**GOVERNMENT ARTS COLLEGE FOR MEN (AUTONOMOUS), CHENNAI-35**

**List of available equipment in Laboratories**

**Department of Botany**

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| **S.No.** | **Name of Equipment** | **Location** |
|  | Compound Microscope | Room 161 Allied Lab |
|  | Compound Microscope | Room 162 Major Lab |
|  | Compound Microscope | Room 166 II MSc. Classroom cum lab |
|  | Compound Microscope | Room 166 A I MSc. Classroom cum lab |
|  | Dissection Microscope | Room 161 Allied Lab |
|  | Dissection Microscope | Room 162 Major Lab |
|  | Dissection Microscope | Room 166 II MSc. Classroom cum lab |
|  | Dissection Microscope | Room 166 A I MSc. Classroom cum lab |
|  | U-V Visible Spectrophotometer | Room 161 Annexe –Instrumentation room |
|  | BOD incubator | Room 161 Annexe –Instrumentation room |
|  | Rotary Vacuum evaporator | Room 161 Annexe –Instrumentation room |
|  | Rotamantle | Room 161 Annexe –Instrumentation room |
|  | Metal water distillation unit | Room 161 Annexe –Instrumentation room |
|  | Double distillation unit | Room 161 Annexe –Instrumentation room |
|  | Water bath | Room 161 Allied Lab |
|  | Horizontal Autoclave | Room 161 Allied Lab |
|  | Vertical Autoclave | Room 162 Major Lab |
|  | Colorimeter | Room 162 Major Lab |
|  | Spectrophotometer | Room 163 Annexe Tissue culture Lab |
|  | Electronic balance | Room 163 Annexe Tissue culture Lab |
|  | Laminar air flow chamber | Room 161 Annexe –Instrumentation room |
|  |  | Room 163 Annexe Tissue culture Lab |
|  | Shaker | Room 163 Annexe Tissue culture Lab |
|  | Centrifuge | Room 163 Annexe Tissue culture Lab |
|  | Trinocular research Microscope | Room 163 Annexe Tissue culture Lab |
|  |  | Room 161 Annexe –Instrumentation room |
|  | Refrigerator | Room 163 Annexe Tissue culture Lab |
|  | Hot air oven | Room 162 Major Lab |
|  | Microtome | Room 161 Annexe –Instrumentation room |
|  | Hot plate | Room 161 Annexe –Instrumentation room |
|  | Vacuum pump | Room 161 Annexe –Instrumentation room |
|  | Projection Microscope | Room 163 Annexe |
|  | OHP | Room 163 Annexe |
|  | LCD Projector | Room 163 Annexe |
|  | Inoculation Hood | Room 163 Annexe Tissue culture Lab |
|  | Micropippette | Room 163 Annexe Tissue culture Lab |
|  | Digital Camera | Room 163 Annexe |
|  | Physical Balance | Room 163 Annexe Tissue culture Lab |
| **Dr.P.JAYARAMAN, Assistant Professor - UGC MRP laboratory** | | |
| 31 | ELISA Reader | UGC – MRP- Research lab |
| 32 | Shaking machine | UGC – MRP- Research lab |
| 33 | UV Chamber | UGC – MRP- Research lab |
| 34 | Weighing machine | UGC – MRP- Research lab |
| 35 | TLC Apparatus | UGC – MRP- Research lab |
| 36 | Refrigerator | UGC – MRP- Research lab |
| 37 | Conductivity meter | UGC – MRP- Research lab |
| 38 | Micropippete | UGC – MRP- Research lab |
|  |  |  |
| **Dr. PERINBAM. K., Assistant Professor, UGC funded Research lab** | | |
| 39 | UV-Visible Spectrophotometer | UGC funded Research lab |
| 40 | Laminar Air Flow | UGC funded Research lab |
| 41 | Refrigerator | UGC funded Research lab |
| 42 | Incubator | UGC funded Research lab |
| 43 | Hot Air Oven | UGC funded Research lab |
| 44 | Autoclave | UGC funded Research lab |
| 45 | Water Bath | UGC funded Research lab |
| 46 | pHMeter | UGC funded Research lab |
| 47 | Centrifuge | UGC funded Research lab |
| 48 | Cyclo Mixer | UGC funded Research lab |
| 49 | Weighing balance | UGC funded Research lab |
| 50 | Magnetic Stirrer | UGC funded Research lab |

**Department of Chemistry**

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| **S.No** | **Name of the Instruments/Equipments** | **Location** |
| **Major Equipments** | | |
| 1 | UV-Visible Single Beam Secctrophotometer | Research lab |
| **Minor Equipments** | | |
| 1 | Calomel Electrodes for Potentiometer | PG lab |
| 2 | Conductivity Meter | PG lab |
| 3 | Digital Conductivity Meter Range 0-1000m/mho/cm | PG lab |
| 4 | Digital Conductivity Meter Range 0-200 mS/cm | PG lab |
| 5 | Digital Potentiometer – Dual Channel 1999 m – without Electrodes | PG lab |
| 6 | Electric Bunsen Burner | Lab 1, 2 |
| 7 | Electric Centrifuge Apparatus | Lab 1, PG lab |
| 8 | Electronic Balance – 3 Digit | Lab 1, 2 & PG lab |
| 9 | Electronic Balance – 4 Digit Sartorious Balance) | PG lab |
| 10 | Glass Electrodes | PG lab |
| 11 | Heating Mantle | PG lab |
| 12 | Hot Air Oven | Lab 1, 2, PG lab |
| 13 | Hot Plate | PG lab |
| 14 | Hot Plate with Magnetic Stirrer | PG lab |
| 15 | Ice Making Machine | Lab 2 |
| 16 | Melting Point Apparatus with Energy Regulator | PG lab |
| 17 | Orbital Shaker – 20 rpm – 12 Bottle Capacity | PG lab |
| 18 | pH meter - Digital | PG lab |
| 19 | Photo Electric Colorimeter – Digital with 8 filters | PG lab |
| 20 | Platinum Electrodes for Potentiometer | PG lab |
| 21 | Polarimeter | - |
| 22 | Potentiometer | PG lab |
| 23 | Thermostat | Lab 1 |
| 24 | Thermostatic Bath – Digital -20 L | PG lab |
| 25 | Vacuum Pump | Lab 1, 2, PG lab |
| 26 | Electrical Water Bath | PG lab |
|  |  |  |
| **Dr. M. MARAPPAN – UGC Research lab** | | |
| 27 | Hot air oven | UGC Research lab |
| 28 | glass distilled water plant | UGC Research lab |
| 29 | wear and tear equipment | UGC Research lab |
| 30 | digital balance | UGC Research lab |
| 31 | ph meter | UGC Research lab |
| 32 | water bath | UGC Research lab |
| 33 | hot plate | UGC Research lab |
| 34 | timmerstart | UGC Research lab |
| 35 | cooler | UGC Research lab |
|  |  |  |
| **Dr. P. KAMATCHI SELVARAJ- UGC MRP Research Lab** | | |
| 36 | Cyclic Voltammetry | UGC MRP Research Lab |
| 37 | Hot Air Oven | UGC MRP Research Lab |
| 38 | Uv Chamber (purchased from personal funds) | UGC MRP Research Lab |
| 39 | Water Bath | UGC MRP Research Lab |
| 40 | Heating Mantle | UGC MRP Research Lab |
| 41 | Ice making machine | UGC MRP Research Lab |
| **Dr. K. KANMANIRAJA – UGC MRP Research Lab** | | |
| 42 | Soxhlet Apparatus – 2 in 1 | Annexure to PG Lab |
| 43 | Column chromatography set with ground joint-length | Annexure to PG Lab |
| 44 | Heating Mantle-100 ml | Annexure to PG Lab |
| 45 | Condenser Unit-100 ml | Annexure to PG Lab |
| 46 | Silica aluminium TLC plate pre coated | Annexure to PG Lab |
| 47 | UV- Chamber | Annexure to PG Lab |
| 48 | Weighing Balance | Annexure to PG Lab |
| 49 | Magnetic Stirrer with temperature control | Annexure to PG Lab |
| 50 | Water circulation motor | Annexure to PG Lab |
| 51 | Rotary Evaporator | Annexure to PG Lab |
| 52 | Vacuum desiccator | Annexure to PG Lab |
| 53 | Heating Mantle-250 ml | Annexure to PG Lab |
| 54 | Heating Mantle-500 ml | Annexure to PG Lab |
| 55 | Magnetic pellet – small | Annexure to PG Lab |
| 56 | Magnetic pellet retriever | Annexure to PG Lab |
| 57 | Condenser Unit-250 ml | Annexure to PG Lab |
| 58 | Condenser Unit-500 ml | Annexure to PG Lab |
| 59 | Hot plate | Annexure to PG Lab |
| 60 | Melting point apparatus | Annexure to PG Lab |
| 61 | Column chromatography set with ground joint-small | Annexure to PG Lab |

**Department of Computer Science**

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| **Sl. No.** | **Name of the Instruments/Equipments** | **Location** |
| 1 | SERVER (Intel Xeon Quad Core, 2.0 Ghz, 2GB RAM, 3X72 GB HDD) | Annex I : Lab – 1 : UG Lab |
| 2 | COMPUTERS (Intel Core 2 Duo 800 Mhz, 4 GB RAM, 2X500 GB HDD) | Annex I : Lab – 1 : UG Lab |
| 3 | INKJET PRINTER HP F-380 | Annex I : Lab – 1 : UG Lab |
| 4 | LASER PRINTER | Annex I : Lab – 1 : UG Lab |
| 5 | SPEAKER | Annex I : Lab – 1 : UG Lab |
| 6 | LCD PROJECTOR | Annex I : Lab – 1 : UG Lab |
| 7 | HUB | Annex I : Lab – 1 : UG Lab |
| 8 | UPS | Annex I : Lab – 1 : UG Lab |
| 9 | AIR CONDITIONER | Annex I : Lab – 1 : UG Lab |
| 10 | INTERNET - Broad band | Annex I : Lab – 1 : UG Lab |
| 11 | SERVER (Intel Xeon Quad Core, 2.0 Ghz, 2GB RAM, 3X72 GB HDD) | Lab – 2 : CLP/UG/Research Lab |
| 12 | **COMPUTERS** Intel ( R ) Core ( TM) i3-4170 3.70Ghz, 2 GB RAM, 500 GB HDD, KEYBOARD , MOUSE, LED Monitor | Lab – 2 : CLP/UG/Research Lab |
| 13 | **COMPUTERS** Intel ( R ) Core ( TM) i3-710 3.90Ghz, 4 GB RAM, 500 GB HDD, KEYBOARD , MOUSE, LCD Monitor | Lab – 2 : CLP/UG/Research Lab |
| 14 | **COMPUTERS**  Intel 7100 7 Gen Core i3 – 2C, 4 GB RAM, 500 GB HDD, KEYBOARD , MOUSE, LCD Monitor | Lab – 2 : CLP/UG/Research Lab |
| 15 | DOT MATRIX PRINTER | Lab – 2 : CLP/UG/Research Lab |
| 16 | SPEAKER | Lab – 2 : CLP/UG/Research Lab |
| 17 | LCD PROJECTOR | Lab – 2 : CLP/UG/Research Lab |
| 18 | HUB | Lab – 2 : CLP/UG/Research Lab |
| 19 | UPS | Lab – 2 : CLP/UG/Research Lab |
| 20 | COPIER MACHINE | Lab – 2 : CLP/UG/Research Lab |
| 21 | COMPUTERS Intel ( R ) Core ( TM) i5-7500 3.40Ghz, 4 GB RAM, 1 TB HDD, KEYBOARD , MOUSE, LED Monitor | Lab – 3: PG Lab |
| 22 | LCD PROJECTOR | Lab – 3: PG Lab |

**Department of Physics**

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| **S. No.** | Name of the Instruments/Equipments | Location |
| 1 | 4 dial Decade condenser boxes (0.01-100 mF) | UG/PG Lab |
| 2 | 4-dial resistance box 1, 10, 100, 1000 ohms | UG/PG/Allied Lab |
| 3 | AC Voltmeter(0-5V),(0-10V), | UG/PG Lab |
| 4 | Audio frequency Oscillator (Analog) | UG/PG Lab |
| 5 | Biprism | UG/PG Lab |
| 6 | Bread board | UG/PG/Allied Lab |
| 7 | Burette (close and open controlled) for surface tension | UG/Allied Lab |
| 8 | Capillary tubes 0.03 cm, 0.05 cm | UG/Allied Lab |
| 9 | Charge and discharge key | UG/PG Lab |
| 10 | Compound pendulum set up | UG/Allied Lab |
| 11 | Condensing Lens | UG/PG/Allied Lab |
| 12 | Co-ordinate microscope | PG Lab |
| 13 | CRO – Dual trace (Analog) | UG/PG Lab |
| 14 | CRO – Dual trace (Digital) | UG/PG Lab |
| 15 | Daniel cell-electrical 1.05 V DC | UG/Allied Lab |
| 16 | Daniel cell-set | UG/Allied Lab |
| 17 | Ammeter (0-3 amps) | UG/PG/Allied Lab |
| 18 | DC Low range voltmeter (0-2), (0-5), (0-10) | UG/Allied Lab |
| 19 | DC Milli ammeter (0-10),(0-50),(0-100) | UG/Allied Lab |
| 20 | Digital multimeter with frequency measurement | UG/PG Lab |
| 21 | Digital trainer kit 5 V | UG/PG/Allied Lab |
| 22 | Digital Balance | UG/PG/Allied Lab |
| 23 | e/m – magnetron | PG Lab |
| 24 | e/m – Thomson experiment | PG Lab |
| 25 | Edser butler fringe setup | PG Lab |
| 26 | Eliminator (Battery) (0-12 volts) | UG/PG/Allied Lab |
| 27 | FB – etalon set up | PG Lab |
| 28 | Fibre Optic Cable – Numerical aperture and loss measurement | UG/PG Lab |
| 29 | Four probe method – Electricity resistivity of semiconductors | PG Lab |
| 30 | Galvanometer30-0-30 | UG/PG/Allied Lab |
| 31 | Grating | UG/PG/Allied Lab |
| 32 | Guoy’s balance | PG Lab |
| 33 | Hall effect apparatus | PG Lab |
| 34 | Hand Lamp | UG/PG/Allied Lab |
| 35 | Head phone - big size | UG/PG Lab |
| 36 | Hot oven | Research Lab |
| 37 | Hydrogen Spectrum – setup | PG Lab |
| 38 | Hysteresis – B-H curve apparatus | UG/PG Lab |
| 39 | IC regulated power supply 2 - 12 volts | UG/PG/Allied Lab |
| 40 | IC’s -7400,02,04,08,32,96,73,86  7812, 7912,7805 | UG/PG/Allied Lab |
| 41 | Key-board interfacing | UG/PG Lab |
| 42 | LASER –Diode for diffraction experiments | UG/PG Lab |
| 43 | Leclanche cell - digital1.4 volts | UG/Allied Lab |
| 44 | Logic Gates Kit | UG/PG/Allied Lab |
| 45 | Magnetic stirrer | Research Lab |
| 46 | Magnifier with light | UG/PG/Allied Lab |
| 47 | Mayer’s disc – viscosity of liquids | PG Lab |
| 48 | Mercury lamp with transformer55 watts | UG/PG/Allied Lab |
| 49 | Meter scale – wood1 m | UG/PG/Allied Lab |
| 50 | Microcontroller 8051 kit | PG Lab |
| 51 | Microprocessor 8085 kit | UG/PG Lab |
| 52 | Narrow angled prism > 20 angle | UG/PG Lab |
| 53 | Newton rings experiment - set up100 cm | UG/PG/Allied Lab |
| 54 | Op-amp Kit with bread board, digital inputs and outputs | UG/PG Lab |
| 55 | Optic bench for biprism (1.5m) | PG Lab |
| 56 | P-O box (Post office box) | UG/PG/Allied Lab |
| 57 | Polarimeter set up | UG/PG Lab |
| 58 | Potentiometer20 ohms | UG/Allied Lab |
| 59 | Programmable counter 8255 | UG/PG Lab |
| 60 | Reading lens | UG/PG/Allied Lab |
| 61 | Regulated power supply2, 4 V | UG/PG/Allied Lab |
| 62 | Screw Gauge SS | UG/PG/Allied Lab |
| 63 | Single optic lever (3 legs) | UG/Allied Lab |
| 64 | Six terminal key (Two way) | UG/Allied Lab |
| 65 | Sodium Vapour Lamp – Complete set 45, 55 watts | UG/PG/Allied Lab |
| 66 | Sonometer AC frequency coil with transformer | UG/Allied Lab |
| 67 | Sonometer set up | UG/Allied Lab |
| 68 | Spectrometer | UG/PG/Allied Lab |
| 69 | Static Torsion | UG/Allied Lab |
| 70 | Stefan’s constant apparatus | PG Lab |
| 71 | Stepper Motor interfacing equipment | UG/PG Lab |
| 72 | Stop Clock - Analog | UG/PG/Allied Lab |
| 73 | Stop watch – Digital | UG/PG/Allied Lab |
| 74 | Super Sensitivity –Galvanometer | UG/PG/Allied Lab |
| 75 | Table Galvanometer | UG/PG/Allied Lab |
| 76 | Telescope | UG/PG/Allied Lab |
| 77 | Torsion Pendulum Disc with chuck | UG/Allied Lab |
| 78 | Traffic Signal Control Simulator | UG/PG Lab |
| 79 | Transformer6-0-6 V | UG/PG/Allied Lab |
| 80 | Transformer 5V power supply | UG/PG/Allied Lab |
| 81 | Transformer for dual power supply (12-0-12V) | UG/PG/Allied Lab |
| 82 | Tuning fork 256 -530 Hz | UG/Allied Lab |
| 83 | UJT, FET, SCR | UG/PG Lab |
| 84 | Ultrasonic interferometer | PG Lab |
| 85 | Variable inductance box in steps of 10mH (10 – 100mH) | UG/PG Lab |
| 86 | Vernier Callipers SS | UG/PG/Allied Lab |
| 87 | Vernier Microscope | UG/PG/Allied Lab |
| 88 | Weight hanger – set | UG/PG/Allied Lab |

**Department of Zoology**

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| **S.No** | **Name Of The Equipment** | **Location** |
|  | Flame Photometer | Instumentation room |
|  | Digital Ph meter | Lab-1 |
|  | Hot plate | Lab-1 |
|  | Water Distillation unit | Lab-1 |
|  | Auto clave | Lab-1 |
|  | Deep freezer | Lab-1 |
|  | Toploading Balance | Lab-1 |
|  | Thermostatic water bath | Lab-1 |
| **AQUACULTURE LAB** | | |
|  | Incubator | Aquaculture Lab |
|  | Colorimeter | Aquaculture Lab |
|  | Centrifuge | Aquaculture Lab |
|  | pH meter | Aquaculture Lab |
|  | Mixer grinder | Aquaculture Lab |
|  | Pressure cooker | Aquaculture Lab |
|  | Pelletizer | Aquaculture Lab |
|  | Aquarium (4×1.5×1.5) | Aquaculture Lab |
|  | Aquarium (2×1×1) | Aquaculture Lab |
|  | Cast net | Aquaculture Lab |
|  | Trawl net | Aquaculture Lab |
|  | Trammel net | Aquaculture Lab |
|  | Gill net | Aquaculture Lab |
| **Dr K. ELUMALAI, ZOOLOGY RESEARCH LAB (UGC and DST sponsored lab)** | | |
|  | Rotary vacuum evaporator PBU 6 Vertical type | Research lab |
|  | Rotary vacuum evaporator PBU 6 Horizontal type | Research lab |
|  | Leaf Area Meter | Research lab |

**Department of English**

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| **S.No** | **Name of The Equipment/ Instrument** | **Location** |
|  | Computers | English language lab |
|  | Printer | English language lab |
|  | CDs and DVDs on communicative Skills, personality development and soft skills | English language lab |
|  | CDs & DVDs Movie adaptations of prescribed Novels | English language lab |
|  | A 52-inch LED TV with a DVD player | English language lab |
|  | An effective audio system with speakers | English language lab |
|  | Projector | English language lab |
|  | Wall screen for projector | English language lab |