


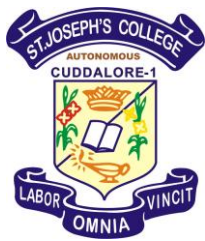


St. Joseph's College of Arts & Science (Autonomous)
Cuddalore – 607 001, Tamil Nadu.

E-mail : joseco127998@gmail.com
Website: www.sjctnc.edu.in



**PROMOTION OF RESEARCH
EQUIPMENTS AVAILABLE**



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DEPARTMENT-WISE LIST OF LAB EQUIPMENTS

PG AND RESEARCH DEPARTMENT OF PHYSICS

Sl. No.	List of Equipments / Instruments
1.	Spectrometer setup
2.	Sonometer setup
3.	Potentiometer setup
4.	Telescope
5.	Travelling Microscope
6.	Torsional pendulum setup
7.	Static torsional pendulum
8.	Digital Hotplate Magnetic Stirrer
9.	Centrifuge
10.	Four probe kit
11.	Planck's constant kit
12.	Dielectric constant kit
13.	Ultrasonic Interferometer
14.	Michelson's Interferometer
15.	Mullikan's oil drop method kit
16.	Biprism Apparatus
17.	Gouy's apparatus
18.	Half shade polarimeter
19.	Young's Modulus setup
20.	Ultrasonic diffraction
21.	Op-Amp trainer kit
22.	D/A converter kit

Principal

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PG AND RESEARCH DEPARTMENT OF PHYSICS

Sl. No.	List of Equipments / Instruments
23.	IC trainer kit
24.	Laser Diode with microscope & meter
25.	E/M Bar magnet apparatus
26.	Muffle Furnace
27.	Hot Air Oven
28.	Energy Bandgap apparatus (Forbidden energy apparatus)
29.	Hydrogen discharge tube
30.	Stephen's Constant apparatus
31.	Quinck's Setup
32.	Constant temperature bath
33.	Devices workbench
34.	Hall effect
35.	Microprocessor kit
36.	Digital Hotplate Magnetic Stirrer
37.	Centrifuge
38.	pH meter
39.	Sonicator
40.	Ball mill
41.	Computers - 9


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PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Sl. No.	Name of Equipment	Number(s)
1	Centrifuge Machine	5
2	Dimmerstat with Glass oil bath digital control	5
3	Electronic Balance (0.0001 gm accuracy)	4
4	Electric Bunsen burner	32
5	Heating mantle 500 ml	4
6	Heating mantle 1 Lit	1
7	Hot Air Oven 3x 2x 2	4
8	Melting Point Apparatus	8
9	pH Meter	5
10	Rotavapour with pump and chiller	1
11	TLC-UV chamber	1
12	Vaccum pump 1/20hp 15max flow	5
13	Water bath SS (9 Holes)	3
14	100ml Hydrothermal Autoclave Reactor with Teflon Chamber	1
15	Water Distillation unit 1.5 liter water level cut off device only	1
16	Microwave oven	1
17	Potentiometer	18
18	Conductivity meter	18
19	Photoelectric calorimeter	7
20	Hand centrifuge machine 15ml x 4 tube Aluminium or S.S	2
21	Ultrasonic Sonicator (5 L)	1
22	Magnetic stirrer	9


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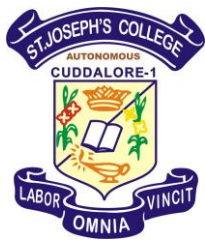
Sl. No.	Name of Equipment	Number(s)
23	Water bath shaker	1
24	ICE Cube Machine 30 lit including stabilizer	1
25	Ball Mill - 1kg	1
26	Hair dryer	2
27	Hot plate	1
28	Submersible aqua pump	2
29	UV-Visible Spectrometer	1
30	UV-Chamber	2
31	Photo Stability Chamber	1
32	Vacuum Oven	2
33	Chiller	1
34	Oil Bath (1000 ml)	2
35	Electrochemical Work Station	1


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PG AND RESEARCH DEPARTMENT OF BIOCHEMISTRY

Sl. No.	List of Equipments / Instruments
1.	Dona Balance
2.	Hot air oven
3.	Magnetic stirrer
4.	Colorimeter
5.	Microscope
6.	Rough balance
7.	Ph meter
8.	Centrifuge
9.	Hot plate
10.	Muffle furnace
11.	Heating Mantle
12.	Microtome (DMLT)
13.	Tissue floating water bath (DMLT)
14.	Distillation unit
15.	Electrophoresis unit
16.	UV-spectrophotometer
17.	Cooling centrifuge
18.	Incubator
19.	Tissue homogenizer
20.	Rotary Evaporator
21.	Sonicator
22.	Digital balance


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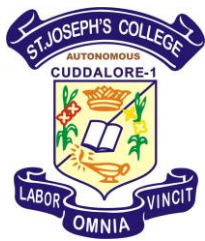
PG AND RESEARCH DEPARTMENT OF BIOCHEMISTRY

23.	Hot air drier
24.	Microwave oven
25.	Ceramic hot plate
26.	Semi-Auto chemistry analyzer (DMLT)
27.	Lypholizer-40 C with vaccum pump


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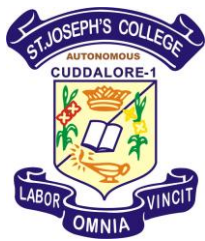
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PG AND RESAERCH DEPARTMENT OF MICROBIOLOGY

Sl. No.	List of Equipments / Instruments
1.	BOD Incubator
2.	Orbitek open air shaker
3.	Autoclave
4.	Hot air oven
5.	Laminar air flow unit
6.	Microscopes
7.	Bacteriological incubator
8.	Refrigerator
9.	Digital Balances
10.	Water bath
11.	Hot plate
12.	VDRL shaker
13.	Laboratory centrifuge
14.	Vortex mixer
15.	Orbitol incubator shaker
16.	Deep freezer (-20°C)
17.	Autoclave
18.	Hot air oven
19.	Laminar air flow unit
20.	Electrophoretic apparatus
21.	Refrigerator
22.	ELISA Reader


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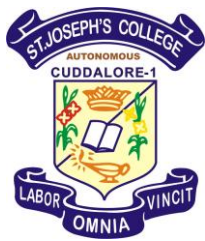
PG AND RESAERCH DEPARTMENT OF MICROBIOLOGY

23.	Micro centrifuge
24.	UV Trans-illuminator
25.	Electrophoresis power supply unit
26.	Biorad thermal cyclor
27.	Biorad submarine mini electrophoresis unit
28.	Biorad submarine midi electrophoresis unit
29.	Cooling centrifuge
30.	Gel Documentation system
31.	Mini Rotary shaker


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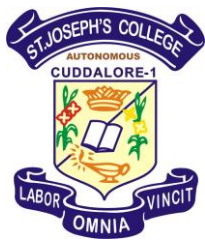
DEPARTMENT OF ZOOLOGY

S. No.	Name of the Instrument	Number(s)
1.	Student Compound Microscope	7
2.	Compound Microscope with LED	10
3.	Research Microscope Binocular	2
4.	Dissection Microscope	10
5.	Pointer eye pieces 10X	10
6.	Pointer eye pieces 15X	5
7.	Pointer eye pieces 5X	5
8.	Camera lucida mirror type	1
9.	Camera lucida prism type	1
10.	Stage Micrometer 0.01 MM	1
11.	Ocular Micrometer	1
12.	Haeocytometer Bright line chamber	40
13.	Digital weighing balance	2
14.	Thermometer 0-110c Mercury	4
15.	Microprocessor Digital Photo calorimeter	1
16.	Binocular G2 8 x 40	1
17.	Refrigerators Whirlpool	1
18.	pH Meter	1
19.	Maximum minimum thermometer	1
20.	Stethoscope	1


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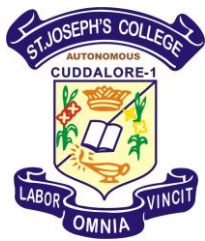
COMPUTING FACILITIES

Sl. No.	Details of availability	Number(s)
1.	Computers exclusively Available to Students	375
2.	Computers available in Library	12
5.	Internet Bandwidth in Mbps	50 Mbps
6.	Number of Licensed Application Software	3-(ORACLE 9i, TALLY, SPSS)
7.	Number of Licensed System software	2-(WINDOWS 10, Windows 2016 SERVER)
8.	Number of open source software	7
9.	Percentage of area having Wi-Fi coverage	100%
10.	List of Licensed and open source softwares	1. Wamp server 2. Python 3. Gimp 4. Anaconda 5. Java 6. C, C++ 7. Net beans


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RESEARCH DEVELOPMENT CELL

Sl. No.	List of Equipments / Instruments
1.	UV-Visible Spectrophotometer
2.	FT-IR Spectrometer
3.	pH Bench Meter
4.	Electrochemical Workstation
5.	Rapid Resolution Liquid Chromatography (RRLC)
6.	Ultra-Performance Liquid Chromatography (UPLC)
7.	Gas Chromatography (GC)
8.	High Performance Liquid Chromatography (HPLC)
9.	Vacuum Oven
10.	Micropipette
11.	Electronic Balance
12.	Hydraulic Press


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