Biomedical Engineering Sciences Lab / Basic Electrical Engineering
Lab(DF-06)**

No. of Work Benches : 08
Maximum No. of Students : 20 -25
No. of Students per Bench : 2-3

Adequacy & Quality

Sr #	Equipment	Quantity
01	Spectrophotometer	03
02	Digital Balance	01
03	Ammeter	02
04	Centrifuge	04
05	Digital Balance	01
06	Digital pH Meter	07

07	Distillation Unit	01
08	F.M. Receiver	01
09	F.M. Transmitter	01
10	10 Function Generator	11
11	Glucometer (ACCU CHECK)	04
12	Grant – Bio	01
13	Instrumentation Trainer Cards	07
14	Laboratory DC Power Supply	16
15	Lead Selector	03
16	Life Sign Meter	01
17	Load Bank	01
18	Logic Control Circuit	01
19	Magnetic Stirrer	01
20	Master Builder	01
21	Motors and Generator	01
22	Multimeter	09
23	Oscilloscopes	10
24	Panel Base	
25	Phonatory Function Analyzer	
26	Physical Balance	01
27	Power Factor Power Factor Meter	02
28	Material Test Master Tester	01
29	Sartorius (Digital Balance)	01
30	Spectrophotometer	07
31	Wiggen Haus Wiggin Hauser	01
32	Universal Counter	10
33	Water Bath	01
34	Watt Meter	02
35	Touch Tone Dialer	01
36	Logic Probe	05
37	X – Ray Tube (Sample)	01

38	Universal Adapter	01
39	Test Tube Stand	20

Physiology & Dentistry Lab (DF-05)

No. of Work Benches : 12
 Maximum No. of Students : 20-25
 No. of Students per Bench : 2- 3

Adequacy & Quality

Sr #	Equipment	Quantity
01	Dental Chair System	01
02	E.C.G Machine	01
03	Electronic Balance	01
04	Kymograph	01
05	Power Lab Complete Human and Animal Physiology	01
06	Autoclave	01
07	Square Wave Stimulator	01
08	Defibrillator Analyzer	01
09	Microscope	13
10	Hemoglobin Meter	01
11	Computer Intel Pentium – IV	01
12	Spirometer	09
13	CO2 Insufflator	01

14	Refrigerator Centrifugal Machine 01	01
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