



St Berchmans College

Founded 1922

AUTONOMOUS

College with Potential for Excellence | Reaccredited by NAAC with A Grade

Affiliated to Mahatma Gandhi University, Kottayam, Kerala

Details of Laboratory

| | |
|--------------------------------------|--------|
| BCA computer lab | 82.35 |
| PG Microbiology Lab | 90 |
| BIMS Computer Lab | 135.27 |
| PG Organic Chemistry Lab | 166.25 |
| PG Physical Chemistry Lab | 93.31 |
| PG Inorganic Chemistry Lab | 125.53 |
| MPhil Environment Science Lab | 71.75 |
| BSc Chemistry Lab | 194.52 |
| BVoc Industrial Chem Lab | 55.32 |
| Chemistry Computer Lab | 125.53 |
| Computational Chemistry Research Lab | 56.2 |
| BSc Physics Lab | 273.84 |
| PG Physics Lab | 171.86 |
| PG Physics Computer Lab | 65.83 |
| BVoc REM Lab | 124.37 |
| Biotechnology common Lab | 109.35 |
| Office Computer Lab | 96.37 |
| PG Zoology Lab-1 | 83.79 |
| PG Zoology Lab-2 | 87.79 |
| BSc Zoology Lab | 60.72 |
| Zoology Computer Lab | 25.91 |
| PG Biochemistry Lab | 88.07 |
| BSc Microbiology Lab | 58.31 |
| BSc Botany Lab | 86.48 |
| PG Botany Lab | 113.02 |
| SIF and Acc Lab of Zoology | 49.29 |
| Plant Biotech and microbiology lab | 146.7 |
| Tissue Culture Lab | 12.3 |
| Algal Culture Lab | 8.02 |
| Inoculation Lab | 10.72 |
| General Work of Biotech Lab | 96.82 |
| Zoology Research Lab | 86.63 |
| Botany Research Lab | 85.63 |

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|-----------------------------------|---------|
| Chemistry Research Lab | 83.81 |
| Industrial Chemistry Research Lab | 79.19 |
| MPhil Env't Lab | 83.9 |
| Maths Research Lab | 83.9 |
| Common instrumentation centre | 84.18 |
| SMART Lab | 86.65 |
| | 3639.48 |

| Department- Biotechnology | | | | | | | |
|---------------------------|------------------------|-----|-----------------|------------------|-------------|-------------------------------------|--|
| G22FA 3:H24 | Name of the instrument | Nos | Made/Company | Year of purchase | Cost | Use | Location/Lab* eg, PG, UG, Research Lab |
| 1 | Autoclave | 1 | Labline | 2017 | Rs 45885 | Microbiology work | UG Lab |
| 2 | Digital Colony Counter | 1 | Labline | 2017 | Rs 6041.35 | Microbiology work | UG Lab |
| 3 | Haemocytometer | 1 | | 2017 | Rs 6396.42 | Microbiology work | UG Lab |
| 4 | Incubator Oven | 1 | Labline | 2017 | Rs 26184.57 | Microbiology work | PG Lab |
| 5 | Water Bath | 1 | Labline | 2017 | Rs 11361.35 | Biochemistry work | UG Lab |
| 6 | Shaking Incubator | 1 | Labline | 2017 | Rs 52867.50 | Biochemistry work | PG Lab |
| 7 | Rotary Shaker | 1 | Remi | 2017 | Rs 28927.50 | Microbiology work | UG Lab |
| 8 | UV Trans-illuminator | 1 | Labline | 2017 | Rs 20288.13 | Molecular Biology work | UG Lab |
| 9 | Deep Freezer | 1 | Labline | 2017 | Rs 66643 | Microbiology/molecular biology work | UG Lab |
| 10 | pH meter | 1 | Scientific Tech | 2017 | Rs 8022 | Molecular Biology work | UG Lab |

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|----|-----------------------------------|---|------------|------|-------------|--|--------------|
| 11 | General purpose centrifuge | 1 | REMI | 2017 | Rs 1456.78 | Molecular Biology work | UG Lab |
| 12 | Angle head for centrifuge | | REMI | 2017 | Rs 2860 | Molecular Biology work | UG Lab |
| 13 | Refrigerated Centrifuge | 1 | REMI | 2017 | Rs 168000 | Molecular Biology work | UG Lab |
| 14 | Cyclomixer | 1 | | 2017 | Rs 4590 | Biochemistry work | UG Lab |
| 15 | Voltage Stabilizer | 1 | Line On | 2017 | Rs 12370 | Molecular Biology work | UG Lab |
| 16 | Digital Balance | 1 | Infra Digi | 2017 | Rs 7980 | Biochemistry/ plant tissue culture/ molecular biology work | UG Lab |
| 17 | Electronic Balance | 1 | shimadzu | 2017 | Rs 70450 | Biochemistry/ plant tissue culture/ molecular biology work | UG Lab |
| 18 | Acer PC | | Acer | 2017 | Rs 25150 | General purpose | Staff room |
| 19 | PS Numeric IKVA | 1 | PS Numeric | 2017 | Rs 4600 | Molecular Biology work | UG Lab |
| 20 | Digital Colorimeter | 1 | systronics | 2017 | Rs 29262 | Microbiology work | UG Lab |
| 21 | Laminar Air flow | 1 | Labline | 2017 | Rs 63000 | Microbiology work | PG Lab |
| 22 | Hot Air Oven | | Labline | 2017 | Rs 27825.42 | Microbiology work | UG Lab |
| 23 | Samsung Refrigerator 394 L | | Samsung | 2018 | Rs 43900 | Biochemistry work | UG Lab |
| 24 | Samsung Refrigerator 394 L | | Samsung | 2018 | Rs 37000 | Microbiology work | PG Lab |
| 25 | Business Projector EPSON EB-S41 | | Epson | 2018 | Rs 29100 | General purpose | PG Classroom |
| 26 | PCR machine - thermocycler | | Agilent | 2019 | Rs.2,41,900 | Molecular Biology work | UG Lab |
| 27 | Monocular Microscope | | Labomed | 2019 | Rs.12,900 | Microbiology/biochemistry work | UG Lab |
| 28 | Research Microscope | | Magnus | 2019 | Rs.20,210 | Microbiology work | PG Lab |
| 30 | Horizontal distillation apparatus | | Religlass | 2017 | Rs. 31565 | General purpose | UG Lab |

| Department BOTANY | | | | | | | |
|-------------------|--------------------------------------|------|---------------------|-------------------|-----------|-------------------------|--|
| | Name of the instrument | No s | Made/Com pany | Year of purch ase | Cost | Use | Locati on/ Lab* eg, PG , UG, Resear ch Lab |
| 1 | HPLC | 1 | Perkin Elmer | 2013 | 11,00,000 | Component separation | Resea rch Lab |
| 2 | Water Purification System | 1 | Millipore | 2013 | 2,48,365 | Water purification | Resea rch Lab |
| 3 | Carbon Dioxide Incubator | 1 | Eppendo rf | 2013 | 3,71,750 | Animal Cell Culture | Resea rch Lab |
| 4 | Digital Moisture Analyzer | 1 | Sartoriu s | 2013 | 1,83,870 | Moisture Analysis | Resea rch Lab |
| 5 | Nitrogen Analyzer | 1 | Pelican Equipm ents | 2013 | 1,38,542 | Nitrogen Analysis | PG Lab |
| 6 | Electronic balance | 1 | Sartoriu s | 2013 | 85125 | Precise weighing | Resea rch Lab |
| 7 | Research Microscope | 1 | Olympu s | 2013 | 41100 | Microscopic observation | Resea rch Lab |
| 8 | Monocular Light Microscope | 20 | Olympu s | 2013 | 282620 | Microscopic observation | PG Lab |
| 9 | Digital Camera, Adapter and Software | 1 | Olympus | 2013 | 53000 | Photomicrogr aphy | Resea rch Lab |
| 10 | GPS | 1 | Garmin | 2013 | 19238 | Global Positioning | Resea rch Lab |
| 11 | Colorimeter | 3 | Systronic s | 2013 | 23250 | Colorimetry | PG Lab |
| 12 | Centrifuge and rotor | 1 | Remi | 2013 | 54990 | Component separation | PG Lab |
| 13 | Microscope image projection system | 1 | Olympus | 2013 | 31900 | Imaging | PG Lab |

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|----|--------------------------|---|---------------|------|--------|-----------------------|--------------|
| 14 | UV-Vis Spectrophotometer | 1 | Analytik Jena | 2012 | 350000 | Spectrophotometry | Research Lab |
| 15 | Deep Freezer | 1 | Remi | 2012 | 190000 | Cold storage | Research Lab |
| 16 | Fume Hood | 1 | Modern | 2019 | 150000 | Handling of Hazardous | Research Lab |
| 17 | Laminar Air Flow Chamber | 1 | Scientific | 2010 | 90000 | Tissue Culture | Research Lab |
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Department- Microbiology & Biochemistry

| | Name of the instrument | Nos | Made/Company | Year of purchase | Cost | Use | Location/ Lab* eg, PG , UG, Research Lab |
|----|---|-----|--------------|------------------|-------|-------------------------------|--|
| 1 | colony counter | 2 | Lab line | 2015 | | to count microbial colonies | PG lab |
| 2 | Laminar Air flow | 1 | Lab line | 2015 | 62370 | Inoculation chamber | PG lab |
| 3 | BOD Incubator with stabilizer | 1 | Lab line | 2015 | | Microbial Incubation | PG lab |
| 4 | Blood bank refrigerator | 1 | Lab line | 2015 | | to preserve microbial culture | PG lab |
| 5 | Automatic voltage stabilizer for blood bank | 1 | V guard | 2015 | | | PG lab |
| 6 | Water bath double walled | 1 | Lab line | 2015 | | incubation | PG lab |
| 7 | Double distillation unit | 1 | Lab line | 2015 | | distilled water | PG lab |
| 8 | Hot air oven | 1 | Lab line | 2016 | | sterilization | PG lab |
| 9 | Laminar air flow | 1 | Lab line | 2016 | | Inoculation chamber | PG lab |
| 10 | cyclomixer | 1 | Remi | 2016 | | for mixing | PG lab |
| 11 | Laboratory Monocular Research Microscope | 15 | Magnus | 2017 | 26323 | to observe micro organisms | PG lab |
| 12 | Hot plate rectangular | 1 | Kemi | 2017 | | heating purpose | PG lab |
| 13 | Autoclave vertical | 2 | Lab plus | 2015 | 55661 | sterilization | PG lab |

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|----|---------------------------|---|------------|------|--|-----------------------------------|--------|
| 14 | pH Meter | 1 | Systronics | | | to detect pH | PG lab |
| 15 | Centrifuge | 1 | Kemi | | | centrifugation | PG lab |
| 16 | Electronic Balance | 1 | Shimadzu | 2016 | | to weigh chemicals | PG lab |
| 17 | Refrigerator | 1 | Samsung | 2016 | | preservation | PG lab |
| 18 | UV transilluminator | | Orange | 2017 | | to read DNA bands | PG lab |
| 19 | Digital colorimeter | 1 | Systronics | 2017 | | to measure absorbance | PG lab |
| 20 | Orbital shaking Incubator | 1 | Kemi | 2017 | | Incubation | PG lab |
| 21 | Electronic Balance | 1 | Shimadzu | 2017 | | to weigh chemicals | PG lab |
| 22 | UV transilluminator | 1 | Biotech | 2015 | | to read DNA bands | PG lab |
| 23 | cooling Centrifuge | 1 | Kemi | 2016 | | Centrifugation at low temperature | PG lab |

Department-Physics

| | Name of the instrument | Nos | Made/Company | Year of purchase | Cost in Rs. | Use | Location/ Lab* eg, PG , UG, Research Lab | Funded by |
|----|---|-----|--------------------|------------------|-------------|-----|--|-------------------------|
| 1 | Cathode ray oscilloscope | 1 | APLAB | 2014 | 22575 | | Bsc Lab | PD a\c |
| 2 | Signal Cenerator | 1 | APLAB | 2014 | 10000 | | Bsc Lab | PD a\c |
| 3 | Distillation unit | 1 | Borosil | 2014 | 32500 | | Project | PD a\c |
| 4 | Automatic cut- off power supply | 1 | | 2014 | 10064 | | Project | PD a\c |
| 5 | Cathode ray oscilloscope with computer tester | 1 | | 2015 | 20000 | | Bsc Lab | PD a\c |
| 6 | Digital Storage Oscilloscope | 4 | | 2015 | 20000 | | Msc Lab | PD a\c |
| 7 | Desktop P C | 1 | FEBA systems | 2015 | 30750 | | Msc Lab | PD a\c |
| 8 | UPS Sine Wave. 3 KWA -48 V | 1 | Solar power centre | 2015 | 22000 | | Msc Lab | PD a\c |
| 9 | 30 Mhz Two Channel Oscilloscope | 5 | GW Instek | 2015 | 21280 | | | UGC xi plan |
| 10 | Desktop P C/ Acer Veriton | 1 | FEBA systems | 2015 | 24800 | | Msc Lab | DBT STAR COLLEGE SCHEME |

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| 11 | Canon Laser Printer | 1 | FEBA systems | 2015 | 14350 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 12 | Desktop P C/ Dell | 1 | FEBA systems | 2015 | 45600 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 13 | MATLAB Software | 1 | Core EL Technologies | 2015 | 66554 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 14 | HP Pavilion 260 Desktop | 3 | FEBA systems | 2016 | 87000 | | Computer Lab | UGC-B voc |
| 15 | G 5000 N /72 V Line interactive UPS & Bttery | 1 | Hykon India Ltd. | 2016 | 93500 | | Electronics lab | UGC-B voc |
| 16 | Arc Spectrum Apparatus | 1 | Holmarc | 2016 | 85875 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 17 | CCD Camera for Spectrometer | 1 | Holmarc | 2016 | 45800 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 18 | Software for Arc Spectrum | 1 | Holmarc | 2016 | 36297 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 19 | Faraday Effect Apparatus | 1 | Holmarc | 2016 | 80585 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 20 | Constant current Power Supply for Faraday Effect Apparatus | 1 | Holmarc | 2016 | 30915 | | Msc Lab | DBT STAR COLLEGE SCHEME |
| 21 | LCD Projector EPSON | 1 | Genuine Scientific Instruments | 2016 | 47700 | | Store | DBT STAR COLLEGE SCHEME |
| 22 | Optical Rail | 1 | Holmarc | 2016 | 15973 | | Optics Lab | DBT STAR COLLEGE SCHEME |
| 23 | Goniometer with Glass slide | 1 | Holmarc | 2016 | 19708 | | Optics Lab | DBT STAR COLLEGE SCHEME |
| 24 | Detector Mount | 1 | Holmarc | 2016 | 11722 | | Optics Lab | DBT STAR COLLEGE SCHEME |
| 25 | High Temprature Muffle Furnace with Digital tem. Controller | 1 | Rotek Instruments | 2017 | 40000 | | ARMS lab | UGC MRP xii Plan |
| 26 | 5 MLH plus Remi magnetic stirrer with hot plate | 2 | Kochin Inlab Equipments | 2017 | 24000 | | ARMS lab | UGC MRP xii Plan |

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| 27 | Newtons Ring Apparatus with 3 motion arrangement Microscope | 2 | Kairali Electronics | 2017 | 25200 | | Bsc Lab | PD a\c |
| 28 | 1 KW Solar Photovoltaic System | 1 | Slasho Incorporated | 2017 | 190890 | | RE lab | UGC-B voc |
| 29 | Desktop P C- HP | 3 | HP-Skyline Computers | 2017 | 90750 | | Computer Lab | UGC-B voc |
| 30 | Epson Projector- EB-X31 | 2 | Epson - Skyline Computers | 2017 | 70600 | | Class Room | UGC-B voc |
| 31 | Detector Mount Kinematic Laser Mount | 1 | Holmarc | 2017 | 14942 | | Optics Lab | UGC-B voc |
| 32 | Detector Output Measurement Unit | 1 | Holmarc | 2017 | 10305 | | Optics Lab | UGC-B voc |
| 33 | Plancks Constant Apparatus | 1 | SES (Elmactics) | 2017 | | | Bsc Lab | UGC-B voc |
| 34 | Polarizer with Precision Rotation | 1 | Holmarc | 2017 | 11271 | | Optics Lab | UGC-B voc |
| 35 | Dollar-Travelling Microscope Drum Type | 2 | Dollar (Kelvin labs) | 2018 | 10500 | | Bsc Lab | PD a\c |
| 36 | Michelson Interferometer | 2 | OSAW Industrial Products | 2019 | 21416 | | Msc Lab | CPE 2018-19 |
| 37 | Dielectric Constant Kit | 2 | OSAW Industrial Products | 2019 | 20822 | | Msc Lab | CPE 2018-19 |
| 38 | Balmer Series & Rydberg Constant Experiment | 3 | OSAW Industrial Products | 2019 | 35446 | | Msc Lab | CPE 2018-19 |
| 39 | Frank Hertz Exp Setup | 1 | OSAW Industrial Products | 2019 | 83543 | | Msc Lab | CPE 2018-19 |
| 40 | Dielectric Constant and Curier temprature of Ferroelectrics | 1 | OSAW Industrial Products | 2019 | 19167 | | Msc Lab | CPE 2018-19 |
| 41 | Pin Photo diode Characteristics Trainer Kit | 2 | OSAW Industrial Products | 2019 | 20625 | | Msc Lab | CPE 2018-19 |
| 42 | Cornus Interference Apparatus | 1 | Holmarc | 2019 | 59885 | | Msc Lab | CPE 2018-19 |
| 43 | Opticla fiber Characterisation Apparatus | 1 | Holmarc | 2019 | 91332 | | Msc Lab | CPE 2018-19 |
| 44 | Stefan's Law Black Body radiator model:BBR 301 | 1 | SES - Scientific Enterprises | 2015 | 8787 | | Msc Lab | UGC XI Plan |
| 45 | Model K USB 488BGPIB to USB adapter Keithly 6514 Electrometer | 1 | Keithly 6514 | 2019 | 44566 | | DST FIST lab | CPE 2018-19 |

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|----|---|---|--------------|--------------|----------------|--|--------------|-------------|
| 46 | Perkin Elmer Spectrometer -AMC | 1 | Perkin Elmer | 2019 | 115640 | | DST FIST lab | CPE 2018-19 |
| | NB: Instruments in the price range of ~Rs. 10000 and above are only included in this list. The list is as per the stock register | | | Total | 1905235 | | | |

Department : Chemistry

| | Name of the instrument | No s | Made/Compa ny | Year of purcha se | Cost | Use | Location | Funded by |
|----|---------------------------------|------|-----------------------------------|-------------------|-------|---------------|-------------------|-----------|
| 1 | Multimedia Projector | 3 | Epson | 2019 | 28660 | Presentat ion | Classrooms | CPE |
| 2 | Abbe Refractometer | 2 | Scientific enterprises Vyttila | 2019 | 47753 | Practicals | Physical Lab- PG | CPE |
| 3 | Electronic Balance | 2 | Shimadzu | 2019 | 49033 | Practicals | Physical Lab- PG | CPE |
| 4 | Oil free Vacuum pump | 1 | Scientific enterprises Vyttila | 2019 | 13545 | Practicals | Organic Lab- PG | CPE |
| 5 | Hot air oven | 1 | Labline instruments Thripunithara | 2019 | 50150 | Practicals | Inorganic lab- PG | CPE |
| 6 | Orbital Shaker Incubator | 1 | Labline instruments Thripunithara | 2019 | 64605 | Practicals | Physical Lab- PG | CPE |
| 7 | Muffle Furnace | 1 | Labline instruments Thripunithara | 2019 | 31565 | Practicals | Inorganic lab- PG | CPE |
| 8 | Magnetic stirrer with hot plate | 2 | Ika | 2019 | 13204 | Practicals | Research lab | CPE |
| 9 | Water bath RRW-24 Rotek | 1 | Calgon Scientific Edappally | 2019 | 12213 | Practicals | Organic Lab- PG | CPE |
| 10 | Laboratory Centrifuge-Remimake | 1 | Genuine Scientific instruments | 2019 | 30278 | Practicals | DC lab | CPE |
| 11 | pH meter Systronics | 1 | Genuine Scientific instruments | 2019 | 10817 | Practicals | Physical Lab- PG | CPE |
| 12 | Melting Point apparatus | 1 | Genuine Scientific instruments | 2019 | 23010 | Practicals | Organic Lab- PG | CPE |
| 13 | IR lamp | 2 | Medihouse Trivandrum | 2019 | 1605 | Practicals | Organic Lab- PG | CPE |

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|----|-------------------------------------|---|--------------------------------------|------|----------|------------|----------------------|---------|
| 14 | Digital Photoelectric colorimeter | 1 | Crescent lab equipments | 2019 | 20175.64 | Practicals | Inorganic lab- PG | CPE |
| 15 | Polarimeter PA-2 | 1 | Crescent lab equipments | 2019 | 33807 | Practicals | Physical Lab- PG | CPE |
| 16 | Digital Potentiometer-318 | 4 | Crescent lab equipments | 2019 | 46208.8 | Practicals | Physical Lab- PG | CPE |
| 17 | Digital conductimeter with cell-304 | 4 | Crescent lab equipments | 2019 | 51669.84 | Practicals | Physical Lab- PG | CPE |
| 18 | Gaussian 09W64 Software | 1 | S Cube scientific software Solutions | 2015 | 219932 | Research | Research Lab-2 | UGC MRP |
| 19 | Precision Work station CTO Base | 1 | Feba Systems, Changanacherry | 2015 | 167000 | Research | Research Lab-2 | UGC MRP |
| 20 | HP-CPU-120-0131N and Monitor-HP LED | 1 | Feba Systems, Changanacherry | 2015 | 31000 | Research | Research Lab-2 | UGC MRP |
| 21 | Printer Canon-6030B | 1 | Feba Systems, Changanacherry | 2015 | 6500 | Research | Research Lab-2 | UGC MRP |
| 22 | UPS-Numeric | 1 | Feba Systems, Changanacherry | 2015 | 3850 | Research | Research Lab-2 | UGC MRP |
| 23 | Power Strip | 1 | Feba Systems, Changanacherry | 2015 | 1250 | Research | Research Lab-2 | UGC MRP |
| 24 | Laptop Dell - N3542 | 1 | Techno Fort Aluva | 2014 | 69600 | Research | Computational Lab-PG | UGC MRP |
| 25 | Pen Tablet Model-S544 | 1 | Techno Fort Aluva | 2016 | 3330 | Research | Computational Lab-PG | UGC MRP |
| 26 | Head Phone Logitech | 1 | Techno Fort Aluva | 2016 | 2300 | Research | Computational Lab-PG | UGC MRP |
| 27 | Mouse Logitech | 1 | Techno Fort Aluva | 2016 | 351 | Research | Computational Lab-PG | UGC MRP |
| 28 | Cell for electrochemical analysis | 1 | Prompt engineering | 2017 | 16030 | Practicals | BVoc Lab | UGC MRP |

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|----|---|---|--------------------------------|------|-----------|------------|--------------|----------|
| 29 | Magnetic stirrer with hot plate | 1 | Genuine Scientific instruments | 2016 | 13170 | Practicals | BVoc Lab | UGC MRP |
| 30 | Table Top Spin coating unit | 1 | Specktron instruments Inc | 2016 | 99800 | Practicals | BVoc Lab | UGC MRP |
| 31 | Corrosion Cell Kit with reference electrode | 1 | Epgi instruments | 2018 | 73278 | Practicals | BVoc Lab | UGC MRP |
| 32 | Canon inkjet Printer | 1 | Feba Systems, Changanacherry | 2016 | 10800 | Practicals | BVoc Lab | UGC MRP |
| 33 | Round Bath-8490 CBPO | 1 | Biotech Inc | 2016 | 36750 | Practicals | BVoc Lab | UGC MRP |
| 34 | Computer controlled UTM | 1 | Hitech India equipments | 2017 | | Practicals | BVoc Lab | UGC BVoc |
| 35 | Fume Hood | 1 | Modern Lab Interior Chennai | 2017 | 200000 | Practicals | BVoc Lab | UGC BVoc |
| 36 | Vernier Caliper Digital | 1 | Laboratory equipments Stores | 2017 | | Practicals | BVoc Lab | UGC BVoc |
| 37 | Spectrophotometer | 1 | Genuine Scientific instruments | 2017 | | Practicals | Research Lab | UGC MRP |
| 38 | Viscometer | 1 | Genuine Scientific instruments | 2017 | | Practicals | Research Lab | UGC MRP |
| 39 | Water bath KWB-240 | 1 | Genuine Scientific instruments | 2018 | | Practicals | | |
| 40 | Printer HP Deskjet 2520 | 1 | Feba Systems, Changanacherry | 2016 | 8850 | Practicals | HOD Cabin | UGC MRP |
| 41 | Electrochemical Work Station & computer | 1 | Sinsil Int Pvt Ltd | 2016 | USD 19600 | Research | Research Lab | UGC BVoc |
| 42 | Magnetic stirrer with hot plate | 1 | Calgon Scientific Edappally | 2016 | 57869.7 | Research | | UGC BVoc |
| 43 | Digital overhead stirrer | 1 | Calgon Scientific Edappally | 2016 | 57000.3 | Research | | UGC BVoc |
| 44 | Flame Photometer, Turbidity meter, LCD Projector, Hot air oven, Refractometer | 1 | Genuine Scientific instruments | 2017 | 205035 | Research | | UGC BVoc |

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|----|--------------------------------------|---|--------------------------------|------|--------|-----------|--------------|----------|
| 45 | Mouse USB Dell | 1 | Feba Systems, Changanacherry | 2017 | 350 | | | PTA |
| 46 | HP-260-A0421L PC | 4 | Feba Systems, Changanacherry | 2017 | 69200 | | | PTA |
| 47 | HP-260-A0421L PC | 3 | Feba Systems, Changanacherry | 2017 | 51900 | | | PTA |
| 48 | HP-260-A0421L PC | 1 | Feba Systems, Changanacherry | 2017 | 17300 | | | PTA |
| 49 | Electronic Balance Sartorius | 1 | Hallmark Mechatronics | 2017 | 245030 | | | UGC BVoc |
| 50 | Water Quality Analyser | 1 | Science Land | 2015 | 94000 | Research | MPhil Lab | UGC MRP |
| 51 | DSLR Camera | 1 | Venus Photoworld | 2015 | 58000 | Research | MPhil Lab | UGC MRP |
| 52 | GPS etrex-30 | 1 | Tech store | 2015 | 21000 | Research | MPhil Lab | UGC MRP |
| 53 | Canon Colour Printer | 1 | Novion Computer Kottayam | 2015 | 6750 | Printing | Research Lab | UGC MRP |
| 54 | Heating mantle with magnetic stirrer | 1 | Biotech Kottayam | 2015 | 16270 | Research | Research Lab | UGC MRP |
| 55 | Rocker Vacuum pump | 1 | Biotech Kottayam | 2015 | 18383 | Research | Research Lab | UGC MRP |
| 56 | Whirlpool Fridge & Microwave oven | 1 | Bluemoon | 2015 | 23500 | Research | Research Lab | UGC MRP |
| 57 | Ultracleaner | 1 | Biotech Kottayam | 2015 | 19465 | Research | Research Lab | UGC MRP |
| 58 | Nitrogen Cylinder | 1 | Arackal Gas agencies | 2016 | 20670 | Research | Research Lab | UGC MRP |
| 59 | UV Cabinet | 1 | Raj Analytical Solutions | 2015 | 15015 | Research | Research Lab | UGC MRP |
| 60 | Kemi Hot air oven | 1 | Biotech Inc | 2015 | 26766 | Research | Research Lab | UGC MRP |
| 61 | Electronic Balance Shimadzu | 1 | Biotech Inc | 2015 | 31185 | Research | Research Lab | UGC MRP |
| 62 | Magnetic stirrer with hot plate | 1 | Biotech Inc | 2015 | 47250 | Research | Research Lab | UGC MRP |
| 63 | UPS-Line Interactive | 1 | Hycon India | 2016 | 13500 | Research | Research Lab | UGC BVoc |
| 64 | HP Desktop Computer | 1 | Media Village Changanacherry | 2016 | 28735 | Research | Research Lab | UGC BVoc |
| 65 | Muffle Furnace | 1 | Kelvin Labs Kayamkulam | 2016 | 47000 | Research | Research Lab | UGC BVoc |
| 66 | Conductivity meter | 4 | Genuine Scientific instruments | 2015 | 52839 | Practical | UG lab | UGC |

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|----|---|---|----------------------------------|------|--------|--------------|-----------------|------------------|
| 67 | Micro controller based UV-VIS spectrophotometer | 1 | Crescent lab equipments | 2015 | 49000 | Practical | MPhil Lab | DBT Star College |
| 68 | HP Work Station for Gaussian | 1 | Feba Systems, Changanacherry | 2015 | 96950 | Research | MPhil Lab | DBT Star College |
| 69 | GPS Garmin | 1 | Scientific enterprises Vyttila | 2015 | 19725 | Research | MPhil Lab | DBT Star College |
| 70 | Olympus Binocular Microscope | 1 | Crescent lab equipments | 2016 | 33000 | Research | MPhil Lab | DBT Star College |
| 71 | Eutech pH/Conductimeter | 1 | Crescent lab equipments | 2016 | 92000 | Research | MPhil Lab | DBT Star College |
| 72 | HP Printer | 1 | Feba Systems, Changanacherry | 2013 | 2000 | Research | MPhil Lab | UGC |
| 73 | Turbidity Meter | 1 | Medical & Visual Technologies | 2013 | 21500 | Practical | MPhil Lab | UGC |
| 74 | LCD Printer with dongle | 1 | Genuine Scientific instruments | 2016 | 47700 | Presentation | MPhil Lab | DBT |
| 75 | Abbe Refractometer | 1 | Genuine Scientific instruments | 2016 | 29700 | Practical | Physical Lab-PG | |
| 76 | Photoelectric Colorimeter | 1 | Genuine Scientific instruments | 2016 | 17860 | Practical | Physical Lab-PG | |
| 77 | Magnetic stirrer with hot plate | 1 | Calgon Scientific Edappally | 2010 | 23638 | Research | Research Lab | UGC MRP |
| 78 | Potentiometer | 1 | Crescent lab equipments | 2016 | 1300 | Research | MPhil Lab | DBT Star College |
| 79 | CMOS Camera | 1 | Crescent lab equipments | 2016 | 47099 | Research | MPhil Lab | DBT Star College |
| 80 | Centrifuge | 1 | Genuine Scientific instruments | 2016 | 16700 | Practical | Organic Lab- PG | UGC PG |
| 81 | Polarimeter | 1 | Genuine Scientific instruments | 2016 | 33800 | Practical | Physical Lab-PG | UGC PG |
| 82 | Digital Conductimeter | 1 | Scientific enterprises Vyttila | 2013 | 5830 | Practical | UG lab | UGC |
| 83 | Melting Point apparatus | 1 | Scientific enterprises Vyttila | 2013 | 7560 | Practical | UG lab | UGC |
| 84 | Microwave Oven | 1 | Bluemoon Changanacherry | 2014 | 5900 | Practical | PG Lab | Dept fund |
| 85 | ESPIN- NANO Electrospinning apparatus | 1 | ESPIN Chennai Physics Equipments | 2014 | 878750 | Research | Research Lab | KSCSTE, Kerala |

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| 86 | Teflon Lined Autoclave | 1 | Prompt engineering works | 2009 | 6758 | Research | MPhil Lab | UGC MRP |
| 87 | Vacuum Oven | 1 | Medical & Visual Technologies | 2009 | 26100 | Research | MPhil Lab | UGC MRP |
| 88 | Water Bath, Incubator, Shaker | 1 | Medical & Visual Technologies | 2009 | 24000 | Research | MPhil Lab | UGC MRP |
| 89 | Vacuum Pump | 1 | Medical & Visual Technologies | 2009 | 11500 | Research | MPhil Lab | UGC MRP |
| 90 | Mechanical Stirrer | 1 | Surgical & Lab agencies chanaganacherry | 2009 | 5739 | Research | MPhil Lab | UGC MRP |
| 91 | Potentometer | 4 | Genuine Scientific instruments | 2015 | 47320 | Practical | UG and Physical Chemistry Lab | UGC MRP |
| 92 | Stalignometer | 1 | Simson Scientific Pvt Ltd | 2012 | 204 | Practical | Physical Lab-PG | Management |
| 93 | Deep Freezer | 1 | Medical & Visual Technologies | 2012 | 83200 | Practical | Organic Lab- PG | Management |
| 94 | Heating mantle | 1 | Medical & Visual Technologies | 2012 | 2050 | Practical | Polymer lab-PG | Management |
| 95 | Muffle Furnace | 1 | Medical & Visual Technologies | 2010 | 29900 | Research | MPhil Lab | UGC MRP |
| 96 | Rotary Shaker | 1 | Medical & Visual Technologies | 2010 | 17480 | Research | MPhil Lab | UGC MRP |
| 97 | Magnetic stirrer | 1 | Medical & Visual Technologies | 2010 | 6750 | Research | MPhil Lab | UGC MRP |
| 98 | Floculator | 1 | Medical & Visual Technologies | 2010 | 24552 | Research | MPhil Lab | UGC MRP |
| 99 | Digital Potentiometer and Calorimeter | 1 | Medical & Visual Technologies | 2011 | 35700 | Practical | Physical Lab-PG | |
| 100 | Ball Mill | 1 | Mini metal industries | 2011 | 14982 | Practical | Polymer lab-PG | UGC MRP |
| 101 | Sonicator | 1 | Oscar Ultrasonics | 2010 | 70000 | Research | Research Lab | UGC MRP |
| 102 | Spin Coater | 1 | Apex Equipments Kolkata | 2012 | 133000 | Research | Research Lab | UGC MRP |
| 103 | Digital Multimeter | 1 | Scientific enterprises Vytilla | 2013 | 5280 | Practical | UG Lab | UG Grant |
| 104 | Electronic Balance | 3 | Hallmark Mechatronics | 2011 | 87000 | Practical | UG & PG Lab | CPE |

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|-----|-----------------------------------|---|---|------|--------|-----------|------------------|------|
| 105 | Hot air oven | 1 | Medical & Visual Technologies | 2013 | 30050 | Practical | Physical Lab-PG | UGC |
| 106 | Heating Mantle | 1 | Medical & Visual Technologies | 2012 | 2000 | Practical | PG Lab | UGC |
| 107 | Polaroscan with printer | 1 | Medical & Visual Technologies | 2012 | 121594 | Practical | MPhil Lab | UGC |
| 108 | Digital Conductivity meter | 3 | Medical & Visual Technologies | 2012 | 35700 | Practical | Physical Lab-PG | UGC |
| 109 | Digital Photoelectric colorimeter | 5 | Medical & Visual Technologies | 2012 | 37000 | Practical | Physical Lab-PG | UGC |
| 110 | IR lamp | 2 | Medical & Visual Technologies | 2012 | 1660 | Practical | PG lab | UGC |
| 111 | Melting Point apparatus | 1 | Crescent lab equipments | 2012 | 3562 | Practical | Organic Lab- PG | UGC |
| 112 | Hot air oven | 1 | Crescent lab equipments | 2012 | 21301 | Research | Research Lab | UGC |
| 113 | Abbe Refractometer | 1 | Crescent lab equipments | 2012 | 31500 | Practical | Physical Lab-PG | UGC |
| 114 | ARICO Polarimeter | 1 | Crescent lab equipments | 2012 | 43187 | Practical | Physical Lab-PG | UGC |
| 115 | ROTOVAP Vacuum Pump | 1 | Crescent lab equipments | 2012 | 55250 | Research | Research Lab | UGC |
| 116 | Vacuum Pump | 1 | Scientific enterprises Vyttila | 2012 | 18820 | Research | Research Lab | UGC |
| 117 | Deep Freezer | 1 | Kemi Industries Perumbavoor | | 40000 | Practical | Organic Lab- PG | UGC |
| 118 | BOD Incubator | 1 | Kemi Industries Perumbavoor | | 40000 | Practical | MPhil Lab | UGC |
| 119 | Muffle Furnace | 1 | Surgical & Lab agencies chanaganacherry | 2009 | 55505 | Practical | UG Lab | MHRD |
| 120 | Digital Colorimeter | 1 | Surgical & Lab agencies chanaganacherry | 2009 | 10404 | Practical | UG Lab | MHRD |
| 121 | Vacuum Pump | 1 | Surgical & Lab agencies chanaganacherry | 2009 | 20061 | Practical | UG Lab | MHRD |
| 122 | Digital Conductivity meter | 6 | Pharma O Sales Kochi | 2009 | 47303 | Practical | UG Lab | MHRD |
| 123 | Digital Potentiometer | 1 | Pharma O Sales Kochi | 2009 | 30409 | Practical | UG Lab | MHRD |
| 124 | Spectrophotometer | 1 | Systronics Sasthamangalam | 2010 | 32122 | Practical | Inorganic Lab-PG | CPE |

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|-----|-----------------------------------|---|-------------------------------------|------|---------|-------------------|-----------------|------------|
| 125 | Atomic Absorption Spectrometer | 1 | Perkin | | 6 lakhs | Research | MPhil Lab | MPhil fund |
| 126 | Gas Chromatography | 1 | Perkin | | 6 lakhs | Research | MPhil Lab | MPhil fund |
| 127 | Oxygen and hydrogen cylinder | 1 | | | | Research | MPhil Lab | MPhil fund |
| 128 | Flame Photometer | 1 | | | 60000 | Research | MPhil Lab | MPhil fund |
| 129 | Soil Analysis Kit | 1 | | | 55000 | Research | MPhil Lab | MPhil fund |
| 130 | Centrifuge | 1 | REMI | | 15000 | Research | MPhil Lab | MPhil fund |
| 131 | Refrigerator Samsung | 1 | Bluemoon Chanaganacherry | 2009 | 10000 | Storing Chemicals | MPhil Lab | PTA |
| 132 | Electronic Balance Sartorius | 1 | Hallmark Kochi | 2009 | 83000 | Practical | MPhil Lab | MPhil fund |
| 133 | Three digit electronic balance | 1 | Hallmark Kochi | 2009 | 53000 | Practical | MPhil Lab | Compliment |
| 134 | Flame Photometer | 1 | Meditech Systems TVM | 2007 | 62184 | Practical | MPhil Lab | FIST |
| 135 | Distilling Plant | 1 | Scientific Enterprises Tripunithara | 2007 | 26233 | Practical | MPhil Lab | FIST |
| 136 | Hardness Tester | 1 | Alfatek Services TVM | 2007 | 32117 | Practical | Polymer lab-PG | FIST |
| 137 | Refractometer | 1 | Surgical Lab Agencies | 2007 | 34477 | Practical | Physical Lab-PG | FIST |
| 138 | Polarimeter | 1 | Surgical Lab Agencies | 2007 | 27093 | Practical | Physical Lab-PG | FIST |
| 139 | Three Digit Electronic Densimeter | 1 | Alfatek Services TVM | 2007 | 266700 | Research | Research Lab | FIST |
| 140 | Vacuum oven | 1 | Meditech Systems TVM | 2007 | 68884 | Practical | PG Lab | FIST |
| 141 | Autoclave | 1 | Meditech Systems TVM | 2007 | 52071 | Research | Research Lab | FIST |
| 142 | Laminar Air Flow | 1 | Meditech Systems TVM | 2007 | 46963 | Research | MPhil Lab | FIST |
| 143 | Spectrophotometer | 1 | Meditech Systems TVM | 2007 | 34797 | Practical | PG Lab | FIST |
| 144 | Mechanical shaker | 1 | Scientific Enterprises Tripunithara | 2007 | 14100 | Practical | Physical Lab-PG | FIST |
| 145 | Electrochemical Analyser | 1 | Micro services Ltd Adayar | 2007 | 1072593 | Research | MPhil Lab | FIST |

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|-----|-------------------------------|---|----------------------------|------|--------|-----------|----------------|------|
| 146 | Four Digit Electronic Balance | 2 | Hallmark Kochi | 2007 | 216000 | Practical | PG Lab | FIST |
| 149 | Hydraulic Press | 1 | Plasto Mek Quilandy | 2007 | 149498 | Practical | Polymer lab-PG | FIST |
| 150 | Internal Mixer | 1 | Plasto Mek Quilandy | 2007 | 6026 | Practical | Polymer lab-PG | FIST |
| 151 | Mould and Dies one set | 1 | Plasto Mek Quilandy | 2007 | 41548 | Practical | Polymer lab-PG | FIST |
| 152 | Two Way Mixing Mill | 1 | Plasto Mek Quilandy | 2007 | 198640 | Practical | Polymer lab-PG | FIST |
| 153 | Impact Tester | 1 | Universal Agencies Trichur | 2007 | 56680 | Practical | Polymer lab-PG | FIST |

List of instruemts in the common instrumentation Center

| | Name of the instrument | Nos | Made/Company | Year of purchase | Cost | Use | Location | Funded by |
|----|--------------------------------|-----|--------------------------|------------------|----------------|------------------------|----------|------------------------------|
| 1 | Electronic balance | 1 | Sortorius | | | Weighing small samples | | CPE |
| 2 | Fluorescent Microscope | 1 | Olympus | | | | | CPE |
| 3 | FTIR | 1 | Perkin Elmer | | | | | CPE |
| 4 | Hydraulic press | 1 | Technosearch Instruments | | | | | CPE |
| 5 | Hot air oven | 1 | Kemi | | | | | CPE |
| 6 | LCR Meter | 1 | Hioki Japan | | | | | CPE |
| 7 | Magnetic Stirrer | 1 | Rotex | | | | | CPE |
| 8 | Sonicator | 1 | Scientific Enterprise | 2016 | 12000 | | | CPE |
| 9 | TGA-DTA | 1 | Perkin Elmer | 2020 | USD 25000 | Thermal analysis | | CPE |
| 10 | UV-Visible spectrometer | 1 | PG Instruments UK | | | | | CPE |
| 11 | Ultrasonic bath | 1 | Oscar Instruments | | | | | UGC Project (Dr. K C George) |
| 12 | Vacuum Furnace | 1 | Labline | 2018 | | | | CIF Fund |
| 13 | Vacuum Pump | 1 | | 2015 | 19950 | | | |
| 14 | Table top X-ray diffractometer | 1 | Rigaku | 2020 | Jap Yen4850000 | | | CPE |

