

**P.E.S. MODERN COLLEGE OF ARTS, SCIENCE AND COMMERCE , GANESHKHIND  
PUNE 16**

**LIST OF SCIENTIFIC INSTRUMENTS IN THE COLLEGE**

SR.NO.	NAME OF THE INSTRUMENT	DETAILS	QUANTITY
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**List of instruments- Biotechnology Department**

1	Micropipetes	Variable volume 0.5-2ul	3
2	Micropipetes	Variable volume 2-20ul	2
3	Micropipetes	Variable volume 10-100ul	2
4	Micropipetes	Variable volume 1-10ul	2
5	Micropipette	Variable Volume 100-1000ul	1
6	Micropipetes	variable volume 100-1000ul	3
7	Gel system Vertical Mini gel System with accessories	Regular Model No - 106725 GB	2
8	Stabilizer	Servo 3KVA Input 170-270 VAC ,Output 230VAC Single Phase	2
9	Projector	Richo DLP PJS 2240with HDMI3000Lu	1
10	Projector	Screen 6x8 Instalock Polite VGA Cable 15 meter	1
11	ROTEVA	Roteva, Medica, 63 series , #8763RVO.000	1
12	ROTEVA	Vaccum Pump For Roteva 7016 Chemvac	1
13	Microscope	MLXi	1
14	Software	Magnus Pro image Analysis Software	1
15	Microscope	Fluorescent Attachment Blue Green	1
16	Microscope	CCTV System for fluorescent Microscope CIS 300	1
17	Gel system	Gel Documentation #13-02 Biotech With digital camera	1
18	Gel system	1D Gel Analysis System#13-02-02 Biotech	1
19	Incubator	Orbital Shaking Incubator , Cooling Temp 5-60 Degree	1
20	Gel system	mini dual gel system , gel size 8x7 cm	2

21	Gel system Rocker for gel	Single platform Rocker	1
22	Gel system Gel Blotter	Gel Blotter single gel 8 x7 cm	1
23	Power Pack	Power supply electro transfer model 10-250v , 3000mA	1
24	Cyclomixer	cyclo mixer CM 101 Remi	1
25	Gel system	Horizontal electrophoresis Midi Make Genei	2
26	Gel system	Vertical Mini Gel System 6 x 7 cm Genei	2
27	Fermentor	Fermentor Fully Automatic make Hygene Korea Vol 3 lit Working vol 2.5 lit	1
28	Gel system	Horizontal Electrophoresis Gel System Mini 10 x 7 cm	2
29	Autoclave	Autoclave Fully Automatic SS 40 x 60 cm #7440 FA Make Equitron	1
30	Rocker	Single Platform Rocker 30 x 30 cm	1
31	Micropipetes	Micropipette 0.5 - 10 ul Make chromous	1
32	Micropipetes	Micropipette 10 - 100 ul Chromous	1
33	Micropipetes	Micropipette 100 - 1000 ul Chromous	1
34	Stabilizer	Stabilizer 1 KVA Servo	2
35	Stabilizer	Stabilizer 3KVA	2
36	Shaker	Remi	1
37	Gel system	Gel System Maxi 20 x 20 cm Genei	1
38	Power Pack	Power Pack Digital PS500 EPS 500 Model 500mA/500VDA	1
39	Micro Centriguge Spinwin	Microcentrifuge Fixed RPM 6000 rpm Genei	1
40	Developing Chamber for gel	Developing Chamber 106594 Lightproof Large size	1
41	Power Pack	Power Pack Digital PS 100 EPS 300 model mA/300VDC	1
42	Kjheldhal Apparatus 800 ml J sil	Kjheldhal Apparatus 800 ml J-sil	2
43	Centrifuge	Cooling centrifuge table top C24 BL Remi	1
44	Roter Head.	Rotor Head 24 x1.5 ml R248 Remi	1
45	Roter Head.	Rotor Head 120 x15 ml R244 Remi	1
46	Roter Head.	Rotor Head 8 x 25 ml R 243 Remi	1
47	Cyclomixer	Vertex ( Cyclo ) Mixer CM 101 Remi	1
48	Stirrer	Magnetic Stirrer with hot plate 1Lit , 1MLH Remi	2

49	Oven	Oven Lab 18x18x18 (MS) Digital Temp indicator , Temp 250 Degree	1
50	Oven	Oven 18x18x18 " Temp 250 Degree Labhosp	1
51	Spectrophotometer Is	Spectrophotometer UV Double Beam , Model UV 2600	1
52	Laminar Air Flow	Laminar Air Flow , Size 4x2x2 Filter Pre -05 Micron , HEPA- 03 micron , Quality	2
53	water bath	Water bath 12 holes , 40x30x10 cm Make - Quality	2
54	Electrophoresis system	Vertical Electrophoresis Mini Gel size 13 x 12 cm with Accessories	2
55	Electrophoresis system	Submarine Mini Gel size 10 x 7 cm , Make Bioera	2
56	Power Pack	Power Pack Fixed Type 1 , 100 mA current , Make Bioera	1
57	Power Pack	Make - Bioera	1
58	Microscope	Microscope with 100X oil Immersion , Make - Focus , Model JPM-1	10
59	Microscope	Microscope 100X oil immersion , Make - Olympus , Model - HB	5
60	Deep Freezer	RQFG 170 , Remi	1
61	Speaker	Speaker (B)	2
62	Autoclave	Autoclave SS 50 x30cm , make - Metalab	1
63	Incubator	Incubator , Temp 60 degree with digital indicator , Size - 45x45x45cm	1
64	Refrigerator	Make - Whirlpool , 310 Lit , Direct Cool	2
65	Water Purifier	Reverse Osmosis System	1
66	pH-meter	Equiptronics , EQ 614	2
67	Colorimeter	Digital Photoelectric colorimeter with 8 filter, Make - Equiptronics , EQ 650	2
68	Electrophoresis system	Mini Submarine Gel Electrophoresis , Size - 10 x 7 cm Cat no SEP - 170501	2
69	Electrophoresis system	Midi Vertical Electrophoresis , Size - 13 x 13 cm , VEP - 170302	2
70	Micropipette	Micro Pipette Fixed Volume set of 14 pipettes - 1,2,5,10,20,25,50,100,200,250,300,400,500,1000 ul	14
71	Micropipette	Micropipette Fixed Volume 1,2,10,20,100,1000 ul , Make - Bioera	06
72	Micropipette	Make Bioera , 0.5 - 10 ul Micropipette	2

73	Micropipette	Make - Bioera , 20 -200 ul , 100 - 1000 ul Variable Volume	4
74	Spectrophotometer Is	UV Spectrophotometer , Make - Systronics , Model 2202 , 200-1000 nm Double Beam with PC Pentium IV,3GHz 256 MB RAM80GB	1
75	PCR	PCR 5332 Master Cycler Personal , 5432 Mini Spin, 3111 05-10ul And 10-100 ul Research pipettes	1
76	Water bath	Water Bath Thermostatic 12Holes	1
77	Autoclave	Autoclave Double Drum SS	1
78	CO2 Cylinder	CO2 Cylinder With regulator	1
79	Balance	cap - 200 gm	1
80	Shaker	cm, RPM- 250	1
81	Balance	200	1
82	Projector	Over Head Projector	1
83	Microwave Oven	Microwave Oven , Make - LG Cap - 300 lit	1
84	pH-meter	pH Meter Make - Equiptronics Model - EQ-614	1
85	Colorimeter	Colorimeter Make - Equitronics Model -QS 650	1
86	Stirrer	Magnetic Stirrer with hot plate Make - Remi , Cap - 2 lit	1
87	Microscope	Microscope Make- Besto Model- 5 , 10x 15x Eyepiece	8
88	Microscope	Stereo Microscope Make- Besto Model- BS -42	1
89	viewing	UV Transilluminator , Make- Biotech OQ -01	1
90	pH-meter	PH Meter Make - Equiptronics , Model -EQ -650	1
91	Colorimeter	Colorimeter Make - Equiptronics Model - EQ -650	1
92	Microscope	Stereo Binocular Microscope , Model - DS-22A	1
93	Shaker	16 nos	1
94	Membrane Filter	Membrane Filter Holder , 49mm Make- Tarson , Cap- 250ml	1
95	Refrigerator	Deep Freezer -20 Make- Labline with power Supply	1
96	Incubator	CO2 Incubator , Make- monitor , Cap- 16 lit , CO2 % - 5 %	1
97	Refrigerator	Double door, 345 L, -HRB-3654PKG	1

### **List of instruments- Botany Department**

1	Trinocular- Microscope	MLX-TR Plus Model -Olympus , MagcamDC-5,Adaptor	01
2	Water bath	Thermostatic	01
3	Water bath	Thermostatics iwth12 holes & ring SS metalic metlab	1
4	Microscope	Model-01 HSN 9012	10
5	Microscope	rotable LED Battery	02
6	Hot Plate	Magnetic stirrer with Hot Plate Model: BTI-33 , Capacity : 2MLH	01
7	Balance	Electronics Balance :Model CAH 223	01
8	pH-meter	EQ 610 Equip-Tronics	01
9	Conductivity meter	EQ 660B Equip-Tronics-	01
10	Apparatus GPS	GPS trakker Etrex-30 Make : Gammin , e-axis compass	01
11	Microscope	Discecting microscope	02
12	Microscope	Compound microscope	06
13	pH-meter	Ph-meter with electrode	01
14	Laminar Air Flow	Microfilt	1
15	Autoclave	Vertical	2
16	Incubator	Metlab	1
17	Spectrophotometer	Equiptronics	1
18	Hot Air Oven	Universal	1

### List of instruments- Geography Department

1	Thermometer	Maximum & Minimum, Dry Bulb and Wet Bulb Thermometer	2
2	Four Cup Anemometer	Four Cup Anemometer	1
3	Weather Instruments	Ordinary Rain Guage, Rain Measure Glass, Thermometer, Wind - Wane	1
4	Earth Globe	Earth Globe	1
5	Plane Table Survey	Surveying Instruments	2
6	Dumpy Level	Surveying Instruments	2
7	Prismatic Compass	Surveying Instruments	2
8	Surveying Instrumennt	Indian Clinometer	2
9	Surveying Instrument	Ranging Rods	8
10	Surveying Instrument	Stuff Wooden Folding type	2
11	Measuring Tape	Surveying Instrument	1

12	Geometrical Compass	Geometrical Compass	1
13	Half Meter Scale	Surveying Instrument	2
14	Half Set Compass	Half Set Compass	2
15	Surveying Instrument	Set Square	2
16	Circular Protector	Circular Protector	2
17	Aneroid Barometer	Aneroid Barometer	1
18	School Instrument box	School Instrument Box	2
19	Pentagraphy	Pentagraphy	1
20	Drawing Instrument	Drawing Instrument	1
21	Weather Instrument	Max & Min Thermometer	1
22	Weather Instrument	Dry & Wet Bulb Thermometer	1
23	Surveying Instrument	Measuring Tape	1
24	Surveying Instrument	Fork	3
25	Surveying Instrument	Plumb Bob	4
26	Surveying Instrument	Pro circle	1
27	SOI Toposheet	56D/11, 63G/15, 45D/7, 53B/7,45F/3,64P/13,63K/12	32
28	SOI Toposheets	47F/14,47F/15	8
29	Surveying Instrument	Prismatic Compass	2
30	Surveying Instrument	School Compass Box	10
31	Meter Scale	Meter Scale	3
32	Wooden Meter Scale	Wooden Meter Scale	3
33	Pro circle	Pro Circle	12
34	Protectors	Protectors	12
35	Weather Instrument	Hair Hygrometer	1
36	3 D Map	3 D Map Maharashtra duly Aluminum with Hard back	1
37	Over Head Projector	Over Head Projector	1
38	Bio Visual products	G16, Structural features of Rocks I	1
39	Bio Visual Products	G9 Altitudes Assumed by an Axial Plane	1
40	Bio Visual Products	G17, Structural features of Rocks II	1
41	Bio Visual Products	G7 Continental Drift	1
42	Bio Visual Products	Classification of Fault I	1
43	Bio Visual Products	G5 Activities of Volcanoes	1
44	Bio Visual Products	Classification of Faults II	1

45	Bio Visual Products	Mountain and Mountain Building	01
46	SOI Toposheets	63K/12, 63G/15, 53B/7, 45F/3, 47F/14, 47F/15, 56D/11	14
47	Geographical Models	River in action	1
48	Geographical Models	Interior of the Earth, Geographical Terms,	1
49	Surveying Instrument	Pocket Stereoscope	4
50	Weather Map of India	Winter, Autumn, Summer, Rainy	4
51	Altimeter	Altimeter	1
52	Solar System Chart	Solar System Chart	1
53	Standard Time Indicator Apparatus	Standard Time Indicator Apparatus	1
54	SOI Toposheets	SOI Toposheets 1:50000	6
55	Geographical Astronomical Charts	Astronomical charts laminated	9
56	3 D Raised Plastic map aluminum frame	World Physical and Political	2
57	Globe Illuminated	Globe Illuminated	1
58	Mirror Stereoscope	Mirror Stereoscope portable	1
59	Mirror Stereoscope	Mirror Stereoscope metal & Mounted	1
60	Surveying Instrument	Plain Table Survey	2
61	Surveying Instrument	Prismatic Compass Survey	2
62	Mirror Stereoscope	Mirror Stereoscope	1
63	Power Stereoscope	Power Stereoscope	1
64	Binocular	Binocular	1

### **List of instruments- Languages Department**

1	Tape Recorder	Tape Recorder	1
2	Audio Recorder Kit	Audio Recorder Kit	19
3	Ear Phones	Ear Phones	20
4	Audio Recorder Mini	Audio Recorder Mini	5
5	GOLS CDs (Spoken English)	GOLS CDs (Spoken English)	4
6	Spoken English CDs (vol 1& 2)	Spoken English CDs (vol 1& 2)	2
7	Software CDs SET	Software CDs SET (Tell Me More 10 CDs)	1

8	Speakers	Speakers	1
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### List of instruments- Microbiology Department

1	Autoclave	Autoclave portable; Make: Equitron; capacity: 52 L; Type: Manual	1
2	Autoclave	Make: Equitron; Portable type; Table top	1
3	Refrigerator	Make: Haier; Cap: 345 L; Model: HRB-365 PKG	2
4	Spectrophotometer	Make: Equiptronics; EQ822A; Visible range	1
5	Colony Counter Digital	colonies	2
6	Incubator	Make: BTI; Model: BTI - 26; size: 24x24x24"	1
7	Colorimeter	Make: Hans 253	2
8	Cyclomixer	Make: Remi; Model CM101	1
9	Stabilizer	Servo type; Make: MGuard; 1 kVA	2
10	Stabilizer	Servo type; MGuard Make; 2kVA	2
11	Stabilizer	Servo type; MGaurd make; 3kVA	5
12	Stabilizer	MGaurd make; 1 kVA; servo type	1
13	Microscope	Lawrence and Mayo; Lynx trinocular microscope with HDMI camera (5 MP; USB; HD lite) & retina screen; LM-52-1803	1
14	Micro Centriguge Spinwin	spinwin make 1000 MCOO ,cap 1.5mlplaces 6, 2 place rotar for 8 x200ul ,tube strips 6 X1.5ml tubes	1
15	Tissue Homogeniser	Remi Make; RQ127A/D	1
16	conductivity meter	Contech Instruments Ltd; CC01	1
17	Refractometer	Erma; 0-32% range	1
18	Printer	HP Printer cum xerox machine; M1136 MFP Laser jet	1
19	pH-meter	Digital pH meter with electrode: Equiptronics: EQ610	1
20	Microscope	Make: ESAW; Model: MM01 with artificial source of light (lamp)	20
21	Microscope	Magnus make; SM100 model No.	8
22	Oven	Microwave oven LG make; MS4295DIS LG;	1
23	Electrophoresis system	Maxi sub system large 20cmx20cm; Make: Genie	2
24	Power Pack	Genie; PS500; 500V, 500mA	1



25	Spectrophotometer UV	UV2600	2
26	Stabilizer servo	servo controlled voltage stablizer 3KVA	2
27	Spectrophotometer uv visible	double beam uv spectrophotometer model uv 2600	1
28	Refrigerator refrigerator double door	WHIRLPOOL REFRIGERATOR DC 310 MAXIGERATOR STEEL 310LIT ,STEEL FINISH	2
29	Microscope binocular	Research binocularmicroscope kyowa getnerbiopluse XL	1
30	Microscope binocular	Research binocular kyowa getner bioplusXL	4
31	Microscope Disecting	Disecting microscope small with eyepiece make labin	1
32	Colorimeter	make Equiptronics with 8 filters s.n. 15700907-1	1
33	Incubator thermostatic SS	make LAB HOSP 24x24 X24"	1
34	Autoclave vertical	make lab hosp 25 X 45cm inner SS outer MS x	1
35	Shaker	ROTARY ORBITAL SHAKER MAKE REMI ,RS-24-BL WITH CLAMPS	1
36	Projector	model no. uni.002 dual lamp	1
37	Micropipette	EON PIPETTES VARIABLE VOLUME 5-50ul ,20-200ul,100-1000ul	3
38	Balance	with half breeze shield	1
39	PCR EPPENDORF	MINISPIN,PIPETTE ADJUSTABLE VOL..5-10UL,10-100UL,ECX - 15 312NM UV TABLE	1
40	Shaker	orbital shaker incubator Refigerator CIS-24BL make Remi with voltage stabilizer	1
41	U.V. Portable Lamp	(DUAL WAVE) LONG 365NM SHORT 254NM WAVE WITH ALU.SHEET SILICA GEL 60F 254	1
42	Water bath	WATER BATH WITH LID WITHOUT THERMOSTAT SIZE 1 x1.5 FOOT	2
43	Micropipette	MICROPIPETTE VARIABLE VOL. 20-200ULAND 100-1000UL	4
44	Cyclomixer	CYCLOMIXER CM-101	1

45	Centrifuge	REFRIGERATED CENTRIFUGE C-24BL ANGLE HEAD 24 - R248,12 -R244 ,6R242,4R241 ,PLACES	1
46	Orbital Shaker Incubator	ORBITAL SHAKING INCUBATOR WITH INDUCTION MOTOR CIS-24BL WITH CLAMPS	1
47	water distilation	cap 4lit wall mounted make -lab hosp	1
48	Micropipette	10ul,100ul,1000ul.	6
49	Incubator	COMPLETE SS SIZE 24 X24X24" MAKE LAB HOSP	1
50	Oven	MAKE -LAB HOSP 24X24X24X' SS	1
51	Autoclave	DRESSING DRUM	2
52	pH-meter	MAKE -LABIN WITH ELECTRODE	1
53	Refrigerator DEEP FREEZE	MODEL-URC-H-ECO-400-1 WITH AUTOMATIC VOLTAGE STABILIZER	1
54	Centrifuge	MAKE -REMI DIGITAL TIMER CAP 24 MICROFUGE	1
55	Balance battery operated	balance for school and college make -kern	2
56	Electrophoresis system	MINI GEL SYSTEM VERTICAL 106680 MAKE -GENEI AND POWER PACK 106854 PS100 GENEI	1
57	Microscope	Binocular Microscope-Olympus make; Magnus series with light source; Model No. MLX-B	2
58	Refrigerator	cap650lit make whirlpool sr.no.546	1
59	Refrigerator	cap310lit make whirlpoolsr.no 7290	1
60	Microscope	optical microscope make Besto with 10X ,45X 100X	5
61	Water bath Shaker	SS INTERIOR ,DIGITAL MAKE YORCO YSI417 40X 30X15	1
62	Micropipette FIN PIPETTE	MICROFILT MICROPIPETTE CAP 5-50ul ,100-1000ul. w13643 and w12140	2
63	Micropipette Variable	MAKE KASABLANKA CAP 5-10ul,10-100ul,100-1000ul.	3
64	Colorimeter	Digital Microprocessor based Colorimeter; Elico	2
65	Balance	Digital balance 220g 0.001g Contech; CA223	1

66	pH-meter	Digital pH meter with Electrode EQ 610; Equiptronics	1
67	Balance	ELECTRONIC CB-330 CAP 50/300GM WITH BREE	1
68	Anaerobic Jar	DYNOX MODEL J 2	1
69	Electrophoresis system	SMALL MODEL GEL SIZE10 X7CM FOR 8 SAMPLE	1
70	Microscope	MAKE BESTO MODEL 9 10X ,45X 100X	5
71	Laminar air flow	both side	1
72	Laminar Air Flow	PRESSUR EDIFFERTIAL MANOMETER,INBUILT U.V.TUBE,S.S.TUBE	1
73	Microscope DARK FIELD	MONOCULAR RESEARCH MICRO CONDENSOR INDIGENOUS	1
74	Heating Mantle	200WATTS 500ML	2
75	Micropipette	.5-10UL,10-100UL,100-1000UL	3
76	Vacuum pump	AV-45 OIL SEALED WITH1/4 H.P. MOTRO MAKE LAB HOSP	1
77	Balance	MAKE CONTECH 125GM SR.NO.2204650	1
78	Refrigerator	PENTACOOOL DEEP BLUE COLOR 210LIT.030012	1
79	Electrophoresis system	16 X14 CM MAKE GENEI	1
80	Electrophoresis system	MAKE GENEI 8,12,16	1
81	U. V. Transilluminator Gel viewing	25X13CM IILLUMINATRO	1
82	Power Pack	MODEL 0-300V 0-100MA CONSTSNT VOLTAGE DIGITAL DISPLAY	1
83	Colorimeter	MAKE ELICO FGCL157 S/N 1746	1
84	Spectrophotometer Is	MODEL UV2100NO.2276/1002 WITH CUVETTE SILICA MATCHED	1
85	Projector	make opel single lamp model folding type with24v 250watt halogen lamp	1
86	Microscope Projection	MODEL PSM 60 WITH IMPORTED LENS	1
87	Centrifuge Refrigerated	MAKE REMI ,MODEL NO.c-24 WITH20000RPM ANGULAR HEAD r-248 AND r-244A AND VOLTAGE STABILIZER	1
88	Shaker ROTARY	MAKE REMI RS-24 24 X24 WITH ONE PLTE FORM1 RI-879	1

89	Refrigerator DEEPPFREEZ	MAKE REMI MODEL RQF-170SR.NO.BD-2516 SR.NO.SB-644	1
90	Incubator	SIE 166 MAKE LAB HOSP 18X'18'X18'	2
91	Hot Air Oven	MAKE LAB HOSP SIE -151 18'X18'X18'.	1
92	Autoclave	MAKE ASCI SIZE 12'X 12'	1
93	Autoclave	MAKE LAB HOSP -S .S. 20'X12'	1
94	pH-meter	MAKE EQUIPTRONICS MODEL EQ-614	1
95	Microscope	STUDENT MICROSCOPE. MAKE BESTO 10X.45X100X	5
96	Cyclomixer	MAKE REMI CM-101 SR.NO.GWCM -833	1
97	Magnetic stirrer with hot plate	1MLH CAP 1LIT MAKE REMI GWMS-2072	1
98	Water bath	THERMOSTATICALLY SIZE 14X30X17.5 CMS WITH PYRAMID LID	1
99	Distillation Unit	WATER STILL DISTILATION UNIT CAL 2 LIT PER HR.	1
100	Projector	projector single lamp model no, uni 02 (dual )	1
101	Stabilizer	1 PHASE SERVO STABILIZER INPUT 170-270VAC 1PHASE MCB FUSE FOR OVRELOAD CIRCUT PROTECTION OUT PUT	2
102	Rota evaporator	Glass unit	1
103	Biosafety cabinet	Microfilt India	1
104	Shaker incubator	Labhosp	1
105	Peristaltic pump	With uniform flow rate adjustment	1
106	Micropipette	Capacity .5-10UL,5-50UL,20-20UL, 10-1000UL , MAKE BIOERA	7

### **List of instruments- Statistics Department**

1	Software	IBM SPSS Base 22.0, Advanced, Regression	01
2	Software	IBM SPSS Exact tests, conjoint Analysis, Client categories	01
3	Calculator	Basic CITIZEN	20
4	Scientific calculators	CASIO, ORPAT	14
5	Digital Slate	Wacom	1

### **List of instruments- Zoology Department**

1	Microscope	Dissecting Microscope Besto model 701 ,20x.710x eye piece	15
2	Microscope	Compound microscope besto model -6 with objective 5x,10x,45x with eye piece	15
3	Microscope	Advanced Projection Microscope Besto model-20 with stage	1
4	Microscope	Dissecting Entomological microscope Besto model	12
5	Water bath	Thermostasis water bath 12 holes with concentric rings	1
6	Vortex shaker	vortex shaker spinix	1
7	Incubator	Bacteriological application	1
8	Microscope	Compound Microscope Besto model	12
9	Cyclomixer	Remi cyclo mixer cm-101	1
10	Microscope	Binocular Microscope Besto model -7026	3
11	Insect storage cabinet	Ento-01 mositure storage capacity	2
12	Microscope	Trinocular Microscope of Olympus CH20i Standard set	1
13	Camera Lucida	Camera Lucida with besto model	6
14	Micropipette	1-10 microlit	2
15	Camera eye piece with soft wear	Camera eye piece with soft wear	1
16	Micropipette	20-200 microlit	5
17	Micropipette	1ml	4
18	Dissecting Lances	Dissecting Lances	8
19	Pointer eye Pieces	Pointer eye Pieces	3
20	Prismatic Binocular	Prismatic Binocular	1
21	Oven	Microwave oven	1
22	pH-meter	digital pH meter with electrode	1
23	pH-meter	digital conductivity meter	1
24	meter	Micrometer scale	6
25	Microscope	Compound Microscope	20
26	Microscope	Cari zeiss trinocular microscope Model - Primostar 5 megapixel color Digital camera	1
27	Wooden cabinet	Wooden cabinet for Permanent Slide storage	1
28	B.P. Apparatus	Diamond	1
29	Microscope	Cosmo Binocular Microscope	15
30	Incubator	BOD Cooling Incubator- Remi make	1

31	Digit DMM	Digital flame photometer	1
32	Electrophoresis system	midi vertical	1
33	Electrophoresis system	Mini vertical	1
34	Haemocytometer	with silver slide	6
35	Haemocytometer	ROHEM	10
36	Incubator	stainless steel	1
37	Calliper	Mitutoyo	1
38	Refrigerator	Samsung	1
39	Refrigerator	Whirlpool	1
40	Shaker	Vortex	1
41	Soxhlet Extractor Apparatus	soxhlet extractor apparatus	1
42	Stethoscope	Stethoscope	1
43	Power Pack	Power pack	1
44	Refrigerator	Heir	1
45	Stainless steel collection and aquatic net		20
46	Water bath	waterbath	1
47	Insect storage cabinet	Insect preservation box	2
48	Insect storage cabinet	Insect spreading board	2
49	Microscope	stereoZoom Trinocular Microscope with 9.7" microscope tablet with camera	1
50	Incubator	Global scientific	1
51	water bath	Global scientific	1
52	Microtome	Microtome superior spencer type 1-5 micron sipcon model	1
53	water bath	JP & co.	1
54	Micropipette	Eon pipette variable	1
55	Microtome	Leica Microtome	1
56	Micropipette	Eonpipette variable	4
57	Power Pack	DC power supply	1
58	pH-meter	Pen pH meter	1
59	pH-meter	Digital pH meter with electrode	1
60	Power Pack	variable	1

61	Dissecting tray	small	6
62	Dissecting tray	medium	6
63	Dissecting tray	large	6
64	Knapsack sprayer	capacity 10 lit	1
65	Kymograph	withdrawn	1
66	Stabilizer	Stabilizer	1
67	Autoclave	Fully automatic	2
68	BP apparatus	BP apparatus	1
69	Centrifuge	R-8	1
70	Centrifuge	REMI	2
71	Centrifuge	Rotor head	1
72	Spectrophotometer Is	Shimadzu	1
73	Colorimeter	Digital	2
74	Pressure Cooker	7lit	1
75	Colorimeter	Global scientific	1

#### **COMMON INSTRUMENTATION FACILITY**

1	Time PCR)		1
2	spectroscopy)		1
3	Nanodrop Spectrophotometer		1
4	infrared) spectroscope		1
5	liquid chromatography)		1
6	Deep-freezer (-86°C)		1

	<b>List of instruments- Electronics Department-</b>		
1	Cathode Ray Oscilloscope	APLAB/Scientech Dual Trace 2MHz,	10
2	Function Generator	Scientech/APLAB 2MHz,Sine,Suare,Triangular ,TTL Output	10
3	Digital Multimeter	Scientech 3&1/2 digit	20

4	Power Supply	APLAB DC regulated 0-30 V	4
5	Digital Storage Oscilloscope	30MHz,Dual Trace	1
6	Demonstration kits	Study of Antenna parameters, Study of GSM architecture, SciTech sensor lab	3
7	Experiment Boards	Circuit boards to carry out 2013 & 2019 pattern experiments in practical courses conducted by the department	182
8	School activity kit	Concept of resistor, capacitor, Electromagnetism, Electricity, Lab Safety	11

### **List of instruments- Mathematics Department**

1	Digital Slate	OME00L1055232	3
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### **List of instruments- Physics Department**

	<b>List of instruments- Physics Department</b>		
1	Michelson Interferometer	1 DV= 0.0001mm, Siddhivinayak Technology Make	1
2	Ball Milling Apparatus	1 Kg	1
3	Pallet making machine	15 Ton	1
4	Signal/ Function Generator	Aplab MSG 2M , Scientech Make 3MHz	8
5	G M Counter	GC 602 A, DEtector GM120	1
6	Four Probe Method	Sample, Terminals DFP 02, SES Instruments	1
7	Two Probe Method	TPX- 600 C, SES Instruments Roorkee	1
8	Muffele Furnace	BTi 36 Bio Technics Make	1
9	e/m by Thomson's method	SES instruments	1
10	Millikan's oil drop method	Pisco Make with Telescope, light source, automizer and power supply	1
11	Platinum resistance	With compensation Leads in hard glass tube	1
12	Electromagnetic pendulum	Ep 18, With magnet, Pendulum, connecting circuit and Reheostat	1
13	Audiometer	Elcon Microcontrolled Diagnostic Audiometer, EDA 3N3 Giga 3	1
14	LCR- Q meter	Aplab 4910	1
15	Digital pH-meter	EQ 610 Equiptronics	1
16	Stroboscope	HTC DT 2229, Venkatesh Scientific	1
17	Dimmer Stat	2 Amp, Single Phase, Closed type	2



18	Variable Inductance Box	100 micro Hz to 100 milli Hertz	1
19	Variable Capacitance box	0.001 to 0.1 micro Farad	1
20	Decade Resistance Box	Dial with 0 to 10 Variables	1
21	Cathode Ray Oscilloscope	Aplab Make , Dual Channel 3702	6
22	Digital Storage Scope	Aplab Make D36100 CA, 100 Mz	2
23	Polarimeter	Goko Make, Model 220	1
24	Refractrometer ABBE	Rajrani Scientific Instruments make,R.I. 1.3 to 1.7	1
25	Ultrasonic Interferometer	Mittal Make	1
26	RF Generator	Scientech 1500	1
27	Photocalorimeter	HANS 251, Kanad Vidyut	1
28	Magnetic Stirrer	REMI 1 MLH	2
29	Digital Electronic Balance	300g/ 0.001g	1
30	Lux Meter	TES: 0.01 to 20000 Lux (LCD Display 3 1/2 digit)	1
31	Ultrasonic Distance Meter	Range 0.91 to 15 m. , CB- 1005	1
32	He Ne Laser	2 MW	2
33	Spectrometer	Spectrometer with CDS Prism	1
34	Optical Bench	Complete set with 4 mounts, 1.5 M	1
35	Diode Laser	3mW, Red and Green	7
36	Amplifier	Ahuja Make 100 W, Amplifier speaker unit Studio Master SPA 25 FX	3
37	Loudspeakers	Tweeter ,Woofers and Horn	3
38	Spectrometer	6 " dial with permanent cross wire	6
39	Travelling Microscope	T Type, LC 0.001 cm	6
40	Astronomical Telescope	In House manufacture	1
41	Tracer.	NVIS make 6108	1
42	apparatus	NVIS make 6025	1
43	Coulomb's Law Demonstrator	NVIS make 6012	1
44	Fiber Optics Trainer	Scientech 2502 make	1
45	Digital Multimeter	Meco G R-603 A, Scientech Make DM 97	15
46	AC Power Supplies	Aplab Make	4
47	DC Power Supplies	Adroit Make	4
48	Vernier Callipers	Delux Type	12
49	Screw Gauge	20 mm x 0.01 mm	12
50	Computer	Samsung Make, Pentium 4	5

51	Printer	HP M1136	1
52	Laptop	Compac, Lenovo Make	2
53	Hall Effect Set Up	Digital GaussMeter, Constant Current Supply, Hall Probe	1
54	Digital Conductivity Meter	With Cell k = 1, EQ 660 B Equiptronics	1

<b>List of instruments- Chemistry Department</b>			
1	Balance	Contech Digital Balance 0.01 g accuracy	6
2	Balance	Contech Digital Balance 0.001 g accuracy	3
3	Centrifuge	Medico Centrifuge C 852 Remi	5
4	Colorimeter	Digital Colorimeter Equiptronics	11
5	conductivity meter	Digital Conductivitymeter 660 B Equiptronics	8
6	Distillation unit	All glass distillation unit	1
7	Fire Extinguisher	ABC stored pressure 2 kg	3
8	Fire Extinguisher	Fire Extinguisher 5 kg	1
9	Fume Guard	Fume Guard 1200 mm X 800 mm X 1200 mm	1
10	Fume Guard	Fume Guard 800 mm x 800 mm x 800 mm	1
11	Fuming Hood	Fuming Hood with cupboard, exhaust pipeline	3
12	Heating Mantle	Heating Mantle with Reg - 250 ml	5
13	Heating Mantle	Heating Mantle with Reg - 500 ml	5
14	Heating Mantle	Heating Mantle 1 litre	1
15	Hot Plate	Hot Plate Rectangular 10 X 12" With Energy Regulator	1
16	Hot Plate	Hot plate stirrer with ceramic top 2200 rpm	1
17	Iceflake Machine	Iceflake machine Bluestar SF190	2
18	Magnetic stirrer	Magnetic Stirrer with Hot Plate 1MLH Remi ( 1 Lit capacity)	6
19	Magnetic stirrer	Magnetic Stirrer with Hot plate 2MLH Remi	4
20	Magnetic stirrer	Position stirrer with heating 1500 R HP5M	1
21	Magnetic stirrer	Magnetic stirrer without hot plate	4
22	Magnetic stirrer	Magnetic stirrer	2
23	Melting point Apparatus	Melting point apparatus simple	10
24	Melting point Apparatus	Equiptronics EQ - 730 Heating range 300 degree centigrade	1
25	Microwave	Microwave Oven 42 L	1
26	Microwave	Scientific Microwave Model RGIR	1

27	Millipore	ELIX 10 Water Purification System Kit	1
28	Muffle Furnace	Muffle furnace 1200 degrees digital controller Metalab	1
29	Muffle Furnace	Muffle furnace with digital temperature indicator	1
30	Muffle Furnace	Muffle furnace 9"x 4"x4"	1
31	Nitrogen Cylinder	Nitrogen cylinder	1
32	Oil Bath	Oil Bath 2 lit	2
33	Oven	Oven Laboratory 18 x 18 x 18 "	2
34	Oven	Hot air Oven with Digital temperature indicator	1
35	pH-meter	Digital pHmeter with electrode EQ 615	12
36	Polarograph DC Systronics	Polarograph DC Systronics	1
37	Potentiometer	Digital potentiometer with Platinum, Calomel electrodes EQ 601	8
38	Printer	Kores Printer PT 2730	2
39	Refractometer	Refractometer 0.001 accuracy	2
40	Refrigerator	Haier Refrigerator 345 L	1
41	Refrigerator	Refrigerator Samsung 210 L Single Door	1
42	with spanner	Regulator Weldcut Nitrogen with spanner	1
43	ROTEVA	Rotary Evaporator 3 Litre Max.	1
44	ROTEVA	Rotary Vacuum Flash Evaporator	1
45	Sodium Press Machine	Sodium Press Machine	1
46	Soxhlet apparatus	extraction of natural products	1
47	Spectrophotometer	Double beam UV Spectrophotometer	1
48	Stabilizer	Servo Stabiliser 2KVA 230V AC Single phase	6
49	U.V. Cabinet.	UV Cabinet for TLC	3
50	Vacuum filtration assembly	Vacuum filtration assembly 1 L	1
51	Vacuum pump	Jet Vacuum pump J-1	5
52	Water bath	control	8

<b>List of instruments- Computer Science Department</b>			
1	Smartboard	View Sonic	2
2	Firewall	Fotigate 100E Licence	1
3	UPS	APC	2
4	UPS Battery	Amaron	128

### List of Instruments BCA Science Department

1	Camera Tripod	Digitech	2
2	RFID attendance system	Developed in the college	1

### List of Instruments -Department of B.Voc

1	Alcoholometer	Homebrew	4
2	Air Fryer	Kenstar	2
3	Bag hand sealing machine Aluminium	Indegeneous	1
4	Bag hand sealing machine Plastic 8''	Nova pack	2
5	Bag hand sealing machine 16''	Nova pack	1
6	Aspirated psychrometer		2
7	Aspirated psychrometer pen shaped	Fieldpiece	1
8	Autoclave (automatic medium) 35 x 55 cm		1
9	Autoclave small	Biotechnics	2
10	Bakery oven ( 2x2x2) or 3x3x3	Redberry	1
11	Basket fryer	Philips	4
12	BIS sieves (Set of 5) 2 mm, 1 mm, 0.5 mm, 0.25 mm, 0.105	Rico	1
13	Centrifuge lab scale regular ( cold)	Remi	1
14	Centrifuge Medium (non cold)	Remi	1
15	Centrifuge mini	Tarson	3

16	Combination air speed, temp and humidity meter	Ambient weather	1
17	Compound microscope with in built light source	Scientech	10
18	Compound microscope	Goko	5
19	Conductivity meter Digital	Durene	1
20	Conductivity meter	Electronic India	3
21	CO2 Analyser		1
22	Cream separator	NK dairy	2
23	Crown corking machine	SS engg.	2
24	Deep freezer	Remi	1
25	Dial thermometer	Dimpal	10
26	Dial thermometer Digital with probe		10
27	Digital photocalorimeter	Equiptronics	2
28	Disecting Microscope	Goko	10
29	Double jacketed kettle		1
30	Dry and wet bulb thermometer		6
31	Electonic thermometer	Oparon	6
32	Fruit and vegetable washer	Veggies wash	6

33	Gerber centrifuge ( milk fat)	Benny	2
34	Electric dairy centrifuge	Medicentro	2
35	Distillation unit (Steel)	KL	1
36	Hand held Specific gravity meter	Erma	1
37	Hardness tester ( Tablet)	Monosanto type	2
38	Hardness tester (Handheld)		2
39	Heating mantle (500 ml)	Morya scientific	2
40	Heating mantle (1000 ml)	Morya scientific	2
41	Hot air oven		2
42	Hydraulic basket press		
43	Hygrometer		5
44	Hygrometer (digital)		5
45	Ice Cream Maker	Skyline	1
46	Incubator	BTL	1
47	Kjeldahl unit	J-sil	1
48	Lactometer	Zeal type	24
49	Magnetic steirr with hot plate	Biotechnico	1

50	Melting point apparatus	Coslab	2
51	Micro pipette 1 ml	Tarson	3
52	Micro pipette 10 to 100 ul	Tarson	3
53	Micro pipette 100 to 1000 ul	Tarson	3
54	Micrometer screw gauge	Coslab	10
55	Microwave	LG	2
56	Milk analyzer	Citizen	1
57	Mini- max thermometer		12
58	Moisture meter (IR)	PIA	2
59	Muffle furnace	Morya scientific	1
60	Pasta Maker	Norpro	1
61	PH meter desktop	Electronics India	4
62	pH meter handheld	Hanna	8
63	pH meter pentype		2
64	Pipette washer	Tarsons	1
65	Pulverizer	Rico	1
66	Refractometer- A, B, C	Erma	4

67	Refrigerator Big	Samsung	2
68	Salinometer	Lenco	6
69	Soxhletfat extraction unit (with six )	Borosil	1
70	Specific gravity bottles (25 ml)	J-sil	18
71	Spectrophotometer (UV-visible)	Shimdu	1
72	Hot water bath Thermosttic	Biotechno	1
73	Tray dryer	Citizen Pharma	1
74	Turbidity meter digital		2
75	Vacuum packaging machine	Foodsaver	1
76	Vacuum oven	Morya scientific	1
77	Vacuum pump	Wave	1
78	Verniercallipers		6
79	Verniercallipers digital		4
80	Viscometer U-tube	J-sil	4
81	Vortex mexer	Remi	2
82	Water purifier	Kent	1
83	Weighing balance 0.1 mg to 120 gm	citizen	1



84	Weighing balance- Electronic 0 to 300 gm	citizen	1
85	Weighing balance- Electronic 0 to 3000 gm	citizen	4
86	Zoom Stereo Binocular Microscope /Bionocular	citizen	1

### **List of instruments- Psychology Department**

1	Muller Lyer Illusion		1
2	A set of weights		1
3	Size Constant Apparatus		1
4	Pyramid Puzzle		1
5	Wiggly Block		1
6	Memory Drum		1
7	Muller Lyer Illusion		1
8	Galton Bar		1
9	Pyramid Puzzle		1
10	Metronome		1
11	Wiggly's Block		1
12	A set of 40 Photographs		1
13	Styles Maze		1
14	Habit Interference Board		1
15	Discriminatory Weights		1
16	Galton Bar		1

17	Muller Lyer Illusion		1
18	Reaction Apparatus		1
19	Peterson's Rational Learning Test		1
20	Yerl's Multiple Choice Apparatus		1
21	Koh's Block Design		1
22	Size and Weight Illusion		1
23	Rod for Muller Lyer Illusion		1
24	Cup and Ball		1




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