

**KARPAGA VINYAGA COLLEGE OF ENGINEERING AND  
TECHNOLOGY  
DEPARMENT OF BIOTECHNOLOGY  
LIST OF MAJOR EQUIPMENTS**

<b>S.NO</b>	<b>NAME OF THE EQUIPMENTS</b>	<b>NAME OF THE COMPANY</b>
1.	LAMINAR FLOW CHAMBER	AIR TECH SYSTEM AND SERVICES
2.	BACTERIOLOGICAL INCUBATOR	INSTRUMENTS AND EQUIPMENT MAKE - MEMMERT
3.	COOLING CENTRIFUGE	REMI MAKE MODEL C- 24
4.	UV- TRANSILLUMINATOR	TECH LAB INSTUMENTS
5.	FUME EXHAUST HOOD	MEDITEK INSTUMENTS
6.	LABORATORY MECHANICAL SHAKER	SYSTRONICS ENTERPRISES
7.	FLUROMETER	CONCORD INSTRUMENTS (p) LTD
8.	PERISTALIC PUMP	LARK INNOVATIVE FINE TECH KNOWLEDGE
9.	GEL DOCUMENTATION	LARK INNOVATIVE FINE TECH KNOWLEDGE
10.	THERMAL CYCLER	LARK INNOVATIVE FINE TECH KNOWLEDGE
11.	FERMENTOR (3 Litr0065 Capacity)	LARK INNOVATIVE FINE TECH KNOWLEDGE
12.	ELISA READER	TECH LAB INSTUMENTS
13.	COMPUTER	LG- STUDIO WORKS
14.	DEEP FREEZER	TECH LAB INSTUMENTS
15.	SONICATOR	TECH LAB INSTUMENTS
16.	REFRIGERATED WATER BATH	LABNET SCIENTIFIC SERVICES
17.	PHASE CONTRAST MICROSCOPE	TECH LAB INSTUMENTS
18.	FLAME PHOTOMETER	SYSTRONICS
19.	UV SPECTROPHOTOMETER	SYSTRONICS
20.	REFRIGERATOR	LG 312 LITERS CAPACITY
21.	WATER BATH SHAKER	DALAL WATER BATH SHAKER

**KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY  
MADHURANTHAGAM TALUK-603 308**

**Department:Biotechnology**

**Semester/year:III/II Year**

**Subject : Biochemistry Practicals**

**Subject Code : BT 1152**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1</b>	<b>pH meter</b>
<b>2</b>	<b>Colorimeter</b>
<b>3</b>	<b>Water bath</b>
<b>4</b>	<b>Balance 500g-.1g</b>
<b>5</b>	<b>Balance.1mg</b>
<b>6</b>	<b>Table top centrifuge Remi R-24</b>
<b>7</b>	<b>Microfuge</b>
<b>8</b>	<b>Micropipetts 20<math>\mu</math>l-200<math>\mu</math>l: 1<math>\mu</math>l-20<math>\mu</math>l</b>
<b>9</b>	<b>Oven</b>
<b>10</b>	<b>UV-vis Spectrometer</b>
<b>11</b>	<b>Vortexer</b>
<b>12</b>	<b>Magnetic Stirrer</b>
<b>13</b>	<b>Fume hood</b>
<b>14.</b>	<b>Bunsen Burner</b>

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MADHURANTHAGAM TALUK-603 308**

**Department:Biotechnology**

**Semester/year:III/II Year**

**Subject : CELL BIOLOGY LAB**

**Subject Code : BT1206**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Table Top refrigerated centrifuge</b>
<b>2.</b>	<b>Electro phoresis unit</b>
<b>3.</b>	<b>Transfer apparatus</b>
<b>4.</b>	<b>Light Microscope</b>
<b>5.</b>	<b>Haemocyto meter</b>
<b>6.</b>	<b>Co2 Incubator</b>
<b>7.</b>	<b>Laminar flow hood</b>
<b>8.</b>	<b>Autoclave</b>

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**Department:Biotechnology**

**Semester/year:IV/II Year**

**Subject : MICRO BIOLOGY LAB**

**Subject Code : BT1207**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>pH meter</b>
<b>2.</b>	<b>Colorimeter</b>
<b>3.</b>	<b>Water bath</b>
<b>4.</b>	<b>Balance 500g-.1g</b>
<b>5.</b>	<b>Balance .1mg</b>
<b>6.</b>	<b>Table top centrifuge Remi R-24</b>
<b>7.</b>	<b>Microfuge</b>
<b>8.</b>	<b>Micropipetts 20<math>\mu</math>l-200<math>\mu</math>l: 1<math>\mu</math>l-20<math>\mu</math>l</b>
<b>9.</b>	<b>Oven</b>
<b>10.</b>	<b>UV-vis Spectrometer</b>
<b>11.</b>	<b>Vortexer</b>
<b>12.</b>	<b>Magnetic Stirrer</b>
<b>13.</b>	<b>Fume hood</b>
<b>14.</b>	<b>Bunsen Burner</b>

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**Department:Biotechnology**

**Semester/year:III/II Year**

**Subject : Bio-Organic Chemistry Practicals**

**Subject Code : BT 1205**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Hot plate</b>
<b>2.</b>	<b>Water bath</b>
<b>3.</b>	<b>Oil bath</b>
<b>4.</b>	<b>Round bottom flask with mantle</b>
<b>5.</b>	<b>Water Bath shaker</b>
<b>6.</b>	<b>Shaker</b>
<b>7.</b>	<b>Soxhlet Extraction Apparatus</b>

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**Department:Biotechnology**

**Semester/year:V/III Year**

**Subject: Molecular Biology Lab**

**Subject Code: BT 1257**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Weighing balance Analytical</b>
<b>2.</b>	<b>Micro centrifuge ELTEK</b>
<b>3.</b>	<b>Refrigerated microfuge REMI</b>
<b>4.</b>	<b>DNA Electro phoresis tank Genei</b>
<b>5.</b>	<b>Rock &amp; Roll TARSONS</b>
<b>6.</b>	<b>UV Transilluminator</b>
<b>7.</b>	<b>Laminar hood</b>
<b>8.</b>	<b>Spectro photo meter</b>
<b>9.</b>	<b>Water bath shaker</b>
<b>10.</b>	<b>Refrigerator</b>
<b>11.</b>	<b>Incubator</b>

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**Department:Biotechnology**

**Semester/year:IV/II Year**

**Subject: Instrumental method of Analysis Lab**

**Subject Code: BT 1256**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>UV Spectrophotometer</b>
<b>2.</b>	<b>Fluorimeter</b>
<b>3.</b>	<b>Chromatographic Columns</b>
<b>4.</b>	<b>Flame Photo meter</b>
<b>5.</b>	<b>Nephelo meter</b>

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**Department:Biotechnology**

**Semester/year:IV/IIYear**

**Subject: Chemical Engineering Lab**

**Subject Code: BT 1258**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Orifice meter and Rotameter</b>
<b>2.</b>	<b>Straight pipe and Annular pipe</b>
<b>3.</b>	<b>Packed bed and Fludised Coloumns</b>
<b>4.</b>	<b>Jaw crusher</b>
<b>5.</b>	<b>Gyratory sieve shaker</b>
<b>6.</b>	<b>Leaf filter and Rotary Drum Filter</b>
<b>7.</b>	<b>Shell and Tube Heat Exchanger</b>
<b>8.</b>	<b>Film Type Evaporator</b>
<b>9.</b>	<b>Pipes with Thermocouples</b>

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**Department: Biotechnology**

**Semester/year: V/III Year**

**Subject: BIOPROCESS LAB I**

**Subject Code: BT1306**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Shaker</b>
<b>2.</b>	<b>Laminar flow chamber</b>
<b>3.</b>	<b>Water bath</b>
<b>4.</b>	<b>Spectro Photo meter</b>
<b>5.</b>	<b>pH meter</b>
<b>6.</b>	<b>Weighing balance</b>
<b>7.</b>	<b>Vortex mixer</b>
<b>8.</b>	<b>Glass Columns for packed bed studies</b>
<b>9.</b>	<b>Micro centrifuge</b>

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**Department: Biotechnology**

**Semester/year: VI/III Year**

**Subject: GENETIC ENGINEERING**

**Subject Code: BT1307**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>SDS-PAGE electrophoresis</b>
<b>2.</b>	<b>Sonicator</b>
<b>3.</b>	<b>Western blot apparatus</b>
<b>4.</b>	<b>-20°C Deep freezer</b>
<b>5.</b>	<b>PCR machine</b>
<b>6.</b>	<b>Elisa reader</b>
<b>7.</b>	<b>Water bath shaker</b>
<b>8.</b>	<b>High-speed centrifuge</b>
<b>9.</b>	<b>Vortex machine</b>
<b>10.</b>	<b>Water bath</b>

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**Department:Biotechnology**

**Semester/year:VI/III Year**

**Subject : Bioprocess Lab II**

**Subject Code : BT 1355**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Bioreactor</b>
<b>2.</b>	<b>Refrigerated water bath</b>
<b>3.</b>	<b>Air compressor</b>
<b>4.</b>	<b>Peristaltic pump</b>

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**Department:Biotechnology**

**Semester/year: VII/IV Year**

**Subject : Immunology**

**Subject Code : BT 1405**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Electrophoresis unit</b>
<b>2.</b>	<b>ELISA reader</b>
<b>3.</b>	<b>ELISA micro plate analyser</b>

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**Department:Biotechnology**

**Semester/year: VII/IV Year**

**Subject : DOWNSTREAM PROCESSING**

**Subject Code : BT1404**

**LIST OF MAJOR EQUIPMENTS**

<b>S.NO.</b>	<b>NAME OF THE EQUIPMENT</b>
<b>1.</b>	<b>Cooling Centrifuge</b>
<b>2.</b>	<b>Laminar flow chamber</b>
<b>3.</b>	<b>Water bath</b>
<b>4.</b>	<b>Spectro photo meter</b>
<b>5.</b>	<b>pH meter</b>
<b>6.</b>	<b>Weighing balance</b>
<b>7.</b>	<b>Vortex mixer</b>
<b>8.</b>	<b>Glass Columns for packed bed studies</b>
<b>9.</b>	<b>Micro centrifuge</b>
<b>10.</b>	<b>Sonicator</b>
<b>11.</b>	<b>Vacuum filter</b>

<b>12.</b>	<b>Electrophoresis unit</b>
<b>13.</b>	<b>Thin layer chromatography</b>