



JSS MAHAVIDYAPEETHA

## JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

Autonomous, A+ Grade with CGPA 3.30 and 'College with Potential for Excellence'

OOTY ROAD, MYSURU-570 025, KARNATAKA

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### List of Laboratories and Equipment Total worth of instruments in Labs: ~4.9Cr

| Sl. No. | Laboratory Name                       | Room No | Equipment Name                                   | Quantity | Amount in Rs |
|---------|---------------------------------------|---------|--|----------|--------------|
| 1       | BTFS<br>Laboratory<br>(Students)      | 329     | High speed Refrigerated Centrifuge (KUBOTA)      | 1 no.    | 5,83,985     |
| 2       |                                       |         | Deep Freezer (-20° C)                            | 1 no.    | 42,322       |
| 3       |                                       |         | Master Cycler (P - CR)                           | 1 no.    | 2,53,800     |
| 4       |                                       |         | Micro Plate Reader                               | 1 no.    | 2,20,000     |
| 5       |                                       |         | Refrigerator - 365 lt                            | 1 no.    | 21,500       |
| 6       |                                       |         | Spectrophotometer (UV - Visible)                 | 1 no.    | 3,27,066     |
| 7       |                                       |         | UV - Transilluminator                            | 1 no.    | 19,935       |
| 8       |                                       |         | Speed Vacuum Concentrator                        | 1 no.    | 3,00,000     |
| 9       |                                       |         | -80°C Deep Freezer                               | 1 no.    | 3,50,000     |
| 10      | Plant Tissue<br>Culture<br>Laboratory | 333     | Laminar Air Flow - 4' X 2' X 2'                  | 2 no.    | 96,188       |
| 11      |                                       |         | Tissue culture rack (1400L x 600W x 2400H) mm    | 6 no.    | 3,90,000     |
| 12      | Research Lab                          | 337     | Freeze Dryer                                     | 1        | 6,50,000     |
| 13      |                                       |         | LEXICON  | 1        | 3,41,241     |
| 14      |                                       |         | Laminar Air Flow cabinet-Vertical                | 1        | 89,482       |
| 15      |                                       |         | APLAB UPS 7.5 KVBatteries                        | 1        | 2,19,829     |
| 16      |                                       |         | Freezer (-20)                                    | 1        | 70,000       |
| 17      |                                       |         | AC(Blue Star)                                    | 1        | 58,339       |
| 18      |                                       |         | CO <sub>2</sub> Cylinder                         | 2        | 27,400       |
| 19      |                                       |         | CO <sub>2</sub> Incubator with Biosafety Cabinet | 1        | 6,51,800     |
| 20      |                                       |         | N <sub>2</sub> Cylinder                          | 2        | 26,400       |
| 21      |                                       |         | L.G.Refrigerator-368                             | 1        | 26,000       |
| 22      |                                       |         | Refrigerator-LG-230                              | 1        | 13,400       |
| 23      |                                       |         | TLC Instrument                                   | 2        | 21,600       |
| 24      |                                       |         | Soxlet apparatus                                 | 1        | 2,811        |

|    |                    |     |   |    |           |
|----|--------------------|-----|---|----|-----------|
| 25 | Bioinformatics Lab | 339 | LED Projector (Epson)                         | 1  | 29,530    |
| 26 |                    |     | AC (Blue Star)                                | 1  | 58,339    |
| 27 |                    |     | Computer Desktop-Lenovo                       | 10 | 2,87,960  |
| 28 |                    |     | Projector Screen                              | 1  | 12,595    |
| 29 | Research Lab       | 357 | HPLC  | 1  | 14,98,000 |
| 30 |                    |     | Gas Chromatography                            | 1  | 14,75,000 |
| 31 |                    |     | Fluorescence Spectrophotometer                | 1  | 9,00,000  |
| 32 |                    |     | UV-Vis Spectrophotometer                      | 1  | 4,95,000  |
| 33 |                    |     | Rotavapor                                     | 1  | 2,19,000  |
| 34 |                    |     | Cooling Centrifuge REM                        | 1  | 98,000    |
| 35 |                    |     | Centrifuge REMI PR-24                         | 1  | 73,000    |
| 36 |                    |     | Aqua guard water purifier                     | 2  | 31,980    |
| 37 |                    |     | Magnetic Stirrer with digital speed indicator | 1  | 6,530     |
| 38 |                    |     | Magnetic stirrer Pinot                        | 1  | 12,481    |
| 39 |                    |     | Centrifuge Legend Micro                       | 1  | 95,000    |
| 40 |                    |     | Hermle Refrigerated Centrifuge                | 1  | 3,77,304  |
| 41 |                    |     | Dual Electrophoresis Unit (Vertical Mini)     | 1  | 13,000    |
| 42 |                    |     | Electrophoresis Power pack                    | 1  | 14,200    |
| 43 |                    |     | Colorimeter                                   | 5  | 40,000    |
| 44 |                    |     | Magnetic Stirrer                              | 1  | 6,500     |
| 45 |                    |     | Magnetic Stirrer 5L                           | 1  | 6530      |
| 46 |                    |     | Horizontal Electrophoresis Unit               | 1  | 5,000     |
| 47 |                    |     | Gel-Rocker SK-D3309-Pro                       | 1  | 10,000    |
| 48 |                    |     | pH Meter                                      | 5  | 15,000    |
| 49 |                    |     | Vortex MX-S                                   | 1  | 4,712     |
| 50 |                    |     | Microscope                                    | 3  | 73,133    |
| 51 |                    |     | Inverted Microscope (Moticam-Pro)             | 1  | 3,51,694  |
| 52 |                    |     | AC (Blue Star)                                | 1  | 58,339    |
| 53 |                    |     | Heating Stirrer(Dragon Lab-MS-H280-Pro)       | 1  | 9,000     |
| 54 |                    |     | Micro Centrifuge                              | 1  | 1.06 L    |
| 55 |                    |     | Vertical slab Electrophoresis Unit (Dual)     | 1  | 7,000     |
| 56 |                    |     | Power Pack Digital                            | 1  | 16,200    |

|    |  |       |   |       |                        |
|----|--|-------|---|-------|------------------------|
| 57 |  |       | Evoqua Double distilled water unit (Evoqua) | 1     | 5,00,000               |
| 58 |  |       | Weighing Balance- Sartorius& TE212, TE2148  | 3     | 2,13,394               |
| 59 |  |       | Computer Desktop-Lenovo                     | 1     | 27,195                 |
| 60 | PG-Lab   | 358   | Colorimeter                                 | 4     | 32,000                 |
| 61 |  |       | Chromatography Chamber                      | 1     | 11,700                 |
| 62 |  |       | Incubator                                   | 1     | 21,289                 |
| 63 |  |       | Hot air Oven                                | 1     | 38,812                 |
| 64 |  |       | Shaking Water Bath                          | 1     | 56,003                 |
| 65 |  |       | pH Meter                                    | 4     | 12,000                 |
| 66 |  |       | Cyclo mixer (Vortex)                        | 1     | 2,980                  |
| 67 |  |       | Centrifuge-REMI                             | 1     | 10,300                 |
| 68 |  |       | Refrigerator-LG-508&LG-449                  | 2     | 52,000                 |
| 69 |  |       | Open Weighing Pan Balance                   | 1     | 8,087                  |
| 70 |  |       | Biotech Lab                                 | 363   | Refrigerated Microfuge |
| 71 | CO <sub>2</sub> Incubator  | 1 no. |   |       | 1,71,000               |
| 72 | CO <sub>2</sub> Incubator  | 1 no. |   |       | 2,85,000               |
| 73 | Biosafety Cabinet  | 1 no. |   |       | 3,80,000               |
| 74 | Laminar Air Flow - 4' X 2' X 2'  | 1 no. |   |       | 57,915                 |
| 75 | Binocular Stereo Microscope (Stereozoom)                                 | 2 no. |   |       | 67,662                 |
| 76 | Binocular Stereo Microscope (Inverted Microscope)                        | 1 set |   |       | 2,55,000               |
| 77 | Refrigerator   | 1 no. |   |       | 15,990                 |
| 78 | Revolutionary Table Top High Speed Cooling Centrifuge (A. Head, 12X15ml) | 1 no. |   |       | 1,06,616               |
| 79 | BTFS Laboratory  | 364   | Fluorescence Microscope With Digital Camera | 1 no. | 5,30,000               |
| 80 |  |       | Gel - Doc System                            | 1 no. | 3,50,000               |
| 81 |  |       | Incubator Shaker                            | 1 no. | 86,872                 |
| 82 |  |       | Ice Machine - Flaker                        | 1 no. | 1,19,072               |
| 83 |  |       | Master Cyclor (Gradient)                    | 1 no. | 3,50,000               |
| 84 |  |       | UV Visible Microplate Spectrophotometer     | 1 no. | 4,80,000               |
| 85 |  |       | Bioreactor/Fermentor                        | 1 no. | 17,00,000              |
| 86 |  |       | Ultra Centrifuge                            | 1 no. | 18,00,000              |
| 87 |  |       | Water Purification System                   | 1 no. | 3,08,875               |

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|-----|----------------|---------|---|-------|-------------|
| 88  |                |         | HPLC  | 1 no. | 13,00,000   |
| 89  | Lab – 01       | 044 / A | Desktops, higher and updated  | 29    | 1198074     |
| 90  | Lab – 02       | 044 / B | Desktops, higher and updated  | 20    | 976242      |
| 104 | Lab – 03       | 044 / C | Desktops, higher and updated  | 21    | 5,91,652.00 |
| 107 | Lab – 04       | 044 / D | Desktops, higher and updated  | 20    | 988542.55   |
| 112 | CM Lab         | 41      | Lenovo K-200 Series Desktop Model 5312 2HQ Intel Pentium Dual Core Processor 1 GB RAM / 160 GB HDD 16 in one card reader, DVD writer, Lenovo Keyboard / Mouse, Lenovo 17" CRT monitor | 24    | 519308      |
| 120 | Analytical Lab | 243     | UV-VIS Spectrophotometer, Model-UV 1800   | 1     | 4,00,000    |
| 121 |                |         | Flame photometer  | 2     | 57,600      |
| 122 |                |         | Digital Weighing Balance  | 1     | 1,20,000    |
| 123 | Inorganic Lab  | 366     | Ratamantle 2LTs REMI 2RML   | 2     | 22,611      |
| 124 |                |         | Melting point-Boiling point Apparatus   | 1     | 23,200      |
| 125 | Organic Lab    | 365     | Deep freezer, RDF 175, 175 ltrs   | 1     | 73,986      |
| 126 |                |         | Rota evaporator with vacuum pump and cooler   | 1     | 2,50,000    |
| 127 |                |         | Melting point-Boiling point Apparatus   | 1     | 23,200      |
| 128 | Physical Lab   | 328     | UV-VIS Spectrophotometer  | 1     | 3,50,000    |
| 129 |                |         | Muffle Furnace  | 2     | 1,17,000    |
| 130 |                |         | Microwave synthesizer   | 1     | 85,000      |
| 131 | Research Lab   | 244     | IR Spectrophotometer  | 1     | 8,47,100    |
| 132 |                |         | UV-VIS Double beam Spectrophotometer  | 1     | 4,27,000    |
| 133 | Electronics    | 247     | Power supplies  | 25    | 1,00,000.00 |
| 135 |                |         | Function Generators   | 18    | 1,10,000.00 |
| 136 |                |         | Measuring instruments   | 52    | 78,000.00   |
| 138 |                |         | Meters-Digital  | 20    | 40,000      |
| 139 |                |         | CROs  | 10    | 2,50,000.00 |
| 140 |                |         | DMMs  | 15    | 40,000.00   |
| 141 |                |         | Trainer Kits  | 5     | 55,000.00   |
| 143 |                |         | Digital kits  | 6     | 52,000.00   |
| 144 |                |         | Microcontroller Trainer Kits  | 10    | 66,000.00   |
| 145 |                |         | Microprocessor Trainer Kits   | 8     | 48,000.00   |

|     |               |               |   |         |             |
|-----|---------------|---------------|---|---------|-------------|
| 146 |               |               | Interfacing Units                       | 15      | 45,000.00   |
| 147 |               |               | Transducers                             | 10      | 85,000.00   |
| 148 |               |               | Experimental boards                     | 45      | 90,000.00   |
| 149 | Electronics   | 246           | Computers                               | 17      | 5,10,000.00 |
| 151 | Animation Lab | Animation Lab | Autodesk Maya Software                  | 22 Nos. | 895419      |
| 152 |               |               | Adobe Creative Cloud for Teams Software | 02Nos.  | 46996       |
| 153 |               |               | Adobe Creative Cloud for Teams Software | 04Nos.  | 93992       |
| 154 |               |               | Adobe Creative Cloud for Teams Software | 04Nos.  | 93992       |
| 155 |               |               | HP Desktop 280                          | 05Nos.  | 303500      |
| 156 |               |               | HP Desktop 280                          | 05Nos.  | 224925      |
| 157 | B.Voc/M.Voc   | B.Voc/M.Voc   | 10 KVA UPS                              | 01No.   | 310000      |
| 158 |               |               | 7.5 KVA UPS                             | 01No.   | 265000      |
| 159 |               |               | 10 KVA UPS                              | 01No.   | 310000      |
| 160 |               |               | 7.5 KVA UPS                             | 01No.   | 265000      |
| 161 |               |               | HDCM Based Camera (CC TV Camera)        | 07Nos.  | 82317       |
| 162 |               |               | Optoma X341 Projector                   | 08Nos.  | 306560      |
| 163 |               |               | AUX220 Shimdzu Japan                    | 01No.   | 84845       |
| 164 |               |               | AUX220 Shimdzu Japan                    | 02Nos.  | 169690      |
| 165 |               |               | AUX220 Shimdzu Japan                    | 01No.   | 84845       |
| 166 |               |               | Binocular Microscope                    | 20Nos.  | 821270      |
| 167 |               |               | Binocular Microscope                    | 02Nos.  | 56724       |
| 168 |               |               | Binocular Research Microscope           | 24Nos.  | 788217      |
| 169 |               |               | Supply of 60 mm Thick PUF               | 01No.   | 99546       |
| 170 |               |               | Water Bath Digital & Accessories        | 01No.   | 261830      |
| 171 |               |               | High Speed Centrifuge with head         | 01No.   | 145369      |
| 172 |               |               | Lab Equipment                           | 43Nos.  | 450352      |
| 173 |               |               | Lab Equipment                           | 18Nos.  | 614168      |
| 174 |               |               | Lab Equipment                           | 06Nos.  | 311773      |
| 175 |               |               | HP Desktop 280                          | 12Nos.  | 728400      |
| 176 |               |               | Double Beam Spectrophotometer           | 01No.   | 468000      |
| 177 |               |               | Water purification System               | 01No.   | 400000      |
| 178 |               |               | Air Cooled Conditioning Unit            | 01No.   | 99844       |
| 179 |               |               | Lab Equipment                           | 06Nos.  | 90669       |

|     |                     |                     |   |         |         |
|-----|---------------------|---------------------|---|---------|---------|
| 180 |                     |                     | Lab Equipment   | 15Nos.  | 251823  |
| 181 |                     |                     | Whirlpool Refrigerator                                  | 01No.   | 30900   |
| 182 |                     |                     | Lab Equipment   | 07Nos.  | 79005   |
| 183 |                     |                     | Lab Equipment   | 03Nos.  | 99993   |
| 184 |                     |                     | Supply of Steamatic Steam Boiler                        | 01No.   | 1059805 |
| 185 |                     |                     | Lab Equipment   | 02Nos.  | 90686   |
| 186 |                     |                     | Lab Equipment   | 43Nos.  | 431354  |
| 187 |                     |                     | Lab Equipment   | 13Nos.  | 614168  |
| 188 |                     |                     | Lab Equipment   | 15Nos.  | 251823  |
| 189 |                     |                     | Lab Equipment   | 06Nos.  | 311773  |
| 190 |                     |                     | Refrigerator System with P-22 Gas & hermetic Compressor | 01No.   | 99959   |
| 191 |                     |                     | Lab Equipment   | 03 Nos. | 72765   |
| 192 |                     |                     | SS Open Steel Rack                                      | 01No.   | 99615   |
| 193 |                     |                     | Lab Equipment   | 03 Nos. | 99958   |
| 195 | UG Computer Science | UG Computer Science | Optoma X341 Projector                                   | 02Nos.  | 76640   |
| 196 |                     |                     | Desktop HP 280 G2MT                                     | 09Nos.  | 403380  |
| 197 |                     |                     | HP Desktop 280  | 01No.   | 44985   |
| 198 |                     |                     | HP Desktop 280  | 05Nos.  | 224925  |
| 199 |                     |                     | HP Desktop 280  | 05Nos.  | 224925  |
| 200 |                     |                     | Onfinity wireless Interactive Board                     | 01No.   | 49376   |
| 201 |                     |                     | HP Desktop 280  | 01No.   | 44985   |
| 202 |                     |                     | HP Desktop 280  | 01No.   | 44985   |
| 203 | UG Economics        | UG Economics        | UPS Numeric 1 KVA                                       | 01No.   | 4577    |
| 204 | UG Electronics      | UG Electronics      | 7.5 KVA UPS   | 01No.   | 265000  |
| 205 | UG Physics          | UG Physics          | Gama Ray Spectrophotometer with Accessories             | 01No.   | 324792  |
| 206 |                     |                     | Aplab 20MHz Dual trace Oscilloscope                     | 02Nos.  | 57392   |
| 207 | PG Biochemistry     | PG Biochemistry     | 1.5 Tr Star Split Airconditioner                        | 01No.   | 87822   |
| 208 |                     |                     | Interactive White Board                                 | 01No.   | 66236   |
| 209 |                     |                     | Optoma X341 Projector                                   | 01No.   | 38320   |
| 210 | PG Biotechnology    | PG Biotechnology    | 2.0 Tr Star Split Airconditioner                        | 01No.   | 47690   |
| 211 |                     |                     | HP1005 Printer  | 01No.   | 13927   |
| 212 |                     |                     | APC UPS 1 KVA   | 01No.   | 5570    |

|     |   |                                   |   |            |   |
|-----|---|-----------------------------------|---|------------|---|
| 213 |   |                                   | Water Bath Digital & Accessories                                      | 01No.      | 261830  |
| 214 | PG Chemistry  | PG Chemistry                      | Spectrophotometer   | 01No.      | 16519   |
| 215 |   |                                   | Dell Laptop Inspiron -5559  | 01No.      | 65000   |
| 216 |   |                                   | Videocon Refrigerator   | 01No.      | 7350  |
| 217 |   |                                   | Laserjet Printer HL 2321D   | 01No.      | 7330  |
| 218 |   |                                   | PG Kannada  | PG Kannada | UPS Numeric 1 KVA                                   |
| 219 | PG Mathematics  | PG Mathematics                    | Optoma X341 Projector   | 01No.      | 38320   |
| 220 | PG MSW  | PG MSW                            | Optoma X341 Projector   | 01No.      | 38320   |
| 221 |   |                                   | UPS Numeric 1 KVA   | 06Nos.     | 27462   |
| 222 | PG Physics  | PG Physics                        | Fermi Energy of Copper Experiment                                     | 01No.      | 87042   |
| 223 |   | Fermi Energy of Copper Experiment | 01No.   | 96514      |   |
| 224 |   | Scientific Balance, KSB-07        | 06Nos.  | 62255      |   |
| 225 | Optics  | 303                               | Diode laser kit CR90 -  | 2          | 70,000  |
| 226 |   |                                   | Michelson interferometer with laser source -                          | 2          | 1,80,000  |
| 227 |   |                                   | Jamen Interferometer set with source(sodium & mercure) -              | 1          | 1,07,825  |
| 228 | Solid State Physics   | 301                               | Susceptability by Quinck's method- Quinck's tube -                    | 1          | 70,000  |
| 229 |   |                                   | Magnetic hysteresis loop tracer HLT111 -                              | 2          | 90,000  |
| 230 |   |                                   | Magneto resistance experiment set -                                   | 2          | 1,40,000  |
| 231 |   |                                   | Susceptability of solids Guoy Method, expt set- scientific balance    | 2          | 1,40,000  |
| 232 |   |                                   | Dielectric constant set DEC01 - ferro electric ceramics -             | 2          | 1,06,000  |
| 233 |   |                                   | Hall effect expt set-HEX 21 -   | 2          | 1,50,000  |
| 234 |   |                                   | Condensed Matter Physics  | 305        | Resistivity of semiconductor by four method DFP03 - |
| 235 | Study of the energy band gap and diffusion potential of PN junction - | 3                                 |   |            | 90,000,   |
| 236 | Resistivity of semiconductor by four method DFP03 -                   | 3                                 |   |            | 1,05,000  |
| 237 | Nuclear Physics   | 301                               | USB based MINIM Gamma Ray Spectrometer System with MCASoftware GR611M | 1          | 6,00,000  |
| 238 |   |                                   | USB based MINIM Gamma Ray Spectrometer System GR611M                  | 1          | 4,50,000  |
| 239 |   |                                   | Gamma Ray Spectrometer System - Integral model - GR612                | 4          | 7,00,000  |
| 240 |   |                                   | GM System set - Research model -                                      | 8          | 4,80,000  |
| 241 |   |                                   | Kit for Experimental Physics -  | 2          | 1,80,000  |

|                                |                 |     |  |         |                    |
|--------------------------------|-----------------|-----|--|---------|--------------------|
| 242                            |                 |     | Gamma and Beeta reference standard set - | 02 each | 1,10,000           |
| 243                            | General Physics | 303 | Constant deviation spectrograph set      | 2       | 1,56,000           |
| 244                            |                 |     | Oscilloscope -                           | 14      | 3,50,000           |
| 245                            |                 |     | Signal generator -                       | 15      | 1,50,000           |
| <b>Total equipment cost, ₹</b> |                 |     |  |         | <b>4,87,98,524</b> |



Principal

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