

College with Potential for Excellence (CPE) Status by UGC, Best College Award by SPPU in 2004 & 2017, Reaccredited by NAAC with "A++" Grade (CGPA- 3.79), Recipient of UGC STRIDE Scheme and UGC-PARAMARSH Scheme, DST-FIST Sponsored, DBT STAR College Status

Central Instrumentation Facility and Scientific Equipments and Instruments

For the analysis of chemical samples, the Central Instrument Centre functions from 09:30 a.m. to 5:30 p.m. on all working days.

Sr. No.	Instrument Name and Model No.	Applications
1.	Fourier Transform Infrared Spectrophotometer FT-IR8400S	Detection of Functional Groups, To study progress of the organic reactions.
2.	Ultra-Violet Visible Spectrophotometer (UV-Visible) UV-Pharmspec-1700	Analysis of Absorbance's of sample to study degradation and other parameters.
3.	Gas Chromatography Mass Spectrophotometer with DI Probe (GCMS)GC-MS-QP 2010	Analysis of Volatile Compounds, Plant Extracts.
4.	Atomic Absorption Spectrophotometer (AAS) AA6300	Analysis of heavy metals from various samples and water samples.
5.	High Performance Liquid Chromatography (HPLC)LC 2010CHT	Analysis of biodegradation of sample.
6.	Spectrofluorophotometer (RF) Rf 5301	Analysis of Fluorescent Properties of organic and some metal compounds.
7.	Surface Area Analyser BET	Analysis of Surface area of Inorganic compounds.
8.	Thermal Gravimetric Analyzer (DTA-TG) DTG-60	Analysis of Thermal stability of compounds.
9.	Fourier Transform Infrared Spectrophotometer IR Affinity 1S	Detection of Functional Groups, To study progress of the organic reactions.
10.	High Performance Liquid Chromatography (HPLC) Prominace	Method Development of organic compounds, Analysis of biodegradation of sample .



Central Instrumentation Centre

Organic Syntheses Laboratory

Sr. No.	Instrument Name	Make / Model Number	Price	Use/ Applications
1.	HEI-VAP CORE HL G3 230V 50/60Hz in Plug	Heidolph – Germany, HEI-VAP Core HL /G3	3,64,373/-	Use to remove high boiling solvents like ethyl acetate, toluene, xylene etc.
2.	HEI-Plate Sensor Basic Package Core + Heat core	Heidolph - Germany	1,00,300/-	Useful for carry out various reaction under heating and stirring.
3.	Fume Hood	Labguard, India	3,87,719/-	To remove unwanted gases from various hazardous reactions.
4.	Raga`s Microwave Synthesis system	Ragatech RG34L	1,51,040/-	Useful for carry out various reactions under microwave irradiations conditions.



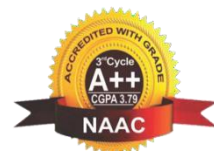
Organic Syntheses Laboratory



Rotary Evaporator



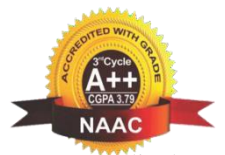
Microwave Synthesis System



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Chemistry Department

Sr. No.	Date of Purchase	Name the Instrument	Price	Use/ Applications
1.	10/02/2006	Fourier Transform Infrared Spectrophotometer (FT-IR) 8400S	40,00,000	Detection of Functional Groups, to study the progress of the organic reactions, (P.G. projects of Chemistry, Biochemistry, Microbiology and Biotechnology Students)
2.	10/02/2006	Ultra-Violet Visible Spectrophotometer (UV-Visible) UV-Pharmspec-1700		Analysis of Absorbance's of sample to study degradation and other parameters
3.	10/02/2006	Gas Chromatography Mass Spectrophotometer (GCMS) GC-MS-QP 2010		Analysis of Volatile Compounds, Plant Extracts. (Research and P. G. students of Chemistry, Biotechnology, Microbiology and Biochemistry)
4.	10/02/2006	Atomic Absorption Spectrophotometer (AAS) AA6300		Analysis of heavy Metals from various samples and water Samples
5.	25/09/2007	Electrical Balance	20,812	Accurate measurement of weight of material



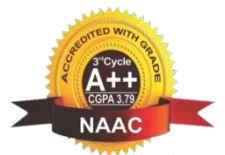
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				/sample
6.	10/03/2008	Digital Melting Point apparatus	1,53,000	For taking melting point
7.	30/06/2009	Spectro fluorophotometer (RF) Rf 5301	7,00,000	Analysis of Fluorescent Properties of organic compounds and some metal compounds. (Chemistry and Material Research Students)
8.	30/06/2009	Spectrophotometer	11,38,548	Measurement of absorbance in U.V. and visible region. Used for quantitative analysis of sample concentration
9.	18/11/2009	Colorimeter	13,833	Measurement of Absorbance
10.	20/01/2010	Surface Area Analyzer BET	5,17,000	Analysis of Surface area of Inorganic compounds (P. G. and Research Students of Physics, Electronic or Material Science)
11.	20/01/2010	Hot air Oven	10,000	Sample and Product Drying
12.	31/03/2010	Magnetic Stirrer	8,177	Stirring of chemical reaction
13.	20/12/2010	Rajdhani Refractometer	36,827	To Measure the water content of liquid



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14.	28/02/2012	High Performance Liquid Chromatography (HPLC) LC 2010CHT	12,00,000	Method Development of organic compounds, Analysis of biodegradation of sample (Research P. G. Students of Biotechnology, Microbiology and Biochemistry)
15.	28/02/2012	Digital Balance	25,312	Used to weigh ingredients in a laboratory
16.	15/07/2012	Digital photo Fluorometer with Instrument manual	72,101	Measurement of fluorescence
17.	01/08/2012	Digital Balance	33,462	Used for measurement of weight ingredients in a laboratory
18.	24/08/2012	Visible Spectrophotometer	89,856	It Gives a Spectra, these spectra can be used to detect, identify and quantify information about the atoms and molecules
19.	17/10/2012	Fast Ice Cube making m/c mode 30	59,500	Making Ice
20.	22/12/2012	Rajdhani Refractometer	28,604	To Measure the water content of liquid
21.	09/12/2013	Digital electronic Balance	31,781	Accurate measurement of weight of material
22.	09/02/2014	Thermal Gravimetric Analyzer (DTA-TG) DTG-60	12,96,000	Analysis of Thermal stability of compounds (P. G. and Research students of



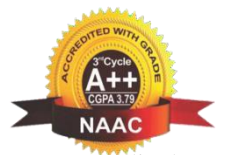
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				Material Science)
23.	31/03/2015	Abbe Refractometer	25,012	To measure Refractive index of material
24.	31/03/2015	Digital photo Fluorometer with Instrument manual	60,137	To measure fluorescence
25.	31/03/2015	Digital Spectrometer vis-350,1100mm	19,469	Calculation of visible light
26.	31/03/2015	Digital water Distillation plant	15,080	For Distillation of Water
27.	21/01/2022	Gas sensing Unit	72,216	Gas detection
28.	13/03/2016	Vacuum pump	12,600	For filtration
29.	31/03/2016	pH Meter	16,575	For Measurement of pH
30.	07/05/2016	Rotovac value Tec 230v 50/60 H2 in plug	1,23,800	For Separation and recovery of sample
31.	07/05/2016	HEI-vap valve Digital G-3-230 v-50/60 H2-In Plug	59,000	For Separation and recovery of sample
32.	16/05/2016	Conductivity meter	21,675	To measure Conductance
33.	16/05/2016	Single beam Spectrophotometer	66,300	To measure Absorbance and find out Conc.
34.	15/06/2016	Autoclave model No.7421	1,19,700	Sterilization
35.	21/03/2017	Shimadzu FTIR Spectrophotometer	11,38,421	To measure IR Value
36.	30/03/2017	Magnetic stirrer	8,500	For Stirring
37.	30/03/2017	Vacuum Pump	8,250	For filtration



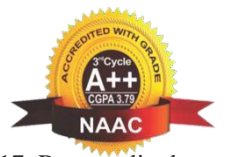
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38.	30/03/2017	Abbe Refract meter	14,500	To measure Refractive Index
39.	30/03/2017	Conductivity meter	8,000	To measure conductance
40.	30/03/2017	High Precise balance	30,038	For Weighing of sample
41.	31/03/2017	Colorimeter	7,800	To measure Absorbance
42.	31/08/2017	Whirlpool ref.280 Lit	21,990	For Cooling and storage of chemical
43.	31/03/2018	Digital PH-meter	10,125	Find out PH of samples
44.	31/03/2018	Rough Balance	6,608	For Weighing
45.	31/03/2018	Electronic Balance	24,930	Precisely measuring the weight of materials
46.	31/03/2018	Abbe Refractometer	14,500	To measure refractive Index
47.	31/03/2018	Digital pH-meter	10,125	To measure PH of sample
48.	31/03/2018	Water Distillation plant 4 Lit	7,481	For Distillation of water
49.	20/03/2019	Magnetic Stirrer	27,370	For Stirring
50.	27/03/2019	pH-Meter	8,722	To measure the PH of Solutions
51.	27/03/2019	Ultrasonic bath	20,178	For Sonication Solutions
52.	27/03/2019	Digital conductivity meter	8,826	To measure conductance



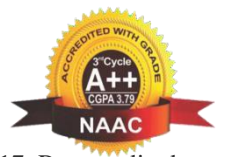
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53.	27/03/2019	Digital Rough Balance	8,614	For Weighing
54.	27/03/2019	Magnetic Stirrer	8,500	For Stirring the reactions
55.	25/03/2019	Kyan Community Computer model pro.ptd.sr.no KPIVQ119008767	46,610	Presentation, Teaching etc.
56.	27/03/2019	Sonicator 2=1.5 lit	20,178	Its cleaning action ensuring that no contaminants are left on glass wares from the previous process
57.	27/03/2019	High Precision Balance	31,506	Sample and Standard preparation, formulation,
58.	27/03/2019	Spectrophotometer 200	2,95,346	Spectrophotometric analysis
59.	27/03/2019	Abbe Refract meter	11,121	To measure Refractive Index
60.	27/03/2019	Water Jet	34,220	To cut any metal, hardened tool
61.	27/03/2019	Colorimeter	9,345	To measure Absorbance
62.	27/03/2019	JET Vacuum Pump	34,220	For filtration
63.	27/03/2019	Centrifuge Machine	9,664	For Centrifugation
64.	30/06/2019	Shimadzu UV-Vis Spectrophotometer model UV 1800	5,69,274	To measure Absorbance of chemicals and compounds
65.	20/03/2020	Digital Nephelometer	17,640	Measuring Conc. of suspended particulates in a liquid or gas



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				colloids
66.	20/03/2020	Digital photo fluorometer	50,400	Used to measure fluorescence
67.	20/03/2020	G.M. Counter	54,740	Detection of radioactivity
68.	20/03/2020	Electronic Balance CAH-223	21,801	Use Electromagnetic force compensation technique to measure precisely the weight of and object
69.	20/03/2020	Digital Spectrophotometer equipment 820	41,932	Quantifying concentration of compounds. Determining the structure of a compound.
70.	20/03/2020	High Precise balance	2,180	For Weighing
71.	31/03/2021	pH-Meter	8,118	To measure PH of Chemicals
72.	12/01/2022	Digital flame photometer Dual channel EQ-855A	58,702	Determination of Sodium, Potassium, Calcium & Lithium
73.	14/11/2022	Aditya rotary evaporator model RE2	2,82,020	For separation of solvent and solvent recovery
74.	14/11/2022	Vacuum pump model AD2C Vacuum controller	1,18,000	Used for filtration and recovery of solvent at low temperature
75.	21/01/2022	Gas Sensing Unit	61,200	The gas sensor is a device used to monitor the presence or level of gas in a stationary



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				environment
76.	28/03/2022	Fluorometer Digital 152	81,250	Used to measure Fluorescence
77.	28/03/2022	Fluorimeter Digital Systronics	78,617	Analysis purpose
78.	28/03/2022	Magnetic Stirrer with hot plate	14,348	Mixing and heating of chemical reaction
79.	28/03/2022	Digital Flame Photometer	58,700	Analysis purpose
80.	14/11/2022	Rotary Evaporator	2,82,020	For separation of solvent and solvent recovery
81.	31/03/2023	Contech balance	79,915	For practical and research purpose
82.	15/09/2023	Contech Balance CAH-223(Sr.No.4201460)	30,100	Weighing
83.	16/09/2023	Ragas Scientific Microwave Sys.Model RG43L	1,51,040	For Heating samples
84.	19/10/2023	Refrigerator EON Affa.	22,500	For storage of chemicals at low temperature
85.	31/10/2023	Irkarp HEI-Vap Core HLG ₃ 230r 50/60 H ₃ in plng (Rotary)	3,64,373	For separation of solvent and solvent recovery
86.	31/10/2023	HEI-plate Sensor Baric Package core –Plate Heat core and pt 1000(V4A)	1,00,300	For heating and steering purpose

Zoology Department



UV-VIS Spectrophotometer



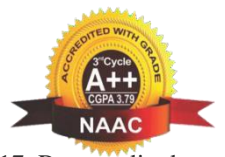
Inverted Microscope



Tissue Homogenizer



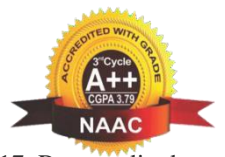
Sonicator



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List of Zoology Department Instruments

Sr.No.	Date of Purchase	Name of Instrument	Price	Use/ Applications
1.	29/10/2009	Tissue processing unit	1,65,125	Automatic Tissue processing unit
2.	19/07/2014	PCR Unit	2,40,000	Gene Amplification
3.	11/02/2015	Ultrasonic Probe sonicator	1,28,000	For Maceration For solution mixture and practical purpose
4.	10/12/2015	Cooling Microcentrifuge	1,27,800	Separation purpose
5.	31/03/2015	Deep Freezer	81,810	Preservation purpose
6.	31/03/2015	Microphotography	82,860	Imaging
7.	31/03/2015	Laminar Air Flow	81,120	Provide aseptic environment
8.	20/02/2016	Metzer Biovision Medical Microscope	95,000	To visualize tissue samples, blood cells.
9.	18/10/2016	Vis Spectrophotometer	59,846	For Practical Purpose
10.	21/10/2016	UV Vis Spectrophotometer	4,47,750	For Practical and research purpose
11.	30/03/2019	Dissecting Microscope (10)	11,894	To magnify the specimen
12.	30/07/2020	Distillation Unit (1)	34,000	To obtain pure water



13.	30/07/2020	Mini Vertical Gel Electrophoresis (1)	9,500	Agarose gel electrophoresis
14.	30/07/2020	Midi Vertical Gel Electrophoresis (1)	11,800	Agarose gel electrophoresis
15.	30/07/2020	Magnetic Stirrer (2)	35,000	To dissolve chemicals
16.	30/07/2020	Vortex mixer (2)	31,200	To mix solutions
17.	31/07/2020	Vortex mixer (2)	31,200	To mix solutions
18.	30/07/2020	pH Metre(1)	10,800	To measure pH
19.	30/07/2020	Variable type Power pack (1)	22,000	For Practical purpose
20.	30/07/2020	Auto sterilizer (1)	21,000	For Practical purpose
21.	30/07/2020	Bioera Pipette pump (1)	15,00	For Practical purpose
22.	30/07/2020	Eon pipette Variable volume Grand (1)	47,621	For Practical purpose
23.	30/07/2020	Eon pipette Variable volume Grand (2)	9,524	For Practical purpose
24.	30/07/2020	Eon pipette Variable volume Grand (2)	9,524	For Practical purpose
25.	02/02/2021	Waste care composting tank Bio shredder and its accessories	2,08,400	For Vermicomposting

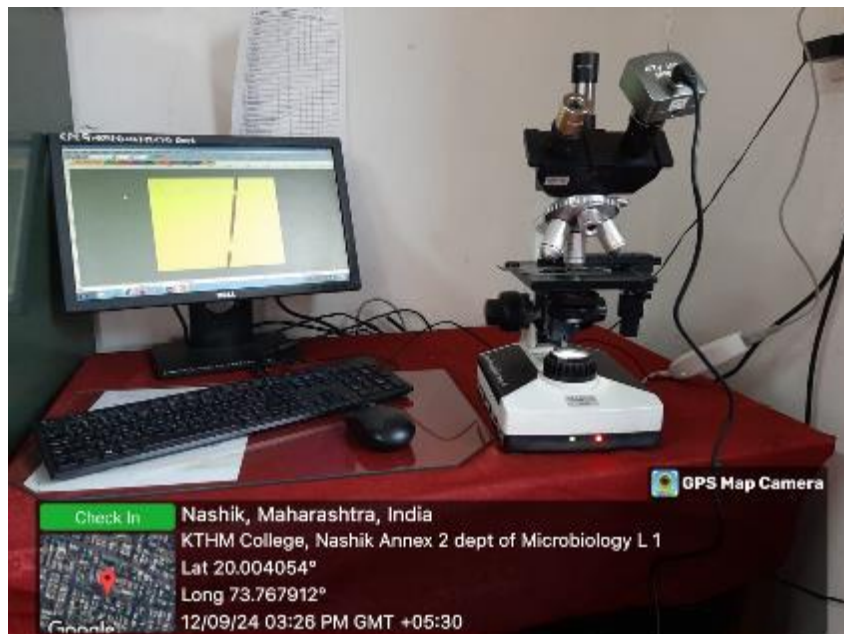
Microbiology Department



Blood Cell Counter



Distillation Unit



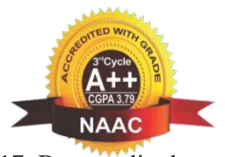
Digital Microscope



Televised Microscope

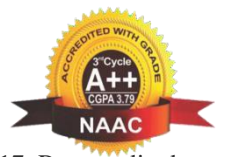
Microbiology Department Instrument List

Sr.No	Date of Purchase	Name of Instrument	Price	Usage/Applications
1.	25/03/2024	Photo Colorimeter (Digital with 8 filters)	7,528	To measure optical density
2.	04/03/2024	pH meter (Model- ADEL)	9,180	For measuring pH.
3.	04/03/2024	Fixed Type Power Pack Type II	9,775	For the Electrophoresis Unit.
4.	04/03/2024	Precision Balance (Model AROA)	13,770	For Weighing chemicals and Media

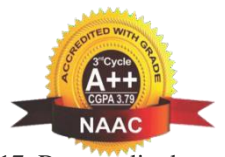


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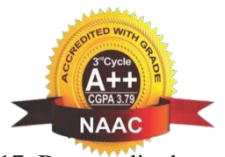
5.	16/01/2024	Refrigerators – H 702 LG Large refg. (02 units)	1,16,000	For culture preservation and kits storage.
6.	30/03/2023	Analytical Balance Model Afton	1,42,000	For weighing chemicals and media.
7.	30/03/2023	Mini- immersion Type Electro blotter	16,800	For gel blotting
8.	30/03/2023	Distillation Unit Model Frill	34,000	For water distillation.
9.	31/03/2022	Micro pipette Set (Range 2,20,200 and 1000 µL), 4- each)	1,11,663	To measure the volume in micro liter
10.	11/01/2021	Blood cell counter	2,86,150	To obtain detailed CBC Reports
11.	01/12/2021	Microwave oven	7,954	Microwave oven can safely be used in a microbiology laboratory for preparation of media.
12.	01/12/2021	Hemoglobinometer	15859.50	Hemoglobin meters are used for measuring hemoglobin and hematocrit levels in the whole blood.
13.	12/01/2021	Electronic digital Body weighing scale	1639.30	To measure weight in Kilograms



14.	1/8/2012	Vortex mixer	9,906	Mix solutions
15.	1/8/2012	Heating Mantle	4,000	To heat or control the temperature of samples and chemicals in container
16.	24/8/2012	Visible Spectrophotometer	89,856	To measure absorbance in UV and Visible range
17.	1/8/2012	Colorimeter	18,536	To measure absorbance in visible range
18.	29/03/13	Cooling Incubator	1,66,868	Cooling Incubator.6 ltr Temp 5°C to 60°C
19.	30/03/13	Phase contrast microscope assembly	89,460	To visualize cell mono layer
20.	31/03/14	Vacuum pump portable	9,387	To create vacuum
21.	18/03/2015	Visible Spectrophotometer	97,800	To measure absorbance in UV and Visible range
22.	18/03/2015	Visible Spectrophotometer software	67,200	Software for visible spectrophotometer



23.	18/03/2015	UV Trans illuminator Size 20*20 cm	24,200	For viewing nucleic acid bands
24.	18/03/2015	Electrophoresis unit	8,000	Agarose gel electrophoresis
25.	31/03/15	Microscope	67,860	To observe microorganisms
26.	31/03/15	Oven	49,400	To heat samples, to melt Agarose gel
27.	31/03/15	Pipette Washer	15,600	Automatic rinsing of used pipettes
28.	31/03/15	Digital weighing balance 0.1gm- 6 Kg. (Citizen)	28,045	For weighing chemicals
29.	31/03/16	UV transilluminator	76,500	Gel visualization
30.	31/03/16	Document Visualizer Aver- version	29,878	Document Visualizer Aversion



38.	31/03/2017	pH Meter, battery operated	9,500	For measuring pH
39.	31/03/2017	Colorimeter with built in set of 8 imported filters Filter 400,420,470,500,530,620,660	8,500	For measuring absorbance in visible range
40.	31/03/16	Binocular Microscope vision 2000Hz	96,659	All new model with halogen lamp illumination
41.	31/3/2009	Autoclave Vericle size 25x45 cm +vat 12.5	28,200	For sterilization of items.
42.	24/09/2014	Centrifuge Remi 300RPM	6,990	For centrifugation of various biological samples
43.	29/03/2013	Cooling Stabilizer	19,190	Stabilizes electric supply
44.	250/3/2010	Micro centrifuge Remi	43,686	For centrifugation of various biological samples
45.	31/03/2009	Laminar Air Flow	65,578	For sterile working conditions
46.	31/3/2009	Shaking Incubator	1,30,882	For incubation and growth of microorganisms in liquid media

47.	24/1/2019	Shaker	17,560	Shaking of sample with at specific rpm
48.	25/3/2010	Water Bath	4,847	To heat of biological samples
50.	25/03/2010	Cooling Centrifuge	1,30,206	For centrifugation of various biological samples
51.	31/3/2017	Distillation unit	19,182	To obtain pure water

Physics Department



Centrifuge



Digital Ultrasonic Bath



Micro Centrifuge Remi R-8
KTHM College Nashik Main Building, Dept. of Physics
Lat 20.007566°
Long 73.778393°
03/09/24 04:08 PM GMT +05:30

Microcentrifuge



Spin Coating Machine
KTHM College Nashik Main Building, Dept. of Physics
Lat 20.007566°
Long 73.778393°
04/09/24 10:28 AM GMT +05:30

Spin Coating Machine



CDS Spectrometer
KTHM College Nashik Main Building, Dept. of Physics
Lat 20.007566°
Long 73.778393°
03/09/24 03:52 PM GMT +05:30

CDS Spectrometer



Fabry Perot Interferometer
KTHM College Nashik Main Building, Dept. of Physics
Lat 20.007566°
Long 73.778393°
04/09/24 10:09 AM GMT +05:30

Fabry Perot Interferometer



Michelson Interferometer



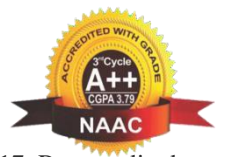
Hot Air Oven



Plank Constant experimental setup



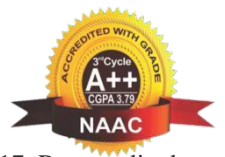
Hydrothermal Autoclave



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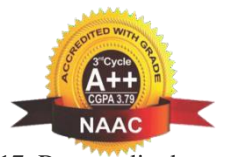
Physics Department

Sr. No.	Date of Purchase (as per stock register)	Name of Instrument	Price	Usage/Applications
1.	13/03/2015	He-Ne Laser	36,560	Required in various optics experiments and demonstrations.
2.	13/03/2015	Advanced Spectrometer(03)	57,900	To study characteristics of light spectra
3.	29/07/2016	1.Scientech 30MHZ Oscilloscope(02) 2.Four Probe Scientech (01) 3.GigerMuller (01)	77,634 37,027 98,350	To study various parameters of electrical signals To measure the sheet resistance of thin layer of material Used for detecting and measuring ionizing radiation

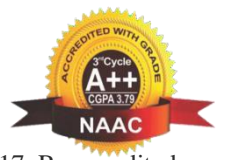


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4.	24/03/2017	1. Travelling Microscope(03) 2. Advanced Spectrometer(02) 3. Fabry-Perot Etalon 4. Frank-Hertz Experiment(01) 5. Dual Trace Oscilloscope	27,387 43,500 14,448 87,975 22,185	To measure very short distance precisely For UG and PG optics practical's For UG and PG optics practical's For UG and PG optics practical's To study various parameters of electrical signals
5.	13/06/2018	Electronic Components & Instruments	27,466	For UG and PG practicals
6.	13/06/2018	1. Sodium Light Source(02) 2. Red Diode laser with Power Supply 3. Electron Spin Spectrometer 4. Co-ordinate Measuring Microscope 5. Newton's Ring Microscope & other experiments kits.	3,27,101	For UG and PG Practicals
7.	31/03/2019	1. Intel Chipset Motherboard (3) 2.2GB DDR2 RAM(5)	19,100	To repair PC
8.	28/11/2019	Solar invertor 3KV/48V Single Phase	33,453	For solar energy backup system

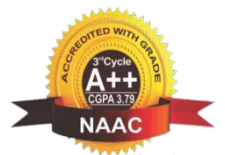


9.	20/03/2020	1.Spectral Tube Power Supply & Mount 2.Plank Constant Apparatus 3.Viscosity of liquid by rotating cylinder method 4.Michelson Interferometer Apparatus 5.Travelling Microscope 6.Solar Kit with Microameter(0-500ua)on board for 1V Characteristics. 7.Specific Heat of Graphite Apparatus	19,209.46 22,467.20 15,887.52 39,317.60 41,724.80 27,281.60 1,02,707.20	For UG and PG practicals
10.	03/03/2022	To Interface LEDs, Switches, Push Button, Buzzer, Potentiometer with Arduino Uno, Proximity Sensor and LCD, interface DHT 11 Sensor, PIR Sensor, LDR, Servo Motor, Bluetooth Module	59,944	For PG practical's
11.	31/03/2023	1 Spin Coating Machine (1 No). 2. Digital PH meter (3 No), 3-Digital Multimeter (13 No) 4- Lux Meter (2 No)	1,62,008	To Prepare thin films For PH measurement. For voltage and current measurement. For light intensity measurement.
12.	03/10/2023	12V, 150Ah Tubular Batteries -Exide (Qty -8)	78,128	For Solar inverter

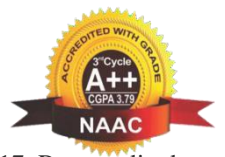


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13.	26/03/2024	Laboratory centrifuge Brand- Remi Model R-8 m plus	46,728	For centrifugation and purification of nano materials.
14.	26/03/2024	Micro centrifuge Remi Model RM03 plus	56,286	For centrifugation and purification of nano materials.
15.	26/03/2024	Hot Air Oven	29,588	For drying and calcinations of nano material.
16.	26/03/2024	Digital ultrasonic cleaning bath(sonicator)	34,478	Cleansing Glassware
17.	26/03/2024	Hydrothermal Autoclave capacity 100ml	22,302	To prepare Nano materials
18.	26/03/2024	Hydrothermal Autoclave capacity 150 ml	26,443	To prepare Nano materials
19.	29/03/2024	Fabry Perot Interferometer	32,500	For M.Sc. Laboratory
20.	29/03/2024	Michelson Interferometer Setup	33,670	For M.Sc. Laboratory
21.	31/03/2024	CDS Spectrometer with Prism	31,200	For M.Sc. Laboratory
22.	31/03/2024	Planks Constant Apparatus	23,400	For M.Sc. Laboratory



Sr. No.	Date of Purchase (as per stock register)	Name of Instrument	Price	Usage/ Applications
1.	11/2/2004	<p>Electronics Practical Kits</p> <ol style="list-style-type: none"> 1. Study of components 2. Kirchoff's laws 3. BJT /FET Characteristics 4. Study of Rectifier Circuits 5. Verification of Network theorems such as Thevenin's, Norton's, Superposition & Maximum Power transfer theorem 6. Study of Multiplexers & demultiplexer, Half adder & Full adder. 7. Study of Interconversion of Logic gates 8. Study of astable multi- Vibrator using IC 555 	19,764	<ol style="list-style-type: none"> 1. Hands-on learning of different analog and digital circuits used for grasping fundamental concepts. 2. To study various electronic components, to understand basic Circuit laws, Characterization of diff. components like BJT and FET, Verification, and application of network theorems.
2.		<p>Electronics Practical Kits-</p> <ul style="list-style-type: none"> - Pulse Amplitude Mod. - Amplitude modulation - Pulse with Modulation - LCD Display Interface - Study of Radio Receiver 	34,257	<p>To understand- The concept of Amplitude, pulse width & pulse amplitude modulation, the functioning of a radioreceiver, the operation of digital counters, the working principles of power supplies, the concept of</p>

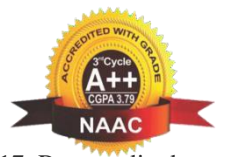


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		<ul style="list-style-type: none"> - Study of Power supply - Study of Event counter - Study of Peak detector - Study of Logic probe - Study of staircase Generator - Study of thermocouple Amplifier - Study of Bridge Amp. - TV converter for Telemetry system 		<p>peakdetection in signals, the generation of staircase waveforms. (Second year students of electronics)</p>
3.	3/11/2004	<p>Pentium P-IV (HCL) Dot Matrix Printer(Epson</p>	77,666	<p>PentiumP-IV1. Used for simulations of Electronic circuits, data processing, and running specialized software (Programming languages) in electronic labs. Dot Matrix Printer- Used for experimental/departmental documentation.</p>
4.	25/1/2005	<p>1 MHz function Generator</p> <p>20 MHz function Generator</p>	19,797	<p>A function generator -used to generate various waveforms, such as sine, square, and triangular signals.</p> <p>It is used in electronic labs for testing and debugging circuits, analyzing signal behavior, and simulating different conditions in practical experiments.</p>
5.	14/3/2005	<p>1. 20MHz Oscilloscope(CRO)</p> <p>2. 20 MHz Function Generator</p>	<p>92,500</p> <p>42,500</p>	<p>CRO (Oscilloscope)</p> <p>Used for visualizing and analyzing electrical signals, observing the changing waveforms, measuring signal parameters, and troubleshooting circuit issues,</p> <p>It is necessary in electronic labs for practical experiments</p>

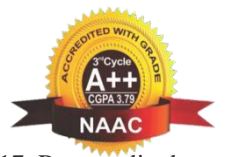


				and diagnostics. It is used in electronic labs for testing and debugging circuits, analyzing signal behavior, and simulating different conditions in practical experiments.
6.	23/12/2005	Resistivity of Semiconductor by four probe method at different temperature and determination of the band gap.	44,600/-	It is used to measure the resistivity of a semiconductor at different temperatures. & also used to determine the semiconductor's band gap.
7.	11/1/2006	Sciencetech ST2502 Advanced Fiber optics trainer Dural channel & PC-PC communication facility	27,583	Demonstrates properties of Fiber Optics Transmitter & Receiver, characteristics of Fiber Optics Cable, different types of Modulation / Demodulation techniques and PC to PC communication via Fiber Optic link using RS232 interface. It can also be used to demonstrate various Digital communication Techniques. (Third year/M.Sc students of Electronics)
8.	1/2/2007	Programmable Logic Controller (PLC)	97559/-	In labs, PLC is used for designing control systems and simulating industrial automation.
9.	24/3/2008	DSP Lab V.1.0 with Lab programming Tutor Development tools DSK6713	50,000/-	The DSP Lab V.1.0 includes tools for learning and developing digital signal processing algorithms, used for programming, testing, and analyzing DSP applications.
10.	22/8/2009	Aplab 25MHz Oscilloscope(CRO)	83,200	Used for visualizing and analyzing electrical signals up to 25MHz. It is needed for testing and



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				troubleshooting electronic circuits.
11.	14/12/2022	Arduino Uno Board, Motor Driver, Battery, SERVO Motor Wheels, etc.	1,490	<p>The Arduino Uno board, motor driver, battery, and servo motor components are used to build and control robotic systems.</p> <p>All these components are used for the development of projects involving motor control, automation, and sensor integration in electronic laboratory</p>
12.	14/12/2022	Atmega32, Target PCB, 16X2 LCD, Ultrasonic Module, LED Strip, Load cell circuit, RFID circuit, 12 V Adaptor etc.	5,817	These components support various electronic projects including microcontroller programming, data display, distance sensing, lighting control, weight measurement, identification systems, and power supply in labs and practical applications.
13.	14/12/2022	Arduino Uno, Motor Driver, Gear Motor, 12 V Battery, HC05 Bluetooth Module, 12 V 5W Solar Panel, etc.	9,805	<p>Used for mobile systems:</p> <p>Gear Motor-for motorized movement, power (12V Battery, Solar Panel), (HC-05 Bluetooth Module)- For wireless communication</p>
14.	14/12/2022	6 v 60 RPM motor, Motor Controller L 298, Sensor-HC-05, ESC, Lippo Battery, IC 7805, Propeller, BLDC Motor etc.	6,661	Components used for various electronics projects
15.	14/12/2022	Motor, Bread Board, CELL, CELL Holder, , Wheel, flame sensor, Relay 5V, Servo motor, DC Motor, Arduino UNO, etc.	2,442	Essential components for versatile projects: power (Cell Holder), control (Arduino Uno, Relay), sensors (Flame Sensor), motors (Servo, DC), prototyping (Breadboard), and mobility (Wheel)



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16.	14/12/2022	Wheel, Motor, SNAPER, Motor Driver, Arduino, Uno, Bluetooth, cable, Battery, ESP-32 etc.	2,586	Key components used for robotic systems: mobility (Wheel), propulsion (Motor), controller (Arduino Uno,) Motor Driver), communication (Bluetooth Module, ESP-32), and power (Battery)
17.	19/12/2022	Arduino Uno, ESP-32	2,431	Microcontroller platforms for prototyping and IoT: Arduino Uno for basic electronic projects, ESP-32 for advanced IoT applications
18.	06/01/2023	IC 4016, IC 8038	3,038	Integrated circuits for electronic applications: IC 4016 for quad bilateral switches, IC 8038 for function generator circuits
19.	13/01/2023	Mechanical Assembly for smart ploughing Robo	4,501	Avishkar Project- smart ploughing Robo Includes chassis, motors, wheels, sensors, actuators, and ploughing mechanism for autonomous soil cultivation in agriculture.
20.	31/03/2023	12V,100Ah.Tubular Battery (Exide)	1,36,288/-	A 12V, 100Ah tubular battery by Exide, for backup power

Biotechnology Department



Annex2, Department of Biotechnology
K.T.H.M College, Nashik - 03
Shivaji Nagar, Nashik, 422005,
Maharashtra
20.007524°N, 73.777455°E

Cooling Centrifuge



Annex2, Department of Biotechnology
K.T.H.M College, Nashik - 03
Shivaji Nagar, Nashik, 422005,
Maharashtra
20.007554°N, 73.777435°E

Gel Documentation Unit



Annex2, Department of Biotechnology
K.T.H.M College, Nashik - 03
Shivaji Nagar, Nashik, 422005,
Maharashtra
20.007539°N, 73.777457°E

Sonicator



Annex2, Department of Biotechnology
K.T.H.M College, Nashik - 03
Shivaji Nagar, Nashik, 422005,
Maharashtra
20.007478°N, 73.777501°E

Laminar Air Flow



Hot Air Oven



Lab fermenter



ELISA Reader



Inverted Microscope



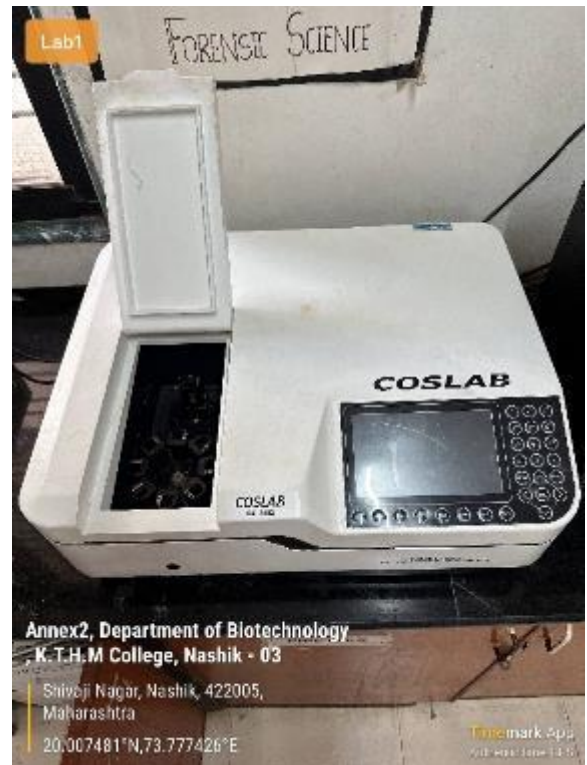
Compound Microscope with camera



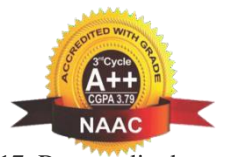
Laminar Air Flow



CO₂ Incubator

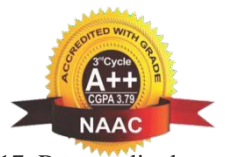


UV-Vis spectrophotometer



Biotechnology Department

Sr. No.	Date of Purchase (as per stock register)	Name of Instrument	Price	Usage/Applications
1.	31/3/2017	CO ₂ Incubator	69,200	To grow biological cell cultures
2.	30/01/2011	Fully Automated Fermentor (5 Ltr.)	9,00,000	To carry out large scale fermentation
3.	31/3/2015	Inverted Microscope	1,09,700	Observing living cells or organisms under natural conditions and for micromanipulations
4.	30/03/2016	Digital Microscope with Mega pixel camera	1,82,891	Observing living cells or organisms
5.	28/03/2016	Gel Documentation Unit	2,70,000	Used to separate mixtures of DNA, RNA, or proteins according to molecular size
6.	2/03/2016	High Speed Refrigerated Centrifuge (3000 rpm to 16000 rpm)	2,45,700	Separation of fluids, gas or liquid, based on density
7.	18/11/2009	Elisa Plate Reader	2,18,790	Measure chemical, biological or physical reactions, properties and analytes
8.	15/03/2013	UV double beam Spectrophotometer	3,40,313	Quantitative determination of different analytes
9.	22/2/2016	Sonicator (Ultrasonic processor)	1,25,912	Cell lysis and homogenization



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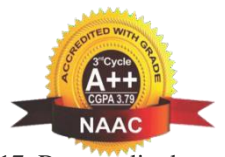
10.	31/3/2015	Vertical Gel Electrophoresis	21,778	Separation of nucleic acids (DNA or RNA) and proteins based on their size
11.	28/11/2012	Homogenizer	15,502	Blend chemical or biological samples. Lysing of cells to form one homogenous suspension
12.	28/11/2012	Laminar Air Flow	1,40,889	Provide aseptic environment
13.	31/3/2017	Laminar Air Flow	81,000	Provide aseptic environment
14.	31/3/2017	Rotary Shaker (heavy duty) 25flask of 500ml	60,000	Used to mix, blend, or agitate substances in a tube or flask
15.	26/11/2020	Fridge	57,190	To store chemicals and Bacterial cultures
16.	26/11/2020	Convection oven	20,508	Food Biotechnology
17.	2/02/2021	Digital Balance (1mg accuracy)	23,930	To weigh chemicals
18.	2/02/2021	Balance Precision 1000gm capacity	18,868	To weigh chemicals
19.	2/02/2021	Hot Air Oven (45Ltrs)	13,159	It is used for dry heat sterilization of glassware
20.	2/02/2021	Double beam UV-VIS spectrophotometer (8 Holder)	4,57,368	Quantitative determination of different analytes
21.	30/3/2023	Laminar Air Flow	64,740	Provide aseptic environment



-Maratha Vidya Prasarak Samaj's

KRT Arts, BH Commerce and AM Science (K.T.H.M.) College, Nashik-422002

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22.	30/3/2023	Precision Balance Model AROA	26,892	Weighing test materials and reagents
23.	30/3/2023	pH meter model ADEL	17,928	It measures acidity/alkalinity of a solution
24.	30/3/2023	Auto sterilizer aid	20,750	Auto sterilization
25.	27/3/2024	Balance 600gm, 10mg	9,143	To weigh lab chemicals
26.	27/3/2024	Balance 600gm, 10 gm	9,702	To weigh lab chemicals
27.	27/3/2024	Double beam UV-VIS spectrophotometer	2,95,568	Quantitative determination of different analytes
28.	27/3/2024	Cooling Ultra centrifuge	2,15,992	Separation of fluids, gas or liquid, based on density

Botany Department



Refrigerated Centrifuge



Shaker



Distillation Unit



UV-Visible Spectrometer



Seed Germinator



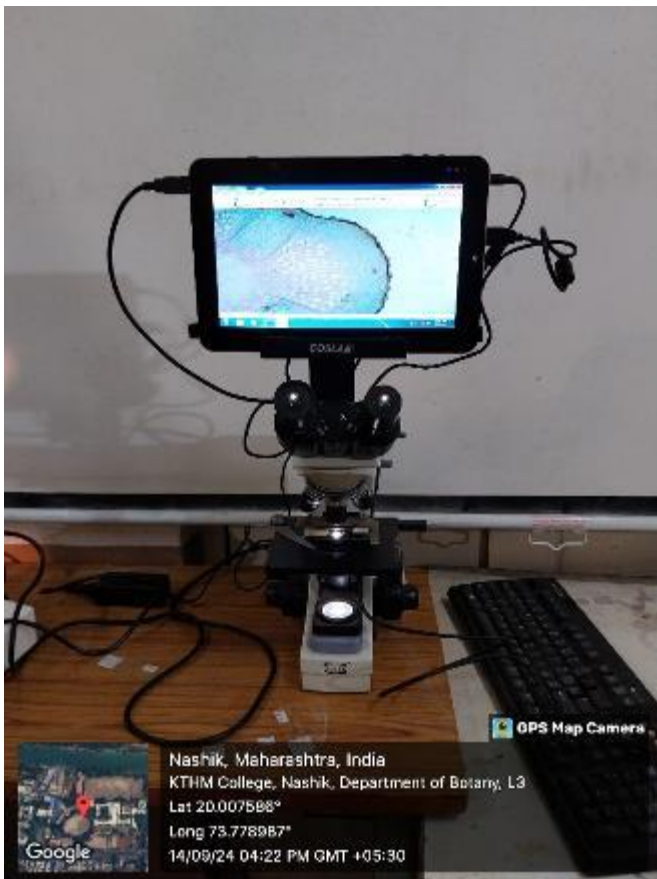
Water Bath



Projector Microscope



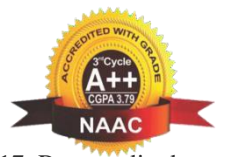
Rotary Microtome



Microscope with Tablet attachment

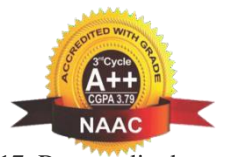


Laminar Air Flow



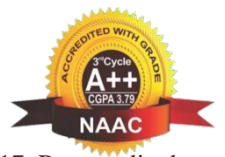
Botany Department

Sr. No.	Date of Purchase	Name of Instrument	Price	Usage/Applications
1.	30/03/2024	GPS Device	36,768	Used to provide the exact and accurate location in terms of latitude and longitude.
2.	22/03/2024	Seed Germinator (single chamber)	161,518	Used for germination studies. Typically, this device creates an environment in which light, humidity and temperature are controlled to provide optimum conditions for the germination of seeds.
3.	31/03/2023	Herbarium Press	2,548	Used to press different plant species for the preparation of herbarium.
4.	31/03/2023	Burette Potometer	4,460	Used to measure the rate of transpiration in plants.
5.	31/03/2023	Magnetic stirrer	27,140	Used to mix solutions.
6.	31/03/2023	Medical microscope	1,56,590	Used to observe various microscopic objects.
7.	31/03/2023	Auto digital pH meter	10,231	Used to measure pH of any sample solution.
8.	31/03/2023	Digital dissolved oxygen meter	15,570	Used to measure the amount of dissolved oxygen in water samples.
9.	31/03/2023	Digital Nephelometer	15,741	Used in air quality measurement for pollution monitoring, climate monitoring, and visibility.
10.	31/03/2023	Digital balance	10,770	Used to weigh chemicals, specimens precisely
11.	31/03/2023	Sacchi disc	9,558	Used to measure turbidity.



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12.	02/01/2021	Rotary Vacuum Evaporator	76,228	Used in plant biochemistry practicals and research
13.	02/01/2021	Balance Precision	16,567	To weigh chemicals in micrograms
14.	04/11/2020	Ultra sonicator Bath	15,095	Solvent extraction
15.	02/01/2021	Cooling centrifuge	1,22,130	Separation of biological substances especially cell organelles and enzymes.
16.	19/06/2018	Rotary shaker	40,533	Plant extract preparation
17.	27/06/2019	UV- Visible spectrophotometer	5,04,450	Quantitative determination of biological compounds
18.	19/10/2018	Herbarium cabinet	20,202	Used to preserve the herbarium specimens.
19.	13/02/2016	Rotary Microtome	2,48,250	Used for taking sections for the preparation of permanent slides.
20.	31/03/2015	Dissecting Microscope	33,800	This type of microscope is used to study external features on an object or to examine structures not easily mounted onto flat slides.
21.	31/03/2015	Medical Microscope	1,91,700	Used to observe microscopic objects upto a magnification of 1000 X.



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22.	31/03/2015	Constant temperature water bath	27,248	Widely used for incubation, boiling, inactivation, wet ashing, enzyme analysis, evaporating, concentrating and constant temperature heating.
23.	27/03/2015	Gel Electrophoresis Units and its Accessories	1,63,575	Used to separate mixtures of DNA, RNA, or proteins according to molecular size.
24.	13/08/2013	Oven Laboratory	32,868	Used for heating, drying or sterilizing at higher temperatures.
25.	05/03/2012	Distillation apparatus	42,560	Used for the production of distilled water.
26.	12/02/2011	Microscope Stero Zoom	43,375	Used to observe microscopic objects upto a magnification of 1000 X.
27.	12/02/2011	Microscope MLX-Bi Magnus Binocular	29,500	Used to observe microscopic objects up to a magnification of 1000 X.
28.	12/02/2011	Air sampler system	42,734	Used for the sampling of bacterial, fungal spores, pollutants present in air.

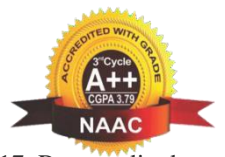
Geology Department



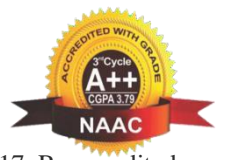


Geology Department Instruments List

Sr. No.	Name the Instrument	Date of Purchase	Price	Use/ Applications
1	Geological Hammer	28/03/2011	13,000	They are used to obtain a fresh surface of a rock to determine its composition, bedding orientation, nature, mineralogy, history, and field estimate of rock strength. In fossil and mineral collecting, they are employed to break rocks with the aim of revealing specimens inside.



2	Clinometer Compass	28/03/2011	9,300	Clinometer compass combines two instruments: a compass for direction and a clinometer for measuring angles. Geologists and hikers often use them to measure the tilt of rock layers (dip) and their direction (strike).
3	Goniometer	28/03/2011	4,000	Geologists use Goniometers to measure crystal orientations, determine rock formations, and analyze fault lines.
4	Moh's Scale Hardness of Hardness	28/03/2011	6,500	The Mohs Hardness Scale is used as a convenient way to help identify minerals. A mineral's hardness is a measure of its relative resistance to scratching, measured by scratching the mineral against another substance of known hardness on the Mohs Hardness Scale.
5	Streak Plates	28/03/2011	1,300	By scraping a specimen across the unglazed, porcelain plate, students learn to identify minerals by examining the powder color of the streak.
6	Petrological Microscope	13/06/2011	12,900	A petrographic microscope is a type of optical microscope used to identify rocks and minerals in thin sections. The microscope is used in optical mineralogy and petrography, a branch of petrology which focuses on detailed descriptions of rocks.



7	Petrological Microscope with Accessory plates	15/06/2013	23,5639	A petrographic microscope is a type of optical microscope used to identify rocks and minerals in thin sections. The microscope is used in optical mineralogy and petrography, a branch of petrology which focuses on detailed descriptions of rocks.
8.	Geologist Hammer Bronton compass Clinometer compass Streak Plate Handlens(10x)	20/09/2017	39,900	A petrographic microscope is a type of optical microscope used to identify rocks and minerals in thin sections. Clinometer compass combines two instruments: a compass for direction and a clinometer for measuring angles.

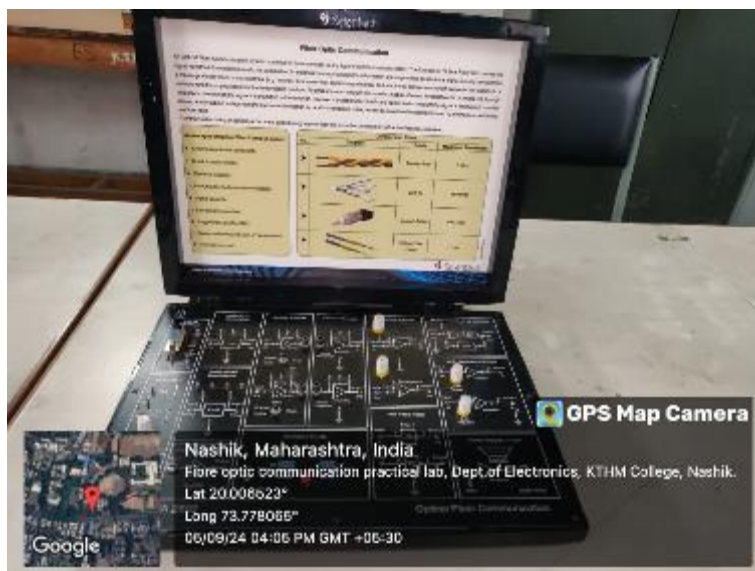
Electronics Department



Arm Development Platform



Document Camera



Fabric Optic Communication Practical Lab

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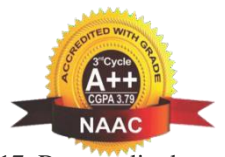
Global Positioning System



Gun Diode Oscillator

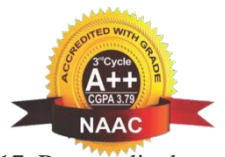


Universal Project Development Platform



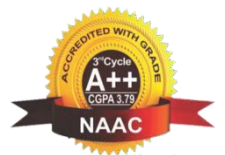
Electronics Department Instrument List

Sr. No.	Date of Purchase (as per stock register)	Name of Instrument	Price	Usage/ Applications
21.	11/2/2004	<p>Electronics Practical Kits</p> <ol style="list-style-type: none"> 1. Study of components 2. Kirchoff's laws 3. BJT /FET Characteristics 4. Study of Rectifier Circuits 5. Verification of Network theorems such as Thevenin's, Norton's, Superposition & Maximum Power transfer theorem 6. Study of Multiplexers & demultiplexer, Half adder & Full adder. 7. Study of Interconversion of Logic gates 8. Study of astable multi- Vibrator using IC 555 	19,764	<p>3. Hands-on learning of different analog and digital circuits used for grasping fundamental concepts.</p> <p>4. To study various electronic components, to understand basic Circuit laws, Characterization of diff. components like BJT and FET, Verification, and application of network theorems.</p>
22.		<p>Electronics Practical Kits-</p> <ul style="list-style-type: none"> - Pulse Amplitude Mod. - Amplitude modulation - Pulse with Modulation - LCD Display Interface - Study of Radio 	34,257	<p>To understand- The concept of Amplitude, pulse width & pulse amplitude modulation, the functioning of a radioreceiver, the operation of digital counters, the working principles of power</p>



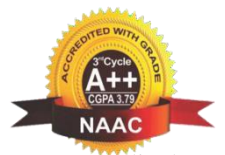
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		<p>Receiver</p> <ul style="list-style-type: none"> - Study of Power supply - Study of Event counter - Study of Peak detector - Study of Logic probe - Study of staircase <p>Generator</p> <ul style="list-style-type: none"> - Study of thermocouple <p>Amplifier</p> <ul style="list-style-type: none"> - Study of Bridge Amp. - <p>TV converter for Telemetry system</p>		<p>supplies, the concept of peak detection in signals, the generation of staircase waveforms. (Second year students of electronics)</p>
23.	3/11/2004	<p>Pentium P-IV (HCL)</p> <p>Dot Matrix Printer (Epson)</p>	77,666	<p>Pentium P-IV. Used for simulations of Electronic circuits, data processing, and running specialized software (Programming languages) in electronic labs. Dot Matrix Printer - Used for experimental/departmental documentation.</p>
24.	25/1/2005	<p>1 MHz function Generator</p> <p>20 MHz function Generator</p>	19,797	<p>A function generator - used to generate various waveforms, such as sine, square, and triangular signals.</p> <p>It is used in electronic labs for testing and debugging circuits, analyzing signal behavior, and simulating different conditions in practical experiments.</p>
25.	14/3/2005	<p>3. 20MHz Oscilloscope (CRO)</p> <p>4. 20 MHz Function</p>	92,500	<p>CRO (Oscilloscope)</p> <p>Used for visualizing and analyzing electrical signals, observing the changing waveforms, measuring signal parameters, and troubleshooting circuit issues, It is necessary in electronic</p>



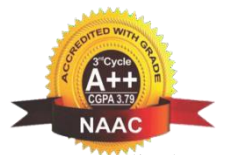
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		Generator	42,500	labs for practical experiments and diagnostics. It is used in electronic labs for testing and debugging circuits, analyzing signal behavior, and simulating different conditions in practical experiments.
26.	23/12/2005	Resistivity of Semiconductor by four probe method at different temperature and determination of the band gap.	44,600/-	It is used to measure the resistivity of a semiconductor at different temperatures. & also used to determine the semiconductor's band gap.
27.	11/1/2006	Sciencetech ST2502 Advanced Fiber optics trainer Dural channel & PC-PC communication facility	27,583	Demonstrates properties of Fiber Optics Transmitter & Receiver, characteristics of Fiber Optics Cable, different types of Modulation / Demodulation techniques and PC to PC communication via Fiber Optic link using RS232 interface. It can also be used to demonstrate various Digital communication Techniques. (Third year/M.Sc students of Electronics)
28.	1/2/2007	Programmable Logic Controller (PLC)	97559/-	In labs, PLC is used for designing control systems and simulating industrial automation.
29.	24/3/2008	DSP Lab V.1,0 with Lab programming Tutor Development tools DSK6713	50,000/-	The DSP Lab V.1.0 includes tools for learning and developing digital signal processing algorithms, used for programming, testing, and analyzing DSP applications.
30.	22/8/2009	Aplab 25MHz Oscilloscope(CRO)	83,200	Used for visualizing and analyzing electrical signals up to 25MHz.



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				It is needed for testing and troubleshooting electronic circuits.
31.	14/12/2022	Arduino Uno Board, Motor Driver, Battery, SERVO Motor Wheels, etc.	1,490	The Arduino Uno board, motor driver, battery, and servo motor components are used to build and control robotic systems. All these components are used for the development of projects involving motor control, automation, and sensor integration in electronic laboratory
32.	14/12/2022	Atmega32, Target PCB, 16X2 LCD, Ultrasonic Module, LED Strip, Load cell circuit, RFID circuit ,12 V Adaptor etc.	5.817	These components support various electronic projects including microcontroller programming, data display, distance sensing, lighting control, weight measurement, identification systems, and power supply in labs and practical applications.
33.	14/12/2022	Arduino Uno, Motor Driver, Gear Motor, 12 V Battery, HC05 Bluetooth Module, 12 V 5W Solar Panel, etc.	9,805	Used for mobile systems: Gear Motor-for motorized movement, power (12V Battery, Solar Panel), (HC-05 Bluetooth Module)- For wireless communication
34.	14/12/2022	6 v 60 RPM motor, Motor Controller L 298, Sensor-HC-05, ESC, Lippo Battery, IC 7805, Propeller, BLDC Motor etc.	6,661	Components used for various electronics projects
35.	14/12/2022	Motor, Bread Board, CELL, CELL Holder, , Wheel, flame sensor, Relay 5V, Servo motor, DC Motor, Arduino	2,442	Essential components for versatile projects: power (Cell Holder), control (Arduino Uno, Relay), sensors (Flame Sensor), motors (Servo, DC), prototyping (Breadboard), and mobility (Wheel)



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		UNO, etc.		
36.	14/12/2022	Wheel, Motor, SNAPER, Motor Driver, Arduino, Uno, Bluetooth, cable, Battery, ESP-32 etc.	2,586	Key components used for robotic systems: mobility (Wheel), propulsion (Motor), controller (Arduino Uno,) Motor Driver), communication (Bluetooth Module, ESP-32), and power (Battery)
37.	19/12/2022	Arduino Uno, ESP-32	2,431	Microcontroller platforms for prototyping and IoT: Arduino Uno for basic electronic projects, ESP-32 for advanced IoT applications
38.	06/01/2023	IC 4016, IC 8038	3,038	Integrated circuits for electronic applications: IC 4016 for quad bilateral switches, IC 8038 for function generator circuits
39.	13/01/2023	Mechanical Assembly for smart ploughing Robo	4,501	Avishkar Project- smart ploughing Robo Includes chassis, motors, wheels, sensors, actuators, and ploughing mechanism for autonomous soil cultivation in agriculture.
40.	31/03/2023	12V,100Ah.Tubular Battery (Exide)	1,36,288/-	A 12V, 100Ah tubular battery by Exide, for backup power

Geography Department



Weather Station Setup



Sunshine Recorder



Open Pan Evaporation



Automatic weather station



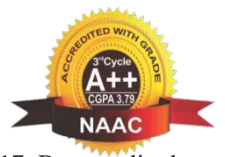
Global Positioning System



Dumpy Level



Wet / Dry Bulb Thermometer



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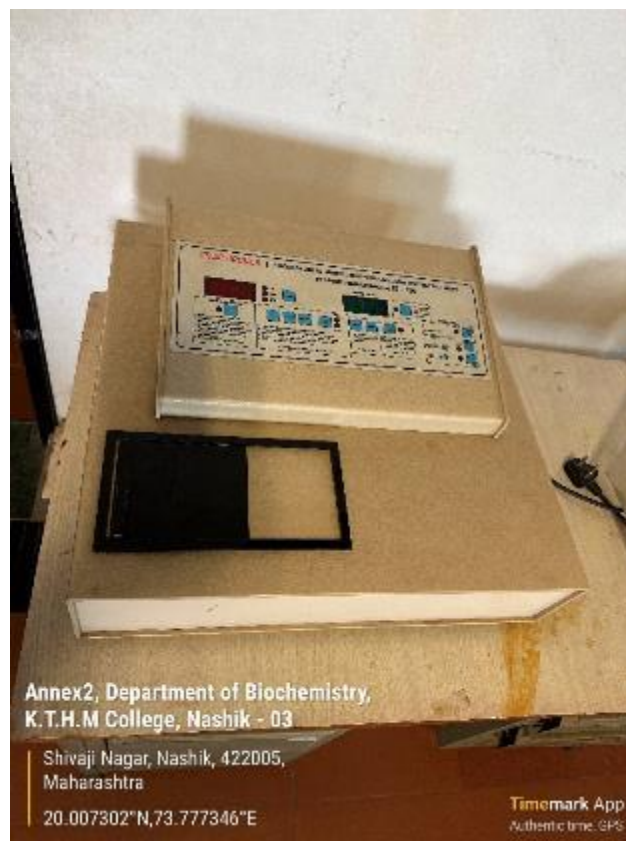
Geography Department

Sr. No	Date of Purchase	Name of Instrument	Price	Use / Application
1.	07-09-2018	Auto level	20945	Surveying in River,Road and different types of topographical elevation.
2	07-08-2018	Auto Level Sokkia Mak-13-40awith alluminium staff	20945	Surveying
3	01-07-2021	Ordinary rain gauge complete set with IS Standards	4425	Rain gauge measurement
4	07-01-2021	Automatic rain guage complete set with IS Standards	16815	Automatic rainguage measurements
5	13-04-2016	Automatic Weather station	165000	Measurements of weather elements
6	13-04-2016	PG streamer	150000	Remote sensing
7	23-03-2016	Dumpy level	44466	Surveying
8	14-02-2017	Global positioning system (GPS)	317000	Student GIS Course
9	22-03-0017	Antivirus software	26672	Surveying
10	05-02-2017	Autolevel Sokkia mak-40	13075	Protect computers from malware etc.
11	07-08-2018	Celling fan	20945	Surveying
12	09-07-2018	Furniture	3359	Ventilation
13	30-07-2019	Water level	249248	Student seating and files
14	25-02-2020	Prismatic compass	2700	Surveying
15	25-02-2020	Direction compasss	9000	Surveying
16	25-02-2020	Ranging rod	4050	surveying
17	25-02-2020	Plane table	5400	surveying
18	25-02-2020	Measuring tape	14040	surveying
19	25-02-2020	Arial photograph	1935	surveying
20	25-02-2020	Antivirus	8100	Practical in GIS
21	12-09-2020	DII Pan 4v2 With Battery	11500	Protect Computers from virus
22	25-01-2021	Auto Levelb 40 a set	0	Surveying
23	19-02-2021	Chairs	0	Surveying
24	12-03-2021	Digital Soil testing mini lab	27754	GIS Lab Seating Arrangements
25	17-05-2023	Gps	149499	Use of soil Testing
26	17-05-2023	Extra Peagentkit 14 parameter 50 Samples	282158.1	provide users with positioning

Biochemistry Department



Centrifuge



UV-Vis Spectrophotometer

Biochemistry Department Instrument List

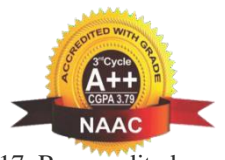
Sr.No.	Date of Purchase (asper stockregister)	Name of Instrument	Price	Usage/Applications
1.	05/02/2020	Digital visible Spectrophotometer	46,728	Quantitative determination of different analytes
2.	05/02/2020	Contech High balance	23,571	To weigh chemicals



-Maratha Vidya Prasarak Samaj's

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3.	19/03/2020	High speed programmable centrifuge	2,37,880	Used to separate mixtures of DNA, RNA, or proteins according to molecular size
4.	30/03/2023	Visible Spectrophotometer	37,350	Analytical purpose
5.	30/03/2023	Precision Balance Model AROA	13,446	Measurement of chemicals
6.	30/03/2023	pH Meter ADEL	44,820	Determination of pH
7.	30/03/2023	Magnetic stirrer	20,750	Stirring
8.	12/01/2024	Refrigerator- H702	58,000	To store samples, chemicals at low temperature
9.	23/02/2024	Water bath- Bio-era limpud	23,375	Heating
10.	23/02/2024	Colorimeter Bio-era	15,300	Quantitative estimation

[Signature]

Co-ordinator
Internal Quality Assurance Cell (IQAC),
KRT Arts, BH Commerce &
AM Science (KTHM) College, Nashik- 2.



[Signature]
PRINCIPAL
K.R.T. Arts, B.H. Commerce &
A.M. Science College, Nashik-2