

**DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE
(AUTONOMOUS)
PERAMBALUR - 621 212.
DEPARTMENT OF BIOMEDICAL ENGINEERING
DSEC REGULATION 2020**

**BIOCHEMISTRY LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	Colorimeter	2
2.	Spectrophotometer	1
3.	pH meter	1
4.	Weighing balance	1
5.	Refrigerator	1
6.	SDS gel electrophoresis	1
7.	TLC, ready TLC plates	1
8.	Wintrobe's tube	2
9.	Centrifuge Normal	1
10.	Microslides (packets)	2
11.	Lancet (boxes)	5
12.	Microscope	1
13.	Neubaur's Chamber	2
14.	Heparinized Syringe (box)	1
15.	Haemoglobinometer	1
16.	Elisa reader	1
17.	Capillary tubes (box)	1

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**PATHOLOGY AND MICROBIOLOGY LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	UV- Spectrophotometer	1
2.	Colorimeter	2
3.	Electronic Weighing balance	1
4.	Optical Microscope	1
5.	Centrifuge	1
6.	Cryosectioning	1
7.	Hot air oven	1
8.	Incubator	1
9.	Autoclave	1
10.	Refrigerator	1
11.	PH meter	1
12.	Homogeniser	1
13.	Magnetic stirrer	1
14.	Sonicator	1
15.	Vortex mixer	2
16.	Laminar air flow	1
17.	Wax dispenser	1
18.	Slide dispenser	1

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**DEVICES AND CIRCUITS LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	BC 107	25
2.	BC 148	25
3.	2N2646	25
4.	BFW10	25
5.	1N4007	25
6.	Zener diodes	25
7.	Resistors, Capacitors, Inductors (sufficient quantities)	25
8.	Bread Boards	15
9.	CRO (30MHz)	10
10.	Function Generators (3MHz)	10
11.	Dual Regulated Power Supplies (0-30V)	10

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**HUMAN PHYSIOLOGY LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	Microscope	2
2.	Centrifuge Normal	1
3.	Wintrobe's tube	2
4.	PCV tube	2
5.	Neubaur's Chamber	2
6.	Heparinized Syringe	1
7.	Haemoglobinometer	1
8.	Blood grouping kit	1
9.	Capillary tubes	1
10.	Ophthalmoscope	1
11.	Tuning fork (256Hz to 512Hz)	5
12.	Microslides (Packets)	2
13.	Lancet (boxes)	5

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**FUNDAMENTALS OF DATA STRUCTURES IN C LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	PC with C compiler	30

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**BIO MEDICAL INSTRUMENTATION LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	pH meter and conductivity meter	1
2.	Photo transducer for pulse measurement	1
3.	Sphygmomanometer and Stethoscope	1
4.	Blood flow measurement system	1
5.	Multiparameter (ECG, EMG, EEG) Simulator	2
6.	Function generator	8
7.	DSO	8
8.	Regulated Power supplies	8
9.	Bread boards	8
10.	IC LM 324	20
11.	AD 620	20
12.	INA series (126,128 etc.)	20
13.	555 Timer	20
14.	Opto Isolator IC: MCT2E	1
15.	Software tool for PCB design	1

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**DIGITAL SIGNAL PROCESSING LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	PCs with Fixed / Floating point DSP Processors (Kit / Add-on Cards)	15
2.	MATLAB with Simulink and Signal Processing Tool Box (or Equivalent) Software in desktop systems	15 User license
3.	Signal Generators (1MHz)	20
4.	CRO (20MHz)	20

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**DIAGNOSTIC AND THERAPEUTIC EQUIPMENT LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	Visually evoked potential setup	1
2.	GSR setup	1
3.	Multi-output power supply (+15v, -15v,+30V variable, +5V, 2A)	2
4.	Short wave Diathermy	1
5.	Ultrasound diathermy	1
6.	Multiparameter biotelemetry system	1
7.	Electrical Safety Analyser	1
8.	Spirometry with associated analysis system	1
9.	ECG Simulator	1
10.	Medical stimulator	1
11.	Surgical diathermy with analyzer	1
12.	Audiometer	1
13.	Pacemaker	1
14.	Defibrillator	1
15.	Haemodialysis model	1
16.	Heart lung Model	1
17.	Ventilator	1
18.	Ultrasound Scanner	1
19.	Software to Analyze ECG,EEG and EMG	1

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**MICROPROCESSOR AND MICROCONTROLLER LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	8086 Microprocessor trainer kit with power supply	15
2.	8051 Microcontroller trainer kit	15
3.	Traffic light control interfacing card compatible with 8086 & 8051 kits	5
4.	Stepper motor control interfacing compatible with 8086 & 8051 kits	5
5.	Digital clock interfacing board compatible with 8086 & 8051 kits	5
6.	Keyboard & Display Interface board compatible with 8086 & 8051 kits	5
7.	Printer interfacing card compatible with 8086 & 8051 kits	5
8.	A/D and D/A interfacing card compatible with 8086 & 8051 kits	5
9.	Serial and Parallel Interfacing card compatible with 8086 & 8051 kits	5

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**DIGITAL IMAGE PROCESSING LABORATORY
Requirements for a batch of 30 students**

S. No.	Description of the Equipment	Quantity Available (in Nos.)
1.	PCs with related accessories	30
2.	MATLAB Software	15 User license