

JAMAL MOHAMED COLLEGE (Autonomous)
College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star College Scheme & DST – FIST Funded
(Affiliated to Bharathidasan University)
Tiruchirappalli – 620 020, Tamil Nadu.

**List of Instruments/Equipment's purchased under
 DBT STAR COLLEGE SCHEME**

i) Department of Botany

| | Instrument /Equipment Details | Units |
|----|---|--------------|
| 1 | Student Laboratory Educational Microscope | 33 |
| 2 | Digital pH meter | 3 |
| 3 | Stereo zoom Binocular Microscope | 2 |
| 4 | Autoclave | 2 |
| 5 | Micropipette – 0.2 µl to 5 µl | 3 |
| 6 | Micropipette –10 µl to 100 µl | 3 |
| 7 | Micropipette –200 µl to 1000 µl | 3 |
| 8 | Rectangular-Thermostatic Water Bath | 2 |
| 9 | Electronic Digital balance | 1 |
| 10 | UV Trans illuminator | 2 |
| 11 | Horizontal Agarose Gel Electrophoresis | 6 |
| 12 | Power Supply for Electrophoresis | 6 |
| 13 | Vertical SDS page Gel Electrophoresis | 6 |
| 14 | Power Supply for Electrophoresis | 6 |
| 15 | Laminar Air Flow Chamber (Vertical) | 1 |
| 16 | Double Distillation Unit | 2 |
| 17 | GEL Documentation System | 1 |
| 18 | Digital Colony Counter | 4 |
| 19 | Deep Freezer | 1 |
| 20 | Dry Hot Air Oven – 50 Ltr Shelves 21100 W | 1 |
| 21 | Micro Centrifuge | 2 |
| 22 | Micro Centrifuges – 8x5 ml Angle head | 1 |

ii) Department of Chemistry

| | Instrument /Equipment Details | Units |
|----|--|-------|
| 1 | UV Visible spectrophotometer(Basic Model)(200-1000nm) Model-18 | 1 |
| 2 | UV Chamber – Contemp.230 V 50 H KEMI Make Model:KUC-1 | 4 |
| 3 | Muffle furnace-LABTECH MAKE Max. Temp. 1000* C Model: LTMF – 1 | 2 |
| 4 | Digital Balance 0.1mg Accuracy MAB 201 | 2 |
| 5 | Bio based big LED display soil nutrient tester Deep vision(Soil analysis kit) | 2 |
| 6 | Ostwald Visco meter college pattern Borosilicate Glass | 15 |
| 7 | Digital pH meter Systronics make Make- VI model | 10 |
| 8 | Magnetic stirrer Remi 2Ltr stirrers with Hotplate 2MLH | 2 |
| 9 | Magnetic stirrer Remi 2Ltr stirrers with Hotplate 2MLH | 3 |
| 10 | TLC coated Plates- Silica Gel 60F 254 25(MERCK) | 4 |
| 11 | Digital Colorimeter Systronics Make Type -112 | 7 |
| 12 | Tarson Micropipette(Accupipette) | 4 |
| 13 | Laboratory soil liquid limit test equipment (Brass, 220volts) Pychanometer for soil with glass jar and brass cone shaped lid with hole. | 5 |
| 14 | Digital Flame photometer ELICO Make CL-378 | 2 |
| 15 | Thin Layer Chromatography Kit college Grade, Complete Set- SCH888 | 5 |
| 16 | Gouy balance (digital) – Batra Trading Company | 1 |
| 17 | Paper Chromatography Chamber (Sisco) Portable Bakelite Moulded | 2 |
| 18 | Paper Chromatography Chamber (Sisco) Portable Bakelite Molded | 8 |
| 19 | Chemdraw Professional Single User Academy | 1 |

iii) Department of Mathematics

| | Instrument /Equipment Details | Units |
|----|---|-------|
| 1. | Lenovo Desktop | |
| | Lenovo Tower Desktop V530 | 3 |
| | Lenovo E2054 19.5 Monitor | 3 |
| | Lenovo Tower Desktop V50T13 | 4 |
| | Lenovo E2054 19.5 Monitor | 4 |
| 2. | Desktop Accessories | |
| | HP Head Set with Microphone B4B09PA | 4 |
| | Fingers 1080 (HI-RES) Web Camera | 4 |
| | Numeric 600VA UPS | 3 |
| 3. | EPSON Projector for Video Conferencing | |
| | EPSON Projector for Video Conferencing | 1 |
| | Liberty Projection Screen (6' x 8') Manual | 1 |
| 4. | Rotation Camera | |
| | Logitech PTZ Pro2 Rotation Camera | 1 |
| 5. | Microphone Accessories | |

| | | |
|-----|--|---|
| | P A Microphone XR - 20L | 1 |
| 6. | Projector with Screen | |
| | EPSON EB-970 LCD Projector | 3 |
| | Liberty Projection Screen (6' x 8') Manual | 3 |
| 7. | Toshiba Printer with Scanner (E-Studio 2329A) | |
| | Toshiba Printer with Scanner S. No. CPKJ37493 | 1 |
| 8. | Lenovo Laptop | |
| | Lenovo Laptop V14 82C4A00LIH | 2 |
| | Lenovo Backpack | 2 |
| 9. | Maple Software | 1 |
| 10. | Mathematica Software | 1 |

iv) Department of Physics

| | Instrument /Equipment Details | Units |
|----|---|-------|
| 1 | Specific Charge of an electron (e/m) Thomson's Apparatus | 3 |
| 2 | Fresnel Biprism Set up | 2 |
| 3 | Michelson Interferometer Set up | 2 |
| 4 | Quinck's Tube Set up Model:1870 | 1 |
| 5 | Hall Effect Set up | 1 |
| 6 | Rydberg's Constant Experiment Complete Set up | 3 |
| 7 | Polarimeter (Student Type) with 45 Watts Sodium Vapour Lamp Set up | 2 |
| 8 | Dielectric Constant for solids and liquids Experiment Model: DSL-01 | 2 |
| 9 | Elliptical & Hyperbolic Experiment with 35 Watts Sodium Vapour Lamp Set up | 2 |
| 10 | Millikan's Oil Drop Experiment MOD-01 Complete Set up | 2 |
| 11 | Magneto-resistance of a semiconductor MRX-01 Set up | 1 |
| 12 | Particle determination using helium neon laser with stand-2mW | 1 |
| 13 | Geiger-Muller Counter System Type: GC601A | 1 |

iv) Department of Zoology

| | Instrument /Equipment Details | Units |
|----|---|-------|
| 1 | Rotary Evaporator | 1 |
| 2 | Digital water analyzer | 1 |
| 3 | Column Chromatography | 5 |
| 4 | Micropipette (Variable volume type) | 9 |
| 5 | i) Soxhlet Apparatus | 2 |
| | ii) Glass Unit | 4 |
| 6 | Hot Plate (SS) | 1 |
| 7 | Chromatography chamber (Paper) | 1 |
| | | 7 |
| 8 | UV Spectroscopy | 1 |
| 9 | Refrigerated centrifuge | 1 |
| 10 | Student binocular Microscope | 12 |
| 11 | Digital Balance | 1 |
| 12 | Distilled Water Unit | 2 |
| 13 | Horizontal Agarose Gel Electrophoresis units with power supply for DNA separation | 6 |
| 14 | i) Sedgewick Rafter Counting Chambers | 30 |
| | ii) Plankton net | 10 |
| | iii) Stage Micrometer | 2 |
| 15 | Dry Hot Air Oven - Remi RDHO-50 Capacity 50 Ltr Shelves 2 1100 W - Remi | 1 |
| 16 | Incubator | 2 |
| 17 | GPS 72H Navigation Device and USP | 5 |
| 18 | Digital Colony Counter | 2 |